

first TRIALS

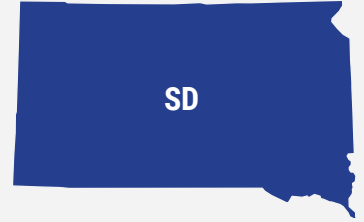
INDEPENDENT CORN AND
SOYBEAN YIELD TESTING

South Dakota Edition



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SDNE, SDEC and SDSE Corn and Soybeans



2023 Performance Summary

FIRST Testing Methodology and Procedures

TESTING PROGRAM

Our testing program compares corn and soybean seed product yield and agronomic performance in grower fields across 16 states: Delaware, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, Pennsylvania, South Dakota and Wisconsin (Figure 1 & Figure 2).

Testing regions have been established to provide similarity by geography and crop maturity. Seed products within a predefined maturity range (e.g., 106 to 116 RM corn or 0.7 to 1.5 maturity soybeans) are pooled into a single, all-season test or split into early- and full-season tests depending on entry volume. Products are planted at five or six corn test locations or four soybean locations within a region.

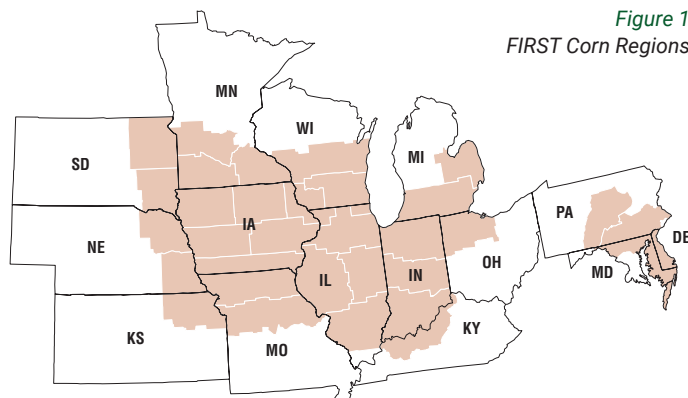


Figure 1
FIRST Corn Regions

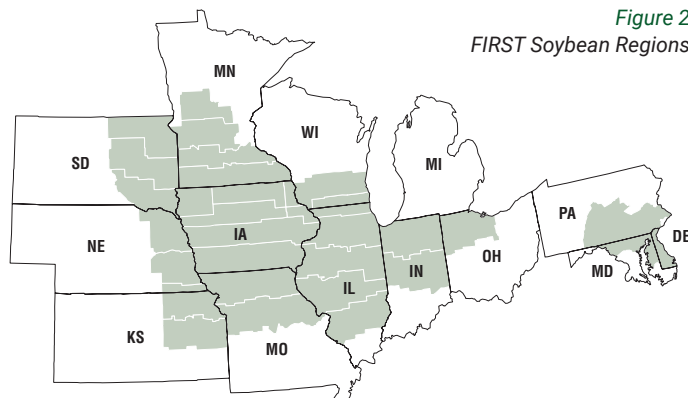


Figure 2
FIRST Soybean Regions

Test locations are selected to represent the geographic diversity within a region. Ideal sites have uniform, well-drained soils where farmer hosts use standard production practices for the area. Typically, all tests at a location are conducted adjacent to each other to minimize yield variance between tests.

Seed companies and/or seed distributors are invited to submit their most promising seed products within specified test maturity limits to desired test regions. They provide high-quality seed from commercial lots and fees to enter FIRST tests. The only exceptions are check products (CK after product names, i.e. A1234 CK), chosen by FIRST Managers to bridge results between early- and full-season tests, and Grower Comparison products (GC after the product name), often provided by host farmers for their knowledge as test space permits.

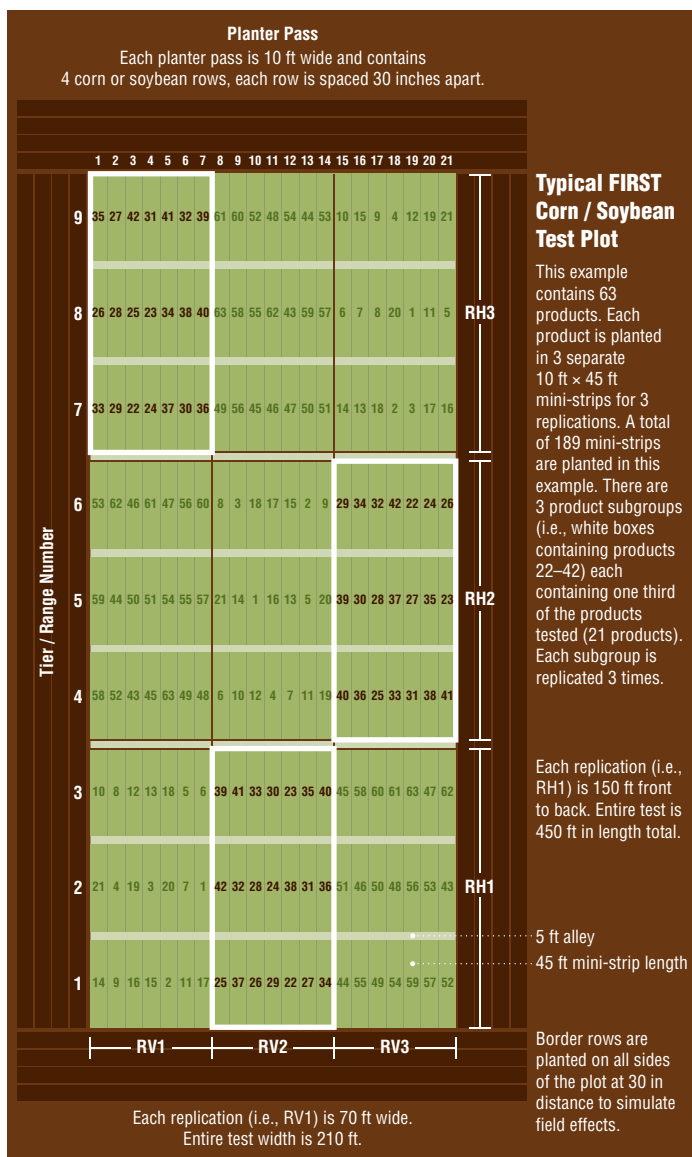
Products are replicated three times minimum per test and grouped in sub-blocks arranged in replication blocks from front to back and side to

side. This provides more precision in yield measurement and flexibility should a disruptive event (i.e., standing water) require elimination of non-uniform test areas.

FIRST Field Managers package, randomize, and plant seeds into host grower fields using slightly modified commercial planting equipment to facilitate mini strip research. Individual plots (a.k.a. mini-strips) contain four corn rows spaced 30-inches apart, 45 feet in length (Figure 3). Soybean is planted in four rows spaced 30-inches apart or seven 15-inch spaced rows. Soil insecticide is typically applied to corn at planting. Seeding rate is based on standard area practices.

FIRST Managers measure yield from the center two corn rows or all soybean rows using customized commercial self-propelled combines. Grain from each plot is electronically weighed and moisture content measured. Soybean grain is sampled from one replicate per test for protein and oil content analysis.

Figure 3 FIRST Test Plot Layout



PERFORMANCE SUMMARIES

FIRST *Corn Grain and Soybean Top 30 Harvest Reports* are designed to identify high-yielding products at a single location. These reports are posted to www.firstseedtests.com generally within 2 days of harvest and provide product information, yield and agronomic results.

The *Corn Grain and Soybean Top 30 Region Summary* reports (Figures 4 & 5) identify products that consistently deliver top performance across a region by averaging product results from all test locations. These corn and soybean regional reports display grain Yield (Bu/A), grain Moisture (%), Lodging (%) and Gross Income (\$/A) averaged over all locations, presented alongside individual site yield results. This report is available shortly after the last *Harvest Report* for a region becomes available at www.firstseedtests.com.

In both reports, products are first ranked by Gross Income (\$/A). The 30 highest ranked Gross Income (\$/A) products are sorted by Yield (Bu/A) for public presentation. Nearly all tests include more than 30 products but only the Top 30 products are reported.

Figure 4 Corn Grain Performance Summary

| EARLY-SEASON TEST 93-98 Day CRM Top 30 of 56 tested | | | | | | | | | | | Results in BOLD are significantly above test average. | | | | |
|---|------------------|------------|-------------------|--------------|--------------|-------------|---------------------|-------------------|----------------|--------------|---|--------------|--------------|--|--|
| Company/Brand | Product/Brand | Technology | Relative Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Gross Income Rank | Test Locations | | | | | | |
| | | | | | | | | | Ear Lake | Clared | Peever | Ripon | Rank | | |
| DAIRYLAND | DS-38100 | QR.B | 98 | 230.2 | 18.3 | 1 | \$784 | 4 | 264.6 | 238.8 | 165.2 | 216.1 | 274.5 | | |
| FEDERAL | 4880 VT2PRB | VT2PB | 98 | 229.4 | 17.4 | 1 | \$784 | 4 | 261.3 | 228.1 | 180.0 | 245.8 | 231.8 | | |
| HEFTY | H432VT2PRB | VT2PB | 93 | 229.2 | 17.0 | 1 | \$788 | 2 | 243.5 | 236.0 | 201.3 | 220.9 | 244.1 | | |
| DAIRYLAND | DS-3550AM | AM.B | 95 | 227.8 | 17.4 | 1 | \$781 | 7 | 259.3 | 242.4 | 179.5 | 223.0 | 235.0 | | |
| JUNG | 470R429 | VT2PB | 97 | 227.7 | 16.9 | 1 | \$782 | 5 | 269.1 | 232.1 | 146.2 | 222.5 | 248.5 | | |
| NORTHSTAR | NS-98-513 STXRIB | STX.B | 98 | 227.2 | 16.7 | 2 | \$782 | 6 | 250.4 | 254.9 | 174.4 | 213.6 | 242.6 | | |
| THUNDER | T6098 VT2P | VT2PB | 98 | 225.5 | 17.1 | 1 | \$775 | 8 | 251.0 | 232.9 | 164.4 | 234.4 | 244.6 | | |
| PIONEER | P9690 GC | QR.B | 96 | 224.3 | 17.0 | 1 | \$771 | 10 | 257.9 | 230.5 | 176.7 | 222.7 | 234.0 | | |
| THUNDER | T6996 VT2P | VT2PB | 96 | 223.9 | 16.7 | 1 | \$772 | 9 | 248.3 | 238.2 | 153.9 | 226.0 | 253.3 | | |
| HEFTY | H4542VT2P | VT2P | 95 | 223.1 | 16.1 | 1 | \$771 | 11 | 257.8 | 238.4 | 155.4 | 215.3 | 248.3 | | |
| LATHAM | LH-4657 VT2P RIB | VT2PB | 96 | 222.6 | 16.8 | 1 | \$767 | 12 | 264.9 | 236.2 | 153.5 | 222.5 | 236.1 | | |
| HEFTY | H4612VT2P | VT2PB | 96 | 222.3 | 16.6 | 1 | \$766 | 13 | 252.9 | 245.9 | 150.5 | 235.9 | 228.0 | | |
| INTEGRA | 4601 VT2P | VT2P | 96 | 222.2 | 16.8 | 2 | \$765 | 14 | 244.1 | 231.6 | 152.8 | 234.1 | 248.2 | | |

