



SOYBEAN 2017

Iowa Crop Performance Tests



IOWA STATE UNIVERSITY

Department of Agronomy

A summary of replicated research by Iowa Crop Improvement Association, Iowa's Official Variety Trials.



Iowa Crop Improvement Association

Iowa Crop Performance Tests—Soybean

is conducted each year to provide information farmers need to select the best varieties for their production conditions. Yield trial information, testing procedures, and more can be found at **croptesting.iastate.edu**.

Testing Procedures

Seed companies, Iowa Crop Improvement Association, and Iowa State University are eligible to enter varieties in the Iowa Crop Performance Tests—Soybeans. There are three testing districts and five testing sites within each district (Figure 1). Entries were subdivided into experiments based on relative maturity, providing an early-season and full-season test within each district.

Each entry was replicated four times in four-row plots at a planting rate of 140,000 seeds per acre at each location. Row spacing was 30 inches, plot length was 20 feet, and planted row length was 17.4 feet. The center two rows of each plot were harvested with a soybean plot combine. A moisture determination was made from each plot and yields were corrected to 13 percent moisture. Yield determinations are based on a 20 foot plot, which includes the planted row plus the alley. This is because area in alleys may contribute to the yield of plants at the ends of planted rows.

Information Layout

Tables 3-5 contain two-year averages of agronomic information from a maximum of five locations each year. Current year district averages are shown in Tables 6-11, and entries are reported in either the early-season or full-season tests within each district. These tables contain a mean yield and adjusted gross value based on all locations within the district. In addition, there are yield estimates based on the western fields and the eastern fields within a district. In these estimates, the location in the center of the district is used in both subcomponents. Each of these tables also contains the single-location yield for each entry. Additional information is available at **croptesting.iastate.edu**.

Least Squares Means

All trait means in all tables were computed using least squares means. In cases where some values are missing, this provides the best estimates of trait values across replications, locations, and years. Least squares means are not equivalent to simple arithmetic means like those computed in a spreadsheet program using raw data or location means. Least squares means should always be used in multiple-comparison tests like the Iowa Crop Performance Tests.



Interpretation of Results

Statistical analysis identifies the portion of yield differences due to variation in soil types, soil fertility, moisture availability, insect infestation, and diseases; plus any variation due to planting and harvesting techniques. The least significant difference (LSD) values for yield represent, in bushels per acre, the amount of yield variation that could be due to variations in the factors just mentioned. In comparing varieties, yield differences greater than the LSD value can be attributed to differences in the yield potential of these varieties; yield differences less than the LSD value are not statistically different and could have been due to other factors.

Maturity ratings for varieties are estimates and may vary across seasons. Yield comparisons should be made among varieties of similar maturity.

Growing conditions vary at each location. Stressful conditions, such as drought, extended periods of high temperature, or excess rainfall may affect some locations more than others. It is important to select varieties having stable performance over a range of environmental conditions because it is not certain how next year's growing season will develop. High yields for two or more consecutive years indicate stable performance. If two-year means are not available, regional averages consisting of several locations should be used to make selection decisions. Performance data from a single location have a very low predictive probability and should not be relied upon for variety selection decisions.



Supplemental yield and agronomic information about specific varieties may be obtained from seed dealers, crop consultants, and from neighbors who have grown these varieties.

Use of These Data in Advertisements

Specific advertising statements by a company about the performance of its entries must accurately reflect the published data.



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The presentation of data for the varieties tested does not imply endorsement by the authors or the agencies conducting the test.

Iowa Crop Improvement Association offers unbiased, third-party information to Iowa growers on the adaptation and performance of corn hybrids and soybean varieties. The latest results are available at croptesting.iastate.edu.

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For More Information

- For more information about the *Iowa Crop Performance Tests*, see croptesting.iastate.edu.
- For information about Iowa Crop Improvement Association, visit www.iowacrop.org.
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Figure 1.

Test locations for the 2017 Iowa Crop Performance Tests—Soybean

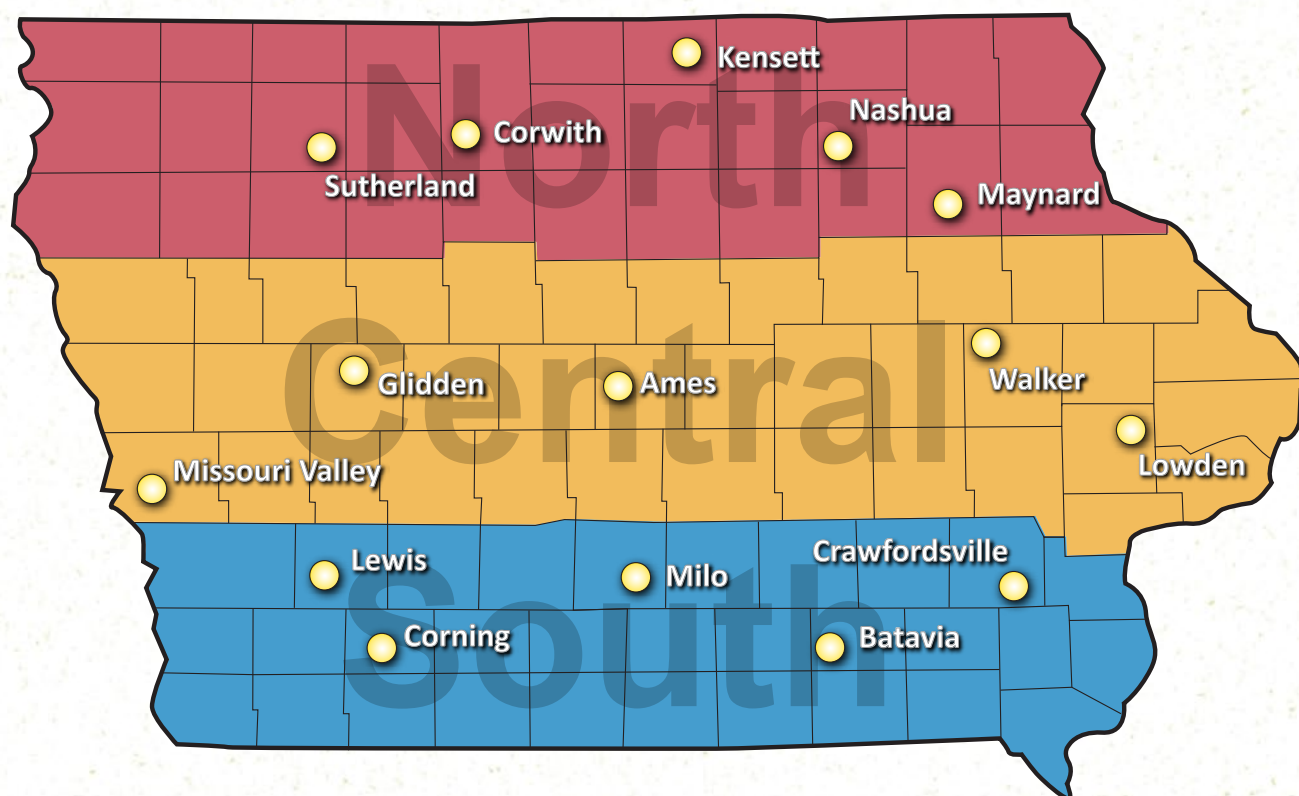


Table 1. General information for the 2017 soybean test.

| Location and Cooperator | Soil Type | Planting Date | Harvest Date | Avg Yield Bu/Acre |
|-----------------------------------|-----------------------------------|---------------|--------------|-------------------|
| North | | | | |
| Sutherland, Terry Tuttle | Primghar silty clay loam | 31-May | 18-Oct | 56.9 |
| Corwith, Norm & Jonathan Chambers | Canisteo clay loam | 12-May | 25-Oct | 60.6 |
| Kensett, Justin Faber | Moland loam | 12-May | 19-Oct | 60.2 |
| Nashua, Ken Pecinovsky | Kenyon loam | 13-May | 18-Oct | 64.8 |
| Maynard, Heath Geiselman | Floyd loam | 16-May | 19-Oct | 51.6 |
| Central | | | | |
| Missouri Valley, Dean McIntosh | Kennebec silt loam | 30-May | 26-Oct | 61.3 |
| Glidden, David Theilen | Clarion loam / Nicollet loam | 15-May | 25-Oct | 63.8 |
| Ames, Kevin Scholbrock | Nicollet loam | 16-May | 24-Oct | 67.2 |
| Walker, Duane Kuhn | Kenyon loam | 13-May | 20-Oct | 52.8 |
| Lowden, Brad Dircks | Tama silty clay loam | 30-May | 20-Oct | 60.7 |
| South | | | | |
| Lewis, Dennis Jipsen | Marshall / Melia silty clay loam | 15-May | 31-Oct | 70.6 |
| Corning, David Fuller | Macksburg silty clay loam | 15-May | 24-Oct | 58.4 |
| Milo, Craig Hill | Givin silt loam | 16-May | 26-Oct | 56.8 |
| Batavia, Allen McElderry | Haig silty clay loam | 25-May | 3-Nov | 47.5 |
| Crawfordsville, Myron Rees | Mahaska / Taintor silty clay loam | 18-May | 27-Oct | 66.0 |

Table 2. Seed treatment and other data descriptions.

| | | | |
|--|--------------------------------|--|-----------------------------------|
| IST: Insecticide Seed Treatment | | Herb Tech: Herbicide Technology | |
| ACL | Acceleron | B-GT | Balance GT |
| AGSHLD | AgriShield | Conv | Conventional, no herbicide traits |
| BC+ | Bonus Coated + | LL | Liberty Link |
| CCB | Clariva Complete Beans | RR1 | Roundup Ready 1 |
| CM | CruiserMaxx | RR2X | Roundup Ready 2 Xtend |
| CMV | CruiserMaxx Vibrance | RR2Y | Roundup Ready 2 Yield |
| E-VIP | Elevate VIP | STS | Sulfonylurea tolerant |
| ESC | Escalate | | |
| ILVO | ILeVO | | |
| INT-STE | Intego Suite | | |
| PPST | Pioneer Premium Seed Treatment | | |
| PV | Poncho-VOTiVO | | |
| SCS | SmartCote Supreme | | |
| VOT | VOTiVO | | |

This year we evaluated over 200 varieties, from 24 companies, in nearly 300 district-by-variety combinations. Entries were distributed in three districts and two experiments per district. Each experiment was grown at five locations, with four replicates of each entry at each location.

