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# WISCONSIN Soybean Variety Performance Trials 2022

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# 2022 Wisconsin Soybean Performance Trials

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

## How the entries were tested

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

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

## Growing conditions

Wisconsin soybean growers experienced average growing conditions across much of the state in 2022. Normal precipitation in April and May coupled with average temperatures led to normal soybean planting timing. Cooler weather in late August and September slowed development and maturity compared to 2021 but was similar to the 5-year average.

The 2022 projected statewide average soybean yield is 54.0 bu/A, down 1.0 bu/A from 2021. Production is expected to be at 115 million bushels, which is above the record crop of 2021. Source: October 12, 2022 NASS report, [www.nass.usda.gov](http://www.nass.usda.gov)

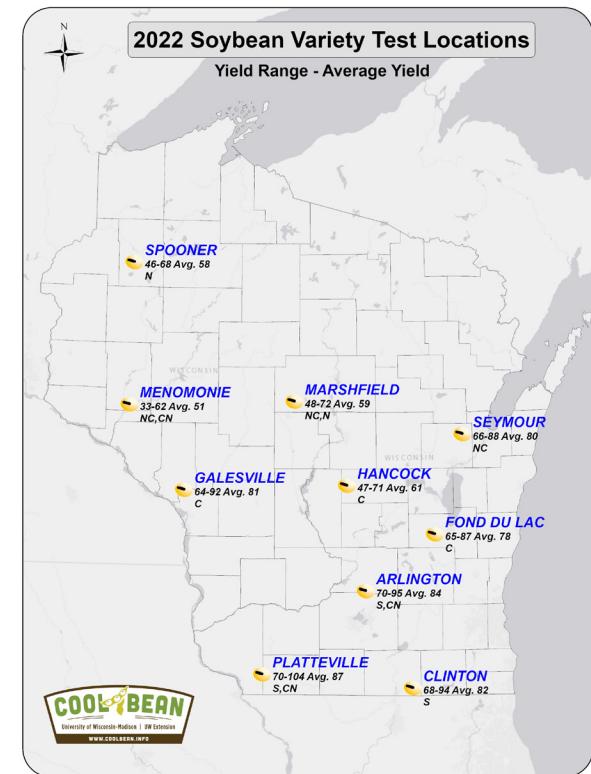
Statewide crop conditions were rated at about 74% good to excellent for most of the season. As of October 24<sup>th</sup>, 76% of the WI soybean crop had been harvested, which is 8 days ahead of the average. Platteville had some white mold incidence and Menomonie experienced dryer conditions through June and July.

## How performance was measured

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

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

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



## Protein and oil

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

## Common Diseases of Wisconsin Soybean

### Phytophthora Root Rot

(caused by *Phytophthora sojae*)

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

#### Gene Races

|        |                                       |
|--------|---------------------------------------|
| Rps1-a | 1, 2, 10, 11, 13-18, 24               |
| Rps1-b | 1, 3-9, 13-15, 17, 18, 21, 22         |
| Rps1-c | 1-3, 6-11, 13, 15, 17, 21, 23, 24     |
| Rps1-k | 1-11, 13-15, 17, 18, 22, 24           |
| Rps3-a | 1-5, 8, 9, 11, 13, 14, 16, 18, 23, 25 |
| Rps4   | 1-4, 10, 12, 16, 18-21, 25            |
| Rps6   | 1-4, 10, 12, 14-16, 18-21, 25         |

Selection of soybean varieties with the appropriate resistance gene is paramount for its control. Race 3 is the predominant form of Phytophthora in Wisconsin soils based on survey conducted over 10 years ago. Thus, the long-used Rps1-a gene was not providing protection 95% of the time. Race 4 occurs in 25% of Wisconsin soybean fields but is expected to be on the rise in the state. Growers have a decent chance in controlling race 3 by planting varieties with the Rps1-c or Rps1-k gene. The Rps1-k gene provides complete resistance against many races of Phytophthora found in Wisconsin. That being said, active work is ongoing to classify new races in the state. Thus, if you have had a severe Phytophthora problem, switching resistance genes might help alleviate some of the issue. Many varieties express tolerance (partial resistance) to all races of Phytophthora, but varieties with this form of resistance are vulnerable in the early seedling phase. Certain fungicides seed treatments can provide a window

of protection to partially resistant varieties during emergence. Variety resistance ratings are not reported and can be supplied by seed industry representatives. The information shown in Table 10 is based on information supplied by public breeders or companies that are releasing or marketing the variety. It is advised to consider Phytophthora resistance carefully as there was low-to-moderate incidence and severity of Phytophthora root and stem rot in Wisconsin in 2022.

### White Mold (caused by *Sclerotinia sclerotiorum*)

The white mold fungus infects through the flowers during early reproductive growth; symptoms are delayed until early pod formation, and plant death is evident as the crop progresses towards maturity. White mold was a moderate issue in some fields across Wisconsin in 2022, especially those that were planted to known susceptible varieties. The reaction of soybean varieties to the white mold pathogen is expressed as plant mortality in the presence of high white mold pressure and reduced grain yield when incidence is above 10%. Varieties that express 25% or less plant incidence generally yield well in the presence of white mold. However, for every 10% increase in white mold incidence at the R7 growth stage, one can expect yield to be reduced 2-5 bu/A.

### Soybean Cyst Nematode (*Heterodera glycines*)

Soybean cyst nematode (SCN) has gained significant importance as a yield-limiting pathogen in Wisconsin. A major concern is that growers are not aware of its presence on their farms. SCN can cause severe stunting and chlorosis of soybean plants, but these symptoms are not always common; SCN can also cause major yield loss without obvious symptoms. The most common "symptom" caused by SCN is a yield decline over years even though best crop management practices are used. Significant advances have been made to improve variet-

ies 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/university-partners/university-wisconsin-madison>

### Brown Stem Rot (caused by *Cadophora gregata*)

Brown stem rot (BSR) is a major disease of soybeans in Wisconsin. In 2022, BSR was occasionally found in fields in Wisconsin where susceptible varieties were planted and/or where there were short rotations between soybean crops. External symptoms of BSR are not observed until after pod development begins. There are examples where fields have both BSR and sudden death syndrome, which can make diagnoses difficult since foliar symptoms are similar. There are two pathotypes of the pathogen that cause BSR. The defoliating pathotype causes more severe internal stem discoloration and defoliation of leaves, compared with the non-defoliating pathotype that only causes internal stem symptoms. The non-defoliating pathotype may be becoming more prevalent, so be sure to cut soybean stems to identify symptoms if you notice plants that are unthrifty, stunted, or yellowing prematurely. Select resistant varieties if BSR has been a problem in the field. Some SCN-resistant soybean varieties are also resistant to BSR.

## Sudden Death Syndrome

(caused by *Fusarium virguliforme*)

Sudden death syndrome (SDS) incidence was moderate in 2022, especially south and south-central Wisconsin. SDS is caused by a fungus. If SCN and SDS are both diagnosed in the same field, damage to the soybean crop can be significant. However, recent studies in Wisconsin suggest that the presence of SCN does not always mean SDS will also be found. The primary symptom of SDS is sudden leaf yellowing and browning during early pod development followed by leaf drop. Leaf symptoms of SDS and BSR can be similar, so be sure to cut soybean stems to rule out browning of the internal stem (pith) to confirm SDS. SDS resistance information is available on tech data sheets from seed companies. Several seed treatments are available on the market that have excellent efficacy against SDS. Contact your seed dealer for details and limitations of these products.

## Soybean viruses and insects

Soybean aphids were localized again in 2022; whereas spider mite infestations were isolated to droughty production areas of WI. Those growers that did not manage aphids or spider mites accrued significant yield loss. The bean leaf beetle was observed in low numbers in the southern counties. Soybean growers and agronomic advisors need to carefully monitor early season bean leaf beetle populations again in 2022. The virus situation in fields also needs to be assessed; virus-infected soybean plants commonly produce discolored seed. Late season bean leaf beetle infestation can cause extensive feeding injury to pods, thus combining with *Bean pod mottle virus* to reduce seed yield and quality. Evidence is increasing that soybean varieties differ in the ability to yield in the presence of insects and associated viruses. In 2022, symptoms of *Tobacco streak virus* (TSV) were occasionally observed in soybean fields. To a lesser extent symptoms of *Alfalfa mosaic virus* (AMV) were

also observed. Symptoms of *Soybean vein necrosis virus* (SVNV) were more prevalent in Wisconsin in 2022 than 2021 but did not cause any yield reductions.

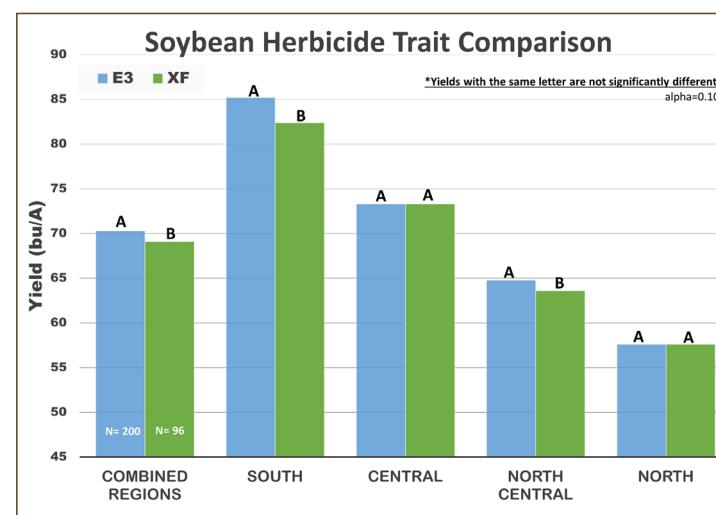
## What the results mean

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

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

## Table List

|   |    |
|---|----|
| <b>Table 1.</b> General Information on the 2022 Soybean Trials .....              | 6  |
| <b>Table 2.</b> 2022 Southern Region Glyphosate Tolerant Soybean Trial.....       | 7  |
| <b>Table 3.</b> 2022 Central Region Glyphosate Tolerant Soybean Trial.            | 11 |
| <b>Table 4.</b> 2022 North Central Region Glyphosate Tolerant Soybean Trial ..... | 16 |
| <b>Table 5.</b> Northern Region Glyphosate Tolerant Soybean Trial .               | 19 |
| <b>Table 6.</b> 2022 Southern Conventional Soybean Trial.....                     | 21 |
| <b>Table 7.</b> 2022 North Central Conventional Soybean Trial.....                | 23 |
| <b>Table 8.</b>   |    |
| 2022 Seed Source for Soybean Entries.....   | 24 |
| <b>Table 9.</b> 2022 Temperature and Precipitation Summary.....                   | 25 |
| <b>Table 10.</b> 2022 Characteristics of Soybean Varieties .....                  | 26 |



**Figure 1.** Average performance of E3 and XF soybean varieties in Wisconsin in 2022.

# TABLE 1. General Information on the 2022 Soybean Trials

| Location: Trial                                 | Cooperators                  | Row Spacing (in.) | Tillage      | Soil Test Results |     |        |         |         | Pesticide Applications                      |                                       | Planting | Harvest | Average Yield (bu/A) |      |         |
|---|------------------------------|-------------------|--------------|-------------------|-----|--------|---------|---------|---|---------------------------------------|----------|---------|----------------------|------|---------|
|   |                              |                   |              | Soil Texture      | pH  | OM (%) | P (ppm) | K (ppm) | Pre-emergent / Pre-plant                    | Post-emergent                         |          |         | 2022                 | 2021 | 2021-22 |
| Arlington: Glyphosate Tolerant                  | Mike Bertram                 | 15                | no-till      | Silt Loam         | 6.8 | 4.3    | 72      | 288     | 2,4-D, glyphosate, Medal II, Sonic          | glyphosate, Select Max                | 9-May    | 7-Oct   | 84                   | 84   | 84      |
| Arlington: Conventional Herbicide               | Mike Bertram                 | 15                | no-till      | Silt Loam         | 6.8 | 4.3    | 72      | 288     | 2,4-D, glyphosate, Medal II, Sonic          | Select Max                            | 9-May    | 7-Oct   | 67                   | 71   | 69      |
| Clinton: Glyphosate Tolerant                    | Gary Sommers                 | 15                | no-till      | Silt Loam         | 6.8 | 4.4    | 31      | 254     | Outlook, Sharpen, Thunder Master            | glyphosate, Select Max, Warrant       | 10-May   | 19-Oct  | 82                   | 66   | 74      |
| Fond du Lac: Glyphosate Tolerant                | Ed Montsma                   | 15                | no-till      | Silt Loam         | 7.2 | 4.1    | 61      | 262     | Authority First, Dual II Magnum             | glyphosate                            | 6-May    | 7-Oct   | 78                   | --   | 78      |
| Galesville: Glyphosate Tolerant                 | Ken Congdon                  | 15                | conventional | Silt Loam         | 5.8 | 3.9    | 54      | 282     | glyphosate, Zidua Pro                       | glyphosate, Select Max, Warrant       | 5-May    | 6-Oct   | 81                   | 69   | 75      |
| Hancock: Glyphosate Tolerant                    | Paul Sytsma                  | 15                | conventional | Sand              | 5.7 | 0.6    | 114     | 117     | Dual II Magnum                              | glyphosate, Select Max, Warrant       | 4-May    | 6-Oct   | 61                   | 67   | 64      |
| Marshfield: Glyphosate Tolerant (North Central) | Jason Cavadini               | 15                | no-till      | Silt Loam         | 6.9 | 4.3    | 30      | 168     | Authority First, Dual II Magnum, glyphosate | glyphosate, Warrant                   | 13-May   | 11-Oct  | 62                   | 74   | 68      |
| Marshfield: Glyphosate Tolerant (North)         | Jason Cavadini               | 15                | no-till      | Silt Loam         | 6.9 | 4.3    | 30      | 168     | Authority First, Dual II Magnum, glyphosate | glyphosate, Warrant                   | 13-May   | 11-Oct  | 56                   | 72   | 64      |
| Menomonie: Glyphosate Tolerant                  | Tony Mellenthin, Jerry Clark | 15                | no-till      | Sandy Loam        | 6.1 | 1.6    | 35      | 86      | Authority First, Dual II Magnum, glyphosate | glyphosate, Select Max, Warrant       | 5-May    | 11-Oct  | 51                   | 77   | 64      |
| Menomonie: Conventional Herbicide               | Tony Mellenthin, Jerry Clark | 15                | no-till      | Sandy Loam        | 6.1 | 1.6    | 35      | 86      | Authority First, Dual II Magnum, glyphosate | Raptor, Select Max                    | 5-May    | 11-Oct  | 48                   | 70   | 59      |
| Platteville: Glyphosate Tolerant                | Schweigert Family Farms      | 15                | no-till      | Silt Loam         | 6.8 | 3.5    | 81      | 185     | Cloak, Gramoxone, Prefix                    | glyphosate, Select Max, Warrant       | 10-May   | 18-Oct  | 87                   | 96   | 92      |
| Platteville: Conventional Herbicide             | Schweigert Family Farms      | 15                | no-till      | Silt Loam         | 6.8 | 3.5    | 81      | 185     | Cloak, Gramoxone, Prefix                    | Raptor, Select Max, Warrant           | 10-May   | 18-Oct  | 81                   | 91   | 86      |
| Seymour: Glyphosate Tolerant                    | Mike Maass                   | 15                | conventional | Silt Loam         | 7.1 | 2.9    | 19      | 138     | Dual II Magnum, Sonic                       | glyphosate, Warrant                   | 12-May   | 10-Oct  | 80                   | 74   | 77      |
| Spooner: Glyphosate Tolerant (Dry Land)         | Phil Holman                  | 15                | conventional | Silt Loam         | 6.2 | 2.6    | 38      | 144     | --  | clethodim, Dual II Magnum, glyphosate | 27-May   | 10-Oct  | 56                   | 55   | 56      |
| Spooner: Glyphosate Tolerant (Irrigated)        | Phil Holman                  | 15                | conventional | Sandy Loam        | 6.4 | 2.4    | 37      | 121     | --  | clethodim, Dual II Magnum, glyphosate | 24-May   | 10-Oct  | 60                   | 57   | 59      |

## TABLE 2. 2022 Southern Region Glyphosate Tolerant Soybean Trial (1 of 4)

| Brand     | Entry     | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields      |                |                    |                  | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|-----------|-----------|------------------------------|----------------|----------------------------|---------------------|---------------|------------------|----------------|--------------------|------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|           |           |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Clinton (bu/A) | Platteville (bu/A) | WM% <sup>3</sup> | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| AgriGold  | G2107E3   | E3                           | 2.1            | 24-Sep                     | 85                  | 1.8           | 82               | 85             | 89                 | 8                | 34.0                          | 18.9    | --                  | --            | --                            | --      |
| AgriGold  | G2108XF   | XF                           | 2.1            | 22-Sep                     | 83                  | 1.7           | 81               | 82             | 87                 | 8                | 33.7                          | 19.3    | --                  | --            | --                            | --      |
| AgriGold  | G2315XF   | XF                           | 2.3            | 24-Sep                     | *86                 | 1.8           | 83               | 82             | 92                 | 9                | 33.5                          | 19.2    | *85                 | 1.2           | 34.1                          | 19.5    |
| AgriGold  | G2361E3   | E3                           | 2.3            | 1-Oct                      | *88                 | 1.9           | 84               | 84             | *95                | 10               | 33.5                          | 18.8    | --                  | --            | --                            | --      |
| AgriGold  | G2450XF   | XF                           | 2.4            | 1-Oct                      | 84                  | 2.3           | 86               | *93            | 72                 | 48               | 34.0                          | 18.6    | --                  | --            | --                            | --      |
| AgriGold  | G2549E3   | E3                           | 2.5            | 1-Oct                      | *86                 | 1.6           | 86               | *92            | 81                 | 28               | 32.7                          | 19.3    | --                  | --            | --                            | --      |
| AgriGold  | G2622XF   | XF                           | 2.6            | 1-Oct                      | 83                  | 1.8           | 85               | 81             | 83                 | 35               | 32.3                          | 19.3    | --                  | --            | --                            | --      |
| AgriGold  | G2705E3   | E3                           | 2.7            | 1-Oct                      | *90                 | 1.6           | *95              | 84             | 91                 | 12               | 31.9                          | 19.9    | --                  | --            | --                            | --      |
| AgriGold  | G2820XF   | XF                           | 2.8            | 1-Oct                      | 85                  | 1.6           | 84               | *90            | 83                 | 19               | 34.0                          | 18.8    | --                  | --            | --                            | --      |
| Asgrow    | AG20XF1   | XF                           | 2.0            | 21-Sep                     | 73                  | 1.4           | 70               | 69             | 82                 | 4                | 33.6                          | 18.7    | 82                  | 1.0           | 34.2                          | 19.4    |
| Asgrow    | AG22XF2   | XF                           | 2.2            | 20-Sep                     | 82                  | 1.3           | 78               | 78             | 89                 | 23               | 33.8                          | 19.7    | --                  | --            | --                            | --      |
| Asgrow    | AG24XF1   | XF                           | 2.4            | 24-Sep                     | 82                  | 1.1           | 82               | 68             | *95                | 2                | 33.6                          | 18.9    | 80                  | 1.0           | 34.7                          | 18.8    |
| Asgrow    | AG24XF3   | XF                           | 2.4            | 26-Sep                     | *88                 | 1.3           | 82               | *88            | 94                 | 14               | 32.9                          | 19.8    | --                  | --            | --                            | --      |
| Asgrow    | AG26XF1   | XF                           | 2.6            | 24-Sep                     | 77                  | 1.3           | 76               | 68             | 87                 | 4                | 33.5                          | 18.9    | 79                  | 1.0           | 34.1                          | 19.1    |
| Asgrow    | AG26XF3   | XF                           | 2.6            | 30-Sep                     | 81                  | 1.3           | 77               | 83             | 82                 | 21               | 32.9                          | 19.2    | --                  | --            | --                            | --      |
| Burrus    | 2096E     | E3                           | 2.0            | 20-Sep                     | *86                 | 1.4           | 81               | 83             | *96                | 2                | 32.0                          | 19.8    | --                  | --            | --                            | --      |
| Burrus    | 2497E     | E3                           | 2.4            | 25-Sep                     | *86                 | 1.9           | 86               | *87            | 85                 | 24               | 32.2                          | 20.4    | 80                  | 1.2           | 32.9                          | 20.5    |
| Burrus    | 2565E     | E3                           | 2.5            | 1-Oct                      | *87                 | 1.3           | 83               | *92            | 87                 | 15               | 31.2                          | 20.7    | 83                  | 1.0           | 32.3                          | 20.5    |
| Burrus    | 2742E     | E3                           | 2.7            | 1-Oct                      | *88                 | 1.6           | *90              | 79             | 94                 | 14               | 32.2                          | 19.6    | --                  | --            | --                            | --      |
| Cornelius | CB24XF27  | XF                           | 2.4            | 1-Oct                      | 79                  | 2.1           | 84               | 82             | 72                 | 50               | 34.1                          | 18.7    | --                  | --            | --                            | --      |
| Cornelius | CB25XF99  | XF                           | 2.5            | 1-Oct                      | 82                  | 1.6           | 86               | 78             | 82                 | 30               | 32.7                          | 19.0    | --                  | --            | --                            | --      |
| Cornelius | CB27XF34  | XF                           | 2.7            | 26-Sep                     | *89                 | 1.3           | 84               | 79             | *104               | 5                | 33.8                          | 19.0    | 82                  | 1.0           | 34.8                          | 19.3    |
| Cornelius | CB29XF35  | XF                           | 2.9            | 30-Sep                     | 78                  | 1.9           | 82               | 82             | 70                 | 48               | 33.3                          | 18.2    | --                  | --            | --                            | --      |
| Dairyland | DSR-1919E | E3                           | 1.9            | 19-Sep                     | 82                  | 1.7           | 83               | 74             | 90                 | 3                | 31.7                          | 20.4    | --                  | --            | --                            | --      |
| Dairyland | DSR-2030E | E3                           | 2.0            | 24-Sep                     | 77                  | 2.1           | 75               | 69             | 87                 | 2                | 33.2                          | 19.0    | *84                 | 1.0           | 33.5                          | 19.6    |
| Dairyland | DSR-2188E | E3                           | 2.1            | 26-Sep                     | 82                  | 1.5           | 82               | 81             | 82                 | 25               | 32.3                          | 20.2    | --                  | --            | --                            | --      |