Figure 5 Soybean Performance Summary

| ALL-SEASON TEST MATURITY GROUP 1.8-2.5 Top 30 of 72 tested | | | | | | | | | | | Results in BOLD are significantly above test average. | | | | |
|--|-----------------|------------|----------|--------------|--------------|-------------|---------------------|-------------------|----------------|-------------|---|-----------|--|--|--|
| Company/Brand | Product/Brand | Technology | Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Gross Income Rank | Test Locations | | | | | | |
| | | | | | | | | | Arlington | Oregon | Pomona | Warrenton | | | |
| CRENENZ | CZ-2121 GTLL GC | LLGT27 | 2.1 | 68.8 | 11.1 | 6 | \$619 | 72.8 | 61.8 | 73.9 | 66.8 | | | | |
| FS HUSKY | HS-2488B | RRX | 2.2 | 67.6 | 10.8 | 7 | \$599 | 68.1 | 70.5 | 61.1 | 64.8 | | | | |
| GENESIS | G2190GL | LLGT27 | 2.1 | 67.5 | 10.9 | 8 | \$607 | 73.0 | 61.7 | 73.7 | 61.6 | | | | |
| GOLDEN HARVEST | GH2230X | RRX | 2.2 | 66.8 | 11.0 | 6 | \$602 | 64.7 | 66.9 | 70.4 | 65.3 | | | | |
| TITAN PRO | T-20E499 | E3 | 2.2 | 66.7 | 11.3 | 8 | \$600 | 65.3 | 62.4 | 72.5 | 66.5 | | | | |
| PIONEER | P23A15X U | RRX | 2.3 | 66.6 | 11.0 | 8 | \$600 | 67.9 | 63.4 | 65.7 | 69.5 | | | | |
| CRENENZ | CZ-2040 GTLL GC | LLGT27 | 2.0 | 66.4 | 10.8 | 6 | \$598 | 71.7 | 65.8 | 69.5 | 58.7 | | | | |
| GENESIS | G235FE | E3 | 2.5 | 66.4 | 11.1 | 8 | \$598 | 70.2 | 62.9 | 68.9 | 63.7 | | | | |
| LATHAM | L-2549 R2X | RRX | 2.5 | 66.1 | 10.8 | 7 | \$595 | 70.6 | 64.9 | 67.3 | 61.5 | | | | |
| LATHAM | L-2295 R2X | RRX | 2.2 | 65.9 | 10.6 | 9 | \$594 | 69.2 | 62.9 | 70.4 | 61.2 | | | | |
| GENESIS | G2350E | E3 | 2.3 | 65.8 | 11.1 | 8 | \$592 | 64.0 | 64.2 | 67.9 | 67.1 | | | | |
| DAIRYLAND | DSR-2590E | E3 | 2.5 | 65.8 | 11.6 | 12 | \$592 | 62.4 | 68.2 | 69.4 | 63.1 | | | | |
| ASDROW | ASD20W3 U | RRX | 2.0 | 65.7 | 10.9 | 12 | \$591 | 67.6 | 62.0 | 67.0 | 66.2 | | | | |

PERFORMANCE MEASUREMENTS

- A Yield (Bu/A)** – Harvested grain weight and grain moisture are used to convert yield results to bushels per acre at 15% moisture (base moisture) for corn and 13% moisture for soybean. Grain shrinkage is additionally applied to product yields exceeding the base moisture.
- B Moisture (%)** – A calibrated electronic sensor measures moisture content of harvested grain.
- C Lodging (%)** – Estimated percentage of corn plants leaning more than 45° from vertical or stalks broken below the ear at harvest. Encompasses both stalk and root lodging. Estimated soybean plant leaning (0% = all plants vertical, 100% = all plants flat on the ground).
- D Gross Income (\$/A)** – Harvested crop value in dollars per acre is derived by multiplying crop yield and price per bushel minus drying costs, if any, to reach base moisture. Each Harvest Report and Performance Summary details specific crop price and drying costs.
- E Gross Income Rank** – Gross Income values are sorted from high to low then numbered consecutively (1, 2, 3...) from highest to lowest value. Ties are broken based on higher yield, lower lodging and lower moisture values.

For more yield results visit www.firstseedtests.com
FIRST does not make product endorsements.

STATISTICS REPORTED

Least Significant Difference (LSD) is provided on all replicated results to facilitate valid product comparisons. Statistically, the LSD value is the minimum difference needed between two products to declare that one product is greater than another. FIRST calculates LSD at the 10% level (p = 0.10). Product yield differences equal or greater than the LSD (0.10) value would have been greater one versus the other nine times out of 10 (90% probability). Typically, low LSD values indicate high-quality test results. However, keep in mind that LSD values increase as: test yield level increases, p values decrease [i.e. LSD (0.05) value > LSD (0.10) value > LSD (0.25) value] and as data variability increases. Just because LSD values are higher in some tests vs. others does not mean the results are low quality. Multiple factors have a role in LSD value magnitude.

Coefficient of Variance (CV) measures the average difference between the replications of a test entry, averaged for all the entries in the test, then divided by the average of all observations recorded and expressed as a percentage. Higher values indicate more unexplained variability in proportion to the test average than lower values. Researchers within the seed industry may drop yield data from consideration when CV's are above 15% because the unexplained variance is high or the yield level is low or both. Low yield levels at a test site do not estimate yield potential well, nor are there as many or as great a difference between hybrids and varieties compared to higher yield conditions.

Data Rejected – If a data table has “Data Rejected” stamped across it, we have deemed this data is highly variable and of very poor quality, typically due to weather or uncontrolled factors. Rejection decisions are based on statistical analysis of yield results. Data with very high CV and/or low F-test values (the ratio of variability between entry averages divided by the variability between entry replications) are often rejected.

OTHER INFORMATION

Estimated Maturity (corn only) – Product maturity is determined by linear regression comparison of harvest grain moisture and company stated relative maturity (RM). Products with estimated maturity exceeding the test maximum by at least 1 RM are identified in italics. These products may have an unfair yield advantage over peers due to later maturity.

Bold Identified Means – These product means are significantly better than the test average for that measured parameter.

Check Product (CK) – When early- and full-season tests are conducted at a site, an identical check product is planted in both tests. Check yield results allow growers to comparatively view product performance in both early- and full-season tests. No product yield adjustments are made based on check performance.

Grower Comparison (GC) products – These products, identified with a “GC” product name suffix, are often supplied by growers hosting test sites and included when space permits. Grower comparison products allow direct comparison to products in our tests.

United Soybean Board (USB) Products (soybean only) – Products identified with a “S” product name suffix are funded by soybean checkoff dollars. This program strives to gather yield and grain composition results from genetics that otherwise would not be available.

Product Suffix Key

| | |
|-----------|--|
| CK | Check product found in early- and full- season tests |
| GC | Grower Comparison product from farmer cooperators or field manager |
| S | United Soybean Board sponsored entry |

Corn Seed Technology Key

| CODE | DESCRIPTION |
|-------------|---|
| 3010 | Agrisure® 3010 (GT,CB,LL), formerly GT/CB/LL |
| 3011 | Agrisure® 3011 (CB,RW,LL,GT) |
| 3110 | Agrisure® Viptera® 3110 (Vip, CB,LL,GT) |
| 3111 | Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT) |
| A | Agrisure® Artesian® |
| AA | Agrisure® Above (CB,HX,LL,GT), formerly Agrisure® 3120 |
| AT | Agrisure® Total (CB,HXX,RW,LL,GT), formerly Agrisure® 3122 |
| AM | Optimum® AcreMax® (YGCB,HX,LL,RR2) |
| AM1 | Optimum® AcreMax® 1 (HXT,LL,RR2) |
| AML | Optimum® AcreMax® Leptra (Vip,YGCB,HX,LL,RR2) |
| AMT | Optimum® AcreMax® TRIsect |
| AQ | Optimum® AQUAmax® |
| CONV | conventional corn |
| D | Duracade™ (CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5122 |
| DV | DuracadeViptera™ (Vip,CB,HX,RW,RW2,LL,GT), formerly Agrisure Duracade® 5222 |
| DVZ | DuracadeViptera™ Z3 (Vip,CB,VTP,RW,RW2,LL,GT), formerly Agrisure Duracade® 5332 |
| DG | DroughtGard® |
| E | Enlist™ (2,4-D, glyphosate, fop tolerance) |
| GT | Agrisure® GT |
| GTA | Agrisure® GTA |
| PC | PowerCore® (HX,VT2P) |
| PCE | PowerCore® Enlist® (HX,VT2P,2,4-D) |

| | |
|-------------|---|
| QR | Qrome® |
| RR2 | Roundup Ready® 2 Corn |
| STX | SmartStax® (VT3P,HXX) |
| STXP | SmartStax® PRO (VT3P,HXX) |
| TRE | Trecepta® |
| VT2P | VT Double PRO® |
| VT4P | VT4Pro™ with RNAi Technology |
| V | Viptera™ (Vip,CB,HX,LL,GT), formerly Agrisure Viptera® 3220 |
| VZ | Viptera™ Z3 (Vip,CB,VTP,LL,GT), formerly Agrisure Viptera® 3330 |