Table 3. North district 2-year means, 2016-2017.
North early-season varieties, MG \leq 2.2

| Company | non SCN | Variety | MG | Mat. Date | Herb Tech | Yield Bu/A | NW Yield Bu/A | NE Yield Bu/A | AGV \$ |
|------------------------|------------|--------------|-----|--------------|--------------|---------------|------------------|------------------|-----------|
| Cornelius | | CB19R71 | 1.9 | 26 | RR2Y | 66.0 | 67.8 | 65.3 | 610 |
| Mycogen | | 5N194R2 | 1.9 | 24 | RR2Y | 63.8 | 67.1 | 63.0 | 590 |
| Prairie Brand | | PB-1947R2 | 1.9 | 25 | RR2Y | 63.8 | 66.5 | 63.7 | 590 |
| Asgrow | | AG2035 | 2.0 | 25 | RR2Y | 65.2 | 65.8 | 64.9 | 604 |
| Asgrow | | AG20X7 | 2.0 | 25 | RR2X | 65.1 | 66.7 | 64.8 | 602 |
| NorthStar Genetics | | NS 62002NXR2 | 2.0 | 26 | RR2X | 64.7 | 65.5 | 64.8 | 599 |
| Renk | | RS207NX | 2.0 | 24 | RR2X | 64.3 | 65.4 | 64.2 | 595 |
| NorthStar Genetics | | NS 2031NR2 | 2.0 | 24 | RR2Y | 64.3 | 65.0 | 63.8 | 594 |
| Titan Pro | | TP-20R25 | 2.0 | 25 | RR2Y | 64.2 | 63.8 | 64.3 | 594 |
| Mycogen | | 5N206R2 | 2.0 | 26 | RR2Y | 63.8 | 64.5 | 64.0 | 590 |
| Cornelius | | CB20R44 | 2.0 | 26 | RR2X | 63.7 | 64.5 | 63.2 | 589 |
| Viking | | 2018N | 2.0 | 29 | Conv | 62.4 | 62.7 | 63.3 | 577 |
| Beck's | | 204L4 | 2.0 | 28 | LL | 58.6 | 60.6 | 56.6 | 542 |
| Prairie Brand | | PB-2197R2 | 2.1 | 25 | RR2Y | 66.5 | 67.1 | 66.6 | 615 |
| Titan Pro | | TP-21X46 | 2.1 | 27 | RR2X | 65.8 | 66.8 | 65.1 | 608 |
| Mycogen | | 5N211R2 | 2.1 | 25 | RR2Y | 65.0 | 64.9 | 65.1 | 601 |
| Viking | | 2155N | 2.1 | 32 | Conv | 64.7 | 64.9 | 65.6 | 599 |
| Dyna-Gro | | S21XT77 | 2.1 | 26 | RR2X | 64.7 | 65.7 | 64.4 | 599 |
| Renk | | RS213NR2 | 2.1 | 24 | RR2Y | 64.2 | 65.7 | 63.6 | 593 |
| Asgrow | | AG21X7 | 2.1 | 26 | RR2X | 61.4 | 64.5 | 59.0 | 568 |
| Credenz | | CZ 2101 LL | 2.1 | 24 | LL | 60.4 | 61.7 | 59.1 | 558 |
| Titan Pro | | TP-21L15 | 2.1 | 27 | LL | 59.1 | 60.6 | 57.9 | 547 |
| Pioneer | | P22T73R | 2.2 | 27 | RR1 | 65.0 | 65.8 | 65.6 | 601 |
| Pioneer | | P22T69R | 2.2 | 27 | RR1 | 63.5 | 64.2 | 64.0 | 588 |
| Viking | | 2299N | 2.2 | 31 | Conv | 62.9 | 63.2 | 63.8 | 582 |
| Experiment Mean | | | | 29 | | 62.3 | 63.3 | 62.1 | |
| LSD(0.25) | | | | 3 | | 2.0 | 2.3 | 2.6 | |

North full-season varieties, MG > 2.2

| Company | non SCN | Variety | MG | Mat. Date | Herb Tech | Yield Bu/A | NW Yield Bu/A | NE Yield Bu/A | AGV \$ |
|------------------------|------------|--------------|-----|--------------|--------------|---------------|------------------|------------------|-----------|
| Dyna-Gro | | S23RY85 | 2.3 | 24 | RR2Y | 66.6 | 66.8 | 67.0 | 616 |
| Dairyland | | DSR-2330/R2Y | 2.3 | 28 | RR2Y | 62.8 | 63.6 | 62.2 | 581 |
| Credenz | | CZ 2312 LL | 2.3 | 29 | LL | 62.7 | 63.7 | 62.7 | 580 |
| NorthStar Genetics | | NS 2362NR2 | 2.3 | 28 | RR2Y | 62.5 | 62.7 | 62.7 | 578 |
| Asgrow | | AG24X7 | 2.4 | 31 | RR2X | 64.5 | 65.3 | 63.9 | 596 |
| Dyna-Gro | | S24RY87 | 2.4 | 27 | RR2Y | 64.4 | 64.1 | 65.1 | 596 |
| Titan Pro | | TP-24R26 | 2.4 | 28 | RR2Y | 64.3 | 64.1 | 64.7 | 595 |
| Renk | | RS246NR2 | 2.4 | 27 | RR2Y | 64.0 | 63.7 | 64.5 | 592 |
| Cornelius | | CB24R82 | 2.4 | 29 | RR2Y | 63.9 | 63.9 | 63.8 | 591 |
| Pioneer | | P24T93R | 2.4 | 32 | RR1 | 63.4 | 64.6 | 63.1 | 586 |
| Mycogen | | 5N245R2 | 2.4 | 29 | RR2Y | 63.2 | 62.5 | 63.8 | 584 |
| Pioneer | | P25T51R | 2.5 | 31 | RR1 | 64.4 | 66.1 | 63.2 | 596 |
| Credenz | | CZ 2601 LL | 2.6 | 32 | LL | 64.1 | 64.4 | 64.2 | 593 |
| Titan Pro | | TP-26R35 | 2.6 | 34 | RR2Y | 63.7 | 64.8 | 62.7 | 589 |
| Titan Pro | | TP-26L85 | 2.6 | 31 | LL | 63.5 | 63.3 | 64.3 | 587 |
| Renk | | RS265NR2 | 2.6 | 33 | RR2Y | 63.4 | 64.3 | 62.3 | 587 |
| Dyna-Gro | | S26RS75 | 2.6 | 31 | RR2Y | 63.4 | 64.4 | 63.3 | 586 |
| Iowa State | | IA2112RA12 | 2.7 | 34 | Conv | 65.2 | 66.3 | 65.1 | 603 |
| Iowa State | | IA2102 | 2.7 | 31 | Conv | 63.6 | 63.7 | 63.9 | 588 |
| Beck's | | 274L4 | 2.7 | 32 | LL | 63.2 | 64.1 | 63.2 | 584 |
| Experiment Mean | | | | 29 | | 62.3 | 63.3 | 62.1 | |
| LSD(0.25) | | | | 3 | | 2.0 | 2.3 | 2.6 | |

Table 4. Central district 2-year means, 2016-2017.
Central early-season varieties, MG ≤ 2.7

| Company | non SCN | Variety | MG | Mat. Date | Herb Tech | Yield Bu/A | CW Yield Bu/A | CE Yield Bu/A | AGV \$ |
|------------------------|------------|------------|-----|--------------|--------------|---------------|------------------|------------------|-----------|
| Credenz | | CZ 2312 LL | 2.3 | 24 | LL | 63.5 | 66.5 | 60.6 | 587 |
| Cornelius | | CB23X45 | 2.3 | 25 | RR2X | 63.4 | 65.8 | 61.5 | 587 |
| Titan Pro | | TP-24R26 | 2.4 | 24 | RR2Y | 65.4 | 68.1 | 63.7 | 605 |
| Pioneer | | P24T93R | 2.4 | 30 | RR1 | 65.3 | 68.2 | 63.8 | 604 |
| Asgrow | | AG24X7 | 2.4 | 27 | RR2X | 65.2 | 68.4 | 63.4 | 604 |
| Dyna-Gro | | S24RY87 | 2.4 | 24 | RR2Y | 64.7 | 65.0 | 65.4 | 599 |
| Prairie Brand | | PB-2486R2 | 2.4 | 25 | RR2Y | 64.5 | 67.1 | 63.2 | 597 |
| Cornelius | | CB24R82 | 2.4 | 24 | RR2Y | 64.4 | 65.1 | 63.8 | 595 |
| Mycogen | | 5N245R2 | 2.4 | 24 | RR2Y | 64.3 | 65.6 | 64.0 | 595 |
| Prairie Brand | | PB-2576R2 | 2.5 | 29 | RR2Y | 64.4 | 67.0 | 63.5 | 596 |
| Pioneer | | P25T51R | 2.5 | 27 | RR1 | 64.0 | 66.4 | 62.4 | 592 |
| Titan Pro | | TP-26L85 | 2.6 | 25 | LL | 65.8 | 67.6 | 65.0 | 608 |
| Dyna-Gro | | S26RS75 | 2.6 | 26 | RR2Y | 65.0 | 66.7 | 63.3 | 601 |
| Credenz | | CZ 2601 LL | 2.6 | 25 | LL | 64.9 | 66.4 | 65.0 | 601 |
| Renk | | RS265NR2 | 2.6 | 28 | RR2Y | 64.9 | 66.5 | 62.9 | 601 |
| Titan Pro | | TP-26R35 | 2.6 | 27 | RR2Y | 63.8 | 66.1 | 60.7 | 590 |
| Roeschley | | 2657CRR2 | 2.6 | 27 | RR2Y | 61.7 | 65.5 | 58.3 | 571 |
| Iowa State | | IA2102 | 2.7 | 25 | Conv | 65.0 | 67.2 | 64.6 | 601 |
| Asgrow | | AG27X7 | 2.7 | 27 | RR2X | 64.4 | 65.7 | 64.5 | 595 |
| Iowa State | | IA2112RA12 | 2.7 | 38 | Conv | 62.7 | 64.8 | 62.8 | 580 |
| Experiment Mean | | | | 30 | | 64.2 | 66.3 | 63.0 | |
| LSD(0.25) | | | | 4 | | 2.3 | 2.6 | 3.0 | |

Central full-season varieties, MG > 2.7

| Company | non SCN | Variety | MG | Mat. Date | Herb Tech | Yield Bu/A | CW Yield Bu/A | CE Yield Bu/A | AGV \$ |
|------------------------|------------|--------------|-----|--------------|--------------|---------------|------------------|------------------|-----------|
| Cornelius | | CB28R58 | 2.8 | 36 | RR2Y | 66.6 | 67.8 | 66.1 | 616 |
| Pioneer | | P28T08R | 2.8 | 31 | RR1 | 65.8 | 67.4 | 65.3 | 609 |
| Cornelius | | CB28X73 | 2.8 | 30 | RR2X | 65.2 | 66.7 | 64.8 | 603 |
| Prairie Brand | | PB-2876R2 | 2.8 | 31 | RR2Y | 65.1 | 67.3 | 62.6 | 602 |
| Iowa State | | IA2102RA12 | 2.8 | 32 | Conv | 63.1 | 64.0 | 63.9 | 584 |
| Dairyland | | DSR-2909/R2Y | 2.9 | 32 | RR2Y | 65.3 | 67.1 | 64.2 | 604 |
| Cornelius | | CB29R69 | 2.9 | 30 | RR2Y | 64.6 | 64.9 | 64.2 | 597 |
| Prairie Brand | | PB-2917R2 | 2.9 | 39 | RR2Y | 63.6 | 63.6 | 63.1 | 588 |
| Prairie Brand | | PB-2997R2 | 2.9 | 36 | RR2Y | 63.5 | 64.0 | 63.3 | 587 |
| Credenz | | CZ 2915 LL | 2.9 | 35 | LL | 62.9 | 65.4 | 61.8 | 582 |
| Dyna-Gro | | S30XT96 | 3.0 | 34 | RR2X | 64.6 | 65.5 | 63.9 | 598 |
| Four Star | | 3X300 | 3.0 | 33 | RR2X | 64.4 | 65.7 | 64.0 | 596 |
| Roeschley | | 3072CRX | 3.0 | 37 | RR2X | 64.1 | 65.1 | 64.5 | 593 |
| Mycogen | | 5N306R2 | 3.0 | 38 | RR2Y | 63.3 | 64.7 | 64.1 | 585 |
| Pioneer | | P31T11R | 3.1 | 34 | RR1 | 67.2 | 68.5 | 67.3 | 622 |
| Titan Pro | | TP-31X26 | 3.1 | 35 | RR2X | 66.4 | 67.2 | 66.5 | 614 |
| Cornelius | | CB31X13 | 3.1 | 36 | RR2X | 65.6 | 66.4 | 64.8 | 606 |
| Beck's | | 3153X2 | 3.1 | 36 | RR2X | 64.1 | 66.4 | 62.7 | 593 |
| Credenz | | CZ 3233 LL | 3.2 | 38 | LL | 68.6 | 70.4 | 67.1 | 635 |
| Mycogen | | 5N327R2 | 3.2 | 35 | RR2Y | 67.1 | 69.3 | 65.9 | 621 |
| Dairyland | | DSR-3250/R2Y | 3.2 | 40 | RR2Y | 66.7 | 66.5 | 67.4 | 617 |
| Asgrow | | AG32X6 | 3.2 | 34 | RR2X | 65.6 | 67.1 | 65.2 | 607 |
| Four Star | | 3X320 | 3.2 | 35 | RR2X | 64.2 | 64.6 | 63.8 | 594 |
| Experiment Mean | | | | 30 | | 64.2 | 66.3 | 63.0 | |
| LSD(0.25) | | | | 4 | | 2.3 | 2.6 | 3.0 | |