**TABLE 2. CONTINUED.** 2022 Southern Region Glyphosate Tolerant Soybean Trial (2 of 4)

| Brand          | Entry          | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields      |                |                    |                  | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|----------------|----------------|------------------------------|----------------|----------------------------|---------------------|---------------|------------------|----------------|--------------------|------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|                |                |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Clinton (bu/A) | Platteville (bu/A) | WM% <sup>3</sup> | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| Dairyland      | DSR-2562E      | E3                           | 2.5            | 1-Oct                      | 79                  | 1.0           | 85               | 83             | 70                 | 50               | 32.6                          | 18.9    | --                  | --            | --                            | --      |
| Dairyland      | DSR-2717E      | E3                           | 2.7            | 1-Oct                      | *88                 | 1.2           | *91              | 85             | 88                 | 21               | 32.0                          | 20.0    | --                  | --            | --                            | --      |
| DONMARIO       | DM 24E23       | E3                           | 2.4            | 30-Sep                     | 79                  | 1.3           | 76               | 84             | 76                 | 44               | 32.8                          | 18.8    | --                  | --            | --                            | --      |
| DONMARIO       | DM 28E52       | E3                           | 2.8            | 1-Oct                      | *90                 | 1.3           | 87               | *88            | *96                | 7                | 32.9                          | 18.7    | --                  | --            | --                            | --      |
| Dyna-Gro       | S21EN81        | E3                           | 2.1            | 22-Sep                     | *92                 | 1.4           | 88               | *87            | *100               | 8                | 31.8                          | 20.1    | *89                 | 1.0           | 33.1                          | 20.0    |
| Dyna-Gro       | S23ES32        | E3                           | 2.3            | 1-Oct                      | 83                  | 2.0           | 85               | *86            | 76                 | 33               | 31.3                          | 20.6    | 82                  | 1.1           | 32.9                          | 20.5    |
| Dyna-Gro       | S24XF12        | XF                           | 2.4            | 1-Oct                      | 78                  | 1.7           | 80               | 76             | 79                 | 8                | 32.5                          | 19.2    | --                  | --            | --                            | --      |
| Dyna-Gro       | S25EN02        | E3                           | 2.5            | 1-Oct                      | 85                  | 1.2           | 81               | 85             | 89                 | 7                | 30.9                          | 20.8    | 82                  | 1.0           | 32.4                          | 20.6    |
| Dyna-Gro       | S26EN53        | E3                           | 2.6            | 1-Oct                      | 83                  | 1.8           | 84               | 79             | 87                 | 5                | 33.0                          | 19.4    | --                  | --            | --                            | --      |
| Dyna-Gro       | S28EN22        | E3                           | 2.8            | 1-Oct                      | 79                  | 1.3           | 86               | 78             | 74                 | 33               | 33.2                          | 18.8    | *85                 | 1.0           | 34.5                          | 19.3    |
| FS HiSOY       | HS 16F10       | XF                           | 1.6            | 20-Sep                     | 81                  | 1.3           | 78               | 76             | 88                 | 9                | 33.1                          | 19.7    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 18E00       | E3                           | 1.8            | 23-Sep                     | *87                 | 1.3           | 82               | 84             | 94                 | 5                | 33.0                          | 19.3    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 18F20       | XF                           | 1.8            | 22-Sep                     | 78                  | 1.6           | 82               | 76             | 75                 | 40               | 32.1                          | 19.9    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 21F20       | XF                           | 2.1            | 26-Sep                     | *87                 | 1.3           | 85               | 84             | 93                 | 9                | 33.4                          | 19.4    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 23E10       | E3                           | 2.3            | 1-Oct                      | 83                  | 1.7           | 82               | 82             | 83                 | 30               | 31.0                          | 20.8    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 24F00       | XF                           | 2.4            | 1-Oct                      | 82                  | 1.3           | 78               | 75             | 92                 | 8                | 34.3                          | 18.6    | 83                  | 1.0           | 35.3                          | 18.7    |
| FS HiSOY       | HS 25E00       | E3                           | 2.5            | 1-Oct                      | *87                 | 2.3           | *89              | *93            | 79                 | 45               | 31.7                          | 20.8    | *84                 | 1.0           | 32.5                          | 21.1    |
| FS HiSOY       | HS 25F10       | XF                           | 2.5            | 22-Sep                     | *86                 | 1.3           | 79               | 80             | *100               | 3                | 33.5                          | 19.3    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 28E10       | E3                           | 2.8            | 1-Oct                      | *89                 | 1.1           | *89              | 80             | *98                | 5                | 32.8                          | 19.0    | --                  | --            | --                            | --      |
| FS HiSOY       | HS 29F10       | XF                           | 2.9            | 1-Oct                      | 80                  | 1.8           | 87               | 77             | 76                 | 15               | 34.8                          | 18.2    | --                  | --            | --                            | --      |
| Genesis        | G2550E         | E3                           | 2.5            | 1-Oct                      | 83                  | 2.2           | 87               | *91            | 71                 | 60               | 32.3                          | 20.4    | *87                 | 1.2           | 32.9                          | 20.8    |
| Genesis        | G2570ES        | E3                           | 2.5            | 26-Sep                     | *87                 | 1.8           | 86               | *94            | 81                 | 30               | 32.4                          | 19.3    | --                  | --            | --                            | --      |
| Genesis        | G2960E         | E3                           | 2.9            | 1-Oct                      | *93                 | 1.3           | *89              | *88            | *103               | 2                | 32.9                          | 19.0    | 82                  | 1.0           | 33.6                          | 19.3    |
| Golden Harvest | GH2292E3 Brand | E3                           | 2.2            | 26-Sep                     | 84                  | 1.5           | 81               | 77             | *95                | 5                | 32.8                          | 19.1    | *84                 | 1.0           | 33.4                          | 19.8    |
| Golden Harvest | GH2653XF Brand | XF                           | 2.6            | 1-Oct                      | 82                  | 1.4           | 81               | 81             | 82                 | 15               | 33.6                          | 18.9    | --                  | --            | --                            | --      |
| Golden Harvest | GH2722XF Brand | XF                           | 2.7            | 1-Oct                      | 82                  | 1.8           | 82               | 84             | 80                 | 29               | 33.5                          | 19.2    | --                  | --            | --                            | --      |
| Impact         | 28E256N        | E3                           | 2.8            | 1-Oct                      | *86                 | 1.6           | 78               | 84             | *95                | 1                | 32.8                          | 19.0    | 82                  | 1.0           | 33.7                          | 19.4    |

**TABLE 2. CONTINUED.** 2022 Southern Region Glyphosate Tolerant Soybean Trial (3 of 4)

| Brand        | Entry           | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields      |                |                    |                  | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|--------------|-----------------|------------------------------|----------------|----------------------------|---------------------|---------------|------------------|----------------|--------------------|------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|              |                 |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Clinton (bu/A) | Platteville (bu/A) | WM% <sup>3</sup> | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| Jung         | 1244XF          | XF                           | 2.4            | 1-Oct                      | 84                  | 1.6           | 79               | 80             | 92                 | 7                | 33.7                          | 18.9    | 83                  | 1.0           | 35.0                          | 19.2    |
| Jung         | 1254XF          | XF                           | 2.5            | 24-Sep                     | 85                  | 1.3           | 82               | 76             | *98                | 2                | 33.0                          | 19.2    | 79                  | 1.0           | 33.9                          | 19.4    |
| Jung         | 1264XF          | XF                           | 2.6            | 21-Sep                     | 82                  | 1.3           | 76               | 75             | *96                | 3                | 33.4                          | 19.3    | --                  | --            | --                            | --      |
| Legacy Seeds | LS184-21        | XF                           | 1.8            | 20-Sep                     | 80                  | 1.3           | 81               | 79             | 80                 | 23               | 32.7                          | 19.7    | --                  | --            | --                            | --      |
| Legacy Seeds | LS204-22        | XF                           | 2.0            | 24-Sep                     | 85                  | 1.3           | 82               | 83             | 89                 | 3                | 32.8                          | 19.4    | --                  | --            | --                            | --      |
| LG Seeds     | LGS2348E3       | E3                           | 2.3            | 26-Sep                     | 83                  | 1.4           | 78               | 79             | 91                 | 5                | 33.1                          | 19.0    | --                  | --            | --                            | --      |
| LG Seeds     | LGS2577E3       | E3                           | 2.5            | 1-Oct                      | 84                  | 2.1           | 86               | 80             | 87                 | 20               | 31.6                          | 20.4    | --                  | --            | --                            | --      |
| Loyal Brand  | L2130E          | E3                           | 2.1            | 21-Sep                     | *90                 | 1.3           | 85               | *87            | *98                | 2                | 31.8                          | 20.3    | *85                 | 1.0           | 32.9                          | 20.5    |
| Loyal Brand  | L2150E          | E3                           | 2.1            | 20-Sep                     | 83                  | 1.9           | 88               | 74             | 87                 | 11               | 33.8                          | 18.6    | --                  | --            | --                            | --      |
| Loyal Brand  | L2250E          | E3                           | 2.2            | 1-Oct                      | 81                  | 2.1           | 83               | *88            | 73                 | 39               | 33.1                          | 19.0    | --                  | --            | --                            | --      |
| Loyal Brand  | L2550E          | E3                           | 2.5            | 1-Oct                      | 85                  | 1.8           | 85               | *91            | 79                 | 39               | 32.4                          | 19.4    | --                  | --            | --                            | --      |
| NK           | NK13-Y4XF       | XF                           | 1.3            | 18-Sep                     | 85                  | 1.3           | 81               | 81             | 92                 | 2                | 34.4                          | 19.0    | --                  | --            | --                            | --      |
| NK           | NK18-J7E3       | E3                           | 1.8            | 20-Sep                     | *86                 | 1.5           | 83               | 82             | 91                 | 3                | 32.9                          | 19.6    | 83                  | 1.0           | 34.5                          | 19.8    |
| NK           | NK19-D5XF       | XF                           | 1.9            | 20-Sep                     | 85                  | 1.4           | 78               | 85             | 92                 | 5                | 34.3                          | 19.6    | --                  | --            | --                            | --      |
| NK           | NK19-T8E3S      | E3                           | 1.9            | 20-Sep                     | *87                 | 1.7           | *89              | 77             | *96                | 6                | 33.3                          | 19.3    | --                  | --            | --                            | --      |
| NK           | NK20-B6E3       | E3                           | 2.0            | 24-Sep                     | 80                  | 1.4           | 73               | 76             | 91                 | 19               | 31.9                          | 20.0    | --                  | --            | --                            | --      |
| NK           | NK22-R2E3S      | E3                           | 2.2            | 18-Sep                     | 76                  | 1.4           | 77               | 72             | 78                 | 17               | 31.0                          | 20.6    | --                  | --            | --                            | --      |
| NK           | NK23-T9XF       | XF                           | 2.3            | 1-Oct                      | 81                  | 1.8           | 84               | 81             | 79                 | 18               | 32.9                          | 19.7    | --                  | --            | --                            | --      |
| NK           | NK24-A2E3S      | E3                           | 2.4            | 1-Oct                      | *87                 | 1.8           | *94              | *86            | 81                 | 18               | 32.9                          | 19.1    | --                  | --            | --                            | --      |
| NK           | NK29-Z4E3       | E3                           | 2.9            | 1-Oct                      | 78                  | 1.3           | 81               | 73             | 80                 | 25               | 33.1                          | 19.0    | --                  | --            | --                            | --      |
| O'Brien      | O'SOY2153E      | E3                           | 2.1            | 20-Sep                     | 81                  | 1.9           | 74               | 78             | 91                 | 5                | 34.6                          | 18.7    | --                  | --            | --                            | --      |
| O'Brien      | O'SOY2421GT27LL | LLGT27                       | 2.4            | 25-Sep                     | *88                 | 1.4           | 86               | 84             | 94                 | 9                | 31.9                          | 19.5    | 81                  | 1.0           | 32.6                          | 20.1    |
| P3 Genetics  | 2322E           | E3                           | 2.2            | 25-Sep                     | 85                  | 1.7           | 86               | 83             | 87                 | 19               | 33.7                          | 19.1    | --                  | --            | --                            | --      |
| P3 Genetics  | 2223E           | E3                           | 2.3            | 1-Oct                      | 85                  | 1.7           | 83               | 83             | 89                 | 11               | 31.2                          | 20.6    | --                  | --            | --                            | --      |
| P3 Genetics  | 2326E           | E3                           | 2.6            | 1-Oct                      | *87                 | 1.4           | 88               | 85             | 87                 | 17               | 32.2                          | 19.7    | --                  | --            | --                            | --      |
| P3 Genetics  | 2229E           | E3                           | 2.9            | 1-Oct                      | *88                 | 1.4           | 87               | 79             | *98                | 2                | 33.3                          | 18.6    | *88                 | 1.0           | 34.0                          | 19.3    |
| Renk         | RS253NXF        | XF                           | 2.5            | 1-Oct                      | 84                  | 1.7           | 88               | *87            | 79                 | 33               | 32.5                          | 19.1    | --                  | --            | --                            | --      |

**TABLE 2. CONTINUED.** 2022 Southern Region Glyphosate Tolerant Soybean Trial (4 of 4)

| Brand      | Entry    | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields      |                |                    |                  | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|------------|----------|------------------------------|----------------|----------------------------|---------------------|---------------|------------------|----------------|--------------------|------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|            |          |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Clinton (bu/A) | Platteville (bu/A) | WM% <sup>3</sup> | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| Stine      | 19EC12   | E3                           | 1.9            | 23-Sep                     | *89                 | 1.4           | 86               | 82             | *99                | 3                | 31.7                          | 20.1    | *84                 | 1.0           | 32.8                          | 20.3    |
| Stine      | 19EE62   | E3                           | 1.9            | 23-Sep                     | *88                 | 1.4           | *89              | 79             | *96                | 7                | 31.7                          | 20.0    | --                  | --            | --                            | --      |
| Stine      | 25EB32   | E3                           | 2.5            | 26-Sep                     | 84                  | 1.4           | 82               | *88            | 83                 | 28               | 31.2                          | 20.7    | --                  | --            | --                            | --      |
| Stine      | 26EC32   | E3                           | 2.6            | 1-Oct                      | *94                 | 1.4           | *95              | *88            | *99                | 5                | 32.9                          | 18.5    | --                  | --            | --                            | --      |
| Stine      | 28EC32   | E3                           | 2.8            | 1-Oct                      | *90                 | 1.4           | *89              | *86            | *95                | 3                | 33.2                          | 18.8    | *88                 | 1.0           | 33.2                          | 19.6    |
| Tracy      | 2153E    | E3                           | 2.1            | 22-Sep                     | 80                  | 1.8           | 81               | 74             | 86                 | 14               | 34.0                          | 18.6    | --                  | --            | --                            | --      |
| Tracy      | 2752E    | E3                           | 2.7            | 1-Oct                      | 80                  | 1.6           | 80               | 77             | 83                 | 13               | 31.9                          | 19.8    | --                  | --            | --                            | --      |
| Xitavo     | XO 1971E | E3                           | 1.9            | 22-Sep                     | 85                  | 1.3           | 82               | 83             | 90                 | 3                | 32.9                          | 19.3    | --                  | --            | --                            | --      |
| Xitavo     | XO 2181E | E3                           | 2.1            | 1-Oct                      | *91                 | 1.5           | 87               | *87            | *98                | 3                | 31.8                          | 20.1    | 82                  | 1.0           | 32.5                          | 20.6    |
| Xitavo     | XO 2282E | E3                           | 2.2            | 1-Oct                      | *88                 | 1.3           | *90              | 82             | 92                 | 5                | 32.5                          | 19.5    | 81                  | 1.0           | 33.6                          | 19.8    |
| Xitavo     | XO 2323E | E3                           | 2.3            | 1-Oct                      | 79                  | 2.2           | 78               | 84             | 75                 | 34               | 33.1                          | 19.2    | --                  | --            | --                            | --      |
| Xitavo     | XO 2472E | E3                           | 2.4            | 1-Oct                      | 83                  | 1.7           | 82               | 84             | 83                 | 28               | 32.0                          | 20.4    | --                  | --            | --                            | --      |
| Xitavo     | XO 2501E | E3                           | 2.5            | 1-Oct                      | 85                  | 2.1           | 85               | *89            | 80                 | 45               | 31.8                          | 20.5    | 83                  | 1.0           | 32.6                          | 21.1    |
| Xitavo     | XO 2613E | E3                           | 2.6            | 1-Oct                      | *86                 | 1.5           | 88               | 85             | 86                 | 12               | 33.1                          | 19.2    | --                  | --            | --                            | --      |
| Xitavo     | XO 2832E | E3                           | 2.8            | 1-Oct                      | *93                 | 1.5           | *93              | *88            | *98                | 1                | 33.3                          | 18.7    | *87                 | 1.0           | 33.9                          | 19.4    |
| Xitavo     | XO 2963E | E3                           | 2.9            | 1-Oct                      | 85                  | 2.0           | *92              | 78             | 84                 | 18               | 32.1                          | 19.5    | --                  | --            | --                            | --      |
| Mean       |          |                              |                | 27-Sep                     | 84                  | 1.6           | 84               | 82             | 87                 | 16               | 32.8                          | 19.4    | 82                  | 1.0           | 33.7                          | 19.8    |
| LSD (0.10) |          |                              |                | --                         | 8                   | NS            | 6                | 8              | 9                  | 13               | 0.5                           | 0.4     | 5                   | 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> Herbicide Trait : XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

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

<sup>3</sup> WM% = White mold expressed as percent diseased plants.