Soybean Seed Technology Key

| CODE | DESCRIPTION |
|---------------|--|
| CONV | Conventional |
| E3 | Enlist E3® (2,4-D, choline, glyphosate, LL) |
| LLGT27 | LibertyLink® GT27® |
| RR | glyphosate tolerant (formerly Roundup Ready) |
| RR2Y | Roundup Ready 2 Yield® |
| RRX | Roundup Ready 2 Xtend® |
| RXF | Roundup Ready 2 XtendFlex® |
| ST | Sulfonylurea tolerant |

Soybean Cyst Nematode (SCN) Resistance Rating

| CODE | SOYBEAN CYST NEMATODE DESCRIPTION |
|-----------|-----------------------------------|
| NA | information is not available |
| S | susceptible |
| MR | moderate resistance |
| R | resistant |

FIRST would like to thank the United Soybean Board for support and funding for the soybean entry and quality reporting program.

Be the **first** to Get Yield Results



TRUSTED



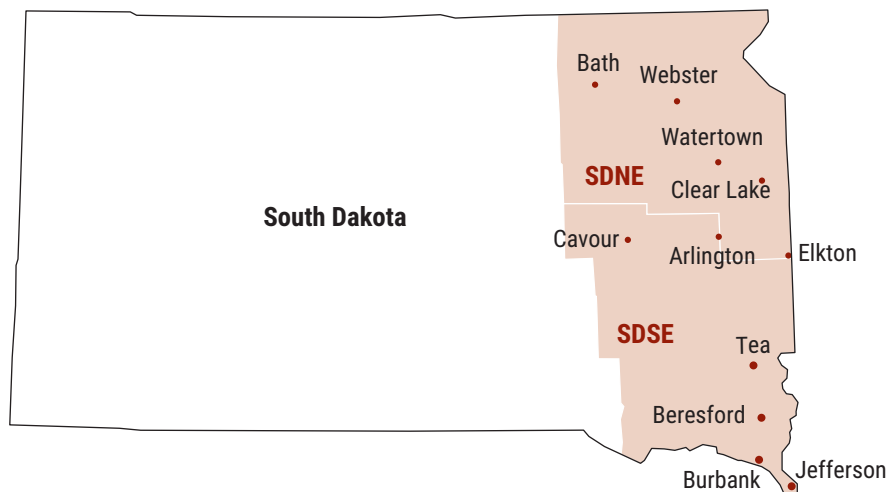
ACCESS



FAST

www.firstseedtests.com

CORN REGIONS: SDNE, SDSE



Site Description: SDNE (See corn results table on page 6)

| Site | FIRST Farmers | Soil Texture | Tillage | Previous Crop | Total Nitrogen (lbs) | Date Planted | Date Harvested | Average | | Yield History | |
|------------|---------------|-----------------|--------------|---------------|----------------------|--------------|----------------|---------------|-------------|---------------|-----------|
| | | | | | | | | Stand × 1,000 | Yield | Bu/A | Years |
| Arlington | Tim Bjorklund | silty clay loam | no-till | soybeans | 64 | May 8 | Nov 10 | 30.3 | 197.8 | 180.2 | 12 |
| Bath | Scott Sperry | silt loam | strip till | soybeans | 156 | May 16 | Nov 09 | 30.8 | 219.0 | 205.2 | 22 |
| Clear Lake | Greg Lanners | loam | conventional | oats | 175 | May 17 | Oct 25 | 30.9 | 170.7 | 191.3 | 18 |
| Elkton | Jim Johansen | silty clay loam | conventional | wheat | 150 | May 9 | Oct 17 | 30.4 | 122.0 | 186.4 | 2 |
| Watertown | Myron Keltgen | loam | minimum | soybeans | 211 | May 10 | Oct 22 | 31.0 | 202.1 | 208.5 | 13 |
| Webster | Fred Zenk | silty clay | no-till | soybeans | 140 | May 16 | Nov 08 | 27.3 | 143.1 | 166.1 | 15 |
| | | | | | | | | | SDNE | 182.5 | 22 |

Site Description: SDSE (See corn results table on page 7)

| Site | FIRST Farmers | Soil Texture | Tillage | Previous Crop | Total Nitrogen (lbs) | Date Planted | Date Harvested | Average | | Yield History | |
|-----------|-----------------|-----------------|--------------|---------------|----------------------|--------------|----------------|---------------|-------------|---------------|-----------|
| | | | | | | | | Stand × 1,000 | Yield | Bu/A | Years |
| Beresford | Jason Frick | silty clay loam | no-till | soybeans | – | May 4 | NR | NR | NR | 166.5 | 19 |
| Burbank | Tom Hall | silt loam | minimum | soybeans | 120 | May 4 | Nov 4 | 28.2 | 220.6 | 162.2 | 2 |
| Cavour | Greg Bich | sandy loam | no-till | soybeans | – | May 5 | NR | NR | NR | 150.5 | 15 |
| Jefferson | Austin Chicoine | silty clay | strip till | soybeans | 180 | May 3 | Nov 07 | 31.3 | 247.6 | – | new site |
| Tea | Ryan Bonsall | silty clay loam | conventional | soybeans | 225 | May 5 | Nov 1 | 29.8 | 211.4 | – | new site |
| | | | | | | | | | SDSE | 186.9 | 19 |

CORN REGIONAL ANNUAL YIELD AVERAGES FOR 2019–2023

| FIRST Region | Average Yield by Year (Bu/A) | | | | | Since Inception | |
|--------------|------------------------------|-------|-------|-------|-------|-----------------|--------|
| | 2023 | 2022 | 2021 | 2020 | 2019 | Bu/A | #Years |
| SDNE | 180.0 | 201.7 | 210.5 | 218.3 | 169.4 | 182.5 | 22 |
| SDSE | 226.7 | 199.7 | 191.9 | 221.3 | 167.3 | 186.9 | 19 |

Corn Results: SDNE (See site description on page 5)

EARLY-SEASON TEST 91–95 Day CRM | Top 30 of 43 tested

Results in BOLD are significantly above test average.