Table 5. South district 2-year means, 2016-2017.
South early-season varieties, MG \leq 3.2

| Company | non SCN | Variety | MG | Mat. Date | Herb Tech | Yield Bu/A | SW Yield Bu/A | SE Yield Bu/A | AGV \$ |
|------------------------|------------|-----------------|-----|--------------|--------------|---------------|------------------|------------------|-----------|
| Cornelius | | CB28R58 | 2.8 | 27 | RR2Y | 57.8 | 58.9 | 57.2 | 535 |
| Merschman | | Sioux 1628LL | 2.8 | 27 | LL | 57.1 | 57.6 | 55.6 | 528 |
| Pioneer | | P28T08R | 2.8 | 23 | RR1 | 56.0 | 58.7 | 52.5 | 518 |
| Cornelius | | CB28X73 | 2.8 | 23 | RR2X | 53.4 | 54.1 | 53.8 | 494 |
| Iowa State | | IA2102RA12 | 2.8 | 22 | Conv | 53.1 | 52.6 | 50.5 | 491 |
| Prairie Brand | | PB-2997R2 | 2.9 | 26 | RR2Y | 58.1 | 59.2 | 55.8 | 538 |
| Credenz | | CZ 2915 LL | 2.9 | 23 | LL | 57.2 | 56.6 | 54.6 | 529 |
| Cornelius | | CB29R69 | 2.9 | 26 | RR2Y | 56.9 | 56.8 | 55.4 | 527 |
| Prairie Brand | | PB-2917R2 | 2.9 | 25 | RR2Y | 56.8 | 55.2 | 53.8 | 525 |
| Mycogen | | 5N306R2 | 3.0 | 28 | RR2Y | 57.9 | 58.2 | 56.8 | 536 |
| Prairie Brand | | PB-3087R2 | 3.0 | 27 | RR2Y | 56.8 | 57.6 | 56.1 | 526 |
| Dyna-Gro | | S30XT96 | 3.0 | 26 | RR2X | 56.1 | 56.8 | 54.3 | 519 |
| Four Star | | 3X300 | 3.0 | 29 | RR2X | 55.5 | 55.6 | 52.6 | 513 |
| Titan Pro | | TP-31X26 | 3.1 | 29 | RR2X | 56.7 | 54.9 | 54.8 | 524 |
| Cornelius | | CB31X13 | 3.1 | 31 | RR2X | 56.6 | 57.0 | 56.3 | 523 |
| Pioneer | | P31T11R | 3.1 | 30 | RR1 | 56.5 | 58.6 | 55.7 | 523 |
| Roeschley | | 3155CRR2 | 3.1 | 27 | RR2Y | 56.0 | 57.1 | 55.2 | 518 |
| Merschman | | McKinley 1731LL | 3.1 | 33 | LL | 55.6 | 56.0 | 54.5 | 514 |
| Beck's | | 3153X2 | 3.1 | 32 | RR2X | 52.5 | 56.0 | 54.0 | 485 |
| Credenz | | CZ 3233 LL | 3.2 | 26 | LL | 59.9 | 60.0 | 60.3 | 554 |
| Mycogen | | 5N327R2 | 3.2 | 28 | RR2Y | 58.4 | 57.7 | 59.0 | 541 |
| Four Star | | 3X320 | 3.2 | 33 | RR2X | 57.2 | 55.3 | 55.1 | 529 |
| Asgrow | | AG32X6 | 3.2 | 30 | RR2X | 53.7 | 54.8 | 53.9 | 497 |
| Experiment Mean | | | | 31 | | 57.1 | 56.2 | 55.0 | |
| LSD(0.25) | | | | 1 | | 2.3 | 3.1 | 2.8 | |

South full-season varieties, MG > 3.2

| Company | non SCN | Variety | MG | Mat. Date | Herb Tech | Yield Bu/A | SW Yield Bu/A | SE Yield Bu/A | AGV \$ |
|------------------------|------------|---------------|-----|--------------|--------------|---------------|------------------|------------------|-----------|
| LG Seeds | | C3321R2 | 3.3 | 30 | RR2Y | 61.0 | 59.2 | 58.0 | 564 |
| Titan Pro | | TP-34X86 | 3.4 | 35 | RR2X | 60.1 | 56.8 | 56.8 | 556 |
| Merschman | | Adams 1434LL | 3.4 | 29 | LL | 58.9 | 59.5 | 58.6 | 545 |
| Prairie Brand | | PB-3487R2 | 3.4 | 37 | RR2Y | 57.5 | 57.3 | 57.0 | 532 |
| Public-OH | * | Lorain | 3.4 | 24 | Conv | 52.5 | 48.9 | 48.8 | 485 |
| LG Seeds | | C3550RX | 3.5 | 37 | RR2X | 61.3 | 58.3 | 58.3 | 567 |
| Renk | | RS357NX | 3.5 | 34 | RR2X | 59.0 | 57.7 | 57.3 | 546 |
| Miller | | 3559CLL | 3.5 | 22 | LL | 52.9 | 55.0 | 52.7 | 489 |
| MorSoy | | 3611 RXT | 3.6 | 37 | RR2X | 61.0 | 59.2 | 60.7 | 565 |
| Mycogen | | 5N354R2 | 3.6 | 35 | RR2Y | 60.2 | 58.3 | 55.9 | 557 |
| Asgrow | | AG36X6 | 3.6 | 38 | RR2X | 60.0 | 57.1 | 56.8 | 555 |
| Credenz | | CZ 3601 LL | 3.6 | 31 | LL | 59.5 | 57.7 | 58.6 | 550 |
| Beck's | | 366L4 | 3.6 | 34 | LL | 56.6 | 57.8 | 57.5 | 524 |
| Merschman | | Monroe 1736LL | 3.6 | 32 | LL | 55.5 | 58.5 | 56.8 | 513 |
| Credenz | | CZ 3737 LL | 3.7 | 40 | LL | 58.5 | 56.0 | 57.0 | 541 |
| MorSoy | | 3726 RXT | 3.7 | 33 | RR2X | 58.3 | 57.2 | 58.5 | 540 |
| Merschman | | Grant 1537LL | 3.7 | 42 | LL | 56.4 | 56.0 | 56.2 | 522 |
| Prairie Brand | | PB-3956R2 | 3.8 | 41 | RR2Y | 59.9 | 58.9 | 57.7 | 554 |
| Credenz | | CZ 3841 LL | 3.8 | 33 | LL | 58.2 | 56.6 | 57.6 | 538 |
| Merschman | | Truman 1438LL | 3.8 | 37 | LL | 55.0 | 56.6 | 55.6 | 509 |
| Asgrow | | AG39X7 | 3.9 | 41 | RR2X | 58.6 | 58.4 | 57.7 | 542 |
| Public-OH | * | Clermont | 3.9 | 26 | Conv | 53.0 | 48.4 | 48.6 | 490 |
| Experiment Mean | | | | 31 | | 57.1 | 56.2 | 55.0 | |
| LSD(0.25) | | | | 1 | | 2.3 | 3.1 | 2.8 | |

Table 6. North district, 2017 district and single-location means. Early-season test, MG ≤ 2.2.