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

# TABLE 3. 2022 Central Region Glyphosate Tolerant Soybean Trial (1 of 5)

| Brand     | Entry       | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields        |                   |                | 2022 Composition <sup>2</sup> |         | 2021 Yields <sup>3</sup> |                | 2021 Composition <sup>2</sup> |         |
|-----------|-------------|------------------------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|--------------------------|----------------|-------------------------------|---------|
|           |             |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Fond du Lac (bu/A) | Galesville (bu/A) | Hancock (bu/A) | Protein (%)                   | Oil (%) | Galesville (bu/A)        | Hancock (bu/A) | Protein (%)                   | Oil (%) |
| AgriGold  | G1449E3     | E3                           | 1.4            | 21-Sep                     | 73                  | 1.0           | 75                 | 81                | *65            | 30.1                          | 21.4    | --                       | --             | --                            | --      |
| AgriGold  | G1490XF     | XF                           | 1.4            | 21-Sep                     | *77                 | 1.0           | 76                 | *87               | *66            | 33.2                          | 19.9    | 71                       | *73            | 33.8                          | 19.7    |
| AgriGold  | G1601E3     | E3                           | 1.6            | 21-Sep                     | *75                 | 1.0           | 78                 | 81                | *67            | 31.5                          | 20.8    | --                       | --             | --                            | --      |
| AgriGold  | G1857E3     | E3                           | 1.8            | 21-Sep                     | 73                  | 1.0           | 77                 | *87               | 54             | 32.6                          | 20.6    | 72                       | 62             | 34.4                          | 20.4    |
| AgriGold  | G1902XF     | XF                           | 1.9            | 21-Sep                     | *74                 | 1.0           | *81                | 79                | 62             | 29.8                          | 20.9    | --                       | --             | --                            | --      |
| AgriGold  | G2081E3     | E3                           | 2.0            | 21-Sep                     | 71                  | 1.0           | 75                 | *85               | 53             | 32.5                          | 20.3    | 64                       | *70            | 33.5                          | 20.1    |
| AgriGold  | G2095XF     | XF                           | 2.0            | 26-Sep                     | 72                  | 1.0           | 77                 | 80                | 59             | 31.7                          | 20.7    | 72                       | 60             | 33.3                          | 20.4    |
| Apex      | AE1930      | E3                           | 1.9            | 26-Sep                     | 73                  | 1.0           | 77                 | 83                | 59             | 29.7                          | 21.1    | --                       | --             | --                            | --      |
| Apex      | AE2220      | E3                           | 2.2            | 30-Sep                     | *74                 | 1.1           | 79                 | *84               | 58             | 31.4                          | 20.9    | 70                       | 65             | 32.6                          | 20.6    |
| Asgrow    | AG13XF3     | XF                           | 1.3            | 16-Sep                     | 70                  | 1.0           | 75                 | 71                | *63            | 31.9                          | 20.0    | --                       | --             | --                            | --      |
| Asgrow    | AG15XF2     | XF                           | 1.5            | 21-Sep                     | *74                 | 1.0           | 79                 | 81                | *63            | 30.2                          | 20.6    | 71                       | *72            | 31.2                          | 20.8    |
| Asgrow    | AG18XF1     | XF                           | 1.8            | 21-Sep                     | *76                 | 1.0           | *82                | *84               | *64            | 30.7                          | 20.9    | 72                       | *79            | 32.5                          | 20.7    |
| Asgrow    | AG19XF3     | XF                           | 1.9            | 30-Sep                     | 73                  | 1.0           | *81                | 80                | 58             | 30.2                          | 21.6    | --                       | --             | --                            | --      |
| Asgrow    | AG20XF1     | XF                           | 2.0            | 26-Sep                     | 69                  | 1.0           | 75                 | 75                | 57             | 31.5                          | 20.5    | 66                       | *68            | 33.3                          | 19.9    |
| Asgrow    | AG21XF2     | XF                           | 2.1            | 21-Sep                     | *75                 | 1.0           | *81                | 81                | *64            | 31.4                          | 20.8    | --                       | --             | --                            | --      |
| BioGene   | BG9180E3    | E3                           | 1.8            | 21-Sep                     | 73                  | 1.0           | *81                | 80                | 57             | 31.9                          | 20.7    | 68                       | 63             | 34.2                          | 20.2    |
| Credenz   | CZ 1660GTLL | LLGT27                       | 1.6            | 21-Sep                     | *75                 | 1.0           | *84                | 83                | 57             | 31.9                          | 20.8    | --                       | --             | --                            | --      |
| Dairyland | DSR-1505E   | E3                           | 1.5            | 26-Sep                     | *74                 | 1.0           | *86                | 82                | 55             | 33.8                          | 19.5    | --                       | --             | --                            | --      |
| Dairyland | DSR-1820E   | E3                           | 1.8            | 21-Sep                     | 71                  | 1.0           | 73                 | 82                | 57             | 32.9                          | 20.1    | 70                       | 54             | 34.6                          | 20.1    |
| Dairyland | DSR-1919E   | E3                           | 1.9            | 21-Sep                     | 72                  | 1.0           | 74                 | 83                | 59             | 30.0                          | 21.5    | --                       | --             | --                            | --      |
| Dairyland | DSR-2030E   | E3                           | 2.0            | 30-Sep                     | 69                  | 1.0           | 73                 | 75                | 61             | 31.9                          | 20.6    | 64                       | *68            | 33.2                          | 20.0    |
| Dairyland | DSR-2188E   | E3                           | 2.1            | 26-Sep                     | *75                 | 1.0           | 78                 | *84               | *64            | 31.0                          | 21.1    | --                       | --             | --                            | --      |
| Dyna-Gro  | S18EN52     | E3                           | 1.8            | 21-Sep                     | 70                  | 1.0           | 76                 | 82                | 50             | 31.9                          | 20.9    | 73                       | *80            | 33.4                          | 20.6    |

**TABLE 3. CONTINUED.** 2022 Central Region Glyphosate Tolerant Soybean Trial (2 of 5)

| Brand          | Entry          | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields        |                   |                | 2022 Composition <sup>2</sup> |         | 2021 Yields <sup>3</sup> |                | 2021 Composition <sup>2</sup> |         |
|----------------|----------------|------------------------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|--------------------------|----------------|-------------------------------|---------|
|                |                |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Fond du Lac (bu/A) | Galesville (bu/A) | Hancock (bu/A) | Protein (%)                   | Oil (%) | Galesville (bu/A)        | Hancock (bu/A) | Protein (%)                   | Oil (%) |
| Dyna-Gro       | S19XF62        | XF                           | 1.9            | 21-Sep                     | *75                 | 1.0           | *86                | 80                | 59             | 31.0                          | 21.2    | --                       | --             | --                            | --      |
| Dyna-Gro       | S20EN92        | E3                           | 2.0            | 21-Sep                     | *80                 | 1.0           | *81                | *89               | *69            | 32.4                          | 20.6    | --                       | --             | --                            | --      |
| Dyna-Gro       | S21EN81        | E3                           | 2.1            | 21-Sep                     | *78                 | 1.0           | *81                | *91               | 61             | 29.0                          | 21.6    | *80                      | *69            | 32.3                          | 20.8    |
| Dyna-Gro       | S23ES32        | E3                           | 2.3            | 30-Sep                     | *75                 | 1.4           | 75                 | *85               | *64            | 30.7                          | 21.3    | 72                       | *77            | 32.6                          | 21.0    |
| FS HiSOY       | HS 16F10       | XF                           | 1.6            | 21-Sep                     | 70                  | 1.0           | 76                 | 76                | 58             | 32.2                          | 20.0    | --                       | --             | --                            | --      |
| FS HiSOY       | HS 18E00       | E3                           | 1.8            | 21-Sep                     | *74                 | 1.0           | *81                | *85               | 56             | 32.0                          | 20.2    | --                       | --             | --                            | --      |
| FS HiSOY       | HS 18F20       | XF                           | 1.8            | 21-Sep                     | *75                 | 1.0           | 79                 | *85               | 62             | 31.1                          | 20.7    | --                       | --             | --                            | --      |
| FS HiSOY       | HS 21F20       | XF                           | 2.1            | 26-Sep                     | *79                 | 1.0           | *87                | *85               | *64            | 31.5                          | 20.6    | --                       | --             | --                            | --      |
| FS HiSOY       | HS 23E10       | E3                           | 2.3            | 30-Sep                     | *76                 | 1.2           | *83                | 83                | 61             | 28.9                          | 22.1    | --                       | --             | --                            | --      |
| FS HiSOY       | HS 24F00       | XF                           | 2.4            | 30-Sep                     | *80                 | 1.0           | *83                | *89               | *67            | 32.1                          | 20.0    | 70                       | 61             | 34.2                          | 19.5    |
| Genesis        | G1760E         | E3                           | 1.7            | 21-Sep                     | 70                  | 1.1           | 75                 | 77                | 57             | 30.4                          | 21.2    | --                       | --             | --                            | --      |
| Genesis        | G1950E         | E3                           | 1.9            | 21-Sep                     | *74                 | 1.0           | *81                | 83                | 57             | 32.0                          | 20.2    | 70                       | *71            | 34.1                          | 19.4    |
| Genesis        | G1970E         | E3                           | 1.9            | 26-Sep                     | 70                  | 1.0           | 78                 | 74                | 59             | 30.2                          | 21.0    | --                       | --             | --                            | --      |
| Genesis        | G2150E         | E3                           | 2.1            | 21-Sep                     | 68                  | 1.0           | 70                 | 80                | 53             | 30.1                          | 21.2    | 74                       | *79            | 32.6                          | 20.5    |
| Genesis        | G2270E         | E3                           | 2.2            | 30-Sep                     | *74                 | 1.2           | 77                 | *85               | 62             | 31.2                          | 20.6    | --                       | --             | --                            | --      |
| Genesis        | G2550E         | E3                           | 2.5            | 30-Sep                     | *79                 | 1.5           | 78                 | *92               | *68            | 29.8                          | 22.0    | --                       | --             | --                            | --      |
| Genesis        | G2570ES        | E3                           | 2.5            | 26-Sep                     | *79                 | 1.3           | *82                | *84               | *71            | 30.7                          | 20.7    | --                       | --             | --                            | --      |
| Golden Harvest | GH2083E3 Brand | E3                           | 2.0            | 21-Sep                     | 72                  | 1.0           | 76                 | *84               | 55             | 31.1                          | 21.1    | --                       | --             | --                            | --      |
| Golden Harvest | GH2102XF Brand | XF                           | 2.1            | 26-Sep                     | *76                 | 1.2           | 78                 | *85               | *65            | 31.0                          | 20.9    | 64                       | *70            | 32.5                          | 21.1    |
| Golden Harvest | GH2292E3 Brand | E3                           | 2.2            | 26-Sep                     | *75                 | 1.0           | 77                 | *84               | *64            | 33.2                          | 19.9    | 68                       | *70            | 34.4                          | 19.8    |
| Impact         | 20E343N        | E3                           | 2.0            | 26-Sep                     | 72                  | 1.0           | 76                 | 80                | 59             | 29.4                          | 21.3    | --                       | --             | --                            | --      |
| Impact         | 21E162N        | E3                           | 2.1            | 21-Sep                     | *77                 | 1.0           | *81                | *85               | *67            | 30.3                          | 21.1    | --                       | --             | --                            | --      |

# TABLE 3. CONTINUED. 2022 Central Region Glyphosate Tolerant Soybean Trial (3 of 5)

| Brand        | Entry     | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields        |                   |                | 2022 Composition <sup>2</sup> |         | 2021 Yields <sup>3</sup> |                | 2021 Composition <sup>2</sup> |         |
|--------------|-----------|------------------------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|--------------------------|----------------|-------------------------------|---------|
|              |           |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Fond du Lac (bu/A) | Galesville (bu/A) | Hancock (bu/A) | Protein (%)                   | Oil (%) | Galesville (bu/A)        | Hancock (bu/A) | Protein (%)                   | Oil (%) |
| Jung         | 1204XF    | XF                           | 2.0            | 21-Sep                     | 68                  | 1.0           | 75                 | 70                | 58             | 32.4                          | 21.1    | --                       | --             | --                            | --      |
| Jung         | 1227XF    | XF                           | 2.2            | 30-Sep                     | 68                  | 1.0           | 66                 | *84               | 54             | 30.5                          | 21.0    | 69                       | 55             | 31.9                          | 20.9    |
| Jung         | 1233XF    | XF                           | 2.3            | 26-Sep                     | *79                 | 1.0           | *86                | *88               | 62             | 31.5                          | 20.3    | --                       | --             | --                            | --      |
| Legacy Seeds | LS154-22  | XF                           | 1.5            | 21-Sep                     | *75                 | 1.0           | *80                | 81                | *64            | 30.2                          | 21.0    | --                       | --             | --                            | --      |
| Legacy Seeds | LS174-20  | XF                           | 1.7            | 21-Sep                     | *74                 | 1.0           | *83                | 76                | *64            | 30.9                          | 20.5    | 70                       | *70            | 32.7                          | 20.3    |
| Legacy Seeds | LS184-21  | XF                           | 1.8            | 21-Sep                     | 72                  | 1.0           | 77                 | 77                | *63            | 30.4                          | 21.2    | 75                       | 67             | 31.9                          | 21.2    |
| Legacy Seeds | LS204-22  | XF                           | 2.0            | 21-Sep                     | 71                  | 1.0           | 74                 | 75                | *63            | 31.3                          | 20.7    | --                       | --             | --                            | --      |
| LG Seeds     | LGS1911XF | XF                           | 1.9            | 21-Sep                     | *75                 | 1.0           | 77                 | 78                | *70            | 33.2                          | 20.2    | --                       | --             | --                            | --      |
| LG Seeds     | LGS1939E3 | E3                           | 1.9            | 26-Sep                     | *77                 | 1.0           | *81                | *84               | *68            | 30.9                          | 20.7    | --                       | --             | --                            | --      |
| LG Seeds     | LGS2025XF | XF                           | 2.0            | 21-Sep                     | 73                  | 1.0           | 76                 | 79                | *63            | 32.5                          | 20.4    | 71                       | 67             | 33.4                          | 20.2    |
| Loyal Brand  | L1540E    | E3                           | 1.5            | 16-Sep                     | *76                 | 1.0           | *81                | *85               | 62             | 31.1                          | 20.8    | 68                       | *77            | 32.9                          | 20.5    |
| Loyal Brand  | L1730E    | E3                           | 1.7            | 21-Sep                     | 71                  | 1.0           | 73                 | *84               | 57             | 33.4                          | 19.9    | --                       | --             | --                            | --      |
| Loyal Brand  | L1740E    | E3                           | 1.7            | 21-Sep                     | *75                 | 1.0           | *82                | 78                | *65            | 31.4                          | 20.8    | 62                       | *73            | 32.2                          | 20.8    |
| Loyal Brand  | L1950E    | E3                           | 1.9            | 30-Sep                     | 68                  | 1.0           | 72                 | 77                | 56             | 29.6                          | 21.2    | --                       | --             | --                            | --      |
| Loyal Brand  | L2130E    | E3                           | 2.1            | 21-Sep                     | *75                 | 1.0           | *80                | *86               | 59             | 30.1                          | 21.2    | *83                      | 61             | 31.9                          | 21.0    |
| Loyal Brand  | L2150E    | E3                           | 2.1            | 21-Sep                     | *75                 | 1.1           | *80                | 77                | *68            | 32.9                          | 19.9    | --                       | --             | --                            | --      |
| Loyal Brand  | L2250E    | E3                           | 2.2            | 30-Sep                     | *77                 | 1.2           | *82                | *90               | 57             | 31.4                          | 20.9    | --                       | --             | --                            | --      |
| NK           | NK06-D9E3 | E3                           | 0.6            | 13-Sep                     | 64                  | 1.0           | 65                 | 71                | 55             | 30.9                          | 20.8    | --                       | --             | --                            | --      |
| NK           | NK09-B5XF | XF                           | 0.9            | 16-Sep                     | 65                  | 1.0           | 74                 | 66                | 55             | 32.5                          | 19.8    | --                       | --             | --                            | --      |
| NK           | NK09-H7E3 | E3                           | 0.9            | 13-Sep                     | 71                  | 1.0           | 76                 | 78                | 59             | 32.3                          | 20.1    | --                       | --             | --                            | --      |
| NK           | NK13-Y4XF | XF                           | 1.3            | 21-Sep                     | *75                 | 1.0           | 76                 | *85               | *66            | 33.3                          | 19.8    | --                       | --             | --                            | --      |
| NK           | NK14-W6E3 | E3                           | 1.4            | 16-Sep                     | 72                  | 1.0           | 77                 | 77                | *63            | 32.1                          | 20.4    | 66                       | *75            | 34.0                          | 20.0    |

**TABLE 3. CONTINUED.** 2022 Central Region Glyphosate Tolerant Soybean Trial (4 of 5)

| Brand   | Entry           | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields        |                   |                | 2022 Composition <sup>2</sup> |         | 2021 Yields <sup>3</sup> |                | 2021 Composition <sup>2</sup> |         |
|---------|-----------------|------------------------------|----------------|----------------------------|---------------------|---------------|--------------------|-------------------|----------------|-------------------------------|---------|--------------------------|----------------|-------------------------------|---------|
|         |                 |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Fond du Lac (bu/A) | Galesville (bu/A) | Hancock (bu/A) | Protein (%)                   | Oil (%) | Galesville (bu/A)        | Hancock (bu/A) | Protein (%)                   | Oil (%) |
| NK      | NK18-J7E3       | E3                           | 1.8            | 21-Sep                     | 73                  | 1.0           | 75                 | *84               | 60             | 31.8                          | 20.8    | 67                       | 59             | 33.9                          | 20.6    |
| NK      | NK19-D5XF       | XF                           | 1.9            | 21-Sep                     | 73                  | 1.0           | 77                 | 82                | 62             | 32.9                          | 20.4    | --                       | --             | --                            | --      |
| NK      | NK19-T8E3S      | E3                           | 1.9            | 21-Sep                     | 71                  | 1.0           | 78                 | 77                | 59             | 31.7                          | 20.5    | --                       | --             | --                            | --      |
| NK      | NK20-B6E3       | E3                           | 2.0            | 21-Sep                     | 71                  | 1.0           | 71                 | 82                | 59             | 31.2                          | 20.7    | --                       | --             | --                            | --      |
| NK      | NK22-R2E3S      | E3                           | 2.2            | 21-Sep                     | 71                  | 1.0           | 69                 | 81                | *63            | 30.5                          | 21.2    | --                       | --             | --                            | --      |
| NK      | NK23-T9XF       | XF                           | 2.3            | 30-Sep                     | 70                  | 1.2           | 68                 | 79                | *63            | 31.6                          | 20.7    | --                       | --             | --                            | --      |
| NK      | NK24-A2E3S      | E3                           | 2.4            | 30-Sep                     | *79                 | 1.2           | *87                | *87               | *63            | 30.5                          | 20.7    | --                       | --             | --                            | --      |
| O'Brien | O'SOY1620GT27LL | LLGT27                       | 1.6            | 21-Sep                     | 70                  | 1.0           | *80                | 78                | 53             | 30.8                          | 21.2    | 76                       | 60             | 32.4                          | 20.9    |
| O'Brien | O'SOY2153E      | E3                           | 2.1            | 21-Sep                     | 69                  | 1.1           | *84                | 64                | 57             | 32.5                          | 20.2    | --                       | --             | --                            | --      |
| Renk    | RS183NXF        | XF                           | 1.8            | 21-Sep                     | 69                  | 1.0           | 70                 | 77                | 60             | 30.7                          | 20.9    | --                       | --             | --                            | --      |
| Renk    | RS233NXF        | XF                           | 2.3            | 21-Sep                     | *78                 | 1.0           | *83                | *85               | *65            | 32.1                          | 20.4    | --                       | --             | --                            | --      |
| Stine   | 16EC32          | E3                           | 1.6            | 21-Sep                     | 65                  | 1.0           | 70                 | 77                | 47             | 32.5                          | 20.4    | 73                       | 61             | 34.1                          | 20.0    |
| Stine   | 19EC12          | E3                           | 1.9            | 21-Sep                     | *75                 | 1.0           | 75                 | *91               | 57             | 30.0                          | 21.1    | 72                       | 67             | 32.7                          | 20.7    |
| Stine   | 19EC23          | E3                           | 1.9            | 21-Sep                     | 73                  | 1.0           | 72                 | *90               | 55             | 30.4                          | 21.0    | --                       | --             | --                            | --      |
| Stine   | 19EE62          | E3                           | 1.9            | 21-Sep                     | *79                 | 1.1           | *80                | *88               | *70            | 30.2                          | 20.9    | --                       | --             | --                            | --      |
| Tracy   | 1553E           | E3                           | 1.5            | 21-Sep                     | *75                 | 1.0           | 79                 | *84               | 62             | 31.3                          | 20.8    | --                       | --             | --                            | --      |
| Tracy   | 1752E           | E3                           | 1.7            | 21-Sep                     | *76                 | 1.3           | 78                 | 80                | *68            | 30.6                          | 21.0    | --                       | --             | --                            | --      |
| Tracy   | 1953E           | E3                           | 1.9            | 26-Sep                     | 70                  | 1.0           | 70                 | 76                | *64            | 29.8                          | 20.9    | --                       | --             | --                            | --      |
| Xitavo  | XO 1212E        | E3                           | 1.2            | 21-Sep                     | 73                  | 1.0           | *85                | 79                | 54             | 32.6                          | 20.6    | 59                       | 58             | 35.0                          | 20.0    |
| Xitavo  | XO 1372E        | E3                           | 1.3            | 21-Sep                     | 68                  | 1.0           | 77                 | 74                | 54             | 29.3                          | 21.9    | 66                       | *76            | 32.0                          | 21.1    |
| Xitavo  | XO 1451E        | E3                           | 1.4            | 21-Sep                     | *75                 | 1.0           | *80                | 79                | *69            | 31.3                          | 21.1    | --                       | --             | --                            | --      |
| Xitavo  | XO 1761E        | E3                           | 1.7            | 21-Sep                     | 73                  | 1.0           | 76                 | *84               | 58             | 32.8                          | 20.3    | 75                       | 55             | 35.0                          | 19.7    |