| Company/ Brand | Product/ Brand | Technology | Relative Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Gross Income Rank | Results in BOLD are significantly above test average. | | | | | |
|----------------|----------------|------------|-------------------|--------------|--------------|-------------|---------------------|-------------------|---|--------------|-------------------------|--------------|--------------|----------------------|
| | | | | | | | | | Arlington | Bath | Clear Lake ^a | Elkton | Watertown | Webster ^a |
| Heine | 6350 | VT2P | 97 | 192.2 | 17.7 | 3 | \$833 | 1 | 212.0 | 207.9 | 178.8 | 131.9 | 248.7 | 173.6 |
| Chargen | VX9131 | DV | 91 | 191.5 | 18.1 | 3 | \$825 | 2 | 197.4 | 229.3 | 194.4 | 131.2 | 234.3 | 162.7 |
| Heine | 6215 | VT2P | 95 | 189.9 | 18.5 | 7 | \$813 | 3 | 191.2 | 220.9 | 188.2 | 132.1 | 227.2 | 179.5 |
| Golden Harvest | G91V51-DV | DV | 91 | 187.3 | 18.5 | 3 | \$801 | 7 | 184.4 | 237.3 | 188.5 | 136.3 | 205.7 | 171.3 |
| Heine | 6330DGVT2PRIB | VT2PDG | 95 | 186.2 | 18.0 | 4 | \$803 | 5 | 211.9 | 222.3 | 179.1 | 119.3 | 234.3 | 150.6 |
| Dairyland | DS-3599Q | QR | 95 | 185.4 | 17.5 | 2 | \$805 | 4 | 194.7 | 207.0 | 202.6 | 132.9 | 221.5 | 153.5 |
| Jacobsen | JS7045VT2PRO | VT2P | 95 | 184.5 | 17.4 | 4 | \$803 | 6 | 208.7 | 214.4 | 169.2 | 129.9 | 233.6 | 151.1 |
| Enestvedt | E612RR | RR2 | 92 | 184.4 | 17.5 | 4 | \$801 | 8 | 200.5 | 216.0 | 170.1 | 133.7 | 237.1 | 148.7 |
| REA | 95B53 | VT2P | 95 | 184.1 | 18.0 | 5 | \$794 | 9 | 191.7 | 228.6 | 182.3 | 123.3 | 219.6 | 159.1 |
| Hefty | H4564 | STX | 95 | 182.4 | 18.6 | 4 | \$780 | 11 | 204.8 | 224.8 | 166.4 | 125.0 | 207.1 | 166.5 |
| REA | 92B10 | VT2P | 92 | 180.9 | 17.4 | 5 | \$788 | 10 | 195.9 | 220.6 | 162.1 | 130.0 | 220.0 | 157.0 |
| Renk | RK561DGV2P | VT2PDG | 95 | 179.9 | 18.8 | 4 | \$772 | 13 | 204.0 | 224.2 | 159.2 | 129.9 | 237.2 | 124.8 |
| Rob-See-Co | RC4213-AA | AA | 92 | 179.5 | 17.8 | 5 | \$775 | 12 | 211.0 | 213.8 | 174.6 | 114.4 | 202.1 | 160.8 |
| Rob-See-Co | RC4518-VT2P | VT2P | 95 | 178.2 | 17.8 | 9 | \$772 | 14 | 207.4 | 205.6 | 164.1 | 122.4 | 220.3 | 149.3 |
| Hefty | H4332 | VT2P | 93 | 178.2 | 18.3 | 3 | \$768 | 16 | 200.3 | 209.9 | 168.9 | 118.6 | 232.7 | 138.6 |
| Dairyland | DS-3203AM | AM | 92 | 177.2 | 17.6 | 4 | \$769 | 15 | 200.0 | 204.0 | 171.7 | 133.3 | 191.6 | 162.8 |
| Heine | 6450 | STX | 95 | 176.6 | 18.6 | 4 | \$755 | 22 | 204.3 | 212.9 | 168.5 | 105.2 | 221.4 | 147.0 |
| Jacobsen | JS5044DGVT2P | VT2PDG | 95 | 176.0 | 18.5 | 6 | \$757 | 20 | 195.6 | 205.6 | 171.3 | 121.8 | 236.8 | 124.9 |
| Hefty | H4264 | STX | 92 | 176.0 | 17.5 | 4 | \$765 | 17 | 198.2 | 198.3 | 172.8 | 125.7 | 213.2 | 148.0 |
| Dairyland | DS-3477AM | AM | 94 | 175.4 | 17.4 | 3 | \$764 | 18 | 165.6 | 205.1 | 180.0 | 134.5 | 227.6 | 139.9 |
| Renk | RK502SSTX | STX | 95 | 174.6 | 17.7 | 4 | \$756 | 21 | 188.9 | 218.6 | 141.2 | 125.8 | 218.2 | 155.1 |
| Augusta | A2140-D | D | 90 | 174.6 | 18.3 | 12 | \$751 | 25 | 199.9 | 214.5 | 182.8 | 109.4 | 210.4 | 130.7 |
| Hefty | H4562 | VT2P | 95 | 174.2 | 17.8 | 4 | \$754 | 23 | 187.5 | 217.3 | 187.8 | 121.7 | 207.9 | 123.0 |
| Renk | RK444VT2P | VT2P | 93 | 173.6 | 18.3 | 7 | \$743 | 27 | 184.5 | 215.0 | 163.6 | 103.8 | 193.8 | 181.1 |
| Heine | 6200 | VT2P | 95 | 173.5 | 17.8 | 4 | \$751 | 24 | 203.5 | 205.4 | 167.3 | 122.2 | 200.7 | 141.8 |
| Thunder | T8494 SSP | STXP | 94 | 173.2 | 17.6 | 6 | \$751 | 26 | 183.1 | 209.8 | 166.9 | 121.9 | 204.1 | 153.5 |
| Thunder | TEX23-94 | VT2P | 94 | 170.7 | 17.9 | 4 | \$739 | 28 | 186.3 | 202.5 | 171.9 | 117.8 | 209.7 | 136.0 |
| Rob-See-Co | RC4185-VT2P | VT2P | 91 | 170.6 | 18.1 | 2 | \$739 | 29 | 210.6 | 203.5 | 155.1 | 126.8 | 223.4 | 104.1 |
| LG Seeds | LG42C80VT2PRIB | VT2P | 92 | 169.6 | 17.8 | 7 | \$738 | 31 | 193.6 | 200.1 | 158.9 | 131.3 | 223.5 | 110.3 |
| Jacobsen | JS9263VT2PRO | VT2P | 92 | 169.6 | 17.3 | 5 | \$739 | 30 | 182.5 | 213.7 | 165.7 | 124.7 | 190.8 | 140.4 |
| DeKalb | DKC50-87RIB CK | STX | 100 | 179.7 | 19.2 | 2 | \$762 | 19 | 185.9 | 210.2 | 169.7 | 130.1 | 220.1 | 162.1 |
| Averages = | | | | 176.0 | 18.0 | 5 | \$760 | | 195.7 | 210.7 | 170.8 | 123.9 | 211.9 | 142.4 |
| LSD (0.10) = | | | | 10.2 | 0.5 | 2.8 | | | 14.2 | 15.5 | 14.2 | 10.1 | 21.5 | 24.5 |

FULL-SEASON TEST 96–100 Day CRM | Top 30 of 44 tested

Results in BOLD are significantly above test average.

| | | | | | | | | | | | | | | |
|----------------|----------------|--------|-----|--------------|-------------|----------|--------------|-----------|--------------|--------------|--------------|--------------|--------------|--------------|
| Dairyland | DS-3881AM | AM | 98 | 200.8 | 17.9 | 3 | \$863 | 2 | 221.0 | 237.1 | 168.6 | 136.1 | 209.1 | 153.7 |
| Golden Harvest | G97B68-DV | DV | 97 | 200.3 | 17.8 | 6 | \$864 | 1 | 214.7 | 234.9 | 175.0 | 124.3 | 227.5 | 105.6 |
| Heine | 6650 | TRE | 99 | 199.7 | 17.7 | 3 | \$862 | 3 | 210.7 | 227.0 | 178.2 | 119.8 | 241.5 | 174.5 |
| REA | 98A15 | STX | 98 | 195.7 | 17.6 | 3 | \$844 | 4 | 217.6 | 240.5 | 172.2 | 138.8 | 185.8 | 137.9 |
| Thunder | T6300 VT2P | VT2P | 100 | 194.3 | 17.9 | 10 | \$835 | 7 | 206.1 | 232.2 | 188.6 | 120.6 | 218.2 | 125.0 |
| Hefty | H4653 RIB | VT2PDG | 96 | 194.1 | 17.6 | 4 | \$839 | 5 | 205.5 | 231.6 | 169.4 | 119.8 | 219.8 | 131.9 |
| Heine | 6575VT2PRIB | VT2P | 99 | 192.9 | 17.4 | 14 | \$834 | 8 | 220.4 | 247.6 | 154.4 | 120.8 | 182.9 | 139.1 |
| Jacobsen | JS9723TRE | TRE | 97 | 191.8 | 16.8 | 2 | \$837 | 6 | 203.9 | 225.8 | 165.1 | 123.1 | 214.4 | 166.2 |
| Renk | RK590VT2P | VT2P | 98 | 191.8 | 17.1 | 9 | \$832 | 9 | 216.9 | 235.4 | 167.3 | 122.2 | 192.6 | 170.4 |
| Dairyland | DS-4003Q | QR | 100 | 191.7 | 18.2 | 4 | \$821 | 12 | 215.6 | 230.7 | 160.1 | 119.9 | 200.5 | 120.8 |
| Dairyland | DS-3900AM | AM | 99 | 191.6 | 18.2 | 11 | \$821 | 13 | 193.8 | 224.4 | 166.3 | 128.6 | 219.9 | 146.2 |
| Heine | 6760 | TRE | 97 | 190.5 | 17.1 | 3 | \$826 | 10 | 178.3 | 246.1 | 179.2 | 121.3 | 216.5 | 134.9 |
| Thunder | T6999 VT2P | VT2P | 99 | 190.0 | 17.2 | 8 | \$824 | 11 | 216.6 | 233.0 | 167.1 | 117.2 | 193.2 | 126.4 |
| DeKalb | DKC50-88RIB GC | VT2P | 100 | 189.1 | 18.1 | 2 | \$810 | 18 | 209.0 | 225.2 | 163.3 | 131.6 | 190.7 | 172.2 |
| Hefty | H5062 | VT2P | 100 | 188.5 | 17.9 | 6 | \$811 | 17 | 177.3 | 231.2 | 136.9 | 120.3 | 225.4 | 141.8 |
| Renk | RK582SSTX | STX | 98 | 188.1 | 17.3 | 5 | \$817 | 14 | 189.3 | 235.0 | 159.5 | 125.7 | 202.4 | 171.9 |
| Heine | 6725PWE | PCE | 97 | 187.9 | 17.5 | 7 | \$811 | 16 | 204.6 | 237.1 | 182.5 | 131.7 | 178.2 | 124.0 |
| Jacobsen | JS7096VT2PRO | VT2P | 97 | 187.5 | 17.4 | 5 | \$813 | 15 | 199.3 | 221.6 | 168.4 | 118.4 | 210.9 | 148.2 |
| Enestvedt | E600DP RIB | VT2P | 99 | 186.5 | 17.2 | 17 | \$808 | 21 | 217.7 | 235.7 | 158.7 | 104.7 | 188.0 | 145.9 |
| Hefty | H4964 | STXP | 99 | 186.3 | 17.1 | 5 | \$809 | 19 | 225.8 | 229.1 | 159.7 | 124.9 | 165.4 | 146.2 |
| REA | 98T64 | TRE | 98 | 185.9 | 17.3 | 2 | \$806 | 22 | 198.5 | 209.0 | 166.4 | 130.8 | 205.3 | 130.9 |
| Rob-See-Co | D98-43-TRE | TRE | 98 | 185.2 | 17.5 | 4 | \$801 | 23 | 198.2 | 233.2 | 172.2 | 122.8 | 186.5 | 150.8 |
| LG Seeds | LG47C77VT2RIB | VT2P | 97 | 184.5 | 16.6 | 7 | \$808 | 20 | 192.0 | 216.3 | 188.3 | 121.3 | 208.5 | 151.1 |
| LG Seeds | LG5465VT2RIB | VT2P | 97 | 183.0 | 17.2 | 6 | \$795 | 24 | 200.0 | 213.3 | 170.7 | 121.1 | 197.7 | 114.5 |
| Rob-See-Co | RC4937-SSP | STXP | 99 | 182.2 | 17.5 | 5 | \$787 | 28 | 190.5 | 229.2 | 156.6 | 118.0 | 190.9 | 120.1 |
| Renk | RK579DGVT2P | VT2PDG | 99 | 182.1 | 17.9 | 4 | \$781 | 30 | 206.5 | 205.5 | 178.5 | 114.0 | 202.5 | 164.5 |
| Heine | 6815PWE | PCE | 98 | 181.6 | 17.6 | 10 | \$784 | 29 | 200.8 | 230.9 | 159.6 | 123.5 | 171.2 | 97.3 |
| Thunder | T6497 TRE | TRE | 97 | 180.5 | 16.8 | 3 | \$788 | 27 | 189.9 | 210.2 | 166.0 | 124.4 | 197.7 | 133.6 |
| REA | 96A79 | STX | 96 | 180.2 | 16.5 | 3 | \$790 | 26 | 195.6 | 215.3 | 176.7 | 123.3 | 186.8 | 141.7 |
| Renk | RK597SSPRO | STXP | 99 | 179.7 | 17.2 | 4 | \$780 | 31 | 198.8 | 213.1 | 165.2 | 120.3 | 186.7 | 164.4 |
| DeKalb | DKC50-87RIB CK | STX | 100 | 184.3 | 17.8 | 2 | \$793 | 25 | 204.5 | 223.7 | 177.9 | 117.9 | 191.0 | 144.3 |
| Averages = | | | | 184.9 | 17.5 | 6 | \$798 | | 199.8 | 226.4 | 167.1 | 119.7 | 192.6 | 143.0 |
| LSD (0.10) = | | | | 12.9 | 0.4 | 5.1 | | | 18.9 | 15.3 | 19.9 | 10.9 | 27.6 | 32.9 |