| Company | non SCN | Variety | MG | Herb Tech | District Means | | | | Single Location Yield | | | | |
|-----------------------------------|------------|---------------|-----|--------------|----------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|-------------|
| | | | | | Yield Bu/A | NW Yield | NE Yield | Mat. Date | Sutherland | Corwith | Kensett | Nashua | Maynard |
| Credenz | | CZ 1738 LL | 1.7 | LL | 57.2 | 57.7 | 57.4 | 26 | 56.4 | 57.7 | 59.1 | 62.4 | 50.7 |
| Asgrow | | AG17X8 | 1.7 | RR2X | 55.4 | 56.2 | 56.4 | 24 | 52.8 | 55.6 | 60.2 | 64.8 | 44.4 |
| Credenz | | CZ 2188 EXP | 1.8 | B-GT | 59.2 | 59.3 | 60.2 | 28 | 57.6 | 57.6 | 62.7 | 65.9 | 51.9 |
| Cornelius | | CB18X80 | 1.8 | RR2X | 56.1 | 57.9 | 55.2 | 27 | 56.3 | 58.6 | 58.8 | 62.4 | 44.5 |
| Producers Hybrids | | 1816NRX | 1.8 | RR2X | 55.6 | 58.1 | 54.6 | 28 | 55.6 | 58.3 | 60.3 | 61.1 | 42.3 |
| Cornelius | | CB19R71 | 1.9 | RR2Y | 60.0 | 60.4 | 60.5 | 27 | 55.7 | 62.5 | 63.0 | 68.7 | 49.7 |
| Prairie Brand | | PB-1947R2 | 1.9 | RR2Y | 58.2 | 60.1 | 58.3 | 26 | 56.8 | 59.6 | 63.9 | 68.7 | 42.2 |
| Dairyland | | DSR-1950/R2Y | 1.9 | RR2Y | 57.9 | 59.2 | 58.4 | 27 | 56.2 | 57.9 | 63.4 | 67.9 | 43.8 |
| Mycogen | | 5N194R2 | 1.9 | RR2Y | 57.8 | 59.4 | 58.3 | 27 | 57.5 | 56.1 | 64.5 | 68.8 | 41.6 |
| Asgrow | | AG2035 | 2.0 | RR2Y | 60.6 | 59.9 | 61.0 | 26 | 56.7 | 63.6 | 59.4 | 68.0 | 55.6 |
| Great Lakes | | 2063NRX | 2.0 | RR2X | 60.3 | 61.5 | 58.9 | 28 | 60.3 | 64.7 | 59.7 | 66.0 | 51.0 |
| Cornelius | | CB20X56 | 2.0 | RR2X | 60.2 | 60.5 | 59.6 | 29 | 60.1 | 62.4 | 59.1 | 63.0 | 56.6 |
| Titan Pro | | TP-20R25 | 2.0 | RR2Y | 60.2 | 59.3 | 60.8 | 26 | 58.0 | 60.3 | 59.7 | 69.6 | 53.2 |
| Renk | | RS207NX | 2.0 | RR2X | 59.9 | 60.5 | 59.4 | 28 | 59.3 | 61.9 | 60.3 | 65.8 | 52.1 |
| NorthStar Genetics | | NS 62002NXR2 | 2.0 | RR2X | 59.7 | 60.5 | 60.1 | 29 | 59.1 | 59.0 | 63.4 | 66.9 | 50.0 |
| NorthStar Genetics | | NS 2031NR2 | 2.0 | RR2Y | 59.6 | 60.1 | 58.8 | 25 | 56.6 | 64.7 | 58.9 | 66.9 | 50.7 |
| Titan Pro | | TP-20X57 | 2.0 | RR2X | 59.4 | 58.7 | 60.5 | 28 | 56.5 | 59.6 | 60.0 | 65.2 | 56.2 |
| Renk | | RS208NX | 2.0 | RR2X | 59.1 | 58.4 | 60.4 | 28 | 55.5 | 59.4 | 60.4 | 63.4 | 57.3 |
| Asgrow | | AG20X7 | 2.0 | RR2X | 58.7 | 60.2 | 57.7 | 27 | 57.0 | 63.4 | 60.4 | 67.0 | 45.8 |
| Cornelius | | CB20R44 | 2.0 | RR2X | 58.6 | 58.8 | 58.1 | 27 | 58.4 | 60.1 | 57.9 | 66.4 | 50.0 |
| Merschman | | Navaho 1820GT | 2.0 | GT | 58.5 | 59.6 | 58.3 | 29 | 56.5 | 61.3 | 61.0 | 62.3 | 51.6 |
| Mycogen | | 5N206R2 | 2.0 | RR2Y | 58.1 | 59.2 | 57.5 | 27 | 57.3 | 60.6 | 59.5 | 66.1 | 47.0 |
| Dyna-Gro | | S20XT48 | 2.0 | RR2X | 57.9 | 57.9 | 58.8 | 27 | 54.8 | 58.2 | 60.8 | 62.8 | 52.9 |
| Viking | | 2018N | 2.0 | Conv | 56.9 | 56.7 | 57.7 | 28 | 51.9 | 59.1 | 59.1 | 66.1 | 47.9 |
| Merschman | | Munsee 1720LL | 2.0 | LL | 53.4 | 56.0 | 52.6 | 27 | 55.6 | 54.1 | 58.4 | 56.3 | 43.0 |
| Beck's | | 204L4 | 2.0 | LL | 53.3 | 55.5 | 51.9 | 27 | 52.6 | 57.6 | 56.3 | 57.5 | 42.0 |
| Prairie Brand | | PB-2197R2 | 2.1 | RR2Y | 61.7 | 61.8 | 61.7 | 26 | 57.6 | 65.0 | 62.9 | 67.3 | 55.0 |
| Viking | | 2155N | 2.1 | Conv | 61.3 | 60.5 | 62.0 | 32 | 60.0 | 60.7 | 60.8 | 68.3 | 57.0 |
| Titan Pro | | TP-21X46 | 2.1 | RR2X | 61.1 | 62.3 | 60.2 | 27 | 60.5 | 64.4 | 62.0 | 67.2 | 51.3 |
| Mycogen | | 5N211R2 | 2.1 | RR2Y | 60.9 | 60.7 | 60.7 | 26 | 57.7 | 64.5 | 59.8 | 68.6 | 53.9 |
| Roeschley | | 2162CRX | 2.1 | RR2X | 59.1 | 59.9 | 58.1 | 27 | 56.8 | 64.4 | 58.5 | 63.7 | 52.0 |
| Dyna-Gro | | S21XT77 | 2.1 | RR2X | 58.9 | 59.5 | 58.4 | 27 | 56.9 | 62.1 | 59.6 | 66.7 | 49.1 |
| Renk | | RS213NR2 | 2.1 | RR2Y | 58.9 | 60.3 | 57.9 | 26 | 56.7 | 63.8 | 60.3 | 66.3 | 47.2 |
| Asgrow | | AG21X7 | 2.1 | RR2X | 57.1 | 59.3 | 55.5 | 28 | 57.7 | 60.9 | 59.2 | 59.9 | 47.4 |
| Credenz | | CZ 2101 LL | 2.1 | LL | 56.7 | 57.9 | 56.6 | 26 | 54.3 | 59.8 | 59.7 | 58.9 | 51.3 |
| Beck's | | 2119X2 | 2.1 | RR2X | 56.6 | 57.8 | 56.7 | 28 | 54.2 | 59.6 | 59.5 | 63.9 | 46.6 |
| Dairyland | | DSR-2110/R2Y | 2.1 | RR2Y | 55.4 | 56.1 | 54.6 | 28 | 53.7 | 59.5 | 54.9 | 65.3 | 43.7 |
| Titan Pro | | TP-21L15 | 2.1 | LL | 55.2 | 55.9 | 55.2 | 26 | 52.8 | 57.7 | 57.3 | 58.4 | 49.9 |
| Merschman | | Ute 1821LL | 2.1 | LL | 54.9 | 56.2 | 54.6 | 26 | 54.1 | 56.4 | 58.1 | 58.1 | 47.6 |
| Great Lakes | | 2269NR2 | 2.2 | RR2Y | 61.5 | 61.6 | 61.6 | 25 | 58.6 | 64.3 | 61.9 | 69.5 | 53.4 |
| Viking | | 2299N | 2.2 | Conv | 61.4 | 61.1 | 61.5 | 29 | 60.9 | 62.0 | 60.6 | 66.3 | 57.8 |
| Viking | | 2188AT12N | 2.2 | Conv | 60.9 | 60.5 | 61.2 | 34 | 59.1 | 62.1 | 60.2 | 63.7 | 59.6 |
| Cornelius | | CB22R88 | 2.2 | RR2Y | 60.4 | 60.2 | 59.6 | 26 | 57.0 | 66.1 | 57.3 | 66.6 | 54.8 |
| Pioneer | | P22T69R | 2.2 | RR1 | 59.6 | 59.2 | 60.2 | 27 | 56.4 | 61.4 | 59.8 | 67.7 | 53.2 |
| Prairie Brand | | PB-2228R2 | 2.2 | RR2Y | 58.7 | 58.5 | 58.5 | 29 | 58.0 | 59.9 | 57.6 | 68.7 | 49.3 |
| Pioneer | | P22T73R | 2.2 | RR1 | 58.0 | 58.5 | 58.3 | 26 | 53.7 | 60.9 | 61.0 | 67.2 | 46.8 |
| Cornelius | | CB22X73 | 2.2 | RR2X | 57.2 | 57.5 | 58.4 | 29 | 53.6 | 57.4 | 61.3 | 64.6 | 49.2 |
| Renk | | RS228NX | 2.2 | RR2X | 57.1 | 57.0 | 57.9 | 27 | 51.9 | 59.6 | 59.6 | 66.5 | 47.6 |
| Roeschley | | 2267CRR2 | 2.2 | Conv | 56.1 | 56.3 | 56.8 | 28 | 52.5 | 57.7 | 58.7 | 65.0 | 46.7 |
| Experiment Mean | | | | | 58.4 | | | 27 | 56.4 | 60.5 | 60.0 | 65.1 | 49.9 |
| Minimum Mean | | | | | 53.3 | | | 24 | 51.9 | 54.1 | 54.9 | 56.3 | 41.6 |
| Maximum Mean | | | | | 61.7 | | | 34 | 60.9 | 66.1 | 64.5 | 69.6 | 59.6 |
| LSD(0.25) | | | | | 1.9 | | | 1 | 1.5 | 2.8 | 1.9 | 1.9 | 2.8 |
| Coefficient of Variability | | | | | 4.3 | | | | 3.2 | 5.6 | 3.8 | 3.6 | 6.7 |

Table 7. North district, 2017 district and single-location means. Full-season test, MG > 2.2.

| Company | non SCN | Variety | MG | Herb Tech | District Means | | | | Single Location Yield | | | | |
|-----------------------------------|------------|-----------------|-----|--------------|----------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|-------------|
| | | | | | Yield Bu/A | NW Yield | NE Yield | Mat. Date | Sutherland | Corwith | Kensett | Nashua | Maynard |
| Dyna-Gro | | S23RY85 | 2.3 | RR2Y | 61.7 | 61.5 | 62.1 | 26 | 56.8 | 65.0 | 62.7 | 69.4 | 54.2 |
| Dairyland | | DSR-2330/R2Y | 2.3 | RR2Y | 59.4 | 60.7 | 58.6 | 28 | 57.1 | 63.7 | 61.3 | 63.1 | 51.6 |
| Dyna-Gro | | S23XT78 | 2.3 | RR2X | 58.8 | 58.8 | 58.9 | 29 | 55.9 | 62.3 | 58.2 | 66.2 | 52.1 |
| NorthStar Genetics | | NS 2362NR2 | 2.3 | RR2Y | 58.7 | 58.2 | 59.6 | 27 | 54.3 | 60.4 | 60.0 | 66.5 | 52.5 |
| Credenz | | CZ 2312 LL | 2.3 | LL | 57.6 | 57.6 | 58.2 | 28 | 57.6 | 55.4 | 59.6 | 66.5 | 48.5 |
| Asgrow | | AG23X8 | 2.3 | RR2X | 57.2 | 58.3 | 57.0 | 29 | 54.3 | 60.7 | 59.9 | 66.2 | 44.8 |
| Producers Hybrids | | 2316NRX | 2.3 | RR2X | 56.7 | 57.7 | 56.5 | 28 | 55.2 | 58.6 | 59.3 | 63.0 | 47.3 |
| Dyna-Gro | | S24RY87 | 2.4 | RR2Y | 61.1 | 61.4 | 61.5 | 28 | 57.1 | 63.7 | 63.3 | 67.4 | 53.6 |
| Cornelius | | CB24X64 | 2.4 | RR2X | 60.5 | 60.4 | 60.0 | 30 | 60.0 | 62.5 | 58.8 | 67.3 | 54.0 |
| Asgrow | | AG24X7 | 2.4 | RR2X | 60.4 | 60.4 | 59.9 | 31 | 59.1 | 63.3 | 58.7 | 65.8 | 55.2 |
| Titan Pro | | TP-24X87 | 2.4 | RR2X | 60.4 | 61.9 | 59.2 | 32 | 58.7 | 66.3 | 60.8 | 65.1 | 51.6 |
| Titan Pro | | TP-24L27 | 2.4 | LL | 60.3 | 59.1 | 62.3 | 29 | 57.0 | 57.8 | 62.5 | 65.3 | 59.1 |
| Cornelius | | CB24R82 | 2.4 | RR2Y | 60.2 | 60.0 | 61.2 | 28 | 56.6 | 61.1 | 62.3 | 67.5 | 53.6 |
| Titan Pro | | TP-24R26 | 2.4 | RR2Y | 60.2 | 60.2 | 61.0 | 29 | 57.0 | 61.1 | 62.6 | 66.0 | 54.4 |
| Mycogen | | 5N245R2 | 2.4 | RR2Y | 59.6 | 58.7 | 60.1 | 31 | 56.9 | 60.6 | 58.7 | 66.4 | 55.3 |
| Renk | | RS246NR2 | 2.4 | RR2Y | 59.1 | 59.3 | 59.1 | 28 | 54.0 | 63.9 | 60.1 | 64.7 | 52.6 |
| Renk | | RS248NX | 2.4 | RR2X | 58.1 | 58.4 | 58.5 | 30 | 55.4 | 60.0 | 59.8 | 66.7 | 48.9 |
| Pioneer | | P24T93R | 2.4 | RR1 | 58.1 | 59.4 | 58.2 | 33 | 55.2 | 60.6 | 62.3 | 59.4 | 52.9 |
| Credenz | | CZ 2408 LL | 2.4 | LL | 57.3 | 57.3 | 58.8 | 30 | 59.3 | 51.1 | 61.4 | 64.2 | 50.7 |
| Great Lakes | | 2551NR2 | 2.5 | RR2Y | 60.6 | 59.9 | 60.4 | 30 | 59.4 | 62.5 | 57.9 | 67.8 | 55.4 |
| Viking | | O.2399AT12N | 2.5 | Conv | 60.6 | 61.5 | 60.6 | 35 | 58.7 | 62.4 | 63.4 | 61.2 | 57.3 |
| Credenz | | CZ 2558 EXP | 2.5 | B-GT | 60.3 | 60.0 | 60.4 | 32 | 55.5 | 64.5 | 59.9 | 68.4 | 52.9 |
| Producers Hybrids | | 2516NRX | 2.5 | RR2X | 60.2 | 61.4 | 59.5 | 30 | 58.9 | 64.2 | 61.1 | 66.4 | 50.9 |
| Pioneer | | P25T51R | 2.5 | RR1 | 59.8 | 60.6 | 59.7 | 30 | 56.4 | 63.7 | 61.8 | 62.9 | 54.4 |
| Beck's | | 2559X2 | 2.5 | RR2X | 59.2 | 60.8 | 58.1 | 33 | 58.1 | 64.0 | 60.4 | 60.3 | 53.5 |
| Miller | | Proline 25159LL | 2.5 | LL | 58.9 | 58.2 | 61.0 | 31 | 58.0 | 53.2 | 63.5 | 65.0 | 54.6 |
| Titan Pro | | TP-26R35 | 2.6 | RR2Y | 61.7 | 62.8 | 61.0 | 35 | 63.6 | 61.9 | 63.1 | 66.7 | 53.2 |
| Renk | | RS265NR2 | 2.6 | RR2Y | 61.1 | 61.7 | 61.3 | 33 | 62.8 | 58.5 | 63.8 | 67.0 | 53.3 |
| Dairyland | | DSR-2616/R2Y | 2.6 | RR2Y | 60.9 | 61.2 | 60.8 | 33 | 63.8 | 58.3 | 61.6 | 69.5 | 51.3 |
| Titan Pro | | TP-26L85 | 2.6 | LL | 60.5 | 59.9 | 61.2 | 30 | 58.3 | 60.6 | 61.0 | 64.7 | 57.8 |
| Credenz | | CZ 2601 LL | 2.6 | LL | 60.1 | 60.5 | 60.6 | 30 | 58.1 | 60.7 | 62.6 | 62.8 | 56.3 |
| Dyna-Gro | | S26RS75 | 2.6 | RR2Y | 59.1 | 59.5 | 59.1 | 31 | 56.9 | 61.2 | 60.5 | 63.2 | 53.6 |
| Mycogen | | M68378NR2 | 2.6 | RR2Y | 58.7 | 58.8 | 58.3 | 29 | 55.8 | 62.6 | 57.9 | 60.7 | 56.4 |
| Cornelius | | CB26X70 | 2.6 | RR2X | 58.7 | 58.8 | 59.3 | 35 | 56.5 | 59.1 | 60.8 | 61.8 | 55.2 |
| Asgrow | | AG26X8 | 2.6 | RR2X | 58.1 | 59.1 | 57.9 | 33 | 56.7 | 60.7 | 59.9 | 65.7 | 47.9 |
| Titan Pro | | TP-26X37 | 2.6 | RR2X | 57.4 | 57.2 | 58.1 | 33 | 55.0 | 57.7 | 58.8 | 60.5 | 54.9 |
| Great Lakes | | 2673NRX | 2.6 | RR2X | 57.3 | 57.4 | 57.4 | 32 | 57.9 | 56.4 | 57.9 | 61.3 | 53.0 |
| Producers Hybrids | | 2616NRX | 2.6 | RR2X | 57.0 | 56.9 | 57.5 | 33 | 56.6 | 55.8 | 58.4 | 61.8 | 52.4 |
| Four Star | | 3X261 | 2.6 | RR2X | 56.6 | 56.4 | 57.1 | 33 | 53.4 | 58.3 | 57.5 | 61.7 | 52.2 |
| Renk | | RS268NX | 2.6 | RR2X | 54.4 | 54.5 | 54.3 | 30 | 52.9 | 56.0 | 54.6 | 59.6 | 48.6 |
| Iowa State | | IA2102 | 2.7 | Conv | 61.9 | 62.0 | 60.9 | 30 | 61.9 | 64.7 | 59.5 | 65.2 | 58.1 |
| Iowa State | | IA2112RA12 | 2.7 | Conv | 61.2 | 62.3 | 60.6 | 35 | 60.5 | 63.5 | 63.0 | 60.1 | 58.6 |
| Cornelius | | CB27X81 | 2.7 | RR2X | 60.4 | 60.1 | 60.3 | 34 | 58.9 | 62.4 | 58.8 | 63.4 | 58.6 |
| Beck's | | 274L4 | 2.7 | LL | 58.7 | 58.6 | 59.7 | 31 | 58.0 | 56.9 | 60.9 | 62.4 | 55.9 |
| Four Star | | 3X271 | 2.7 | RR2X | 58.6 | 58.1 | 58.9 | 33 | 55.9 | 60.8 | 57.6 | 65.1 | 53.9 |
| Experiment Mean | | | | | 59.3 | | | 31 | 57.5 | 60.6 | 60.4 | 64.5 | 53.4 |
| Minimum Mean | | | | | 54.4 | | | 26 | 52.9 | 51.1 | 54.6 | 59.4 | 44.8 |
| Maximum Mean | | | | | 61.9 | | | 35 | 63.8 | 66.3 | 63.8 | 69.5 | 59.1 |
| LSD(0.25) | | | | | 1.9 | | | 1 | 1.5 | 2.8 | 1.9 | 1.9 | 2.8 |
| Coefficient of Variability | | | | | 4.3 | | | | 3.2 | 5.6 | 3.8 | 3.6 | 6.7 |