# TABLE 3. CONTINUED. 2022 Central Region Glyphosate Tolerant Soybean Trial (5 of 5)

| Brand  | Entry    |                              |                |                            | 2022<br>3-Test Average |               | 2022 Yields        |                   |                | 2022<br>Composition <sup>2</sup> |         | 2021 Yields <sup>3</sup> |                | 2021<br>Composition <sup>2</sup> |         |
|--------|----------|------------------------------|----------------|----------------------------|------------------------|---------------|--------------------|-------------------|----------------|----------------------------------|---------|--------------------------|----------------|----------------------------------|---------|
|        |          | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | Yield (bu/A)           | Lodging (1-5) | Fond du Lac (bu/A) | Galesville (bu/A) | Hancock (bu/A) | Protein (%)                      | Oil (%) | Galesville (bu/A)        | Hancock (bu/A) | Protein (%)                      | Oil (%) |
| Xitavo | XO 1822E | E3                           | 1.8            | 21-Sep                     | 72                     | 1.0           | 69                 | 82                | *64            | 30.9                             | 21.0    | 63                       | *74            | 31.9                             | 20.8    |
| Xitavo | XO 1971E | E3                           | 1.9            | 21-Sep                     | *74                    | 1.0           | 75                 | 83                | *65            | 32.5                             | 19.8    | --                       | --             | --                               | --      |
| Xitavo | XO 2181E | E3                           | 2.1            | 21-Sep                     | 71                     | 1.0           | 76                 | 80                | 58             | 29.9                             | 21.2    | 77                       | 67             | 32.3                             | 20.7    |
| Xitavo | XO 2282E | E3                           | 2.2            | 30-Sep                     | *76                    | 1.1           | *81                | *85               | *63            | 31.4                             | 20.8    | 73                       | *76            | 33.5                             | 20.1    |
| Xitavo | XO 2323E | E3                           | 2.3            | 30-Sep                     | 73                     | 1.2           | 78                 | 79                | *63            | 31.2                             | 20.8    | --                       | --             | --                               | --      |
| Xitavo | XO 2472E | E3                           | 2.4            | 30-Sep                     | *78                    | 1.1           | *83                | *86               | *66            | 30.3                             | 21.6    | --                       | --             | --                               | --      |
|        |          | Mean                         |                | 22-Sep                     | 73                     | 1.0           | 78                 | 81                | 61             | 31.3                             | 20.8    | 69                       | 67             | 34.0                             | 19.6    |
|        |          | LSD (0.10)                   |                | --                         | 6                      | NS            | 7                  | 8                 | 8              | 0.9                              | 0.4     | 7                        | 12             | 0.7                              | 0.3     |

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

<sup>1</sup>Herbicide Trait : XF = dicamba/glyphosate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

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

<sup>3</sup> The 2021 Fond du Lac site was lost to a May 29<sup>th</sup> killing frost. The 2021 multi-test yield column is not presented because yields at the Hancock site were highly variable due to undetermined field variation.

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

# TABLE 4. 2022 North Central Region Glyphosate Tolerant Soybean Trial (1 of 3)

| Brand     | Entry       | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields       |                  |                | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|-----------|-------------|------------------------------|----------------|----------------------------|---------------------|---------------|-------------------|------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|           |             |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Marshfield (bu/A) | Menomonie (bu/A) | Seymour (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| AgriGold  | G1449E3     | E3                           | 1.4            | 27-Sep                     | *66                 | 1.0           | 63                | 50               | *83            | 31.3                          | 20.1    | --                  | --            | --                            | --      |
| AgriGold  | G1490XF     | XF                           | 1.4            | 23-Sep                     | *67                 | 1.0           | *66               | 53               | 81             | 33.1                          | 19.3    | --                  | --            | --                            | --      |
| AgriGold  | G1601E3     | E3                           | 1.6            | 27-Sep                     | *70                 | 1.0           | *68               | *58              | *85            | 32.9                          | 19.7    | --                  | --            | --                            | --      |
| Apex      | AE1220      | E3                           | 1.2            | 23-Sep                     | *67                 | 1.0           | *65               | 54               | 81             | 34.3                          | 19.2    | --                  | --            | --                            | --      |
| Apex      | AE1410      | E3                           | 1.4            | 23-Sep                     | *68                 | 1.0           | 62                | *62              | 78             | 32.2                          | 20.2    | 77                  | 1.8           | 35.3                          | 18.8    |
| Apex      | AE1710      | E3                           | 1.7            | 27-Sep                     | *68                 | 1.0           | 62                | *62              | 80             | 32.6                          | 19.5    | 75                  | 1.6           | 35.8                          | 17.7    |
| Apex      | AE1930      | E3                           | 1.9            | 27-Sep                     | 65                  | 1.0           | *66               | 46               | *82            | 31.6                          | 19.9    | --                  | --            | --                            | --      |
| Asgrow    | AG11XF2     | XF                           | 1.1            | 16-Sep                     | 57                  | 1.0           | 48                | 48               | 75             | 33.2                          | 19.5    | --                  | --            | --                            | --      |
| Asgrow    | AG13XF3     | XF                           | 1.3            | 19-Sep                     | 64                  | 1.0           | 56                | *60              | 77             | 32.9                          | 19.0    | --                  | --            | --                            | --      |
| Asgrow    | AG15XF2     | XF                           | 1.5            | 27-Sep                     | *68                 | 1.0           | *68               | 51               | *86            | 32.1                          | 19.4    | 77                  | 2.2           | 33.7                          | 18.6    |
| Asgrow    | AG18XF1     | XF                           | 1.8            | 27-Sep                     | *67                 | 1.0           | *66               | *56              | 78             | 31.8                          | 19.9    | --                  | --            | --                            | --      |
| BioGene   | BG9150E3    | E3                           | 1.5            | 23-Sep                     | 65                  | 1.0           | 60                | 51               | *83            | 31.8                          | 20.0    | 71                  | 1.8           | 35.5                          | 18.3    |
| Credenz   | CZ 1660GTLL | LLGT27                       | 1.6            | 23-Sep                     | *67                 | 1.0           | 64                | 50               | *87            | 32.6                          | 20.0    | --                  | --            | --                            | --      |
| Dairyland | DSR-0757E   | E3                           | 0.7            | 19-Sep                     | 53                  | 1.0           | 51                | 42               | 66             | 31.2                          | 20.2    | --                  | --            | --                            | --      |
| Dairyland | DSR-0847E   | E3                           | 0.8            | 23-Sep                     | 56                  | 1.0           | 57                | 40               | 72             | 33.1                          | 19.7    | 74                  | 1.9           | 34.9                          | 18.7    |
| Dairyland | DSR-0920E   | E3                           | 0.9            | 23-Sep                     | 63                  | 1.0           | 58                | 46               | *84            | 33.9                          | 18.9    | 68                  | 1.9           | 36.9                          | 17.5    |
| Dairyland | DSR-1121E   | E3                           | 1.1            | 23-Sep                     | 53                  | 1.0           | 52                | 36               | 69             | 31.8                          | 20.7    | --                  | --            | --                            | --      |
| Dairyland | DSR-1290E   | E3                           | 1.2            | 19-Sep                     | 63                  | 1.0           | 58                | 49               | 81             | 31.0                          | 20.6    | 76                  | 2.5           | 34.1                          | 19.1    |
| Dairyland | DSR-1450E   | E3                           | 1.4            | 23-Sep                     | 65                  | 1.0           | 62                | 54               | 79             | 31.9                          | 20.4    | *81                 | 2.1           | 34.0                          | 19.1    |
| Dairyland | DSR-1505E   | E3                           | 1.5            | 19-Sep                     | *68                 | 1.0           | 63                | *59              | *83            | 34.2                          | 18.8    | --                  | --            | --                            | --      |
| Dairyland | DSR-1820E   | E3                           | 1.8            | 27-Sep                     | *67                 | 1.0           | *66               | *55              | 79             | 32.9                          | 19.6    | --                  | --            | --                            | --      |
| Dairyland | DSR-2030E   | E3                           | 2.0            | 27-Sep                     | 63                  | 1.0           | 63                | 45               | 81             | 32.0                          | 19.7    | --                  | --            | --                            | --      |
| Dyna-Gro  | S14XF43     | XF                           | 1.4            | 23-Sep                     | *66                 | 1.0           | 62                | *55              | *82            | 32.9                          | 19.0    | --                  | --            | --                            | --      |
| Dyna-Gro  | S16EN42     | E3                           | 1.6            | 27-Sep                     | *70                 | 1.0           | 64                | *59              | *85            | 32.3                          | 19.7    | --                  | --            | --                            | --      |
| Dyna-Gro  | S17XF02     | XF                           | 1.7            | 23-Sep                     | 62                  | 1.0           | 58                | 49               | 80             | 32.8                          | 19.4    | *79                 | 1.5           | 35.9                          | 17.7    |
| Genesis   | G1260E      | E3                           | 1.2            | 23-Sep                     | *67                 | 1.0           | 63                | *58              | 79             | 34.5                          | 19.1    | --                  | --            | --                            | --      |
| Genesis   | G1560E      | E3                           | 1.5            | 23-Sep                     | *69                 | 1.0           | *65               | *55              | *87            | 32.7                          | 19.7    | 72                  | 1.9           | 35.0                          | 18.6    |

**TABLE 4. CONTINUED.** 2022 North Central Region Glyphosate Tolerant Soybean Trial (2 of 3)

| Brand          | Entry          | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields       |                  |                | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|----------------|----------------|------------------------------|----------------|----------------------------|---------------------|---------------|-------------------|------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|                |                |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Marshfield (bu/A) | Menomonie (bu/A) | Seymour (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| Genesis        | G1760E         | E3                           | 1.7            | 27-Sep                     | 65                  | 1.0           | *68               | 47               | 81             | 32.1                          | 20.0    | 69                  | 2.1           | 34.6                          | 18.7    |
| Golden Harvest | GH1323XF Brand | XF                           | 1.3            | 23-Sep                     | 61                  | 1.0           | 57                | 50               | 77             | 33.8                          | 19.0    | --                  | --            | --                            | --      |
| Golden Harvest | GH1472E3 Brand | E3                           | 1.4            | 23-Sep                     | 65                  | 1.0           | 63                | 49               | *82            | 33.4                          | 19.6    | --                  | --            | --                            | --      |
| Golden Harvest | GH1762XF Brand | XF                           | 1.7            | 23-Sep                     | 65                  | 1.0           | *66               | 53               | 78             | 33.1                          | 19.4    | --                  | --            | --                            | --      |
| Golden Harvest | GH1802E3 Brand | E3                           | 1.8            | 23-Sep                     | *66                 | 1.0           | 61                | 54               | *85            | 32.8                          | 19.8    | *83                 | 1.7           | 36.5                          | 18.2    |
| Impact         | 12E157N        | E3                           | 1.2            | 19-Sep                     | 60                  | 1.0           | 54                | 54               | 73             | 30.7                          | 20.8    | --                  | --            | --                            | --      |
| Impact         | 17E335N        | E3                           | 1.7            | 27-Sep                     | *67                 | 1.0           | 63                | *57              | 81             | 32.5                          | 19.6    | --                  | --            | --                            | --      |
| Jung           | 1113XF         | XF                           | 1.1            | 23-Sep                     | 57                  | 1.0           | 55                | 46               | 70             | 33.0                          | 19.5    | --                  | --            | --                            | --      |
| Jung           | 1161R2X        | RR2X                         | 1.6            | 27-Sep                     | 64                  | 1.0           | *68               | 49               | 76             | 32.3                          | 20.0    | 69                  | 1.4           | 35.7                          | 18.3    |
| Jung           | 1184XF         | XF                           | 1.8            | 27-Sep                     | 65                  | 1.0           | 62                | 52               | *82            | 31.8                          | 19.5    | --                  | --            | --                            | --      |
| Legacy Seeds   | LS134-22       | XF                           | 1.3            | 23-Sep                     | 60                  | 1.0           | 61                | 41               | 76             | 33.0                          | 19.6    | --                  | --            | --                            | --      |
| Legacy Seeds   | LS154-22       | XF                           | 1.5            | 23-Sep                     | 64                  | 1.0           | 60                | 54               | 77             | 31.5                          | 20.0    | --                  | --            | --                            | --      |
| Legacy Seeds   | LS174-20       | XF                           | 1.7            | 27-Sep                     | *67                 | 1.0           | *68               | 52               | 80             | 32.3                          | 19.5    | 77                  | 1.8           | 34.9                          | 18.3    |
| Legacy Seeds   | LS184-21       | XF                           | 1.8            | 27-Sep                     | 65                  | 1.0           | 64                | 45               | *85            | 31.8                          | 20.0    | *80                 | 2.0           | 34.5                          | 18.3    |
| LG Seeds       | LGS1585XF      | XF                           | 1.5            | 23-Sep                     | *66                 | 1.0           | *65               | 53               | 80             | 33.2                          | 19.1    | --                  | --            | --                            | --      |
| LG Seeds       | LGS1660E3      | E3                           | 1.6            | 27-Sep                     | *70                 | 1.0           | *69               | *57              | *85            | 32.7                          | 19.8    | --                  | --            | --                            | --      |
| LG Seeds       | LGS1701E3      | E3                           | 1.7            | 27-Sep                     | 64                  | 1.0           | 63                | 52               | 76             | 31.8                          | 20.2    | --                  | --            | --                            | --      |
| Loyal Brand    | L1050E         | E3                           | 1.0            | 23-Sep                     | 63                  | 1.0           | *68               | 49               | 72             | 32.5                          | 19.1    | --                  | --            | --                            | --      |
| Loyal Brand    | L1230E         | E3                           | 1.2            | 23-Sep                     | 64                  | 1.0           | 60                | 47               | *84            | 31.0                          | 20.6    | *81                 | 2.3           | 33.5                          | 19.4    |
| Loyal Brand    | L1540E         | E3                           | 1.5            | 19-Sep                     | *70                 | 1.0           | *66               | *59              | *84            | 32.5                          | 19.9    | 76                  | 1.8           | 35.6                          | 18.4    |
| Loyal Brand    | L1730E         | E3                           | 1.7            | 27-Sep                     | *67                 | 1.0           | 64                | *61              | 76             | 32.1                          | 19.7    | --                  | --            | --                            | --      |
| Loyal Brand    | L1740E         | E3                           | 1.7            | 23-Sep                     | *71                 | 1.0           | *70               | 54               | *88            | 32.6                          | 19.8    | 73                  | 2.5           | 35.4                          | 18.4    |
| Loyal Brand    | L1950E         | E3                           | 1.9            | 27-Sep                     | 64                  | 1.0           | 64                | 48               | 81             | 31.3                          | 20.2    | --                  | --            | --                            | --      |
| NK             | NK06-D9E3      | E3                           | 0.6            | 16-Sep                     | 53                  | 1.0           | 54                | 33               | 71             | 33.8                          | 19.4    | --                  | --            | --                            | --      |
| NK             | NK06-P2XF      | XF                           | 0.6            | 19-Sep                     | 59                  | 1.0           | 50                | *55              | 72             | 32.4                          | 20.0    | --                  | --            | --                            | --      |
| NK             | NK09-B5XF      | XF                           | 0.9            | 19-Sep                     | 61                  | 1.0           | 62                | 45               | 75             | 33.6                          | 19.0    | --                  | --            | --                            | --      |
| NK             | NK09-H7E3      | E3                           | 0.9            | 19-Sep                     | 59                  | 1.0           | 54                | 48               | 76             | 32.4                          | 19.4    | --                  | --            | --                            | --      |

**TABLE 4. CONTINUED.** 2022 North Central Region Glyphosate Tolerant Soybean Trial (3 of 3)

| Brand      | Entry           | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 3-Test Average |               | 2022 Yields       |                  |                | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</sup> |         |      |
|------------|-----------------|------------------------------|----------------|----------------------------|---------------------|---------------|-------------------|------------------|----------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|------|
|            |                 |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Marshfield (bu/A) | Menomonie (bu/A) | Seymour (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |      |
| NK         | NK13-Y4XF       | XF                           | 1.3            | 23-Sep                     | 62                  | 1.0           | 60                | 49               | 76             | 33.8                          | 19.1    | --                  | --            | --                            | --      |      |
| NK         | NK14-W6E3       | E3                           | 1.4            | 19-Sep                     | *67                 | 1.0           | 62                | *56              | *83            | 33.3                          | 19.6    | *82                 | 1.8           | 34.5                          | 18.8    |      |
| NK         | NK18-J7E3       | E3                           | 1.8            | 23-Sep                     | *67                 | 1.0           | 64                | *56              | *82            | 32.6                          | 19.9    | *85                 | 1.8           | 35.9                          | 18.3    |      |
| O'Brien    | O'SOY1620GT27LL | LLGT27                       | 1.6            | 27-Sep                     | 63                  | 1.0           | 57                | 48               | *83            | 32.7                          | 20.0    | 72                  | 1.4           | 34.6                          | 18.8    |      |
| ProHarvest | 0985CR2Y        | RR2Y                         | 0.9            | 19-Sep                     | 54                  | 1.0           | 56                | 38               | 67             | 32.9                          | 19.9    | --                  | --            | --                            | --      |      |
| ProHarvest | 1638X           | RR2X                         | 1.6            | 23-Sep                     | 61                  | 1.0           | 61                | 45               | 76             | 33.5                          | 19.7    | *78                 | 1.9           | 37.1                          | 17.9    |      |
| Renk       | RS153NXF        | XF                           | 1.5            | 27-Sep                     | *66                 | 1.0           | 64                | 51               | *84            | 31.5                          | 20.0    | --                  | --            | --                            | --      |      |
| Renk       | RS183NXF        | XF                           | 1.8            | 27-Sep                     | *67                 | 1.0           | *69               | 50               | *82            | 31.6                          | 20.1    | --                  | --            | --                            | --      |      |
| Stine      | 11EC02          | E3                           | 1.1            | 19-Sep                     | *68                 | 1.0           | 61                | *60              | *83            | 31.2                          | 20.6    | *79                 | 2.2           | 33.8                          | 19.1    |      |
| Stine      | 14EE12          | E3                           | 1.4            | 27-Sep                     | *66                 | 1.0           | 64                | 53               | *82            | 31.2                          | 20.4    | --                  | --            | --                            | --      |      |
| Stine      | 16EC32          | E3                           | 1.6            | 27-Sep                     | 62                  | 1.0           | 59                | 51               | 76             | 32.3                          | 19.7    | 76                  | 1.8           | 36.2                          | 17.5    |      |
| Stine      | 17EE32          | E3                           | 1.7            | 27-Sep                     | *71                 | 1.0           | *71               | *56              | *86            | 32.4                          | 19.8    | --                  | --            | --                            | --      |      |
| Xitavo     | X0 0731E        | E3                           | 0.7            | 19-Sep                     | 62                  | 1.0           | 60                | 52               | 75             | 33.8                          | 19.4    | 76                  | 1.7           | 36.3                          | 18.2    |      |
| Xitavo     | X0 0993E        | E3                           | 0.9            | 19-Sep                     | 59                  | 1.0           | 51                | 51               | 74             | 32.3                          | 20.2    | --                  | --            | --                            | --      |      |
| Xitavo     | X0 1041E        | E3                           | 1.0            | 19-Sep                     | 58                  | 1.0           | 52                | 49               | 75             | 34.6                          | 18.5    | --                  | --            | --                            | --      |      |
| Xitavo     | X0 1212E        | E3                           | 1.2            | 23-Sep                     | 62                  | 1.0           | 63                | 48               | 75             | 34.4                          | 19.0    | 76                  | 1.8           | 37.2                          | 17.7    |      |
| Xitavo     | X0 1372E        | E3                           | 1.3            | 23-Sep                     | 65                  | 1.0           | 64                | 44               | *86            | 31.8                          | 20.4    | *86                 | 2.2           | 34.2                          | 18.9    |      |
| Xitavo     | X0 1451E        | E3                           | 1.4            | 27-Sep                     | *67                 | 1.0           | 60                | *61              | 81             | 32.0                          | 20.2    | --                  | --            | --                            | --      |      |
| Xitavo     | X0 1632E        | E3                           | 1.6            | 27-Sep                     | *71                 | 1.0           | *67               | *60              | *85            | 32.8                          | 19.7    | *79                 | 1.8           | 35.5                          | 18.6    |      |
| Xitavo     | X0 1761E        | E3                           | 1.7            | 27-Sep                     | *67                 | 1.0           | *65               | 53               | *82            | 32.8                          | 19.4    | --                  | --            | --                            | --      |      |
| Xitavo     | X0 1822E        | E3                           | 1.8            | 27-Sep                     | *70                 | 1.0           | *72               | 52               | *86            | 32.0                          | 19.8    | --                  | --            | --                            | --      |      |
|            |                 |                              |                | Mean                       | 23-Sep              | 64            | 1.0               | 62               | 51             | 80                            | 32.5    | 19.7                | 75            | 1.9                           | 35.3    | 18.2 |
|            |                 |                              |                | LSD (0.10)                 | --                  | 5             | --                | 7                | 7              | 6                             | 0.5     | 0.2                 | 8             | 0.7                           | 0.6     | 0.4  |