^aFull-season test results rejected, not included in summary. Clear Lake—yield variability from wind damage. Webster—yield variability.

Corn Results: SDSE (See site description on page 5)

EARLY-SEASON TEST 98–102 Day CRM | Top 30 of 56 tested Results in BOLD are significantly above test average.

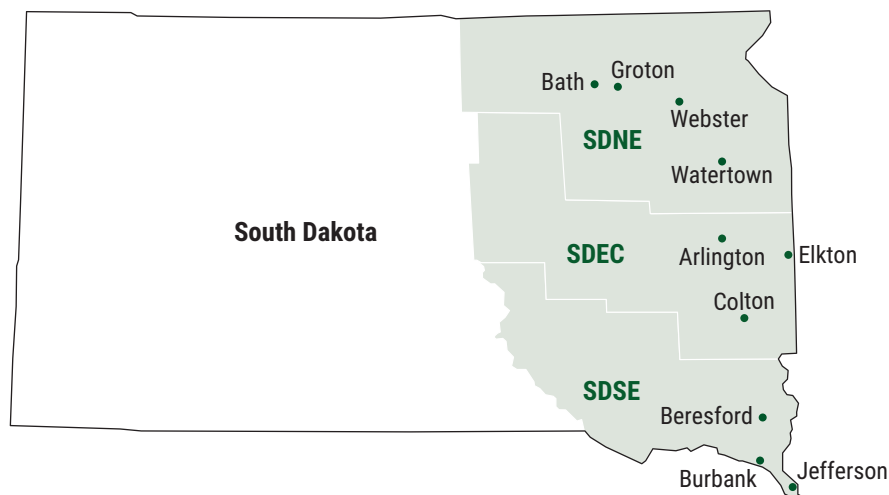
| Company/ Brand | Product/ Brand | Technology | Relative Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Gross Income Rank | Beresford* | Burbank | Cavour* | Jefferson | Tea† |
|---------------------|----------------|------------|-------------------|--------------|--------------|-------------|---------------------|-------------------|------------|--------------|---------|--------------|--------------|
| Jacobsen | JS5206DGVT2P | VT2PDG | 102 | 239.8 | 14.2 | 2 | \$1,080 | 1 | — | 246.8 | — | 242.4 | 230.4 |
| Wyffels | W2595 | TRE | 101 | 239.5 | 14.2 | 2 | \$1,078 | 2 | — | 213.2 | — | 255.8 | 249.5 |
| Thunder | T6999 VT2P | VT2P | 99 | 237.0 | 14.4 | 1 | \$1,066 | 3 | — | 223.7 | — | 245.9 | 241.4 |
| Renk | RK590VT2P | VT2P | 98 | 236.0 | 14.2 | 1 | \$1,062 | 4 | — | 237.4 | — | 251.6 | 219.1 |
| Jacobsen | JS0223VT2P | VT2P | 102 | 235.8 | 14.3 | 1 | \$1,061 | 5 | — | 226.6 | — | 250.8 | 230.1 |
| Renk | RK582SSTX | STX | 98 | 235.8 | 14.2 | 2 | \$1,061 | 6 | — | 236.8 | — | 244.4 | 226.2 |
| Viking Blue River | 44-98 | CONV | 98 | 235.5 | 14.4 | 2 | \$1,059 | 7 | — | 234.7 | — | 247.9 | 223.9 |
| Wyffels | W1826 | VT2P | 97 | 234.4 | 14.3 | 1 | \$1,054 | 8 | — | 225.5 | — | 242.6 | 235.2 |
| Dairyland | DS-4219AM | AM | 102 | 234.2 | 14.4 | 2 | \$1,053 | 9 | — | 216.4 | — | 249.7 | 236.7 |
| Wyffels | W1988 | STX | 98 | 233.9 | 14.4 | 1 | \$1,052 | 10 | — | 228.2 | — | 252.2 | 221.4 |
| Heine | 7480 | VT2PDG | 102 | 233.6 | 14.3 | 2 | \$1,051 | 11 | — | 232.0 | — | 241.2 | 227.7 |
| Wyffels | W1996RIB | VT2P | 98 | 233.4 | 14.1 | 1 | \$1,051 | 12 | — | 230.6 | — | 253.7 | 216.0 |
| Hefty | H4933 RIB | VT2PDG | 99 | 232.1 | 14.4 | 2 | \$1,045 | 13 | — | 214.0 | — | 236.6 | 245.9 |
| Dairyland | DS-3900AM | AM | 99 | 231.6 | 14.5 | 1 | \$1,042 | 14 | — | 220.0 | — | 243.9 | 230.9 |
| Hefty | H5254 | STX | 102 | 231.5 | 14.4 | 1 | \$1,041 | 15 | — | 212.5 | — | 252.8 | 229.4 |
| Thunder | T6498 PC | PCE | 98 | 230.8 | 14.0 | 1 | \$1,039 | 16 | — | 230.4 | — | 250.3 | 211.8 |
| Thunder | T6301 AA | AA | 101 | 230.2 | 14.6 | 1 | \$1,035 | 17 | — | 217.4 | — | 238.6 | 234.8 |
| REA | 101P51 | STXP | 101 | 229.3 | 14.5 | 2 | \$1,030 | 18 | — | 203.5 | — | 262.7 | 221.8 |
| Viking Blue River | 24-01 | CONV | 101 | 228.9 | 14.3 | 2 | \$1,030 | 19 | — | 233.0 | — | 244.6 | 209.1 |
| Thunder | T6902 VT2P | VT2P | 102 | 227.9 | 14.3 | 1 | \$1,024 | 20 | — | 212.9 | — | 246.1 | 224.6 |
| Heine | 7450 | VT2P | 104 | 227.3 | 14.2 | 2 | \$1,023 | 21 | — | 211.5 | — | 248.9 | 221.6 |
| Renk | RK579DGVT2P | VT2PDG | 99 | 227.1 | 14.3 | 1 | \$1,022 | 22 | — | 234.4 | — | 240.7 | 206.4 |
| REA | 98A15 | STX | 98 | 226.6 | 14.4 | 1 | \$1,018 | 23 | — | 222.2 | — | 237.0 | 220.5 |
| Viking Blue River | 46-02 | CONV | 102 | 226.2 | 14.4 | 1 | \$1,016 | 24 | — | 214.7 | — | 234.9 | 228.9 |
| Wyffels | W2629 | STXP | 101 | 225.5 | 14.4 | 2 | \$1,014 | 25 | — | 203.1 | — | 248.9 | 224.6 |
| DeKalb | DKC50-87RIB GC | STX | 100 | 224.9 | 14.5 | 2 | \$1,011 | 27 | — | 220.7 | — | 230.2 | 223.8 |
| Renk | RK600VT2P | VT2P | 100 | 224.9 | 14.2 | 2 | \$1,012 | 26 | — | 212.3 | — | 250.4 | 212.0 |
| REA | 98T64 | TRE | 98 | 224.3 | 14.3 | 1 | \$1,009 | 28 | — | 208.0 | — | 255.9 | 209.1 |
| DenBesten | DB34-92 | CONV | 92 | 224.0 | 14.3 | 1 | \$1,008 | 29 | — | 223.5 | — | 241.8 | 206.8 |
| Hefty | H4964 | STXP | 99 | 223.7 | 14.2 | 1 | \$1,007 | 30 | — | 208.8 | — | 249.5 | 212.8 |
| DeKalb | DKC52-18RIB CK | STX | 102 | 221.7 | 14.7 | 1 | \$994 | 38 | — | 207.2 | — | 256.1 | 201.9 |
| Averages = | | | | 223.8 | 14.4 | 1 | \$1,006 | | | 211.1 | | 243.4 | 216.9 |
| LSD (0.10) = | | | | 12.9 | 0.2 | 1.6 | | | | 25.4 | | 9.3 | 19.3 |

FULL-SEASON TEST 103–108 Day CRM | Top 30 of 54 tested Results in BOLD are significantly above test average.