Table 8. Central district, 2017 district and single-location means. Early-season test, MG ≤ 2.7.

| Company | non SCN | Variety | MG | Herb Tech | District Means | | | | Single Location Yield | | | | |
|----------------------------|------------|-----------------|-----|--------------|----------------|-------------|-------------|--------------|-----------------------|---------|------|--------|--------|
| | | | | | Yield Bu/A | CW Yield | CE Yield | Mat. Date | Missouri Valley | Glidden | Ames | Walker | Lowden |
| Cornelius | | CB23X45 | 2.3 | RR2X | 59.6 | 63.1 | 58.4 | 27 | 60.1 | 62.7 | 66.5 | 52.3 | 56.4 |
| Dyna-Gro | | S23XT78 | 2.3 | RR2X | 59.2 | 63.4 | 58.1 | 25 | 60.4 | 62.0 | 67.9 | 51.2 | 55.4 |
| Credenz | | CZ 2312 LL | 2.3 | LL | 58.1 | 63.4 | 55.3 | 26 | 57.4 | 67.6 | 65.2 | 43.3 | 57.3 |
| Merschman | | Apache 1823GT | 2.3 | GT | 57.2 | 59.8 | 56.0 | 25 | 53.2 | 64.7 | 61.4 | 48.8 | 57.8 |
| Producers Hybrids | | 2316NRX | 2.3 | RR2X | 57.1 | 59.9 | 55.5 | 28 | 57.9 | 60.3 | 61.5 | 49.6 | 55.4 |
| Merschman | | Chippewa 1523LL | 2.3 | LL | 56.2 | 63.1 | 51.8 | 25 | 58.7 | 66.6 | 64.1 | 38.9 | 52.4 |
| Asgrow | | AG23X8 | 2.3 | RR2X | 56.1 | 61.4 | 53.3 | 24 | 61.2 | 60.5 | 62.5 | 46.0 | 51.6 |
| Pioneer | | P24T93R | 2.4 | RR1 | 62.9 | 67.4 | 61.3 | 30 | 69.3 | 61.7 | 71.3 | 54.0 | 58.6 |
| Titan Pro | | TP-24R26 | 2.4 | RR2Y | 62.5 | 66.6 | 60.2 | 26 | 66.8 | 65.4 | 67.7 | 53.7 | 59.1 |
| Titan Pro | | TP-24L27 | 2.4 | LL | 62.0 | 64.9 | 60.1 | 23 | 65.1 | 64.5 | 64.9 | 55.6 | 59.8 |
| Dyna-Gro | | S24LL98 | 2.4 | LL | 61.7 | 66.4 | 60.0 | 25 | 62.2 | 66.3 | 70.8 | 54.8 | 54.6 |
| Titan Pro | | TP-24X87 | 2.4 | RR2X | 61.4 | 66.8 | 59.6 | 26 | 63.8 | 65.0 | 71.7 | 52.0 | 55.2 |
| Merschman | | Osage 1824LL | 2.4 | LL | 61.1 | 64.5 | 60.9 | 23 | 60.4 | 63.2 | 69.9 | 56.7 | 56.0 |
| Asgrow | | AG24X7 | 2.4 | RR2X | 61.0 | 65.2 | 59.9 | 29 | 60.0 | 65.4 | 70.1 | 48.3 | 61.2 |
| Prairie Brand | | PB-2486R2 | 2.4 | RR2Y | 60.9 | 64.4 | 59.8 | 26 | 65.4 | 61.1 | 66.8 | 52.9 | 59.8 |
| Mycogen | | 5N245R2 | 2.4 | RR2Y | 60.9 | 63.3 | 61.6 | 27 | 59.0 | 60.7 | 70.2 | 53.2 | 61.5 |
| Cornelius | | CB24X64 | 2.4 | RR2X | 60.9 | 66.7 | 58.6 | 25 | 62.7 | 66.9 | 70.5 | 50.8 | 54.4 |
| Renk | | RS246NR2 | 2.4 | RR2Y | 60.7 | 63.0 | 60.7 | 25 | 58.5 | 62.9 | 67.7 | 54.9 | 59.5 |
| Renk | | RS248NX | 2.4 | RR2X | 60.4 | 64.4 | 58.8 | 26 | 64.4 | 62.0 | 66.8 | 53.7 | 55.8 |
| Cornelius | | CB24R82 | 2.4 | RR2Y | 59.7 | 62.0 | 58.4 | 26 | 57.4 | 65.1 | 63.3 | 53.2 | 58.6 |
| Dyna-Gro | | S24RY87 | 2.4 | RR2Y | 59.4 | 61.3 | 60.0 | 26 | 57.1 | 60.5 | 66.3 | 53.7 | 60.1 |
| Roeschley | | 2467CRR2 | 2.4 | RR2Y | 59.3 | 64.3 | 57.2 | 27 | 61.4 | 63.7 | 67.9 | 51.5 | 52.4 |
| Credenz | | CZ 2408 LL | 2.4 | LL | 55.0 | 59.3 | 51.0 | 26 | 55.4 | 66.7 | 56.0 | 39.3 | 57.6 |
| Prairie Brand | | PB-2576R2 | 2.5 | RR2Y | 62.6 | 65.9 | 61.5 | 32 | 66.3 | 63.2 | 68.3 | 56.0 | 60.1 |
| Credenz | | CZ 2558 EXP | 2.5 | B-GT | 62.0 | 65.3 | 61.1 | 26 | 60.1 | 66.9 | 68.9 | 56.8 | 57.5 |
| Great Lakes | | 2551NR2 | 2.5 | RR2Y | 61.0 | 64.4 | 59.6 | 25 | 59.8 | 66.5 | 66.9 | 53.7 | 58.1 |
| Pioneer | | P25T51R | 2.5 | RR1 | 60.7 | 62.7 | 61.1 | 29 | 60.7 | 60.1 | 67.2 | 52.5 | 63.6 |
| Merschman | | Mohawk 1825GT | 2.5 | GT | 59.7 | 62.5 | 58.9 | 27 | 57.5 | 64.5 | 65.5 | 50.2 | 60.9 |
| Beck's | | 2559X2 | 2.5 | RR2X | 59.7 | 63.9 | 57.0 | 33 | 64.5 | 63.4 | 64.0 | 51.2 | 55.7 |
| Producers Hybrids | | 2516NRX | 2.5 | RR2X | 59.7 | 65.0 | 56.8 | 24 | 64.0 | 63.8 | 67.1 | 48.3 | 54.9 |
| Miller | | 2659CLL | 2.6 | LL | 62.9 | 65.7 | 62.9 | 26 | 58.6 | 67.4 | 71.2 | 55.5 | 62.2 |
| Titan Pro | | TP-26X37 | 2.6 | RR2X | 62.7 | 67.4 | 60.1 | 36 | 66.9 | 66.5 | 68.7 | 55.3 | 56.2 |
| Titan Pro | | TP-26L85 | 2.6 | LL | 62.4 | 65.5 | 61.1 | 25 | 64.9 | 64.3 | 67.2 | 60.3 | 55.9 |
| Merschman | | Comanche 1626LL | 2.6 | LL | 62.1 | 64.5 | 61.4 | 29 | 61.6 | 64.5 | 67.5 | 57.8 | 58.8 |
| Cornelius | | CB26X70 | 2.6 | RR2X | 62.0 | 66.6 | 59.6 | 31 | 64.4 | 66.1 | 69.2 | 54.5 | 55.2 |
| Producers Hybrids | | 2616NRX | 2.6 | RR2X | 61.8 | 67.1 | 58.8 | 30 | 65.7 | 66.3 | 69.4 | 53.3 | 53.7 |
| Titan Pro | | TP-26R35 | 2.6 | RR2Y | 61.7 | 65.5 | 59.1 | 33 | 63.1 | 67.6 | 65.9 | 44.2 | 67.2 |
| Great Lakes | | 2673NRX | 2.6 | RR2X | 61.3 | 66.2 | 59.0 | 28 | 64.2 | 65.9 | 68.6 | 55.9 | 52.6 |
| Credenz | | CZ 2601 LL | 2.6 | LL | 61.3 | 64.2 | 60.2 | 26 | 62.7 | 63.2 | 66.8 | 55.5 | 58.3 |
| Mycogen | | M68378NR2 | 2.6 | RR2Y | 60.6 | 64.0 | 59.3 | 31 | 60.6 | 65.8 | 65.7 | 53.0 | 59.2 |
| Renk | | RS265NR2 | 2.6 | RR2Y | 60.6 | 63.8 | 58.1 | 30 | 64.0 | 62.9 | 64.6 | 44.5 | 65.1 |
| Four Star | | 3X261 | 2.6 | RR2X | 60.5 | 66.8 | 56.3 | 29 | 66.7 | 66.1 | 67.5 | 50.2 | 51.1 |
| Dyna-Gro | | S26RS75 | 2.6 | RR2Y | 60.1 | 63.6 | 58.5 | 27 | 62.1 | 63.0 | 65.6 | 54.3 | 55.5 |
| Merschman | | Shawnee 1826GT | 2.6 | GT | 59.7 | 62.5 | 59.4 | 27 | 56.0 | 64.4 | 67.1 | 50.4 | 60.9 |
| Asgrow | | AG26X8 | 2.6 | RR2X | 59.5 | 64.3 | 56.5 | 30 | 66.0 | 61.1 | 65.9 | 46.1 | 57.6 |
| Renk | | RS268NX | 2.6 | RR2X | 58.8 | 62.0 | 56.3 | 28 | 62.3 | 62.5 | 61.1 | 51.9 | 55.8 |
| Dairyland | | DSR-2616/R2Y | 2.6 | RR2Y | 57.5 | 60.5 | 57.6 | 29 | 50.3 | 64.7 | 66.6 | 43.1 | 62.9 |
| Roeschley | | 2672CRX | 2.6 | RR2X | 57.0 | 64.2 | 51.9 | 33 | 65.2 | 63.2 | 64.2 | 40.8 | 50.6 |
| Roeschley | | 2657CRR2 | 2.6 | RR2Y | 56.7 | 62.7 | 52.1 | 30 | 64.5 | 63.6 | 60.1 | 33.4 | 62.8 |
| Public-OH | * | Summit | 2.6 | Conv | 53.3 | 56.0 | 53.7 | 27 | 42.0 | 62.8 | 63.1 | 39.2 | 58.7 |
| Cornelius | | CB27X81 | 2.7 | RR2X | 63.5 | 67.6 | 61.2 | 30 | 69.5 | 64.1 | 69.1 | 54.8 | 59.7 |
| Iowa State | | IA2102 | 2.7 | Conv | 62.6 | 66.9 | 60.8 | 26 | 65.3 | 65.2 | 70.1 | 56.5 | 55.7 |
| Four Star | | 3X271 | 2.7 | RR2X | 61.8 | 66.3 | 59.0 | 35 | 67.9 | 64.2 | 66.9 | 51.4 | 58.8 |
| Beck's | | 274L4 | 2.7 | LL | 60.9 | 65.7 | 59.4 | 25 | 63.9 | 62.9 | 70.4 | 51.7 | 56.1 |
| Iowa State | | IA2112RA12 | 2.7 | Conv | 60.1 | 64.3 | 59.3 | 39 | 58.0 | 64.4 | 70.4 | 51.7 | 55.9 |
| Asgrow | | AG27X7 | 2.7 | RR2X | 59.2 | 61.1 | 60.2 | 29 | 55.4 | 59.2 | 68.9 | 53.4 | 58.4 |
| Experiment Mean | | | | | 60.2 | | | 28 | 61.5 | 64.0 | 66.8 | 51.0 | 57.6 |
| Minimum Mean | | | | | 53.3 | | | 23 | 42.0 | 59.2 | 56.0 | 33.4 | 50.6 |
| Maximum Mean | | | | | 63.5 | | | 39 | 69.5 | 67.6 | 71.7 | 60.3 | 67.2 |
| LSD(0.25) | | | | | 2.7 | | | 3 | 3.1 | 2.7 | 3.2 | 3.1 | 2.5 |
| Coefficient of Variability | | | | | 5.3 | | | | 6.2 | 5.0 | 5.7 | 7.1 | 5.1 |