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

<sup>1</sup>Herbicide Trait : RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

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

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

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

| Brand          | Entry          |                              |                | 2022<br>3-Test Average |              |               | 2022 Yields       |                        |                          | 2022 Composition <sup>2</sup> |         | 2021<br>3-Test Average |               | 2021 Composition <sup>2</sup> |         |
|----------------|----------------|------------------------------|----------------|------------------------|--------------|---------------|-------------------|------------------------|--------------------------|-------------------------------|---------|------------------------|---------------|-------------------------------|---------|
|                |                | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date          | Yield (bu/A) | Lodging (1-5) | Marshfield (bu/A) | Spooner Dryland (bu/A) | Spooner Irrigated (bu/A) | Protein (%)                   | Oil (%) | Yield (bu/A)           | Lodging (1-5) | Protein (%)                   | Oil (%) |
| Apex           | AE0720         | E3                           | 0.7            | 24-Sep                 | 60           | 1.0           | 60                | *58                    | 62                       | 33.5                          | 19.0    | 56                     | 1.0           | 35.0                          | 18.1    |
| Apex           | AE1220         | E3                           | 1.2            | 28-Sep                 | *61          | 1.0           | *65               | *56                    | 62                       | 34.4                          | 19.1    | --                     | --            | --                            | --      |
| Asgrow         | AG07XF2        | XF                           | 0.7            | 24-Sep                 | 59           | 1.0           | 56                | *58                    | 62                       | 33.1                          | 19.8    | --                     | --            | --                            | --      |
| Asgrow         | AG09XF3        | XF                           | 0.9            | 26-Sep                 | 58           | 1.0           | 55                | *59                    | 59                       | 31.7                          | 19.2    | --                     | --            | --                            | --      |
| BioGene        | BG9100E3       | E3                           | 1.0            | 26-Sep                 | 57           | 1.0           | 54                | *56                    | 61                       | 34.4                          | 18.9    | 56                     | 1.0           | 36.4                          | 17.7    |
| Dairyland      | DSR-0660E      | E3                           | 0.6            | 23-Sep                 | 55           | 1.0           | 54                | 53                     | 57                       | 32.6                          | 19.3    | 53                     | 1.2           | 34.5                          | 18.3    |
| Dairyland      | DSR-0757E      | E3                           | 0.7            | 26-Sep                 | 56           | 1.0           | 50                | *56                    | *64                      | 30.8                          | 20.3    | --                     | --            | --                            | --      |
| Dairyland      | DSR-0847E      | E3                           | 0.8            | 27-Sep                 | 57           | 1.0           | 53                | *56                    | 62                       | 33.0                          | 19.7    | 59                     | 1.3           | 35.1                          | 18.5    |
| Dairyland      | DSR-0920E      | E3                           | 0.9            | 26-Sep                 | 59           | 1.0           | 59                | *58                    | 59                       | 34.1                          | 19.1    | 58                     | 1.0           | 36.4                          | 17.5    |
| Dairyland      | DSR-1121E      | E3                           | 1.1            | 28-Sep                 | 54           | 1.0           | 58                | 50                     | 52                       | 30.8                          | 20.9    | --                     | --            | --                            | --      |
| Genesis        | G0570E         | E3                           | 0.5            | 24-Sep                 | 52           | 1.0           | 49                | 50                     | 56                       | 34.1                          | 19.5    | --                     | --            | --                            | --      |
| Genesis        | G1070E         | E3                           | 1.0            | 28-Sep                 | 56           | 1.0           | 59                | 50                     | 60                       | 32.8                          | 19.2    | --                     | --            | --                            | --      |
| Golden Harvest | GH0933E3 Brand | E3                           | 0.9            | 26-Sep                 | 56           | 1.0           | 53                | *57                    | 58                       | 32.7                          | 19.4    | --                     | --            | --                            | --      |
| Impact         | 09E345N        | E3                           | 0.9            | 24-Sep                 | 57           | 1.0           | 54                | *59                    | 59                       | 32.9                          | 19.9    | --                     | --            | --                            | --      |
| Jung           | 1063XF         | XF                           | 0.6            | 23-Sep                 | 51           | 1.0           | 51                | 50                     | 52                       | 33.8                          | 18.7    | 48                     | 1.0           | 35.1                          | 17.9    |
| Jung           | 1072R2X        | RR2X                         | 0.7            | 22-Sep                 | 58           | 1.0           | 55                | *57                    | 61                       | 32.1                          | 19.6    | 60                     | 1.4           | 33.4                          | 18.6    |
| Jung           | 1104XF         | XF                           | 1.0            | 28-Sep                 | 58           | 1.0           | 58                | *59                    | 58                       | 33.7                          | 19.8    | 58                     | 1.1           | 35.4                          | 18.1    |
| Legacy Seeds   | LS084-22       | XF                           | 0.8            | 25-Sep                 | 59           | 1.0           | 56                | *58                    | 62                       | 32.0                          | 19.9    | --                     | --            | --                            | --      |
| Legacy Seeds   | LS124-21       | XF                           | 1.2            | 28-Sep                 | *62          | 1.0           | *62               | *61                    | *63                      | 32.7                          | 19.5    | 57                     | 1.1           | 34.7                          | 18.3    |
| Legacy Seeds   | LS134-22       | XF                           | 1.3            | 27-Sep                 | 58           | 1.0           | 53                | *60                    | 60                       | 32.7                          | 19.9    | --                     | --            | --                            | --      |
| LG Seeds       | LGS0988XF      | XF                           | 0.9            | 24-Sep                 | *61          | 1.0           | *61               | 55                     | *68                      | 33.0                          | 19.2    | --                     | --            | --                            | --      |
| LG Seeds       | LGS1203E3      | E3                           | 1.2            | 28-Sep                 | *62          | 1.0           | *62               | *61                    | *64                      | 34.3                          | 19.3    | 63                     | 1.1           | 37.3                          | 17.6    |
| LG Seeds       | LGS1385XF      | XF                           | 1.3            | 28-Sep                 | *61          | 1.0           | 59                | *60                    | *65                      | 33.5                          | 19.2    | --                     | --            | --                            | --      |

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

| Brand       | Entry     | Herbicide Trait <sup>1</sup> | Maturity Group | 2022 3-Test Average |              |               | 2022 Yields       |                        |                          | 2022 Composition <sup>2</sup> |         | 2021 3-Test Average |               | 2021 Composition <sup>2</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 (%) |      |
| Loyal Brand | L0950E    | E3                           | 0.9            | 24-Sep              | 57           | 1.0           | 54                | *58                    | 59                       | 33.0                          | 19.9    | --                  | --            | --                            | --      |      |
| Loyal Brand | L1050E    | E3                           | 1.0            | 28-Sep              | 59           | 1.0           | *62               | 54                     | 61                       | 33.0                          | 19.1    | --                  | --            | --                            | --      |      |
| Loyal Brand | L1230E    | E3                           | 1.2            | 27-Sep              | *61          | 1.0           | 58                | *63                    | 61                       | 30.5                          | 20.9    | *72                 | 1.3           | 33.8                          | 19.1    |      |
| NK          | NK03-V5E3 | E3                           | 0.3            | 19-Sep              | 56           | 1.0           | 54                | 53                     | 60                       | 34.4                          | 18.8    | --                  | --            | --                            | --      |      |
| NK          | NK06-D9E3 | E3                           | 0.6            | 23-Sep              | 55           | 1.0           | 53                | *58                    | 54                       | 33.6                          | 19.5    | --                  | --            | --                            | --      |      |
| NK          | NK06-P2XF | XF                           | 0.6            | 19-Sep              | 51           | 1.0           | 48                | 49                     | 58                       | 33.1                          | 19.9    | --                  | --            | --                            | --      |      |
| NK          | NK08-V9E3 | E3                           | 0.8            | 23-Sep              | 58           | 1.0           | *62               | 46                     | *64                      | 32.9                          | 19.2    | 59                  | 1.0           | 35.3                          | 17.8    |      |
| NK          | NK09-B5XF | XF                           | 0.9            | 24-Sep              | 55           | 1.0           | 54                | 54                     | 58                       | 33.8                          | 19.0    | --                  | --            | --                            | --      |      |
| NK          | NK09-H7E3 | E3                           | 0.9            | 26-Sep              | 57           | 1.0           | 54                | *59                    | 58                       | 32.5                          | 19.4    | --                  | --            | --                            | --      |      |
| ProHarvest  | 0985CR2Y  | RR2Y                         | 0.9            | 24-Sep              | *61          | 1.0           | 59                | *59                    | *63                      | 32.9                          | 20.0    | *72                 | 1.0           | 35.0                          | 18.8    |      |
| Renk        | RS093NXF  | XF                           | 0.9            | 24-Sep              | 57           | 1.0           | 58                | 54                     | 58                       | 31.8                          | 20.0    | --                  | --            | --                            | --      |      |
| Stine       | 08EC02    | E3                           | 0.8            | 24-Sep              | 59           | 1.0           | 57                | *59                    | 61                       | 33.3                          | 19.0    | --                  | --            | --                            | --      |      |
| Stine       | 09EA02    | E3                           | 0.9            | 27-Sep              | 55           | 1.0           | 52                | 55                     | 57                       | 34.2                          | 19.1    | 59                  | 1.2           | 36.3                          | 17.6    |      |
| Stine       | 11EC02    | E3                           | 1.1            | 27-Sep              | *65          | 1.0           | *66               | *60                    | *68                      | 30.9                          | 20.6    | *70                 | 1.2           | 32.9                          | 19.5    |      |
| Xitavo      | XO 0573E  | E3                           | 0.5            | 23-Sep              | 55           | 1.0           | 50                | 51                     | *63                      | 33.7                          | 19.5    | --                  | --            | --                            | --      |      |
| Xitavo      | XO 0731E  | E3                           | 0.7            | 25-Sep              | 59           | 1.0           | 53                | *61                    | 61                       | 34.0                          | 19.3    | *66                 | 1.0           | 35.2                          | 18.6    |      |
| Xitavo      | XO 0993E  | E3                           | 0.9            | 24-Sep              | 58           | 1.0           | 55                | *59                    | 62                       | 32.4                          | 20.0    | --                  | --            | --                            | --      |      |
|             |           |                              |                | Mean                | 25-Sep       | 58            | 1.0               | 56                     | 56                       | 60                            | 33.0    | 19.5                | 61            | 1.2                           | 35.1    | 18.2 |
|             |           |                              |                | LSD (0.10)          | 2            | 4             | --                | 5                      | 7                        | 5                             | 0.5     | 0.2                 | 7             | NS                            | 0.7     | 0.4  |

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

<sup>1</sup> Herbicide Trait : RR2Y = glyphosate, RR2X = dicamba/glyphosate, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D, LLGT27 = glufosinate/glyphosate/isoxaflutole

<sup>2</sup> Protein and oil determined at the Marshfield site.

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

**TABLE 6. 2022 Southern Conventional Soybean Trial (1 of 2)**

| Brand        | Entry                  | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date <sup>2</sup> | 2022 2-Test Average |               | 2022 Yields      |                    |                  | 2022 Composition <sup>2</sup> |         | 2021 2-Test Average |               | 2021 Composition <sup>2</sup> |         |
|--------------|------------------------|------------------------------|----------------|----------------------------|---------------------|---------------|------------------|--------------------|------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|
|              |                        |                              |                |                            | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Platteville (bu/A) | WM% <sup>3</sup> | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |
| AgriGold     | G2002                  | CN                           | 2.0            | 20-Sep                     | *92                 | 1.1           | *82              | *101               | 1                | 32.1                          | 20.5    | --                  | --            | --                            | --      |
| AgriGold     | G2304                  | CN                           | 2.3            | 23-Sep                     | 78                  | 1.5           | 75               | 82                 | 9                | 32.2                          | 20.3    | --                  | --            | --                            | --      |
| AgriGold     | G2802                  | CN                           | 2.8            | 1-Oct                      | *87                 | 1.6           | 75               | *98                | 2                | 32.2                          | 19.3    | --                  | --            | --                            | --      |
| AgriGold     | G3104                  | CN                           | 3.1            | 1-Oct                      | 78                  | 2.3           | 74               | 82                 | 2                | 33.5                          | 19.7    | --                  | --            | --                            | --      |
| Legacy Seeds | LS187-21C              | CN                           | 1.8            | 22-Sep                     | 71                  | 2.4           | 68               | 75                 | 17               | 34.9                          | 18.5    | 83                  | 1.0           | 35.6                          | 18.6    |
| Legacy Seeds | LS203-22C              | CN                           | 2.0            | 17-Sep                     | *85                 | 1.3           | 73               | *98                | 1                | 31.9                          | 20.7    | --                  | --            | --                            | --      |
| Legacy Seeds | LS231-21C              | CN                           | 2.3            | 20-Sep                     | *79                 | 1.4           | 74               | 84                 | 23               | 31.8                          | 19.7    | 86                  | 1.0           | 33.7                          | 19.2    |
| Legacy Seeds | LS260-21C              | CN                           | 2.6            | 26-Sep                     | 72                  | 2.4           | 75               | 70                 | 32               | 31.5                          | 20.6    | *87                 | 1.0           | 33.7                          | 20.3    |
| Legacy Seeds | LS262-21C              | CN                           | 2.6            | 21-Sep                     | 67                  | 2.3           | 65               | 69                 | 18               | 37.8                          | 17.9    | --                  | --            | --                            | --      |
| Public       | MN1410                 | CN                           | 1.4            | 12-Sep                     | 67                  | 2.4           | 53               | 81                 | 2                | 34.7                          | 19.6    | 69                  | 1.5           | 36.0                          | 19.8    |
| Public       | W16-5282B              | CN                           | 2.6            | 24-Sep                     | 68                  | 1.8           | 68               | 67                 | 9                | 34.9                          | 19.1    | --                  | --            | --                            | --      |
| Public       | W19-11321 <sup>4</sup> | CN                           | 2.8            | 24-Sep                     | 56                  | 2.9           | 55               | 56                 | 4                | --                            | --      | --                  | --            | --                            | --      |
| Public       | W19-1190               | CN                           | 2.5            | 23-Sep                     | 62                  | 1.8           | 55               | 68                 | 2                | 34.3                          | 18.6    | --                  | --            | --                            | --      |
| Public       | W19-1191cl             | CN                           | 2.5            | 30-Sep                     | 57                  | 2.0           | 50               | 65                 | 3                | 34.3                          | 18.7    | --                  | --            | --                            | --      |
| Public       | W19-1191g              | CN                           | 2.5            | 24-Sep                     | 62                  | 2.0           | 53               | 72                 | 2                | 34.2                          | 18.7    | --                  | --            | --                            | --      |
| Public       | W19-2484               | CN                           | 1.5            | 15-Sep                     | 60                  | 2.1           | 52               | 68                 | 2                | 35.4                          | 18.6    | --                  | --            | --                            | --      |
| SB&B         | SB1270                 | CN                           | 1.2            | 15-Sep                     | 70                  | 2.1           | 64               | 77                 | 1                | 33.9                          | 19.8    | 71                  | 1.3           | 34.8                          | 20.0    |
| SB&B         | SB712                  | CN                           | 1.2            | 12-Sep                     | 71                  | 1.8           | 61               | 80                 | 2                | 36.5                          | 18.7    | 72                  | 1.3           | 37.9                          | 18.8    |
| SB&B         | SB19                   | CN                           | 1.5            | 12-Sep                     | 65                  | 2.4           | 52               | 77                 | 6                | 33.8                          | 19.2    | 74                  | 1.3           | 35.0                          | 19.4    |
| Sevita       | Alinova                | CN                           | 1.5            | 15-Sep                     | 72                  | 1.3           | 66               | 78                 | 1                | 35.2                          | 20.1    | --                  | --            | --                            | --      |
| Sevita       | Candor                 | CN                           | 1.9            | 14-Sep                     | 69                  | 1.9           | 54               | 84                 | 1                | 36.8                          | 18.6    | 78                  | 1.5           | 38.6                          | 18.0    |
| Sevita       | Rowan                  | CN                           | 2.0            | 19-Sep                     | 73                  | 1.4           | 69               | 78                 | 6                | 34.2                          | 18.8    | --                  | --            | --                            | --      |
| Viking       | 0.1718N                | CN                           | 1.7            | 15-Sep                     | *84                 | 1.3           | 75               | 92                 | 3                | 32.8                          | 19.9    | --                  | --            | --                            | --      |
| Viking       | 2022N                  | CN                           | 2.0            | 18-Sep                     | *88                 | 1.5           | 70               | *105               | 1                | 32.2                          | 20.5    | --                  | --            | --                            | --      |
| Viking       | 2155N                  | CN                           | 2.1            | 26-Sep                     | *82                 | 2.3           | 70               | 94                 | 4                | 33.3                          | 18.2    | *88                 | 1.0           | 35.2                          | 18.2    |
| Viking       | 0.2244AT               | CN                           | 2.2            | 16-Sep                     | 69                  | 1.8           | 66               | 71                 | 8                | 34.3                          | 19.9    | 78                  | 1.0           | 35.8                          | 19.6    |

**TABLE 6. CONTINUED.** 2022 Southern Conventional Soybean Trial (2 of 2)

| Brand      | Entry  | Herbicide Trait <sup>1</sup> | 2022 2-Test Average |               | 2022 Yields      |                    |                  | 2022 Composition <sup>2</sup> |         | 2021 2-Test Average |               | 2021 Composition <sup>2</sup> |         |      |      |
|------------|--------|------------------------------|---------------------|---------------|------------------|--------------------|------------------|-------------------------------|---------|---------------------|---------------|-------------------------------|---------|------|------|
|            |        |                              | Yield (bu/A)        | Lodging (1-5) | Arlington (bu/A) | Platteville (bu/A) | WM% <sup>3</sup> | Protein (%)                   | Oil (%) | Yield (bu/A)        | Lodging (1-5) | Protein (%)                   | Oil (%) |      |      |
| Viking     | 2340KN | CN                           | 2.3                 | 19-Sep        | 76               | 1.5                | 66               | 87                            | 4       | 32.4                | 20.1          | *87                           | 1.0     | 33.2 | 20.2 |
| Viking     | 2418N  | CN                           | 2.4                 | 23-Sep        | 77               | 1.8                | 67               | 86                            | 5       | 32.4                | 19.0          | *89                           | 1.0     | 34.5 | 18.8 |
| Viking     | 0.2702 | CN                           | 2.7                 | 30-Sep        | 70               | 2.6                | 71               | 69                            | 39      | 34.0                | 19.9          | 82                            | 1.1     | 35.6 | 19.6 |
| Virtue     | V1821  | CN                           | 1.8                 | 18-Sep        | 78               | 1.3                | 69               | 86                            | 1       | 33.5                | 19.2          | --                            | --      | --   | --   |
| Virtue     | V2122  | CN                           | 2.1                 | 18-Sep        | 75               | 1.8                | 68               | 83                            | 4       | 32.7                | 20.5          | --                            | --      | --   | --   |
| Virtue     | V2423  | CN                           | 2.4                 | 20-Sep        | *80              | 1.9                | 76               | 83                            | 9       | 32.5                | 19.9          | --                            | --      | --   | --   |
| Check      | 11953  | E3                           | 2.1                 | 18-Sep        | *88              | 1.6                | *85              | 92                            | 6       | 31.9                | 20.5          | *90                           | 1.0     | 33.1 | 20.2 |
| Check      | 11912  | E3                           | 2.5                 | 1-Oct         | 75               | 3.0                | *82              | 68                            | 59      | 31.6                | 21.0          | --                            | --      | --   | --   |
| Check      | 12178  | E3                           | 2.8                 | 1-Oct         | *89              | 1.9                | *82              | 96                            | 1       | 33.1                | 19.3          | --                            | --      | --   | --   |
| Mean       |        |                              | 20-Sep              | 74            | 1.9              | 67                 | 81               | 8                             | 33.6    | 19.5                | 81            | 1.1                           | 35.1    | 19.3 |      |
| LSD (0.10) |        |                              | --                  | 13            | NS               | 7                  | 8                | 11                            | 0.6     | 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> Herbicide Trait : CN = conventional, XF = dicamba/glufosinate/glyphosate, E3 = glufosinate/glyphosate/2,4-D

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

<sup>3</sup> WM% = White mold expressed as percent diseased plants.