| | | | | | | | | | | | | | |
|---------------------|-----------------|--------|-----|--------------|-------------|----------|----------------|----|---|--------------|---|--------------|--------------|
| Wyffels | W5406 | VT2P | 108 | 261.5 | 15.2 | 2 | \$1,172 | 1 | — | 263.8 | — | 272.1 | 248.7 |
| Dairyland | DS-4686AM | AM | 106 | 253.3 | 14.5 | 3 | \$1,140 | 2 | — | 240.2 | — | 274.4 | 245.3 |
| DeKalb | DKC107-33RIB GC | STXP | 107 | 250.3 | 14.8 | 1 | \$1,124 | 3 | — | 265.7 | — | 268.5 | 216.6 |
| Rob-See-Co | RC5694-VT2P | VT2P | 106 | 246.1 | 15.0 | 1 | \$1,105 | 4 | — | 258.2 | — | 256.6 | 223.5 |
| DenBesten | DB34-06 | CONV | 106 | 245.2 | 15.2 | 1 | \$1,101 | 5 | — | 278.1 | — | 249.5 | 208.0 |
| REA | 107B83 | VT2P | 107 | 244.3 | 14.9 | 1 | \$1,095 | 7 | — | 247.7 | — | 255.2 | 230.0 |
| Renk | RK703PWE | PCE | 106 | 243.8 | 14.8 | 1 | \$1,096 | 6 | — | 266.8 | — | 246.7 | 217.9 |
| Hefty | H5862 | VT2P | 108 | 242.0 | 15.3 | 2 | \$1,082 | 8 | — | 257.3 | — | 265.0 | 203.6 |
| REA | 105B51 | VT2P | 105 | 238.8 | 14.3 | 1 | \$1,074 | 9 | — | 243.3 | — | 253.6 | 219.6 |
| Rob-See-Co | RC5836-VT2P | VT2P | 108 | 237.9 | 14.9 | 1 | \$1,066 | 12 | — | 235.6 | — | 258.1 | 220.1 |
| Heine | 7650VT2PRO | VT2P | 106 | 237.9 | 14.9 | 2 | \$1,067 | 10 | — | 221.3 | — | 252.1 | 240.2 |
| Renk | RK625DGVT2P | VT2PDG | 104 | 237.4 | 14.3 | 2 | \$1,067 | 11 | — | 226.6 | — | 251.6 | 234.0 |
| Dairyland | DS-4833AM | AM | 108 | 237.3 | 14.7 | 1 | \$1,066 | 13 | — | 258.0 | — | 268.9 | 184.9 |
| Wyffels | W3309 | STXP | 103 | 236.6 | 14.5 | 1 | \$1,065 | 14 | — | 235.0 | — | 271.4 | 203.3 |
| Hefty | H5432 | VT2P | 104 | 236.4 | 14.4 | 1 | \$1,063 | 15 | — | 237.1 | — | 251.9 | 220.1 |
| Wyffels | W3576RIB | VT2P | 103 | 235.4 | 15.3 | 1 | \$1,050 | 17 | — | 230.6 | — | 259.8 | 215.7 |
| Renk | RK707TRE | TRE | 105 | 234.0 | 14.4 | 1 | \$1,052 | 16 | — | 248.2 | — | 253.7 | 200.2 |
| Heine | 7740 | PCE | 107 | 233.7 | 15.2 | 2 | \$1,047 | 18 | — | 249.6 | — | 248.4 | 203.0 |
| Jacobsen | JS7420VT2PRO | VT2P | 107 | 232.6 | 15.4 | 2 | \$1,040 | 21 | — | 231.2 | — | 245.2 | 221.5 |
| Jacobsen | JS0513TRE | TRE | 107 | 232.6 | 14.8 | 2 | \$1,045 | 19 | — | 234.8 | — | 250.3 | 212.7 |
| Rob-See-Co | D03-07-VT2P | VT2P | 103 | 232.1 | 14.5 | 2 | \$1,043 | 20 | — | 236.3 | — | 251.2 | 209.0 |
| Rob-See-Co | RC5448-VT2P | VT2P | 104 | 231.0 | 14.5 | 2 | \$1,038 | 22 | — | 218.7 | — | 241.2 | 233.1 |
| Wyffels | W5019 | STXP | 107 | 230.8 | 14.9 | 1 | \$1,036 | 23 | — | 239.7 | — | 254.0 | 198.7 |
| DeKalb | DKC56-65RIB GC | STX | 106 | 229.5 | 14.7 | 1 | \$1,031 | 24 | — | 228.3 | — | 259.0 | 201.4 |
| Thunder | T6405 TRE | TRE | 105 | 229.3 | 14.4 | 1 | \$1,031 | 25 | — | 226.8 | — | 247.4 | 213.6 |
| Rob-See-Co | RC5422-PCE | PCE | 104 | 228.7 | 14.8 | 2 | \$1,027 | 26 | — | 222.9 | — | 239.5 | 223.8 |
| Dairyland | DS-4567Q | QR | 105 | 228.7 | 14.9 | 2 | \$1,026 | 27 | — | 209.8 | — | 255.1 | 221.0 |
| Heine | 7410 | PCE | 104 | 227.2 | 14.7 | 1 | \$1,021 | 28 | — | 207.1 | — | 254.2 | 220.3 |
| Viking Blue River | 72-06 | CONV | 106 | 227.1 | 14.6 | 2 | \$1,021 | 29 | — | 230.1 | — | 258.6 | 192.7 |
| REA | 103B55 | VT2P | 103 | 226.3 | 14.5 | 1 | \$1,018 | 30 | — | 237.2 | — | 253.3 | 188.5 |
| DeKalb | DKC52-18RIB CK | STX | 102 | 213.7 | 14.6 | 1 | \$961 | 52 | — | 204.5 | — | 246.8 | 189.8 |
| Averages = | | | | 229.4 | 14.7 | 2 | \$1,030 | | | 230.5 | | 252.0 | 205.7 |
| LSD (0.10) = | | | | 15.1 | 0.3 | 1.4 | | | | 23.6 | | 11.0 | 26.8 |

†3 replications. *Beresford—accidentally harvested by farm operation. Cavour—lost to severe drought stress.

SOYBEAN REGIONS: SDNE, SDEC, SDSE



Site Description: SDNE (See soybean results table on page 9)

| Site | FIRST Farmers | Soil Texture | Tillage | Previous Crop | Total Nitrogen (lbs) | Date Planted | Date Harvested | Average | | Yield History | |
|-----------|---------------|-----------------|---------|---------------|----------------------|--------------|----------------|---------------|-------------|---------------|-----------|
| | | | | | | | | Stand × 1,000 | Yield | Bu/A | Years |
| Bath | Scott Sperry | silt loam | no-till | corn | – | May 23 | Oct 25 | NR | NR | 54.1 | 18 |
| Groton | Scott Sperry | silt loam | no-till | corn | – | May 23 | Oct 24 | 116.2 | 62.6 | 58.7 | 3 |
| Watertown | Myron Keltgen | silty clay loam | no-till | corn | – | May 22 | Oct 11 | 117.1 | 57.1 | 51.1 | 10 |
| Webster | Fred Zenk | silty clay | no-till | corn | – | May 23 | Nov 2 | 113.5 | 51.3 | 44.9 | 18 |
| | | | | | | | | | SDNE | 50.8 | 18 |

Site Description: SDEC (See soybean results table on page 10)

| Site | FIRST Farmers | Soil Texture | Tillage | Previous Crop | Total Nitrogen (lbs) | Date Planted | Date Harvested | Average | | Yield History | |
|-----------|-----------------|-----------------|--------------|---------------|----------------------|--------------|----------------|---------------|-------------|---------------|-----------|
| | | | | | | | | Stand × 1,000 | Yield | Bu/A | Years |
| Arlington | Tim Bjorklund | silty clay loam | no-till | corn | – | May 22 | Oct 17 | NR | NR | 53.0 | 12 |
| Colton | Floyd Snoozy | silty clay loam | conventional | corn | – | May 19 | Oct 11 | 115.5 | 56.8 | 61.9 | 14 |
| Elkton | Jim Johansen | silty clay loam | conventional | corn | – | May 18 | Oct 9 | NR | NR | – | new site |
| Jefferson | Austin Chicoine | silt loam | no-till | corn | – | May 20 | Oct 24 | 117.9 | 45.5 | – | new site |
| | | | | | | | | | SDEC | 54.4 | 18 |

Site Description: SDSE (See soybean results table on page 10)

| Site | FIRST Farmers | Soil Texture | Tillage | Previous Crop | Total Nitrogen (lbs) | Date Planted | Date Harvested | Average | | Yield History | |
|-----------|-----------------|-----------------|--------------|---------------|----------------------|--------------|----------------|---------------|-------------|---------------|-----------|
| | | | | | | | | Stand × 1,000 | Yield | Bu/A | Years |
| Beresford | Jason Frick | silty clay loam | NA | corn | – | May 19 | NR | NR | NR | 44.2 | 19 |
| Burbank | Tom Hall | silt loam | minimum | corn | – | May 20 | Oct 22 | 119.7 | 63.0 | 59.7 | 3 |
| Colton | Floyd Snoozy | silty clay loam | conventional | corn | – | May 19 | Oct 10 | 116.4 | 59.2 | 61.9 | 14 |
| Jefferson | Austin Chicoine | silt loam | no-till | corn | – | May 20 | Oct 24 | 119.7 | 62.7 | – | new site |
| | | | | | | | | | SDSE | 52.7 | 18 |

SOYBEAN REGIONAL ANNUAL YIELD AVERAGES FOR 2019–2023

| FIRST Region | Average Yield by Year (Bu/A) | | | | | Since Inception | |
|--------------|------------------------------|------|------|------|------|-----------------|--------|
| | 2023 | 2022 | 2021 | 2020 | 2019 | Bu/A | #Years |
| SDNE | 57.0 | 58.0 | 55.2 | 59.4 | 46.2 | 50.8 | 18 |
| SDEC | 51.3 | 59.5 | 57.5 | 60.5 | 46.9 | 54.4 | 18 |
| SDSE | 61.5 | 59.1 | 55.4 | 54.3 | 53.9 | 52.7 | 18 |