Table 9. Central district, 2017 district and single-location means. Full-season test, MG > 2.7.

| Company | non SCN | Variety | MG | Herb Tech | District Means | | | | Single Location Yield | | | | |
|-----------------------------------|------------|-----------------|-----|--------------|----------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|-------------|
| | | | | | Yield Bu/A | CW Yield | CE Yield | Mat. Date | Missouri Valley | Glidden | Ames | Walker | Lowden |
| Great Lakes | | 2870NRX | 2.8 | RR2X | 65.6 | 69.1 | 63.4 | 35 | 72.9 | 63.9 | 70.6 | 60.1 | 59.5 |
| Titan Pro | | TP-28X47 | 2.8 | RR2X | 64.3 | 68.5 | 63.3 | 34 | 66.6 | 65.6 | 73.2 | 55.9 | 60.8 |
| Prairie Brand | | PB-2876R2 | 2.8 | RR2Y | 63.6 | 66.7 | 61.9 | 34 | 65.7 | 66.8 | 67.5 | 57.0 | 61.2 |
| Beck's | | 2899X2 | 2.8 | RR2X | 63.4 | 67.3 | 61.6 | 33 | 67.2 | 64.9 | 69.9 | 57.1 | 57.7 |
| Pioneer | | P28T08R | 2.8 | RR1 | 63.3 | 64.7 | 63.7 | 31 | 59.4 | 65.7 | 68.8 | 57.1 | 65.1 |
| Dyna-Gro | | S28XT58 | 2.8 | RR2X | 63.3 | 67.5 | 61.9 | 34 | 70.2 | 60.8 | 71.4 | 54.6 | 59.6 |
| Credenz | | CZ 2878 EXP | 2.8 | B-GT | 63.0 | 66.5 | 62.1 | 31 | 63.1 | 65.6 | 70.9 | 58.5 | 56.7 |
| Cornelius | | CB28R58 | 2.8 | RR2Y | 62.9 | 65.0 | 61.3 | 38 | 64.6 | 64.7 | 65.5 | 56.2 | 62.1 |
| Roeschley | | 2872CRX | 2.8 | RR2X | 62.4 | 67.3 | 60.6 | 36 | 66.8 | 63.3 | 71.6 | 53.3 | 56.9 |
| Renk | | RS288NX | 2.8 | RR2X | 61.5 | 65.9 | 59.3 | 32 | 66.7 | 63.1 | 68.1 | 49.9 | 60.0 |
| Merschman | | Sioux 1628LL | 2.8 | LL | 61.2 | 63.1 | 61.5 | 39 | 58.0 | 63.7 | 67.5 | 55.8 | 61.0 |
| Cornelius | | CB28X73 | 2.8 | RR2X | 61.0 | 63.2 | 60.9 | 31 | 62.8 | 60.1 | 66.7 | 53.9 | 62.1 |
| Producers Hybrids | | 2816NRX | 2.8 | RR2X | 60.3 | 63.5 | 60.5 | 32 | 58.1 | 61.8 | 70.5 | 50.9 | 60.0 |
| Iowa State | | IA2102RA12 | 2.8 | Conv | 60.1 | 62.7 | 61.3 | 35 | 50.9 | 65.3 | 71.9 | 56.2 | 55.8 |
| Titan Pro | | TP-29L67 | 2.9 | LL | 64.0 | 66.8 | 63.5 | 35 | 61.9 | 67.3 | 71.3 | 56.7 | 62.5 |
| Producers Hybrids | | 2916NRX | 2.9 | RR2X | 62.8 | 66.9 | 60.3 | 32 | 67.7 | 65.7 | 67.3 | 53.9 | 59.8 |
| Dairyland | | DSR-2909/R2Y | 2.9 | RR2Y | 62.3 | 63.9 | 61.9 | 34 | 60.3 | 64.5 | 66.9 | 58.5 | 60.4 |
| Cornelius | | CB29R69 | 2.9 | RR2Y | 61.8 | 63.9 | 59.8 | 30 | 65.7 | 63.1 | 62.8 | 54.7 | 62.0 |
| Merschman | | Cherokee 1829GT | 2.9 | GT | 61.7 | 65.3 | 61.2 | 35 | 58.9 | 67.1 | 69.9 | 52.7 | 60.9 |
| Beck's | | 296L4 | 2.9 | LL | 61.4 | 64.1 | 61.3 | 39 | 59.8 | 63.4 | 69.1 | 60.8 | 54.1 |
| Miller | | 2670CBGT | 2.9 | B-GT | 61.1 | 64.0 | 60.6 | 26 | 58.2 | 65.9 | 67.9 | 52.2 | 61.7 |
| Prairie Brand | | PB-2917R2 | 2.9 | RR2Y | 60.7 | 60.4 | 61.1 | 42 | 56.4 | 63.3 | 61.4 | 57.5 | 64.4 |
| Prairie Brand | | PB-2997R2 | 2.9 | RR2Y | 60.6 | 61.8 | 60.5 | 39 | 57.8 | 63.4 | 64.3 | 56.4 | 60.8 |
| Credenz | | CZ 2915 LL | 2.9 | LL | 60.3 | 63.0 | 59.7 | 37 | 57.5 | 65.1 | 66.5 | 55.6 | 57.0 |
| Asgrow | | AG29X8 | 2.9 | RR2X | 59.7 | 63.6 | 56.6 | 27 | 63.6 | 63.6 | 63.6 | 47.5 | 58.8 |
| Titan Pro | | TP-30X77 | 3.0 | RR2X | 64.5 | 67.6 | 64.1 | 35 | 62.1 | 67.3 | 73.4 | 58.4 | 60.4 |
| Great Lakes | | 3055NRX | 3.0 | RR2X | 61.5 | 62.6 | 61.5 | 38 | 61.3 | 62.0 | 64.5 | 55.6 | 64.3 |
| Mycogen | | 5N306R2 | 3.0 | RR2Y | 61.0 | 63.0 | 62.1 | 40 | 58.5 | 60.1 | 70.4 | 55.3 | 60.5 |
| Four Star | | 3X300 | 3.0 | RR2X | 60.6 | 62.5 | 60.5 | 34 | 58.6 | 62.7 | 66.2 | 53.1 | 62.0 |
| Roeschley | | 3072CRX | 3.0 | RR2X | 60.5 | 62.5 | 62.2 | 40 | 56.1 | 60.9 | 70.4 | 52.4 | 63.9 |
| Dyna-Gro | | S30XT96 | 3.0 | RR2X | 60.2 | 61.5 | 60.3 | 34 | 59.8 | 60.9 | 63.9 | 55.6 | 61.4 |
| Dairyland | | DSR-3028/R2Y | 3.0 | RR2Y | 59.7 | 60.2 | 60.2 | 46 | 56.6 | 61.0 | 63.0 | 53.7 | 63.8 |
| Asgrow | | AG30X8 | 3.0 | RR2X | 58.5 | 58.6 | 60.9 | 40 | 49.2 | 60.2 | 66.5 | 52.4 | 63.8 |
| Pioneer | | P31T11R | 3.1 | RR1 | 64.7 | 66.9 | 64.2 | 35 | 64.9 | 65.2 | 70.8 | 55.4 | 66.5 |
| Titan Pro | | TP-31X26 | 3.1 | RR2X | 61.8 | 63.4 | 62.0 | 37 | 61.4 | 61.3 | 67.5 | 59.3 | 59.0 |
| Cornelius | | CB31X13 | 3.1 | RR2X | 61.3 | 64.5 | 59.6 | 39 | 63.9 | 63.0 | 66.5 | 55.8 | 56.6 |
| Merschman | | McKinley 1731LL | 3.1 | LL | 61.1 | 63.7 | 59.3 | 43 | 63.4 | 63.4 | 64.4 | 51.3 | 62.2 |
| Merschman | | Arthur 1831GT | 3.1 | GT | 59.8 | 61.7 | 60.6 | 36 | 54.6 | 63.9 | 66.7 | 55.4 | 59.9 |
| Beck's | | 3153X2 | 3.1 | RR2X | 58.6 | 63.8 | 55.1 | 38 | 61.8 | 65.1 | 64.6 | 46.2 | 54.5 |
| Dyna-Gro | | S31XT48 | 3.1 | RR2X | 57.9 | 57.4 | 60.4 | 41 | 50.3 | 57.7 | 64.1 | 53.8 | 63.2 |
| Credenz | | CZ 3233 LL | 3.2 | LL | 64.6 | 65.7 | 64.4 | 40 | 65.9 | 63.5 | 67.6 | 62.3 | 63.3 |
| Dairyland | | DSR-3250/R2Y | 3.2 | RR2Y | 64.1 | 63.8 | 66.7 | 45 | 56.1 | 64.0 | 71.2 | 60.4 | 68.4 |
| Mycogen | | 5N327R2 | 3.2 | RR2Y | 62.0 | 65.7 | 60.7 | 38 | 61.8 | 67.1 | 68.1 | 55.2 | 58.7 |
| Credenz | | CZ 3234 LL | 3.2 | LL | 61.6 | 65.2 | 59.6 | 41 | 65.5 | 64.0 | 66.0 | 56.2 | 56.4 |
| Four Star | | 3X320 | 3.2 | RR2X | 60.6 | 62.8 | 60.1 | 37 | 59.5 | 62.8 | 66.1 | 51.3 | 62.9 |
| Asgrow | | AG32X6 | 3.2 | RR2X | 59.7 | 63.7 | 58.5 | 33 | 63.0 | 60.7 | 67.4 | 50.9 | 57.1 |
| Renk | | RS328NX | 3.2 | RR2X | 58.9 | 59.3 | 60.2 | 42 | 55.3 | 58.6 | 63.8 | 53.8 | 62.8 |
| Experiment Mean | | | | | 61.6 | | | 36 | 61.1 | 63.5 | 67.6 | 55.0 | 60.7 |
| Minimum Mean | | | | | 57.9 | | | 26 | 49.2 | 57.7 | 61.4 | 46.2 | 54.1 |
| Maximum Mean | | | | | 65.6 | | | 46 | 72.9 | 67.3 | 73.4 | 62.3 | 68.4 |
| LSD(0.25) | | | | | 2.7 | | | 3 | 3.1 | 2.7 | 3.2 | 3.1 | 2.5 |
| Coefficient of Variability | | | | | 5.3 | | | | 6.2 | 5.0 | 5.7 | 7.1 | 5.1 |