<sup>4</sup> This variety has a black seed coat, therefore we were unable to determine protein and oil content with our NIR.

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

**TABLE 7. 2022 North Central Conventional Soybean Trial**

| Brand        | Entry     | Herbicide Trait <sup>1</sup> | Maturity Group | Maturity Date | 2022 Menomonie |               |             |         | 2021 Menomonie |               |             |         |
|--------------|-----------|------------------------------|----------------|---------------|----------------|---------------|-------------|---------|----------------|---------------|-------------|---------|
|              |           |                              |                |               | Yield (bu/A)   | Lodging (1-5) | Protein (%) | Oil (%) | Yield (bu/A)   | Lodging (1-5) | Protein (%) | Oil (%) |
| AgriGold     | G1602     | CN                           | 1.6            | 21-Sep        | *55            | 1.0           | 30.5        | 20.2    | --             | --            | --          | --      |
| Legacy Seeds | LS121-22C | CN                           | 1.2            | 23-Sep        | *53            | 1.0           | 29.1        | 21.0    | --             | --            | --          | --      |
| Legacy Seeds | LS151-21C | CN                           | 1.5            | 25-Sep        | *50            | 1.0           | 30.2        | 20.4    | *74            | 3.0           | 33.5        | 18.8    |
| Legacy Seeds | LS187-21C | CN                           | 1.8            | 28-Sep        | *52            | 1.0           | 31.7        | 19.8    | 73             | 4.3           | 35.8        | 17.8    |
| Legacy Seeds | LS203-22C | CN                           | 2.0            | 28-Sep        | *56            | 1.0           | 29.8        | 21.2    | --             | --            | --          | --      |
| Public       | MN1410    | CN                           | 1.4            | 18-Sep        | 45             | 1.0           | 31.7        | 21.0    | 68             | 3.8           | 35.5        | 19.2    |
| SB&B         | SB700     | CN                           | 0.7            | 10-Sep        | 36             | 1.0           | 34.5        | 19.7    | 61             | 3.5           | 36.9        | 18.2    |
| SB&B         | SB1270    | CN                           | 1.2            | 23-Sep        | 45             | 1.0           | 32.0        | 20.6    | 67             | 4.8           | 35.3        | 18.8    |
| SB&B         | SB712     | CN                           | 1.2            | 9-Sep         | 44             | 1.0           | 34.0        | 20.0    | 70             | 3.5           | 36.8        | 18.1    |
| SB&B         | SB19      | CN                           | 1.5            | 16-Sep        | 49             | 1.0           | 31.7        | 19.9    | 62             | 4.3           | 34.9        | 18.3    |
| SB&B         | SB49      | CN                           | 0.4            | 8-Sep         | 35             | 1.0           | 35.1        | 19.5    | --             | --            | --          | --      |
| Sevita       | Finch     | CN                           | 0.9            | 11-Sep        | 44             | 1.0           | 34.5        | 20.0    | --             | --            | --          | --      |
| Sevita       | Odessa    | CN                           | 1.1            | 18-Sep        | 42             | 1.0           | 34.8        | 19.7    | --             | --            | --          | --      |
| Sevita       | Skyline   | CN                           | 1.1            | 21-Sep        | 46             | 1.0           | 34.0        | 20.3    | 64             | 5.0           | 37.2        | 18.8    |
| Sevita       | Barton    | CN                           | 1.4            | 18-Sep        | 45             | 1.0           | 31.9        | 20.5    | --             | --            | --          | --      |
| Sevita       | Alinova   | CN                           | 1.5            | 21-Sep        | 47             | 1.0           | 33.0        | 20.9    | --             | --            | --          | --      |
| Viking       | 0821N     | CN                           | 0.8            | 20-Sep        | 47             | 1.0           | 31.0        | 20.7    | *75            | 4.0           | 35.5        | 18.4    |
| Viking       | 1223N     | CN                           | 1.2            | 18-Sep        | *50            | 1.0           | 29.0        | 21.0    | --             | --            | --          | --      |
| Viking       | 0.1202N   | CN                           | 1.2            | 20-Sep        | 49             | 1.0           | 33.9        | 19.2    | 71             | 4.3           | 35.9        | 18.0    |
| Viking       | 1518N     | CN                           | 1.5            | 21-Sep        | *50            | 1.0           | 31.4        | 20.1    | *74            | 3.5           | 36.0        | 18.0    |
| Viking       | 0.1718N   | CN                           | 1.7            | 23-Sep        | *58            | 1.0           | 30.2        | 20.6    | 73             | 3.8           | 33.7        | 19.3    |
| Check        | 12040     | E3                           | 1.3            | 23-Sep        | 48             | 1.0           | 30.0        | 21.5    | --             | --            | --          | --      |
| Check        | 12153     | XF                           | 1.7            | 26-Sep        | 47             | 1.0           | 32.0        | 20.1    | --             | --            | --          | --      |
| Check        | 12005     | E3                           | 1.8            | 18-Sep        | *58            | 1.0           | 32.4        | 20.3    | --             | --            | --          | --      |
|              |           | Mean                         |                | 19-Sep        | 48             | 1.0           | 32.0        | 20.3    | 70             | 3.6           | 35.6        | 18.4    |
|              |           | LSD (0.10)                   |                | --            | 8              | --            | 1.2         | 0.5     | 11             | 1.0           | 1.2         | 0.4     |

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

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

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

**TABLE 8.**  
**2022 Seed Source for**  
**Soybean Entries**

| Brand          | Company                          | Phone Number   | Website  |
|----------------|----------------------------------|----------------|--|
| AgriGold       | AgriGold Hybrids                 | (317) 691-4347 | <a href="http://www.agrigold.com">www.agrigold.com</a>   |
| Apex           | Brunner Seed Inc.                | (715) 672-5887 | <a href="http://www.brunnerseed.com">www.brunnerseed.com</a>   |
| Asgrow         | Bayer Crop Science               | (715) 495-7246 | <a href="http://www.agseedselect.com">www.agseedselect.com</a>                                       |
| BioGene        | Van Treeck's Seed Farm           | (920) 467-2422 | <a href="http://www.biogeneseeds.com">www.biogeneseeds.com</a>                                       |
| Burrus         | Burrus Bros & Associated Growers | (815) 482-1257 | <a href="http://burrusseed.com">burrusseed.com</a>   |
| Cornelius      | Cornelius Seed                   | (563) 672-3463 | <a href="http://www.corneliusseed.com">www.corneliusseed.com</a>                                     |
| Credenz        | BASF                             | (309) 212-5454 | <a href="http://credenz.us">credenz.us</a>   |
| Dairyland      | Dairyland Seed                   | (217) 972-9839 | <a href="http://www.dairylandseed.com">www.dairylandseed.com</a>                                     |
| DONMARIO       | Burrus Bros & Associated Growers | (815) 482-1257 | <a href="http://burrusseed.com">burrusseed.com</a>   |
| Dyna-Gro       | Dyna-Gro Seed                    | (608) 248-6226 | <a href="http://www.dynagroseed.com">www.dynagroseed.com</a>   |
| FS HiSOY       | GROWMARK, Inc.                   | (309) 838-8574 | <a href="http://www.fsseed.com">www.fsseed.com</a>   |
| Genesis        | MS Technologies                  | (608) 513-0293 | <a href="http://www.renkseed.com">www.renkseed.com</a>   |
| Golden Harvest | Golden Harvest                   | (920) 889-5509 | <a href="http://www.goldenharvestseeds.com">www.goldenharvestseeds.com</a>                           |
| Impact         | Legend Seeds Inc.                | (608) 843-0523 | <a href="http://www.legendseeds.net">www.legendseeds.net</a>   |
| Jung           | Jung Seed Genetics               | (515) 205-3354 | <a href="http://www.jungseedgenetics.com">www.jungseedgenetics.com</a>                               |
| Legacy Seeds   | Legacy Seeds Inc.                | (866) 791-6390 | <a href="http://www.legacyseeds.com">www.legacyseeds.com</a>   |
| LG Seeds       | LG Seeds                         | (608) 606-4551 | <a href="http://www.lgseeds.com">www.lgseeds.com</a>   |
| Loyal Brand    | MS Technologies                  | (866) 791-6390 | <a href="http://www.legacyseeds.com">www.legacyseeds.com</a>   |
| NK             | Syngenta                         | (262) 220-3015 | <a href="http://www.nksoybeans.com">www.nksoybeans.com</a>   |
| O'Brien        | O'Brien Hybrids                  | (608) 576-3685 | <a href="http://www.obrienhybrids.com">www.obrienhybrids.com</a>                                     |
| P3 Genetics    | MS Technologies                  | --             | <a href="http://www.corneliusseed.com">www.corneliusseed.com</a>                                     |
| ProHarvest     | Brunner Seed Inc.                | (715) 672-5887 | <a href="http://www.brunnerseed.com">www.brunnerseed.com</a>   |
| Public         | WI Foundation Seeds              | (608) 262-9954 | <a href="http://www.wisconsinfofoundationseeds.wisc.edu">www.wisconsinfofoundationseeds.wisc.edu</a> |
| Renk           | Renk Seed                        | (608) 513-0293 | <a href="http://www.renkseed.com">www.renkseed.com</a>   |
| SB&B           | SB&B Foods Inc.                  | (715) 928-1623 | <a href="http://sb-b.com">sb-b.com</a>   |
| Sevita         | Sevita International             | (226) 627-2341 | <a href="http://sevita.com">sevita.com</a>   |
| Stine          | Stine Seed Company               | (608) 387-3954 | <a href="http://www.stineseed.com">www.stineseed.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>   |
| Virtue         | GDM Seeds                        | (217) 560-6400 | <a href="http://virtuseeds.com">virtuseeds.com</a>   |
| Xitavo         | MS Technologies                  | (309) 212-5454 | <a href="http://xitavosoybeanseed.com">xitavosoybeanseed.com</a>                                     |

# TABLE 9. 2022 Temperature and Precipitation Summary

| Trial Location              | Average Mean Temperature (°F) |      |      |        |           | Total Precipitation (inches) |      |      |        |           |      |
|-----------------------------|-------------------------------|------|------|--------|-----------|------------------------------|------|------|--------|-----------|------|
|                             | May                           | June | July | August | September | May                          | June | July | August | September |      |
| Arlington                   | 59.6                          | 67.7 | 71.1 | 69.1   | 61.8      | Departure                    | 2.3  | 5.5  | 2.9    | 5.2       | 5.8  |
|                             | 2.1                           | 0.2  | 0.1  | 0.1    | 0.4       |                              | -1.9 | 0.3  | -1.3   | 1.4       | 2.5  |
| Clinton                     | 59.2                          | 67.7 | 70.3 | 67.9   | 61.3      | Departure                    | 2.5  | 1.8  | 6.3    | 4.6       | 5.2  |
|                             | 1.1                           | -0.4 | -1.1 | -1.5   | -1.2      |                              | -1.7 | -3.6 | 2.6    | 0.4       | 1.4  |
| Fond du Lac                 | 58.7                          | 67.3 | 71.0 | 69.4   | 62.2      | Departure                    | 3.3  | 4.2  | 2.9    | 2.8       | 1.7  |
|                             | 2.8                           | 1.3  | 0.8  | 1.0    | 1.3       |                              | -0.2 | -0.2 | -0.7   | -0.6      | -1.5 |
| Galesville<br>(Trempealeau) | 58.9                          | 70.2 | 73.3 | 71.1   | 64.7      | Departure                    | 7.8  | 5.0  | 4.7    | 5.5       | 1.0  |
|                             | 0.1                           | 1.8  | 0.9  | 0.9    | 2.2       |                              | 3.4  | 0.7  | 0.1    | 1.4       | -2.7 |
| Hancock*                    | 58.2                          | 66.0 | 69.7 | 67.9   | 61.0      | Departure                    | 3.8  | 4.2  | 4.0    | 5.6       | 3.8  |
|                             | 1.6                           | -0.3 | -0.4 | -0.4   | 0.6       |                              | -0.4 | -0.8 | -0.1   | 1.5       | 0.4  |
|                             |                               |      |      |        |           | Irrigation                   | 0.7  | 1.8  | 3.1    | 1.2       | 0.3  |
| Marshfield                  | 56.8                          | 64.9 | 68.8 | 67.0   | 59.7      | Departure                    | 3.7  | 3.8  | 4.4    | 3.1       | 2.3  |
|                             | 1.1                           | -0.6 | -0.9 | -0.5   | 0.4       |                              | -0.4 | -1.0 | 0.5    | -0.9      | -1.6 |
| Menomonie                   | 57.1                          | 66.9 | 71.1 | 68.6   | 61.4      | Departure                    | 4.9  | 2.0  | 1.5    | 7.1       | 2.5  |
|                             | 0.8                           | 0.6  | 0.5  | 0.3    | 1.2       |                              | 0.4  | -3.1 | -2.6   | 3.0       | -1.2 |
| Platteville<br>(Lancaster)  | 60.0                          | 68.3 | 72.0 | 69.9   | 62.9      | Departure                    | 2.6  | 2.8  | 7.2    | 4.8       | 0.8  |
|                             | 1.9                           | 0.5  | 0.6  | 0.4    | 1.0       |                              | -1.8 | -3.1 | 2.2    | 0.9       | -3.2 |
| Seymour<br>(Green Bay)      | 60.9                          | 69.0 | 71.7 | 70.5   | 62.8      | Departure                    | 2.0  | 2.8  | 5.3    | 4.4       | 3.3  |
|                             | 4.4                           | 2.6  | 1.2  | 1.9    | 1.8       |                              | -1.4 | -1.3 | 1.7    | 1.1       | 0.1  |
| Spooner*                    | 56.5                          | 65.4 | 69.9 | 67.4   | 60.0      | Departure                    | 4.7  | 2.5  | 1.9    | 6.5       | 1.5  |
|                             | 1.3                           | 0.5  | 0.9  | 0.3    | 1.2       |                              | 0.6  | -1.7 | -2.1   | 2.6       | -2.2 |
|                             |                               |      |      |        |           | Irrigation                   | 0.0  | 1.0  | 2.8    | 0.0       | 0.0  |

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

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

# TABLE 10. 2022 Characteristics of Soybean Varieties (1 of 11)

| Brand    | Entry   | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)      | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|----------|---------|----------|--------------------|----------------------------------|------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|          |         | Group    | Trait <sup>1</sup> |                                  |                        |                         |                        | Flower             | Pubescence | Pod | Hilum |
| AgriGold | G1449E3 | 1.4      | E3                 | 3,4                              | AgriShield Max, Saltro | PI 88788                | --                     | P                  | LTW        | T   | BL    |
| AgriGold | G1490XF | 1.4      | XF                 | 3,4                              | AgriShield Max, Saltro | PI 88788                | Rps 3-a                | P                  | LTW        | BR  | BR    |
| AgriGold | G1601E3 | 1.6      | E3                 | 3,4                              | AgriShield Max, Saltro | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| AgriGold | G1602   | 1.6      | CN                 | 7                                | AgriShield Max, Saltro | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BR    |
| AgriGold | G1857E3 | 1.8      | E3                 | 3                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | BR  | BF    |
| AgriGold | G1902XF | 1.9      | XF                 | 3                                | AgriShield Max, Saltro | PI 88788                | --                     | P                  | LTW        | BR  | BL    |
| AgriGold | G2002   | 2.0      | CN                 | 6                                | AgriShield Max, Saltro | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BL    |
| AgriGold | G2081E3 | 2.0      | E3                 | 3                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| AgriGold | G2095XF | 2.0      | XF                 | 3                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | T   | IB    |
| AgriGold | G2107E3 | 2.1      | E3                 | 2                                | AgriShield Max, Saltro | Peking                  | Rps 1-c                | P                  | G          | T   | IB    |
| AgriGold | G2108XF | 2.1      | XF                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | LTW        | BR  | BL    |
| AgriGold | G2304   | 2.3      | CN                 | 6                                | AgriShield Max, Saltro | Peking                  | Rps 1-k                | P                  | G          | T   | BF    |
| AgriGold | G2315XF | 2.3      | XF                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | T   | IB    |
| AgriGold | G2361E3 | 2.3      | E3                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| AgriGold | G2450XF | 2.4      | XF                 | 2                                | AgriShield Max, Saltro | PI 88788                | --                     | P                  | G          | BR  | BF    |
| AgriGold | G2549E3 | 2.5      | E3                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-a                | P                  | G          | BR  | BF    |
| AgriGold | G2622XF | 2.6      | XF                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| AgriGold | G2705E3 | 2.7      | E3                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-k                | P                  | G          | T   | IB    |
| AgriGold | G2802   | 2.8      | CN                 | 6                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | LTW        | BR  | BL    |
| AgriGold | G2820XF | 2.8      | XF                 | 2                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | T   | IB    |
| AgriGold | G3104   | 3.1      | CN                 | 6                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | LTW        | T   | CL    |
| Apex     | AE0720  | 0.7      | E3                 | 5                                | Brute 4000S, Heads Up  | PI 88788                | --                     | P                  | G          | T   | BF    |
| Apex     | AE1220  | 1.2      | E3                 | 4,5                              | Brute 4000S, Heads Up  | --                      | --                     | --                 | --         | --  | --    |
| Apex     | AE1410  | 1.4      | E3                 | 4                                | Brute 4000S, Heads Up  | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Apex     | AE1710  | 1.7      | E3                 | 4                                | Brute 4000S, Heads Up  | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |

All characteristic information is provided by the originator.

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

<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y= Yellow.

# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (2 of 11)

| Brand     | Entry    | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)     | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|-----------|----------|----------|--------------------|----------------------------------|-----------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|           |          | Group    | Trait <sup>1</sup> |                                  |                       |                         |                        | Flower             | Pubescence | Pod | Hilum |
| Apex      | AE1930   | 1.9      | E3                 | 3,4                              | Brute 4000S, Heads Up | --                      | --                     | --                 | --         | --  | --    |
| Apex      | AE2220   | 2.2      | E3                 | 3                                | Brute 4000S, Heads Up | PI 88788                | --                     | W                  | G          | T   | BF    |
| Asgrow    | AG07XF2  | 0.7      | XF                 | 5                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BR    |
| Asgrow    | AG09XF3  | 0.9      | XF                 | 5                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | TW         | BR  | BL    |
| Asgrow    | AG11XF2  | 1.1      | XF                 | 4                                | Acceleron F/I, ILEVO  | --                      | Rps 3-a                | P                  | LTW        | T   | BR    |
| Asgrow    | AG13XF3  | 1.3      | XF                 | 3,4                              | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c, 3-a           | P                  | TW         | BR  | BR    |
| Asgrow    | AG15XF2  | 1.5      | XF                 | 3,4                              | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| Asgrow    | AG18XF1  | 1.8      | XF                 | 3,4                              | Acceleron F/I, ILEVO  | PI 88788                | --                     | P                  | G          | T   | BF    |
| Asgrow    | AG19XF3  | 1.9      | XF                 | 3                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| Asgrow    | AG20XF1  | 2.0      | XF                 | 2,3                              | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| Asgrow    | AG21XF2  | 2.1      | XF                 | 3                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 3-a                | P                  | LTW        | T   | BR    |
| Asgrow    | AG22XF2  | 2.2      | XF                 | 2                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | BR  | BF    |
| Asgrow    | AG24XF1  | 2.4      | XF                 | 2                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| Asgrow    | AG24XF3  | 2.4      | XF                 | 2                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c, 3-a           | P                  | G          | BR  | IB    |
| Asgrow    | AG26XF1  | 2.6      | XF                 | 2                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| Asgrow    | AG26XF3  | 2.6      | XF                 | 2                                | Acceleron F/I, ILEVO  | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| BioGene   | BG9100E3 | 1.0      | E3                 | 5                                | Arma                  | PI 88788                | --                     | P                  | G          | BR  | G     |
| BioGene   | BG9150E3 | 1.5      | E3                 | 4                                | Arma                  | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| BioGene   | BG9180E3 | 1.8      | E3                 | 3                                | Arma                  | PI 88788                | Rps 1-c                | P                  | G          | BR  | BF    |
| Burrus    | 2096E    | 2.0      | E3                 | 2                                | Burrus PowerShield    | PI 88788                | Rps 1-k                | P                  | LTW        | BR  | BL    |
| Burrus    | 2497E    | 2.4      | E3                 | 2                                | Burrus PowerShield    | PI 88788                | Rps 1-k                | W                  | G          | T   | BF    |
| Burrus    | 2565E    | 2.5      | E3                 | 2                                | Burrus PowerShield    | Peking                  | Rps 1-k                | P                  | G          | T   | BF    |
| Burrus    | 2742E    | 2.7      | E3                 | 2                                | Burrus PowerShield    | PI 88788                | Rps 1-k                | P                  | G          | T   | IB    |
| Cornelius | CB24XF27 | 2.4      | XF                 | 2                                | Profit Guard Plus     | --                      | --                     | --                 | --         | --  | --    |
| Cornelius | CB25XF99 | 2.5      | XF                 | 2                                | Profit Guard Plus     | --                      | --                     | --                 | --         | --  | --    |

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<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y=Yellow.

# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (3 of 11)

| Brand     | Entry       | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)                          | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Flower | Color <sup>4</sup> |    | Pod | Hilum |
|-----------|-------------|----------|--------------------|----------------------------------|--|-------------------------|------------------------|--------|--------------------|----|-----|-------|
|           |             | Group    | Trait <sup>1</sup> |                                  |  |                         |                        |        | G                  | T  |     |       |
| Cornelius | CB27XF34    | 2.7      | XF                 | 2                                | Profit Guard Plus                          | PI 88788                | Rps 1-c                | P      | G                  | T  | G   |       |
| Cornelius | CB29XF35    | 2.9      | XF                 | 2                                | Profit Guard Plus                          | --                      | --                     | --     | --                 | -- | --  |       |
| Credenz   | CZ 1660GTLL | 1.6      | LLGT27             | 3,4                              | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-k                | P      | LTW                | T  | BR  |       |
| Dairyland | DSR-0660E   | 0.6      | E3                 | 5                                | LumiGEN, ILEVO                             | PI 88788                | --                     | P      | G                  | T  | Y   |       |
| Dairyland | DSR-0757E   | 0.7      | E3                 | 4,5                              | LumiGEN, ILEVO                             | --                      | Rps 1-c                | P      | LTW                | BR | BR  |       |
| Dairyland | DSR-0847E   | 0.8      | E3                 | 4,5                              | LumiGEN, ILEVO                             | --                      | Rps 1-c                | P      | G                  | T  | IB  |       |
| Dairyland | DSR-0920E   | 0.9      | E3                 | 4,5                              | LumiGEN, ILEVO                             | PI 88788                | --                     | P      | G                  | T  | IB  |       |
| Dairyland | DSR-1121E   | 1.1      | E3                 | 4,5                              | LumiGEN, ILEVO                             | PI 88788                | --                     | P      | G                  | T  | IB  |       |
| Dairyland | DSR-1290E   | 1.2      | E3                 | 4                                | LumiGEN, ILEVO                             | PI 88788                | --                     | P      | G                  | BR | IB  |       |
| Dairyland | DSR-1450E   | 1.4      | E3                 | 4                                | LumiGEN, ILEVO                             | PI 88788                | --                     | P      | G                  | BR | IB  |       |
| Dairyland | DSR-1505E   | 1.5      | E3                 | 3,4                              | LumiGEN, ILEVO                             | PI 88788                | Rps 1-k                | P      | LTW                | BR | BR  |       |
| Dairyland | DSR-1820E   | 1.8      | E3                 | 3,4                              | LumiGEN, ILEVO                             | PI 88788                | Rps 1-k                | P      | G                  | BR | IB  |       |
| Dairyland | DSR-1919E   | 1.9      | E3                 | 2,3                              | LumiGEN, ILEVO                             | Peking                  | Rps 1-k                | P      | LTW                | BR | BL  |       |
| Dairyland | DSR-2030E   | 2.0      | E3                 | 2,3,4                            | LumiGEN, ILEVO                             | PI 88788                | Rps 1-c, 3-a           | W      | G                  | BR | BF  |       |
| Dairyland | DSR-2188E   | 2.1      | E3                 | 2,3                              | LumiGEN, ILEVO                             | Peking                  | Rps 1-k                | P      | LTW                | T  | BR  |       |
| Dairyland | DSR-2562E   | 2.5      | E3                 | 2                                | LumiGEN, ILEVO                             | PI 88788                | Rps 1-k                | P      | LTW                | BR | BL  |       |
| Dairyland | DSR-2717E   | 2.7      | E3                 | 2                                | LumiGEN, ILEVO                             | Peking                  | Rps 1-k                | P      | LTW                | T  | BL  |       |
| DONMARIO  | DM 24E23    | 2.4      | E3                 | 2                                | Burrus PowerShield                         | PI 88788                | Rps 1-k                | P      | LTW                | BR | BL  |       |
| DONMARIO  | DM 28E52    | 2.8      | E3                 | 2                                | Burrus PowerShield                         | PI 88788                | Rps 1-k                | P      | G                  | BR | IB  |       |
| Dyna-Gro  | S14XF43     | 1.4      | XF                 | 4                                | Equity VIP, Salstro, Vayantis              | PI 88788                | Rps 1-c, 3-a           | P      | LTW                | BR | BR  |       |
| Dyna-Gro  | S16EN42     | 1.6      | E3                 | 4                                | Equity VIP, Salstro, Vayantis              | PI 88788                | Rps 3-a                | P      | G                  | T  | BF  |       |
| Dyna-Gro  | S17XF02     | 1.7      | XF                 | 4                                | Equity VIP, Salstro, Vayantis              | PI 88788                | Rps 1-c                | P      | LTW                | BR | BR  |       |
| Dyna-Gro  | S18EN52     | 1.8      | E3                 | 3                                | Equity VIP, Salstro, Vayantis              | PI 88788                | Rps 1-c                | P      | G                  | BR | IB  |       |
| Dyna-Gro  | S19XF62     | 1.9      | XF                 | 3                                | Equity VIP, Salstro, Vayantis              | PI 88788                | --                     | P      | G                  | T  | BF  |       |
| Dyna-Gro  | S20EN92     | 2.0      | E3                 | 3                                | Equity VIP, Salstro, Vayantis              | PI 88788                | Rps 1-c                | P      | G                  | BR | IB  |       |

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

<sup>2</sup> Source of SCN Resistance.

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

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# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (4 of 11)

| 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> | Flower | Pubescence | Color <sup>4</sup> | Pod | Hilum |
|----------|----------|----------------|------------------------------|-------------------------------|------------------------------|-------------------------|------------------------|--------|------------|--------------------|-----|-------|
| Dyna-Gro | S21EN81  | 2.1            | E3                           | 2,3                           | Equity VIP, Saltro, Vayantis | PI 88788                | Rps 1-k                | P      | G          | BR                 | IB  |       |
| Dyna-Gro | S23ES32  | 2.3            | E3                           | 2,3                           | Equity VIP, Saltro, Vayantis | PI 88788                | Rps 1-k                | W      | G          | T                  | BF  |       |
| Dyna-Gro | S24XF12  | 2.4            | XF                           | 2                             | Equity VIP, Saltro, Vayantis | PI 88788                | Rps 1-c                | P      | G          | BR                 | IB  |       |
| Dyna-Gro | S25EN02  | 2.5            | E3                           | 2                             | Equity VIP, Saltro, Vayantis | Peking                  | Rps 1-k                | P      | G          | T                  | BF  |       |
| Dyna-Gro | S26EN53  | 2.6            | E3                           | 2                             | Equity VIP, Saltro, Vayantis | PI 88788                | Rps 1-c                | P      | G          | T                  | BF  |       |
| Dyna-Gro | S28EN22  | 2.8            | E3                           | 2                             | Equity VIP, Saltro, Vayantis | PI 88788                | Rps 3-a, 1-k           | W      | G          | T                  | BF  |       |
| FS HiSOY | HS 16F10 | 1.6            | XF                           | 2,3                           | Acceleron F/I, Saltro        | PI 88788                | Rps 1-c                | P      | LTW        | BR                 | BR  |       |
| FS HiSOY | HS 18E00 | 1.8            | E3                           | 2,3                           | Acceleron F/I, Saltro        | PI 88788                | --                     | P      | G          | T                  | IB  |       |
| FS HiSOY | HS 18F20 | 1.8            | XF                           | 2,3                           | Acceleron F/I, Saltro        | PI 88788                | --                     | P      | G          | T                  | BF  |       |
| FS HiSOY | HS 21F20 | 2.1            | XF                           | 2,3                           | Acceleron F/I, Saltro        | PI 88788                | Rps 1-c, 3-a           | P      | G          | T                  | BF  |       |
| FS HiSOY | HS 23E10 | 2.3            | E3                           | 2,3                           | Acceleron F/I, Saltro        | PI 88788                | Rps 1-k                | W      | G          | T                  | BF  |       |
| FS HiSOY | HS 24F00 | 2.4            | XF                           | 2,3                           | Acceleron F/I, Saltro        | PI 88788                | Rps 1-c                | P      | G          | T                  | BF  |       |
| FS HiSOY | HS 25E00 | 2.5            | E3                           | 2                             | Acceleron F/I, Saltro        | PI 88788                | --                     | P      | G          | T                  | IB  |       |
| FS HiSOY | HS 25F10 | 2.5            | XF                           | 2                             | Acceleron F/I, Saltro        | PI 88788                | Rps 1-c                | P      | G          | T                  | G   |       |
| FS HiSOY | HS 28E10 | 2.8            | E3                           | 2                             | Acceleron F/I, Saltro        | PI 88788                | Rps 1-k                | P      | G          | BR                 | IB  |       |
| FS HiSOY | HS 29F10 | 2.9            | XF                           | 2                             | Acceleron F/I, Saltro        | PI 88788                | Rps 1-c                | P      | G          | BR                 | IB  |       |
| Genesis  | G0570E   | 0.5            | E3                           | 5                             | EclipseUS Trio               | PI 88788                | --                     | --     | --         | --                 | --  |       |
| Genesis  | G1070E   | 1.0            | E3                           | 5                             | EclipseUS Trio               | PI 88788                | --                     | P      | G          | T                  | IB  |       |
| Genesis  | G1260E   | 1.2            | E3                           | 4                             | EclipseUS Trio               | PI 88788                | Rps 1-c                | P      | G          | T                  | IB  |       |
| Genesis  | G1560E   | 1.5            | E3                           | 4                             | EclipseUS Trio               | PI 88788                | Rps 3-a                | P      | G          | T                  | BF  |       |
| Genesis  | G1760E   | 1.7            | E3                           | 3,4                           | EclipseUS Trio               | PI 88788                | Rps 3-a                | P      | G          | T                  | BF  |       |
| Genesis  | G1950E   | 1.9            | E3                           | 3                             | EclipseUS Trio               | PI 88788                | --                     | P      | G          | BR                 | IB  |       |
| Genesis  | G1970E   | 1.9            | E3                           | 3                             | EclipseUS Trio               | PI 88788                | Rps 1-k                | P      | LTW        | BR                 | BL  |       |
| Genesis  | G2150E   | 2.1            | E3                           | 3                             | EclipseUS Trio, Saltro       | PI 88788                | Rps 1-k                | P      | G          | T                  | BF  |       |
| Genesis  | G2270E   | 2.2            | E3                           | 3                             | EclipseUS Trio, Saltro       | PI 88788                | Rps 1-c                | P      | LTW        | T                  | BL  |       |

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<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y=Yellow.

## TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (5 of 11)

| Brand          | Entry          | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)            | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Flower | Color <sup>4</sup> |     |       |
|----------------|----------------|----------|--------------------|----------------------------------|------------------------------|-------------------------|------------------------|--------|--------------------|-----|-------|
|                |                | Group    | Trait <sup>1</sup> |                                  |                              |                         |                        |        | Pubescence         | Pod | Hilum |
| Genesis        | G2550E         | 2.5      | E3                 | 2,3                              | EclipseUS Trio, Salto        | PI 88788                | Rps 1-k                | W      | G                  | T   | BF    |
| Genesis        | G2570ES        | 2.5      | E3                 | 2,3                              | EclipseUS Trio, Salto        | PI 88788                | Rps 1-a                | P      | G                  | BR  | BF    |
| Genesis        | G2960E         | 2.9      | E3                 | 2                                | EclipseUS Trio, Salto        | PI 88788                | Rps 1-k                | P      | G                  | BR  | IB    |
| Golden Harvest | GH0933E3 Brand | 0.9      | E3                 | 5                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-k                | P      | G                  | T   | BF    |
| Golden Harvest | GH1323XF Brand | 1.3      | XF                 | 4                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c, 3-a           | P      | LTW                | BR  | BR    |
| Golden Harvest | GH1472E3 Brand | 1.4      | E3                 | 4                                | CruiserMaxx, Salto, Vibrance | Peking                  | Rps 1-c, 3-a           | P      | G                  | T   | BF    |
| Golden Harvest | GH1762XF Brand | 1.7      | XF                 | 4                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | P      | LTW                | BR  | BR    |
| Golden Harvest | GH1802E3 Brand | 1.8      | E3                 | 4                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | P      | G                  | BR  | IB    |
| Golden Harvest | GH2083E3 Brand | 2.0      | E3                 | 3                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | P      | G                  | T   | IB    |
| Golden Harvest | GH2102XF Brand | 2.1      | XF                 | 3                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | W      | LTW                | BR  | BL    |
| Golden Harvest | GH2292E3 Brand | 2.2      | E3                 | 2,3                              | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | P      | G                  | BR  | IB    |
| Golden Harvest | GH2653XF Brand | 2.6      | XF                 | 2                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | P      | G                  | BR  | IB    |
| Golden Harvest | GH2722XF Brand | 2.7      | XF                 | 2                                | CruiserMaxx, Salto, Vibrance | PI 88788                | Rps 1-c                | P      | LTW                | BR  | BL    |
| Impact         | 09E345N        | 0.9      | E3                 | 5                                | YP Pro, Primo R1, Soyfx      | Peking                  | Rps 3-a                | P      | --                 | --  | --    |
| Impact         | 12E157N        | 1.2      | E3                 | 4                                | YP Pro, Primo R1, Soyfx      | PI 88788                | --                     | P      | G                  | BR  | IB    |
| Impact         | 17E335N        | 1.7      | E3                 | 4                                | YP Pro, Primo R1, Soyfx      | PI 88788                | Rps 1-k                | P      | --                 | --  | --    |
| Impact         | 20E343N        | 2.0      | E3                 | 3                                | YP Pro, Primo R1, Soyfx      | PI 88788                | Rps 1-k                | P      | --                 | --  | --    |
| Impact         | 21E162N        | 2.1      | E3                 | 3                                | YP Pro, Primo R1, Soyfx      | PI 88788                | Rps 1-k                | P      | G                  | BR  | IB    |
| Impact         | 28E256N        | 2.8      | E3                 | 2                                | YP Pro, Primo R1, Soyfx      | PI 88788                | Rps 1-k                | P      | G                  | BR  | IB    |
| Jung           | 1063XF         | 0.6      | XF                 | 5                                | Acceleron F/I, ILEVO         | PI 88788                | Rps 1-c                | P      | TW                 | BR  | BL    |
| Jung           | 1072R2X        | 0.7      | RR2X               | 5                                | Acceleron F/I, ILEVO         | PI 88788                | Rps 1-c                | P      | LTW                | BR  | BL    |
| Jung           | 1104XF         | 1.0      | XF                 | 5                                | Acceleron F/I, ILEVO         | PI 88788                | --                     | P      | LTW                | T   | BL    |
| Jung           | 1113XF         | 1.1      | XF                 | 4                                | Acceleron F/I, ILEVO         | PI 88788                | Rps 1-c, Rps-6         | P      | LTW                | BR  | BR    |
| Jung           | 1161R2X        | 1.6      | RR2X               | 4                                | Acceleron F/I, ILEVO         | PI 88788                | Seg. Rps 1-c           | P      | G                  | T   | IB    |
| Jung           | 1184XF         | 1.8      | XF                 | 4                                | Acceleron F/I, ILEVO         | PI 88788                | Rps 1-c                | P      | G                  | TW  | IB    |

All characteristic information is provided by the originator.

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

<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y=Yellow.

# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (6 of 11)

| Brand        | Entry     | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)      | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|--------------|-----------|----------|--------------------|----------------------------------|------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|              |           | Group    | Trait <sup>1</sup> |                                  |                        |                         |                        | Flower             | Pubescence | Pod | Hilum |
| Jung         | 1204XF    | 2.0      | XF                 | 3                                | Acceleron F/I, ILEVO   | PI 88789                | Rps 1-c                | P                  | G          | BR  | IB    |
| Jung         | 1227XF    | 2.2      | XF                 | 3                                | Acceleron F/I, ILEVO   | PI 88788                | Rps 1-c                | P                  | G          | BR  | G     |
| Jung         | 1233XF    | 2.3      | XF                 | 3                                | Acceleron F/I, ILEVO   | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| Jung         | 1244XF    | 2.4      | XF                 | 2                                | Acceleron F/I, ILEVO   | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| Jung         | 1254XF    | 2.5      | XF                 | 2                                | Acceleron F/I, ILEVO   | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| Jung         | 1264XF    | 2.6      | XF                 | 2                                | Acceleron F/I, ILEVO   | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| Legacy Seeds | LS084-22  | 0.8      | XF                 | 5                                | L-Coat Total           | Peking                  | Rps 3-a, 1-k           | P                  | G          | BR  | BF    |
| Legacy Seeds | LS121-22C | 1.2      | CN                 | 7                                | L-Coat Total           | PI 88788                | --                     | P                  | LTW        | T   | BL    |
| Legacy Seeds | LS124-21  | 1.2      | XF                 | 5                                | L-Coat Total           | PI 88788                | Rps 3-a                | P                  | LTW        | BR  | BL    |
| Legacy Seeds | LS134-22  | 1.3      | XF                 | 4,5                              | L-Coat Total           | PI 88788                | Rps 1-c, 3-a           | P                  | LTW        | BR  | BR    |
| Legacy Seeds | LS151-21C | 1.5      | CN                 | 7                                | L-Coat Total           | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BR    |
| Legacy Seeds | LS154-22  | 1.5      | XF                 | 3,4                              | L-Coat Total           | PI 88788                | --                     | P                  | G          | T   | IB    |
| Legacy Seeds | LS174-20  | 1.7      | XF                 | 3,4                              | L-Coat Total           | PI 88788                | Rps 1-c                | P                  | LTW        | T   | BL    |
| Legacy Seeds | LS184-21  | 1.8      | XF                 | 2,3,4                            | L-Coat Total           | PI 88788                | --                     | P                  | G          | T   | BF    |
| Legacy Seeds | LS187-21C | 1.8      | CN                 | 6,7                              | L-Coat Total           | PI 88788                | Rps 1-k                | M                  | G          | T   | CL    |
| Legacy Seeds | LS203-22C | 2.0      | CN                 | 6,7                              | L-Coat Total           | PI 88788                | --                     | P                  | LTW        | T   | BL    |
| Legacy Seeds | LS204-22  | 2.0      | XF                 | 2,3                              | L-Coat Total           | PI 88788                | Rps 1-c, 3-a           | P                  | G          | BR  | IB    |
| Legacy Seeds | LS231-21C | 2.3      | CN                 | 6                                | L-Coat Total           | PI 88788                | Rps 1-a                | P                  | LTW        | BR  | BL    |
| Legacy Seeds | LS260-21C | 2.6      | CN                 | 6                                | L-Coat Total           | PI 88788                | Rps 1-k                | P                  | G          | T   | BF    |
| Legacy Seeds | LS262-21C | 2.6      | CN                 | 6                                | L-Coat Total           | PI 88788                | Rps 1-k                | P                  | G          | T   | CL    |
| LG Seeds     | LGS0988XF | 0.9      | XF                 | 5                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | LTW        | T   | Y     |
| LG Seeds     | LGS1203E3 | 1.2      | E3                 | 5                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c                | P                  | G          | T   | IB    |
| LG Seeds     | LGS1385XF | 1.3      | XF                 | 5                                | AgriShield Max, Saltro | PI 88788                | Rps 1-c, 3-a           | P                  | LTW        | BR  | BR    |
| LG Seeds     | LGS1585XF | 1.5      | XF                 | 4                                | AgriShield Max, Saltro | PI 88788                | Rps 3-a                | P                  | LTW        | BR  | BR    |
| LG Seeds     | LGS1660E3 | 1.6      | E3                 | 4                                | AgriShield Max, Saltro | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |

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

<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y=Yellow.

# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (7 of 11)

| Brand       | Entry     | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)             | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|-------------|-----------|----------|--------------------|----------------------------------|-------------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|             |           | Group    | Trait <sup>1</sup> |                                  |                               |                         |                        | Flower             | Pubescence | Pod | Hilum |
| LG Seeds    | LGS1701E3 | 1.7      | E3                 | 4                                | AgriShield Max, Saltro        | Peking                  | Rps 1-k                | P                  | G          | T   | BF    |
| LG Seeds    | LGS1911XF | 1.9      | XF                 | 3                                | AgriShield Max, Saltro        | PI 88788                | Rps 1-c                | P                  | LTW        | BR  | BL    |
| LG Seeds    | LGS1939E3 | 1.9      | E3                 | 3                                | AgriShield Max, Saltro        | PI 88788                | Rps 1-k                | P                  | LTW        | BR  | BL    |
| LG Seeds    | LGS2025XF | 2.0      | XF                 | 3                                | AgriShield Max, Saltro        | PI 88788                | Rps 1-c                | P                  | G          | T   | G     |
| LG Seeds    | LGS2348E3 | 2.3      | E3                 | 2                                | AgriShield Max, Saltro        | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| LG Seeds    | LGS2577E3 | 2.5      | E3                 | 2                                | AgriShield Max, Saltro        | PI 88788                | Rps 1-k                | W                  | G          | T   | BF    |
| Loyal Brand | L0950E    | 0.9      | E3                 | 5                                | L-Coat Total                  | Peking                  | Rps 3-a                | P                  | G          | T   | BF    |
| Loyal Brand | L1050E    | 1.0      | E3                 | 4,5                              | L-Coat Total                  | PI 88788                | --                     | P                  | G          | T   | IB    |
| Loyal Brand | L1230E    | 1.2      | E3                 | 4,5                              | L-Coat Total                  | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| Loyal Brand | L1540E    | 1.5      | E3                 | 3,4                              | L-Coat Total                  | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| Loyal Brand | L1730E    | 1.7      | E3                 | 3,4                              | L-Coat Total                  | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Loyal Brand | L1740E    | 1.7      | E3                 | 3,4                              | L-Coat Total                  | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| Loyal Brand | L1950E    | 1.9      | E3                 | 3,4                              | L-Coat Total                  | PI 88788                | Rps 1-k                | P                  | LTW        | BR  | BL    |
| Loyal Brand | L2130E    | 2.1      | E3                 | 2,3                              | L-Coat Total                  | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Loyal Brand | L2150E    | 2.1      | E3                 | 2,3                              | L-Coat Total                  | Peking                  | Rps 1-c                | P                  | G          | T   | IB    |
| Loyal Brand | L2250E    | 2.2      | E3                 | 2,3                              | L-Coat Total                  | PI 88788                | Rps 1-c                | P                  | LTW        | T   | BL    |
| Loyal Brand | L2550E    | 2.5      | E3                 | 2                                | L-Coat Total                  | PI 88788                | Rps 1-a                | P                  | G          | BR  | BF    |
| NK          | NK03-V5E3 | 0.3      | E3                 | 5                                | CruiserMaxx, Saltro, Vibrance | PI 88788                | Rps 1-c                | P                  | G          | T   | IB    |
| NK          | NK06-D9E3 | 0.6      | E3                 | 3,4,5                            | CruiserMaxx, Saltro, Vibrance | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| NK          | NK06-P2XF | 0.6      | XF                 | 4,5                              | CruiserMaxx, Saltro, Vibrance | PI 88788                | Rps 1-c                | P                  | LTW        | T   | BL    |
| NK          | NK08-V9E3 | 0.8      | E3                 | 5                                | CruiserMaxx, Saltro, Vibrance | PI 88788                | --                     | P                  | G          | T   | BF    |
| NK          | NK09-B5XF | 0.9      | XF                 | 3,4,5                            | CruiserMaxx, Saltro, Vibrance | PI 88788                | Rps 1-c, 3-a           | P                  | LTW        | BR  | G     |
| NK          | NK09-H7E3 | 0.9      | E3                 | 3,4,5                            | CruiserMaxx, Saltro, Vibrance | PI 88788                | Rps 1-k                | P                  | G          | T   | BF    |
| NK          | NK13-Y4XF | 1.3      | XF                 | 2,3,4                            | CruiserMaxx, Saltro, Vibrance | PI 88788                | Rps 1-c, 3-a           | P                  | LTW        | BR  | BR    |
| NK          | NK14-W6E3 | 1.4      | E3                 | 3,4                              | CruiserMaxx, Saltro, Vibrance | Peking                  | Rps 1-c, 3-a           | P                  | G          | T   | BF    |

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

<sup>2</sup> Source of SCN Resistance.

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# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (8 of 11)

| Brand       | Entry           | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)              | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |                   |
|-------------|-----------------|----------|--------------------|----------------------------------|--------------------------------|-------------------------|------------------------|--------------------|------------|-----|-------------------|
|             |                 | Group    | Trait <sup>1</sup> |                                  |                                |                         |                        | Flower             | Pubescence | Pod | Hilum             |
| NK          | NK18-J7E3       | 1.8      | E3                 | 2,3,4                            | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB                |
| NK          | NK19-D5XF       | 1.9      | XF                 | 2,3                              | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 1-c                | P                  | LTW        | BR  | BL                |
| NK          | NK19-T8E3S      | 1.9      | E3                 | 2,3                              | CruiserMaxx, Saltro, Vibrance  | Peking                  | Rps 1-k                | P                  | G          | BR  | IB                |
| NK          | NK20-B6E3       | 2.0      | E3                 | 2,3                              | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 1-c                | P                  | G          | T   | IB                |
| NK          | NK22-R2E3S      | 2.2      | E3                 | 2,3                              | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 1-c                | P                  | G          | T   | IB                |
| NK          | NK23-T9XF       | 2.3      | XF                 | 2,3                              | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 1-c                | W                  | LTW        | BR  | BL                |
| NK          | NK24-A2E3S      | 2.4      | E3                 | 2,3                              | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 1-a                | P                  | G          | BR  | BF                |
| NK          | NK29-Z4E3       | 2.9      | E3                 | 2                                | CruiserMaxx, Saltro, Vibrance  | PI 88788                | Rps 3-a, 1-k           | P                  | G          | T   | BF                |
| O'Brien     | O'SOY1620GT27LL | 1.6      | LLGT27             | 3,4                              | CruiserMaxx, Vibrance, N-Force | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BR                |
| O'Brien     | O'SOY2153E      | 2.1      | E3                 | 2,3                              | CruiserMaxx, Vibrance, N-Force | --                      | --                     | --                 | --         | --  | --                |
| O'Brien     | O'SOY2421GT27LL | 2.4      | LLGT27             | 2                                | CruiserMaxx, Vibrance, N-Force | PI 88788                | Rps 1-k                | P                  | LTW        | BR  | BL                |
| P3 Genetics | 2322E           | 2.2      | E3                 | 2                                | Profit Guard Plus              | --                      | --                     | --                 | --         | --  | --                |
| P3 Genetics | 2223E           | 2.3      | E3                 | 2                                | Profit Guard Plus              | --                      | --                     | --                 | --         | --  | --                |
| P3 Genetics | 2326E           | 2.6      | E3                 | 2                                | Profit Guard Plus              | --                      | --                     | --                 | --         | --  | --                |
| P3 Genetics | 2229E           | 2.9      | E3                 | 2                                | Profit Guard Plus              | PI 88788                | Rps 1-k                | W                  | LTW        | T   | BR                |
| ProHarvest  | 0985CR2Y        | 0.9      | RR2Y               | 4,5                              | Brute 4000S, Heads Up          | Peking                  | Rps 3-a, 1-k           | P                  | G          | BR  | BF                |
| ProHarvest  | 1638X           | 1.6      | RR2X               | 4                                | Brute 4000S, Heads Up          | PI 88788                | Rps 1-c, 1-k           | P                  | G          | BR  | IB                |
| Public      | MN1410          | 1.4      | CN                 | 6,7                              | Arma                           | --                      | --                     | W                  | G          | BR  | BF                |
| Public      | W16-5282B       | 2.6      | CN                 | 6                                | none                           | --                      | --                     | P                  | LTW        | LTW | BL                |
| Public      | W19-11321       | 2.8      | CN                 | 6                                | none                           | --                      | --                     | P                  | TW         | TW  | BL (BL seed coat) |
| Public      | W19-1190        | 2.5      | CN                 | 6                                | none                           | --                      | --                     | P                  | LTW        | LTW | CL                |
| Public      | W19-1191cl      | 2.5      | CN                 | 6                                | none                           | --                      | --                     | P                  | LTW        | LTW | CL                |
| Public      | W19-1191g       | 2.5      | CN                 | 6                                | none                           | --                      | --                     | P                  | LTW        | LTW | G                 |
| Public      | W19-2484        | 1.5      | CN                 | 6                                | none                           | --                      | --                     | P                  | TW         | TW  | BL                |
| Renk        | RS093NXF        | 0.9      | XF                 | 5                                | EclipseUS Trio                 | PI 88788                | --                     | P                  | LTW        | BR  | BL                |

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# TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (9 of 11)

| Brand  | Entry    | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)      | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|--------|----------|----------|--------------------|----------------------------------|------------------------|-------------------------|------------------------|--------------------|------------|-----|-------|
|        |          | Group    | Trait <sup>1</sup> |                                  |                        |                         |                        | Flower             | Pubescence | Pod | Hilum |
| Renk   | RS153NXF | 1.5      | XF                 | 4                                | EclipseUS Trio         | PI 88788                | --                     | P                  | G          | T   | BL    |
| Renk   | RS183NXF | 1.8      | XF                 | 3,4                              | EclipseUS Trio         | PI 88788                | --                     | P                  | G          | T   | BF    |
| Renk   | RS233NXF | 2.3      | XF                 | 3                                | EclipseUS Trio, Saltro | PI 88788                | Rps 1-c, 3-a           | P                  | G          | BR  | BF    |
| Renk   | RS253NXF | 2.5      | XF                 | 2                                | EclipseUS Trio, Saltro | PI 88788                | Rps 1-c                | P                  | G          | BR  | IB    |
| SB&B   | SB700    | 0.7      | CN                 | 7                                | CruiserMaxx            | --                      | Rps 1-c                | P                  | LTW        | BR  | IY    |
| SB&B   | SB1270   | 1.2      | CN                 | 6,7                              | CruiserMaxx            | --                      | --                     | P                  | G          | T   | Y     |
| SB&B   | SB712    | 1.2      | CN                 | 6,7                              | CruiserMaxx            | PI 88788                | Rps 1-c, 3-a           | P                  | G          | T   | Y     |
| SB&B   | SB19     | 1.5      | CN                 | 6,7                              | CruiserMaxx            | --                      | --                     | P                  | G          | T   | Y     |
| SB&B   | SB49     | 0.4      | CN                 | 7                                | CruiserMaxx            | PI 88788                | Rps 1-c                | P                  | G          | T   | Y     |
| Sevita | Finch    | 0.9      | CN                 | 7                                | Fortenza, VibranceMaxx | --                      | Rps 1-c                | P                  | G          | --  | Y     |
| Sevita | Odessa   | 1.1      | CN                 | 7                                | Fortenza, VibranceMaxx | --                      | --                     | W                  | T          | --  | IY    |
| Sevita | Skyline  | 1.1      | CN                 | 7                                | Fortenza, VibranceMaxx | PI 88788                | Rps 1-c, 3-a           | P                  | G          | --  | Y     |
| Sevita | Barton   | 1.4      | CN                 | 7                                | Fortenza, VibranceMaxx | PI 88788                | --                     | P                  | G          | --  | Y     |
| Sevita | Alinova  | 1.5      | CN                 | 6,7                              | Fortenza, VibranceMaxx | PI 88788                | --                     | P                  | T          | --  | IY    |
| Sevita | Candor   | 1.9      | CN                 | 6                                | Fortenza, VibranceMaxx | --                      | Rps 3-a                | P                  | G          | --  | Y     |
| Sevita | Rowan    | 2.0      | CN                 | 6                                | Fortenza, VibranceMaxx | PI 88788                | Rps 1-c                | P                  | LTW        | --  | IY    |
| Stine  | 08EC02   | 0.8      | E3                 | 5                                | N-Compass F/I, Saltro  | PI 88788                | --                     | P                  | G          | --  | T     |
| Stine  | 09EA02   | 0.9      | E3                 | 5                                | N-Compass F/I, Saltro  | PI 88788                | --                     | P                  | G          | --  | IB    |
| Stine  | 11EC02   | 1.1      | E3                 | 4,5                              | N-Compass F/I, Saltro  | PI 88788                | --                     | P                  | G          | --  | IB    |
| Stine  | 14EE12   | 1.4      | E3                 | 4                                | N-Compass F/I, Saltro  | PI 88788                | --                     | P                  | LTW        | --  | BL    |
| Stine  | 16EC32   | 1.6      | E3                 | 3,4                              | N-Compass F/I, Saltro  | PI 88788                | Rps 1-k                | P                  | G          | --  | IB    |
| Stine  | 17EE32   | 1.7      | E3                 | 4                                | N-Compass F/I, Saltro  | PI 88788                | Rps 3-a                | P                  | G          | --  | BF    |
| Stine  | 19EC12   | 1.9      | E3                 | 2,3                              | N-Compass F/I, Saltro  | PI 88788                | Rps 1-k                | P                  | G          | --  | IB    |
| Stine  | 19EC23   | 1.9      | E3                 | 3                                | N-Compass F/I, Saltro  | PI 88788                | Rps 1-k                | P                  | G          | --  | BL    |
| Stine  | 19EE62   | 1.9      | E3                 | 2,3                              | N-Compass F/I, Saltro  | PI 88788                | Rps 1-k                | P                  | LTW        | --  | BL    |

All characteristic information is provided by the originator.

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

<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY=Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW=Tawny, W=White, Y=Yellow.

## TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (10 of 11)

| Brand  | Entry    | Maturity | Herbicide          | Performance<br>Shown in Table(s) | Seed Treatment(s)                          | SCN Source <sup>2</sup> | PRR Genes <sup>3</sup> | Color <sup>4</sup> |            |     |       |
|--------|----------|----------|--------------------|----------------------------------|--|-------------------------|------------------------|--------------------|------------|-----|-------|
|        |          | Group    | Trait <sup>1</sup> |                                  |  |                         |                        | Flower             | Pubescence | Pod | Hilum |
| Stine  | 25EB32   | 2.5      | E3                 | 2                                | N-Compass F/I, Saltro                      | Peking                  | Rps 1-k                | P                  | G          | --  | BF    |
| Stine  | 26EC32   | 2.6      | E3                 | 2                                | N-Compass F/I, Saltro                      | PI 88788                | Rps 1-k                | P                  | G          | --  | IB    |
| Stine  | 28EC32   | 2.8      | E3                 | 2                                | N-Compass F/I, Saltro                      | PI 88788                | Rps 1-k                | P                  | G          | --  | IB    |
| Tracy  | 1553E    | 1.5      | E3                 | 3                                | Intego Suite, N-Force                      | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| Tracy  | 1752E    | 1.7      | E3                 | 3                                | Intego Suite, N-Force                      | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| Tracy  | 1953E    | 1.9      | E3                 | 3                                | Intego Suite, N-Force                      | PI 88788                | Rps 1-k                | P                  | LTW        | BR  | BL    |
| Tracy  | 2153E    | 2.1      | E3                 | 2                                | Intego Suite, N-Force                      | Peking                  | Rps 1-c                | P                  | G          | T   | IB    |
| Tracy  | 2752E    | 2.7      | E3                 | 2                                | Intego Suite, N-Force                      | PI 88788                | Rps 1-c                | P                  | G          | BR  | BF    |
| Viking | 0821N    | 0.8      | CN                 | 7                                | none                                       | PI 88788                | --                     | P                  | LTW        | T   | BR    |
| Viking | 1223N    | 1.2      | CN                 | 7                                | none                                       | PI 88788                | --                     | P                  | LTW        | T   | BL    |
| Viking | 0.1202N  | 1.2      | CN                 | 7                                | none                                       | PI 88788                | Rps 1-k                | W                  | TW         | BR  | BR    |
| Viking | 1518N    | 1.5      | CN                 | 7                                | none                                       | PI 88788                | --                     | P                  | LTW        | BR  | BR    |
| Viking | 0.1718N  | 1.7      | CN                 | 6,7                              | none                                       | PI 88788                | Rps 1-k                | M                  | LTW        | T   | BR    |
| Viking | 2022N    | 2.0      | CN                 | 6                                | none                                       | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BL    |
| Viking | 2155N    | 2.1      | CN                 | 6                                | none                                       | PI 88788                | --                     | M                  | LTW        | T   | BR    |
| Viking | 0.2244AT | 2.2      | CN                 | 6                                | none                                       | PI 88788                | --                     | P                  | TW         | T   | BL/BR |
| Viking | 2340KN   | 2.3      | CN                 | 6                                | none                                       | Peking                  | Rps 1-k                | P                  | G          | T   | BF    |
| Viking | 2418N    | 2.4      | CN                 | 6                                | none                                       | PI 88788                | Rps 1-c                | P                  | LTW        | BR  | BL    |
| Viking | 0.2702   | 2.7      | CN                 | 6                                | none                                       | --                      | --                     | W                  | LTW        | BR  | BR    |
| Virtue | V1821    | 1.8      | CN                 | 6                                | CruiserMaxx, Vibrance                      | PI 88788                | Rps 1-c                | P                  | G          | BR  | Y     |
| Virtue | V2122    | 2.1      | CN                 | 6                                | CruiserMaxx, Vibrance                      | --                      | Rps 3-a                | W                  | TW         | T   | BR    |
| Virtue | V2423    | 2.4      | CN                 | 6                                | CruiserMaxx, Vibrance                      | PI 88788                | Rps 1-k                | P                  | LTW        | T   | BR    |
| Xitavo | XO 0573E | 0.5      | E3                 | 5                                | Obvius Plus, Poncho/Votivo, Relenia, ILEVO | --                      | Rps 3-a, 1-k           | P                  | G          | BR  | IB    |
| Xitavo | XO 0731E | 0.7      | E3                 | 4,5                              | Obvius Plus, Poncho/Votivo, Relenia, ILEVO | PI 88788                | Rps 1-c, 3-a           | P                  | G          | BR  | IB    |
| Xitavo | XO 0993E | 0.9      | E3                 | 4,5                              | Obvius Plus, Poncho/Votivo, Relenia, ILEVO | Peking                  | Rps 3-a                | P                  | G          | T   | BF    |

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

<sup>2</sup> Source of SCN Resistance.

<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, CL=Clear, G= Gray, IB= Imperfect Black, IY= Imperfect Yellow, LTW= Light Tawny, M= Mixed, P= Purple, T= Tan, TW= Tawny, W=White, Y=Yellow.

## TABLE 10. CONTINUED. 2022 Characteristics of Soybean Varieties (11 of 11)

| 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 |
| Xitavo | XO 1041E | 1.0            | E3                           | 4                             | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | --                     | P                  | G          | BR  | G     |
| Xitavo | XO 1212E | 1.2            | E3                           | 3,4                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-c                | P                  | G          | T   | IB    |
| Xitavo | XO 1372E | 1.3            | E3                           | 3,4                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | --                     | P                  | G          | BR  | IB    |
| Xitavo | XO 1451E | 1.4            | E3                           | 3,4                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Xitavo | XO 1632E | 1.6            | E3                           | 4                             | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| Xitavo | XO 1761E | 1.7            | E3                           | 3,4                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Xitavo | XO 1822E | 1.8            | E3                           | 3,4                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 3-a                | P                  | G          | T   | BF    |
| Xitavo | XO 1971E | 1.9            | E3                           | 2,3                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | --                     | P                  | G          | BR  | IB    |
| Xitavo | XO 2181E | 2.1            | E3                           | 2,3                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Xitavo | XO 2282E | 2.2            | E3                           | 2,3                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | --                     | P                  | G          | T   | BF    |
| Xitavo | XO 2323E | 2.3            | E3                           | 2,3                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-c                | P                  | LTW        | T   | BL    |
| Xitavo | XO 2472E | 2.4            | E3                           | 2,3                           | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-k                | W                  | G          | T   | BF    |
| Xitavo | XO 2501E | 2.5            | E3                           | 2                             | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | --                     | P                  | G          | BR  | IB    |
| Xitavo | XO 2613E | 2.6            | E3                           | 2                             | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-c                | P                  | G          | T   | BF    |
| Xitavo | XO 2832E | 2.8            | E3                           | 2                             | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | PI 88788                | Rps 1-k                | P                  | G          | BR  | IB    |
| Xitavo | XO 2963E | 2.9            | E3                           | 2                             | Obvius Plus, Poncho/Votivo, Relenya, ILEVO | Peking                  | Rps 1-k                | P                  | G          | T   | IB    |

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

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This report is available in Microsoft Excel and Acrobat PDF formats at the Wisconsin Soybean Extension website:  
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