Soybean Results: SDNE (See site description on page 8)

ALL-SEASON TEST | MATURITY GROUP 1.0-1.7 | Top 30 of 50 tested Results in BOLD are significantly above test average.

| Company/ Brand | Product/ Brand | Technology | Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Bath [#] | Groton | Watertown | Webster |
|-------------------|-------------------|------------|----------|--------------|--------------|-------------|---------------------|-------------------|-------------|-------------|-------------|
| Xitavo | XO 1212E | E3 | 1.2 | 61.8 | 13.7 | 4 | \$751 | 44.5 | 64.9 | 66.9 | 53.7 |
| Dak-Sota | DE5215 | E3 | 1.5 | 61.8 | 13.8 | 3 | \$751 | 45.9 | 64.9 | 63.7 | 56.8 |
| Golden Harvest | GH1194E3 U | E3 | 1.1 | 61.1 | 13.6 | 2 | \$742 | 36.8 | 66.6 | 64.4 | 52.4 |
| Thunder | TX8313N | RXF | 1.3 | 60.9 | 14.2 | 5 | \$741 | 63.9 | 66.0 | 59.5 | 57.3 |
| Xitavo | XO 1632E | E3 | 1.6 | 60.9 | 13.6 | 3 | \$740 | 52.2 | 65.5 | 60.4 | 56.6 |
| Dairyland | DSR-1450E | E3,ST | 1.4 | 60.4 | 13.4 | 4 | \$733 | 45.8 | 69.5 | 61.5 | 50.2 |
| Dairyland | DSR-1505E | E3 | 1.5 | 60.1 | 13.4 | 3 | \$730 | 41.7 | 58.3 | 68.4 | 53.7 |
| Golden Harvest | GH1762XF | RXF | 1.7 | 59.9 | 13.5 | 4 | \$729 | 67.5 | 63.9 | 60.8 | 55.1 |
| Channel | 1022RFX U | RXF | 1.0 | 59.4 | 14.1 | 4 | \$722 | 58.3 | 66.8 | 56.6 | 54.8 |
| Thunder | TX8417N | RXF | 1.7 | 59.1 | 13.6 | 2 | \$718 | 66.6 | 67.9 | 55.0 | 54.3 |
| Zinesto | Z1702E | E3 | 1.7 | 59.0 | 13.9 | 5 | \$716 | 37.0 | 64.0 | 60.1 | 52.9 |
| Thunder | TX8414N | RXF | 1.4 | 58.9 | 13.6 | 5 | \$716 | 68.1 | 65.6 | 58.4 | 52.7 |
| Paloma | PL2E141 | E3 | 1.4 | 58.9 | 13.8 | 4 | \$716 | 38.8 | 67.2 | 53.4 | 56.0 |
| Stine | 17EE32 U | E3 | 1.7 | 58.6 | 13.9 | 3 | \$712 | 43.4 | 62.0 | 63.0 | 50.8 |
| Dairyland | DSR-1290E | E3,ST | 1.2 | 58.6 | 13.9 | 3 | \$711 | 46.1 | 64.2 | 62.4 | 49.2 |
| Hefty | H16E4 | E3 | 1.6 | 58.3 | 13.9 | 2 | \$709 | 43.3 | 59.0 | 59.1 | 56.9 |
| Asgrow | AG15XF2 U | RXF | 1.5 | 58.0 | 13.7 | 4 | \$706 | 67.0 | 63.3 | 55.4 | 55.4 |
| Zinesto | Z1304E | E3 | 1.3 | 57.9 | 13.7 | 4 | \$703 | 30.8 | 59.0 | 64.2 | 50.6 |
| Thunder | TX8215N | RXF | 1.5 | 57.9 | 14.0 | 3 | \$705 | 68.5 | 65.3 | 52.9 | 55.6 |
| Hefty | H16XF4 | RXF | 1.6 | 57.9 | 13.9 | 4 | \$704 | 55.3 | 67.8 | 50.2 | 55.6 |
| Asgrow | AG12XF3 U | RXF | 1.2 | 57.9 | 13.8 | 6 | \$703 | 59.7 | 63.6 | 57.7 | 52.3 |
| Hefty | H12XF4 | RXF | 1.2 | 57.8 | 13.6 | 5 | \$703 | 60.9 | 60.6 | 57.5 | 55.4 |
| Dak-Sota | DE5414 | E3 | 1.4 | 57.8 | 13.7 | 4 | \$700 | 35.3 | 68.5 | 59.3 | 45.5 |
| Xitavo | XO 1404E | E3 | 1.4 | 57.6 | 13.6 | 3 | \$700 | 40.4 | 61.5 | 56.5 | 54.8 |
| Hefty | H15XF2 | RXF | 1.5 | 57.5 | 13.8 | 7 | \$699 | 63.0 | 63.1 | 53.5 | 55.9 |
| Genesis | G1560E | E3 | 1.5 | 57.3 | 13.9 | 3 | \$696 | 43.1 | 60.9 | 58.0 | 53.0 |
| Asgrow | AG12XF4 U | RXF | 1.2 | 57.3 | 13.7 | 5 | \$698 | 66.9 | 60.3 | 55.0 | 56.7 |
| Zinesto | Z1101E | E3 | 1.1 | 57.3 | 13.8 | 3 | \$696 | 40.6 | 62.4 | 57.4 | 52.0 |
| Paloma | PL2E153 | E3 | 1.5 | 57.1 | 13.8 | 4 | \$693 | 41.6 | 60.9 | 63.2 | 47.3 |
| Xitavo | XO 1761E | E3 | 1.7 | 57.1 | 13.3 | 5 | \$692 | 48.9 | 63.7 | 58.2 | 49.2 |
| Averages = | | | | 57.0 | 13.7 | 4 | \$693 | 49.1 | 62.5 | 57.1 | 51.4 |
| LSD (0.10) = | | | | 4.6 | 0.3 | 1.4 | | 5.9 | 4.5 | 7.7 | 4.5 |

*All-season test results rejected, not included in summary. Bath—dicamba drift damaged E3 varieties.



Soybean Results: SDEC (See site description on page 8)

ALL-SEASON TEST | MATURITY GROUP 1.6–2.3 | Top 30 of 47 tested Results in BOLD are significantly above test average.

| Company/ Brand | Product/ Brand | Technology | Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Arlington [#] | Colton | Elkton [#] | Jefferson |
|-------------------|-------------------|------------|----------|--------------|--------------|-------------|---------------------|------------------------|-------------|---------------------|-------------|
| Golden Harvest | GH1973E3S U | E3,ST | 1.9 | 59.6 | 11.5 | 4 | \$715 | 22.0 | 67.6 | 41.0 | 51.6 |
| Dairyland | DSR-1788E | E3 | 1.7 | 57.1 | 11.6 | 5 | \$685 | 22.5 | 67.0 | 42.1 | 47.2 |
| Dak-Sota | DE5412 GC | E3 | 1.2 | 56.4 | 12.1 | 7 | \$677 | 28.2 | 61.2 | 38.3 | 51.6 |
| Hefty | H18XF2 | RXF | 1.8 | 55.7 | 11.4 | 8 | \$669 | 19.2 | 65.3 | 15.0 | 46.1 |
| Stine | 21EG32 U | E3 | 2.1 | 55.4 | 12.6 | 4 | \$665 | 28.7 | 65.3 | 36.4 | 45.4 |
| Xitavo | XO 1822E | E3 | 1.8 | 55.0 | 11.7 | 4 | \$661 | 32.8 | 62.2 | 37.9 | 47.9 |
| Dairyland | DSR-1919E | E3 | 1.9 | 54.8 | 11.3 | 5 | \$657 | 26.6 | 59.9 | 30.3 | 49.6 |
| Hefty | H22XF4 | RXF | 2.2 | 54.5 | 11.1 | 4 | \$655 | 25.2 | 60.9 | 23.0 | 48.2 |
| Genesis | G1560E | E3 | 1.5 | 53.9 | 12.2 | 4 | \$647 | 26.3 | 58.9 | 39.2 | 48.8 |
| Thunder | TE7419N | E3 | 1.9 | 53.7 | 11.8 | 2 | \$645 | 24.8 | 58.8 | 38.3 | 50.6 |
| Thunder | TX8215N | RXF | 1.5 | 53.3 | 11.9 | 7 | \$639 | 32.9 | 64.2 | 13.8 | 42.3 |
| Golden Harvest | GH2004XF U | RXF | 2.0 | 53.2 | 10.8 | 4 | \$639 | 29.1 | 61.0 | 37.0 | 45.5 |
| Dak-Sota | DE5414 | E3 | 1.4 | 52.9 | 11.5 | 4 | \$635 | 23.1 | 53.4 | 29.4 | 52.3 |
| Stine | 20EG02 U | E3 | 2.0 | 52.8 | 12.0 | 6 | \$633 | 23.4 | 55.3 | 35.7 | 50.2 |
| Xitavo | XO 2323E | E3 | 2.3 | 52.7 | 11.1 | 4 | \$633 | 24.8 | 57.9 | 40.4 | 47.5 |
| Pioneer | P18A73E U | E3 | 1.8 | 52.4 | 11.6 | 4 | \$630 | 22.3 | 58.3 | 41.4 | 46.6 |
| Xitavo | XO 1372E | E3,ST | 1.3 | 52.2 | 11.8 | 4 | \$626 | 24.8 | 57.1 | 43.2 | 47.2 |
| Zinesto | Z2101E | E3 | 2.1 | 51.9 | 12.0 | 4 | \$622 | 19.8 | 54.6 | 47.2 | 49.1 |
| Channel | 1822RFX U | RXF | 1.8 | 51.8 | 11.5 | 4 | \$622 | 19.3 | 54.5 | 15.6 | 49.2 |
| Hefty | H18E3 | E3 | 1.8 | 51.8 | 11.5 | 4 | \$623 | 23.7 | 62.3 | 28.7 | 41.4 |
| Dairyland | DSR-2310E | E3 | 2.3 | 51.8 | 11.4 | 6 | \$622 | 24.2 | 54.3 | 29.2 | 49.3 |
| Asgrow | AG19XF3 U | RXF | 1.9 | 51.8 | 11.4 | 8 | \$622 | 20.7 | 58.0 | 23.1 | 45.6 |
| Xitavo | XO 2181E | E3 | 2.1 | 51.6 | 11.6 | 4 | \$620 | 20.0 | 60.8 | 41.3 | 42.4 |
| Pioneer | P19A66E U | E3 | 1.9 | 51.5 | 10.8 | 6 | \$619 | 21.8 | 56.6 | 43.1 | 46.5 |
| Dak-Sota | DE5215 | E3 | 1.5 | 51.5 | 11.8 | 5 | \$618 | 31.9 | 52.8 | 38.1 | 50.2 |
| Xitavo | XO 1761E | E3 | 1.7 | 51.3 | 10.9 | 4 | \$615 | 18.4 | 53.3 | 39.5 | 49.2 |
| Xitavo | XO 2282E | E3 | 2.2 | 50.6 | 11.8 | 5 | \$607 | 22.3 | 55.2 | 30.0 | 46.0 |
| Stine | 19EG92 U | E3 | 1.9 | 50.5 | 11.3 | 5 | \$607 | 26.9 | 60.5 | 32.9 | 40.6 |
| Hefty | H14XF3 | RXF | 1.4 | 50.5 | 11.8 | 7 | \$606 | 23.9 | 56.5 | 16.5 | 44.5 |
| Hefty | H15XF2 | RXF | 1.5 | 50.3 | 11.7 | 12 | \$604 | 21.9 | 58.8 | 18.9 | 41.8 |
| Averages = | | | | 51.2 | 11.5 | 5 | \$614 | 24.7 | 56.8 | 32.6 | 45.5 |
| LSD (0.10) = | | | | 5.7 | 0.5 | 2 | | 5.7 | 7.7 | 6.1 | 5.0 |