Table 10. South district, 2017 district and single-location means. Early-season test, MG ≤ 3.2.

| Company | non SCN | Variety | MG | Herb Tech | District Means | | | | Single Location Yield | | | | |
|-----------------------------------|------------|-----------------|-----|--------------|----------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|----------------|
| | | | | | Yield Bu/A | SW Yield | SE Yield | Mat. Date | Lewis | Corning | Milo | Batavia | Crawfordsville |
| Dyna-Gro | | S28XT58 | 2.8 | RR2X | 61.3 | 63.1 | 58.3 | 27 | 72.1 | 59.5 | 57.6 | 49.4 | 68.0 |
| Cornelius | | CB28R58 | 2.8 | RR2Y | 61.3 | 65.8 | 56.5 | 26 | 75.3 | 61.9 | 60.2 | 42.9 | 66.4 |
| Great Lakes | | 2870NRX | 2.8 | RR2X | 60.6 | 63.7 | 56.3 | 28 | 73.5 | 60.2 | 57.3 | 45.0 | 66.6 |
| Titan Pro | | TP-28X47 | 2.8 | RR2X | 59.9 | 60.8 | 57.0 | 29 | 70.8 | 57.7 | 53.9 | 49.4 | 67.6 |
| Merschman | | Sioux 1628LL | 2.8 | LL | 59.3 | 62.0 | 57.0 | 26 | 68.7 | 56.6 | 60.6 | 40.1 | 70.1 |
| LG Seeds | | C2888RX | 2.8 | RR2X | 59.1 | 61.4 | 56.0 | 29 | 72.5 | 55.1 | 56.6 | 46.3 | 65.1 |
| Credenz | | CZ 2878 EXP | 2.8 | B-GT | 58.5 | 62.0 | 54.9 | 25 | 71.0 | 57.1 | 57.8 | 40.9 | 66.0 |
| Pioneer | | P28T08R | 2.8 | RR1 | 58.1 | 62.2 | 54.6 | 23 | 68.4 | 58.1 | 60.0 | 39.2 | 64.6 |
| Producers Hybrids | | 2816NRX | 2.8 | RR2X | 58.1 | 60.8 | 54.2 | 26 | 70.5 | 56.3 | 55.7 | 41.5 | 65.5 |
| Renk | | RS288NX | 2.8 | RR2X | 57.6 | 60.0 | 52.9 | 27 | 72.0 | 57.1 | 50.9 | 43.5 | 64.2 |
| Cornelius | | CB28X73 | 2.8 | RR2X | 55.9 | 57.0 | 53.7 | 23 | 66.5 | 52.3 | 52.3 | 44.1 | 64.7 |
| Iowa State | | IA2102RA12 | 2.8 | Conv | 55.5 | 57.6 | 53.1 | 23 | 64.8 | 52.9 | 55.2 | 41.7 | 62.3 |
| Titan Pro | | TP-29L67 | 2.9 | LL | 61.8 | 65.2 | 58.4 | 25 | 74.3 | 59.4 | 61.9 | 43.8 | 69.5 |
| Prairie Brand | | PB-2997R2 | 2.9 | RR2Y | 61.5 | 64.9 | 56.9 | 26 | 74.2 | 61.8 | 58.6 | 45.4 | 66.7 |
| Cornelius | | CB29R69 | 2.9 | RR2Y | 60.1 | 62.4 | 56.6 | 26 | 72.2 | 58.3 | 56.6 | 45.3 | 67.9 |
| Credenz | | CZ 2915 LL | 2.9 | LL | 59.6 | 62.4 | 56.8 | 23 | 68.9 | 58.6 | 59.8 | 45.9 | 64.6 |
| Beck's | | 296L4 | 2.9 | LL | 59.3 | 63.2 | 57.1 | 25 | 67.0 | 57.9 | 64.7 | 41.7 | 64.9 |
| Producers Hybrids | | 2916NRX | 2.9 | RR2X | 59.3 | 60.6 | 56.0 | 28 | 69.6 | 58.8 | 53.5 | 45.7 | 68.8 |
| Prairie Brand | | PB-2917R2 | 2.9 | RR2Y | 58.9 | 60.6 | 57.2 | 25 | 66.9 | 56.1 | 58.7 | 48.5 | 64.3 |
| Merschman | | Cherokee 1829GT | 2.9 | GT | 58.7 | 63.8 | 53.4 | 25 | 72.9 | 60.6 | 57.7 | 38.3 | 64.1 |
| Asgrow | | AG29X8 | 2.9 | RR2X | 56.1 | 58.8 | 53.0 | 27 | 70.9 | 51.0 | 54.6 | 42.5 | 61.9 |
| Titan Pro | | TP-30X77 | 3.0 | RR2X | 60.2 | 62.6 | 58.1 | 25 | 72.5 | 55.1 | 60.2 | 43.4 | 70.8 |
| Mycogen | | 5N306R2 | 3.0 | RR2Y | 59.7 | 62.0 | 57.4 | 28 | 66.5 | 60.4 | 59.1 | 47.7 | 65.5 |
| Asgrow | | AG30X8 | 3.0 | RR2X | 59.4 | 61.9 | 56.7 | 29 | 66.8 | 60.1 | 58.8 | 47.6 | 63.6 |
| Prairie Brand | | PB-3087R2 | 3.0 | RR2Y | 59.3 | 62.8 | 55.4 | 27 | 69.3 | 61.1 | 58.0 | 41.3 | 66.7 |
| Great Lakes | | 3055NRX | 3.0 | RR2X | 59.2 | 62.1 | 55.8 | 27 | 72.1 | 55.8 | 58.3 | 44.7 | 64.3 |
| Dyna-Gro | | S30XT96 | 3.0 | RR2X | 58.9 | 62.0 | 55.8 | 27 | 71.7 | 56.2 | 58.1 | 45.4 | 63.8 |
| Four Star | | 3X300 | 3.0 | RR2X | 58.4 | 61.0 | 54.4 | 28 | 69.6 | 59.0 | 54.4 | 45.7 | 63.0 |
| Cornelius | | CB31X13 | 3.1 | RR2X | 60.0 | 63.2 | 56.0 | 31 | 74.5 | 57.5 | 57.5 | 43.0 | 67.4 |
| Titan Pro | | TP-31X26 | 3.1 | RR2X | 59.9 | 62.5 | 55.8 | 29 | 72.6 | 59.4 | 55.5 | 46.6 | 65.3 |
| Roeschley | | 3155CRR2 | 3.1 | RR2Y | 59.3 | 62.8 | 53.6 | 27 | 72.1 | 62.8 | 53.6 | 43.7 | 63.6 |
| Pioneer | | P31T11R | 3.1 | RR1 | 59.3 | 62.5 | 55.6 | 29 | 70.1 | 59.5 | 57.8 | 41.6 | 67.4 |
| Merschman | | Arthur 1831GT | 3.1 | GT | 58.6 | 60.8 | 56.8 | 28 | 68.6 | 54.5 | 59.3 | 42.6 | 68.5 |
| Dyna-Gro | | S31XT48 | 3.1 | RR2X | 58.4 | 59.2 | 57.7 | 31 | 66.2 | 52.8 | 58.8 | 50.0 | 64.4 |
| Merschman | | McKinley 1731LL | 3.1 | LL | 58.1 | 60.2 | 54.4 | 33 | 68.4 | 58.4 | 53.7 | 46.4 | 63.2 |
| Beck's | | 3153X2 | 3.1 | RR2X | 56.8 | 61.4 | 51.1 | 32 | 73.2 | 57.3 | 53.8 | 39.0 | 60.5 |
| Mycogen | | 5N327R2 | 3.2 | RR2Y | 61.4 | 63.7 | 57.9 | 29 | 73.1 | 60.4 | 57.7 | 49.6 | 66.4 |
| Credenz | | CZ 3233 LL | 3.2 | LL | 60.5 | 60.3 | 61.2 | 26 | 63.3 | 55.0 | 62.7 | 53.2 | 67.6 |
| Four Star | | 3X320 | 3.2 | RR2X | 60.2 | 62.9 | 56.1 | 33 | 72.6 | 59.7 | 56.5 | 46.0 | 65.7 |
| Credenz | | CZ 3234 LL | 3.2 | LL | 58.6 | 61.5 | 55.9 | 33 | 66.4 | 59.1 | 59.0 | 46.2 | 62.4 |
| Producers Hybrids | | 3216NRX | 3.2 | RR2X | 58.3 | 60.5 | 55.5 | 31 | 70.1 | 55.4 | 56.0 | 46.9 | 63.7 |
| Roeschley | | CX3202N | 3.2 | RR2X | 58.3 | 60.1 | 56.7 | 28 | 66.3 | 54.3 | 59.8 | 45.9 | 64.5 |
| Pioneer | | P32T16R | 3.2 | RR1 | 57.8 | 61.6 | 53.5 | 26 | 71.6 | 56.9 | 56.1 | 41.9 | 62.5 |
| Renk | | RS328NX | 3.2 | RR2X | 57.0 | 59.4 | 54.7 | 32 | 66.7 | 54.3 | 57.3 | 44.4 | 62.4 |
| Asgrow | | AG32X6 | 3.2 | RR2X | 56.9 | 59.5 | 53.2 | 30 | 70.4 | 55.0 | 53.3 | 44.9 | 61.3 |
| Experiment Mean | | | | | 59.0 | | | 28 | 70.2 | 57.5 | 57.3 | 44.6 | 65.3 |
| Minimum Mean | | | | | 55.5 | | | 23 | 63.3 | 51.0 | 50.9 | 38.3 | 60.5 |
| Maximum Mean | | | | | 61.8 | | | 33 | 75.3 | 62.8 | 64.7 | 53.2 | 70.8 |
| LSD(0.25) | | | | | 2.1 | | | 2 | 2.2 | 2.4 | 2.5 | 3.5 | 2.2 |
| Coefficient of Variability | | | | | 4.8 | | | | 3.7 | 4.9 | 5.3 | 9.0 | 4.1 |