[#]Results rejected, not included in summary. Arlington—variability due to hail damage. Elkton—herbicide damage to RFX varieties.

Soybean Results: SDSE (See site description on page 8)

ALL-SEASON TEST | MATURITY GROUP 2.1–2.8 | Top 30 of 36 tested Results in BOLD are significantly above test average.

| Company/ Brand | Product/ Brand | Technology | Maturity | Yield (Bu/A) | Moisture (%) | Lodging (%) | Gross Income (\$/A) | Beresford* | Burbank [†] | Colton [†] | Jefferson [†] |
|-------------------|-------------------|------------|----------|--------------|--------------|-------------|---------------------|------------|----------------------|---------------------|------------------------|
| Asgrow | AG27XF3 U | RXF | 2.7 | 67.0 | 12.1 | 8 | \$803 | — | 71.7 | 62.6 | 66.8 |
| Stine | 28EG29 U | E3 | 2.8 | 66.5 | 11.9 | 8 | \$797 | — | 69.7 | 65.9 | 64.1 |
| Genesis | G2780E | E3 | 2.7 | 65.8 | 11.7 | 6 | \$789 | — | 71.2 | 62.7 | 63.6 |
| Pioneer | P22A67E U | E3 | 2.2 | 65.5 | 12.0 | 9 | \$786 | — | 67.3 | 60.7 | 68.6 |
| Dyna-Gro | S25EN74 | E3 | 2.5 | 64.8 | 12.3 | 8 | \$777 | — | 65.2 | 62.3 | 66.9 |
| Hefty | H27XF4 | RXF | 2.7 | 64.1 | 12.7 | 6 | \$768 | — | 70.0 | 63.6 | 58.8 |
| Hefty | H26XF3 | RXF | 2.6 | 64.0 | 12.6 | 8 | \$767 | — | 67.5 | 59.8 | 64.8 |
| Genesis | G2570ES | E3,ST | 2.5 | 63.7 | 12.0 | 8 | \$765 | — | 62.8 | 62.9 | 65.6 |
| Xitavo | XO 2832E | E3 | 2.8 | 63.1 | 12.3 | 9 | \$756 | — | 62.5 | 63.4 | 63.4 |
| Dyna-Gro | S25XF64 | RXF | 2.5 | 62.9 | 12.4 | 8 | \$755 | — | 58.2 | 62.1 | 68.6 |
| Xitavo | XO 2501E | E3 | 2.5 | 62.9 | 11.9 | 8 | \$754 | — | 63.8 | 60.4 | 64.5 |
| Asgrow | AG24XF3 U | RXF | 2.4 | 62.6 | 12.4 | 8 | \$750 | — | 63.3 | 60.5 | 64.0 |
| Xitavo | XO 2444E | E3,ST | 2.4 | 62.5 | 11.9 | 8 | \$750 | — | 62.1 | 60.1 | 65.4 |
| Zinesto | Z2404E | E3 | 2.4 | 62.5 | 12.1 | 9 | \$749 | — | 65.6 | 58.3 | 63.7 |
| Golden Harvest | GH2313XF U | RXF | 2.3 | 62.5 | 11.9 | 5 | \$749 | — | 61.1 | 60.4 | 66.0 |
| Stine | 27EG22 U | E3 | 2.7 | 62.4 | 12.2 | 7 | \$749 | — | 68.5 | 58.0 | 60.8 |
| Genesis | G2480E | E3 | 2.4 | 62.3 | 12.5 | 7 | \$748 | — | 65.2 | 58.8 | 62.9 |
| Golden Harvest | GH2292E3 U | E3 | 2.2 | 62.1 | 11.6 | 7 | \$745 | — | 66.6 | 57.7 | 62.0 |
| Xitavo | XO 2181E | E3 | 2.1 | 61.8 | 12.1 | 6 | \$741 | — | 61.8 | 56.4 | 67.2 |
| Hefty | H22XF4 | RXF | 2.2 | 61.7 | 11.8 | 8 | \$740 | — | 64.9 | 56.6 | 63.6 |
| Genesis | G2550E | E3 | 2.5 | 61.5 | 11.8 | 5 | \$738 | — | 62.8 | 56.5 | 65.3 |
| Xitavo | XO 2613E | E3 | 2.6 | 61.4 | 12.3 | 10 | \$737 | — | 61.9 | 58.6 | 63.8 |
| Zinesto | Z2303E | E3 | 2.3 | 61.3 | 12.4 | 6 | \$736 | — | 58.5 | 59.9 | 65.7 |
| Hefty | H23XF1 | RXF | 2.3 | 61.1 | 12.1 | 9 | \$733 | — | 60.6 | 55.4 | 67.3 |
| Stine | 24FD32 U | RXF | 2.4 | 61.1 | 12.1 | 7 | \$733 | — | 58.4 | 63.8 | 61.0 |
| Pioneer | P19A66E U | E3 | 1.9 | 61.0 | 12.0 | 5 | \$733 | — | 62.6 | 53.3 | 67.3 |
| Xitavo | XO 2323E | E3 | 2.3 | 60.9 | 12.1 | 5 | \$731 | — | 63.8 | 56.1 | 63.1 |
| Hefty | H24XF4 | RXF | 2.4 | 60.3 | 12.0 | 9 | \$724 | — | 59.3 | 61.8 | 59.9 |
| Hefty | H25XF4 | RXF | 2.5 | 60.0 | 12.2 | 7 | \$719 | — | 69.2 | 64.1 | 46.7 |
| Hefty | H21XF2 | RXF | 2.1 | 60.0 | 11.9 | 8 | \$719 | — | 61.7 | 54.5 | 63.7 |
| Averages = | | | | 61.7 | 12.2 | 7 | \$739 | | 63.0 | 59.2 | 62.7 |
| LSD (0.10) = | | | | 5.4 | 0.7 | 3 | | | 6.1 | 4.8 | 6.9 |

*Beresford—lost to accidental dicamba application

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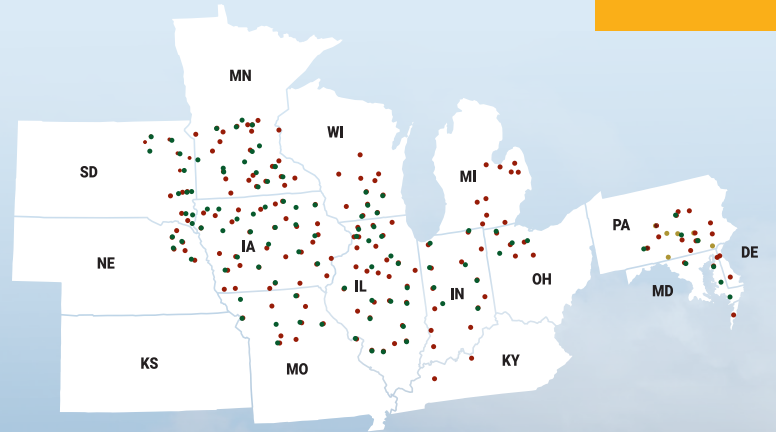
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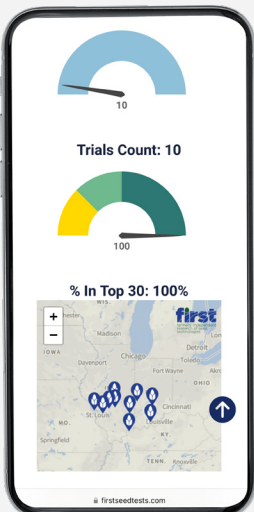
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