Table 11. South district, 2017 district and single-location means. Full-season test, MG > 3.2.

| Company | non SCN | Variety | MG | Herb Tech | District Means | | | | Single Location Yield | | | | |
|-----------------------------------|------------|-------------------|-----|--------------|----------------|-------------|-------------|--------------|-----------------------|-------------|-------------|-------------|----------------|
| | | | | | Yield Bu/A | SW Yield | SE Yield | Mat. Date | Lewis | Corning | Milo | Batavia | Crawfordsville |
| LG Seeds | | C3321R2 | 3.3 | RR2Y | 63.7 | 66.0 | 59.6 | 30 | 74.8 | 65.8 | 57.5 | 54.3 | 67.2 |
| MorSoy | | XP 1704 | 3.3 | RR2X | 61.3 | 60.9 | 59.5 | 39 | 69.5 | 57.7 | 55.3 | 55.4 | 67.8 |
| MorSoy | | 3357 RXT | 3.3 | RR2X | 60.4 | 62.0 | 58.3 | 28 | 69.1 | 57.4 | 59.5 | 52.0 | 63.5 |
| Dyna-Gro | | S33XT07 | 3.3 | RR2X | 59.9 | 61.7 | 57.8 | 31 | 68.1 | 58.4 | 58.8 | 49.0 | 65.7 |
| Asgrow | | AG33X8 | 3.3 | RR2X | 59.8 | 62.6 | 55.0 | 30 | 75.9 | 58.5 | 53.3 | 45.9 | 65.7 |
| Merschman | | Jefferson 1833GT | 3.3 | GT | 59.2 | 63.7 | 54.3 | 26 | 72.2 | 60.7 | 58.3 | 40.4 | 64.3 |
| Mycogen | | M68445NR2 | 3.3 | RR2Y | 56.3 | 58.2 | 53.4 | 32 | 65.0 | 56.5 | 53.0 | 45.4 | 62.0 |
| Credenz | | CZ 3458 EXP | 3.4 | B-GT | 63.3 | 66.1 | 60.0 | 31 | 74.0 | 62.9 | 61.3 | 47.6 | 71.2 |
| Titan Pro | | TP-34X86 | 3.4 | RR2X | 63.0 | 65.2 | 59.8 | 36 | 74.2 | 61.1 | 60.4 | 49.8 | 69.1 |
| Merschman | | Adams 1434LL | 3.4 | LL | 61.0 | 62.3 | 58.9 | 29 | 70.1 | 58.5 | 58.4 | 49.3 | 69.0 |
| LG Seeds | | C3489RX | 3.4 | RR2X | 60.9 | 62.8 | 57.9 | 34 | 71.5 | 58.8 | 58.0 | 49.0 | 66.8 |
| Prairie Brand | | PB-3487R2 | 3.4 | RR2Y | 60.3 | 62.4 | 57.0 | 37 | 71.9 | 59.0 | 56.4 | 48.2 | 66.4 |
| Dyna-Gro | | S34XT78 | 3.4 | RR2X | 59.8 | 61.8 | 56.7 | 35 | 70.7 | 57.8 | 56.8 | 49.6 | 63.8 |
| Renk | | RS348NX | 3.4 | RR2X | 59.1 | 61.4 | 55.9 | 35 | 72.5 | 55.7 | 55.9 | 49.9 | 62.0 |
| Public-OH | * | Lorain | 3.4 | Conv | 55.4 | 56.5 | 51.5 | 24 | 66.7 | 55.6 | 47.1 | 47.2 | 60.3 |
| Miller | | 3570CBGT | 3.5 | B-GT | 64.6 | 66.7 | 61.2 | 30 | 75.7 | 64.1 | 60.4 | 53.0 | 70.3 |
| Merschman | | Kennedy 1835GT | 3.5 | GT | 64.1 | 67.0 | 59.9 | 32 | 74.7 | 65.8 | 60.5 | 48.7 | 70.5 |
| LG Seeds | | C3550RX | 3.5 | RR2X | 63.8 | 65.3 | 61.1 | 37 | 74.0 | 61.7 | 60.2 | 52.0 | 71.1 |
| Renk | | RS357NX | 3.5 | RR2X | 61.9 | 63.7 | 59.3 | 34 | 73.5 | 58.0 | 59.6 | 50.0 | 68.2 |
| Dairyland | | DSR-3555/R2Y | 3.5 | RR2Y | 60.6 | 62.6 | 56.7 | 34 | 72.9 | 60.5 | 54.5 | 48.5 | 66.9 |
| Titan Pro | | TP-35X17 | 3.5 | RR2X | 60.6 | 62.2 | 57.8 | 34 | 70.3 | 59.3 | 56.9 | 48.1 | 68.4 |
| MorSoy | | XP 1705 | 3.5 | RR2X | 60.5 | 62.3 | 57.8 | 35 | 71.0 | 58.2 | 57.6 | 49.4 | 66.3 |
| Beck's | | 3559X2 | 3.5 | RR2X | 59.5 | 60.8 | 56.1 | 37 | 72.0 | 56.9 | 53.7 | 47.9 | 66.8 |
| Roeschley | | 3567CRR2 | 3.5 | RR2Y | 58.4 | 62.5 | 53.7 | 36 | 69.2 | 62.1 | 56.3 | 42.4 | 62.5 |
| Miller | | 3559CLL | 3.5 | LL | 56.0 | 58.7 | 52.4 | 22 | 67.8 | 55.5 | 52.7 | 41.1 | 63.4 |
| MorSoy | | 3611 RXT | 3.6 | RR2X | 63.1 | 64.2 | 61.6 | 37 | 72.1 | 58.9 | 61.5 | 55.7 | 67.6 |
| Mycogen | | 5N354R2 | 3.6 | RR2Y | 62.8 | 63.6 | 60.5 | 35 | 73.5 | 58.6 | 58.6 | 56.3 | 66.5 |
| Asgrow | | AG36X6 | 3.6 | RR2X | 62.6 | 64.6 | 59.5 | 38 | 73.0 | 61.8 | 59.1 | 53.5 | 65.7 |
| Prairie Brand | | PB-3586R2 | 3.6 | RR2Y | 62.5 | 63.7 | 59.4 | 34 | 72.7 | 61.7 | 56.6 | 55.7 | 65.9 |
| Credenz | | CZ 3601 LL | 3.6 | LL | 61.9 | 62.3 | 59.2 | 31 | 71.1 | 61.1 | 54.7 | 55.8 | 67.1 |
| Beck's | | 366L4 | 3.6 | LL | 60.0 | 62.9 | 55.0 | 34 | 72.8 | 62.9 | 53.0 | 45.3 | 66.6 |
| Hoegemeyer | | HPT 3679 NX | 3.6 | RR2X | 59.5 | 61.3 | 56.5 | 40 | 71.4 | 56.8 | 55.8 | 51.3 | 62.5 |
| Merschman | | Monroe 1736LL | 3.6 | LL | 58.9 | 61.6 | 53.9 | 32 | 70.7 | 62.1 | 51.9 | 44.7 | 65.0 |
| Pioneer | | P36T86R | 3.6 | RR1 | 56.8 | 59.1 | 53.5 | 32 | 65.2 | 58.3 | 53.8 | 47.0 | 59.8 |
| Great Lakes | | 3729R2 | 3.7 | RR2Y | 63.2 | 64.2 | 59.6 | 41 | 73.3 | 63.4 | 56.0 | 53.2 | 69.6 |
| MorSoy | | 3726 RXT | 3.7 | RR2X | 61.0 | 62.6 | 58.1 | 33 | 71.1 | 59.5 | 57.1 | 49.9 | 67.4 |
| Credenz | | CZ 3737 LL | 3.7 | LL | 60.8 | 61.4 | 59.4 | 40 | 70.0 | 56.5 | 57.7 | 52.4 | 68.0 |
| Titan Pro | | TP-37X57 | 3.7 | RR2X | 60.7 | 61.3 | 58.9 | 35 | 69.4 | 57.7 | 56.7 | 49.3 | 70.6 |
| Dyna-Gro | | S37XT28 | 3.7 | RR2X | 60.3 | 61.8 | 57.1 | 41 | 72.3 | 57.7 | 55.3 | 48.8 | 67.4 |
| Merschman | | Grant 1537LL | 3.7 | LL | 59.0 | 61.4 | 56.1 | 42 | 70.5 | 56.9 | 56.9 | 46.8 | 64.5 |
| MorSoy | | 3747 RXT | 3.7 | RR2X | 59.0 | 60.7 | 56.3 | 41 | 67.4 | 58.5 | 56.3 | 48.5 | 64.0 |
| Beck's | | 3779X2 | 3.7 | RR2X | 58.4 | 58.9 | 56.6 | 40 | 67.1 | 55.2 | 54.4 | 49.7 | 65.5 |
| Prairie Brand | | PB-3956R2 | 3.8 | RR2Y | 63.0 | 64.9 | 59.3 | 41 | 74.7 | 63.0 | 57.0 | 55.4 | 65.4 |
| Credenz | | CZ 3841 LL | 3.8 | LL | 60.2 | 61.2 | 57.8 | 33 | 68.8 | 59.2 | 55.8 | 51.1 | 66.5 |
| Merschman | | Truman 1438LL | 3.8 | LL | 58.8 | 60.7 | 54.1 | 36 | 72.6 | 59.1 | 50.6 | 47.5 | 64.2 |
| Hoegemeyer | | HPT LL3813 N | 3.8 | LL | 57.9 | 58.3 | 53.9 | 39 | 69.0 | 57.4 | 48.4 | 49.5 | 63.7 |
| Dairyland | | DSR-4011/R2Y | 3.9 | RR2Y | 65.1 | 66.8 | 62.4 | 41 | 74.5 | 63.9 | 62.0 | 55.9 | 69.3 |
| Merschman | | Washington 1839GT | 3.9 | GT | 61.6 | 61.9 | 59.5 | 40 | 70.9 | 58.5 | 56.4 | 55.1 | 66.9 |
| Asgrow | | AG39X7 | 3.9 | RR2X | 61.2 | 63.3 | 58.0 | 41 | 72.0 | 60.0 | 57.8 | 50.3 | 65.9 |
| Great Lakes | | 3979NRX | 3.9 | RR2X | 61.2 | 60.2 | 61.1 | 41 | 69.2 | 52.6 | 58.9 | 58.1 | 66.3 |
| Renk | | RS398NX | 3.9 | RR2X | 58.1 | 61.3 | 54.8 | 41 | 69.9 | 56.1 | 57.7 | 45.1 | 61.7 |
| Public-OH | * | Clermont | 3.9 | Conv | 54.6 | 53.3 | 53.5 | 25 | 60.1 | 52.6 | 47.2 | 53.1 | 60.3 |
| Experiment Mean | | | | | 60.5 | | | 35 | 71.0 | 59.2 | 56.3 | 50.0 | 66.0 |
| Minimum Mean | | | | | 54.6 | | | 22 | 60.1 | 52.6 | 47.1 | 40.4 | 59.8 |
| Maximum Mean | | | | | 65.1 | | | 42 | 75.9 | 65.8 | 62.0 | 58.1 | 71.2 |
| LSD(0.25) | | | | | 2.1 | | | 2 | 2.2 | 2.4 | 2.5 | 3.5 | 2.2 |
| Coefficient of Variability | | | | | 4.8 | | | | 3.7 | 4.9 | 5.3 | 9.0 | 4.1 |

Table 12. Entrant Information.
Asgrow: Monsanto, St. Louis, MO
www.asgrowanddekalb.com
(800) 768-6387

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|---------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| AG17X8 | RR2X | ACL | Yes | X | | | | | |
| AG2035 | RR2Y | ACL | Yes | X | | | | | |
| AG20X7 | RR2X | ACL | Yes | X | | | | | |
| AG21X7 | RR2X | ACL | Yes | X | | | | | |
| AG23X8 | RR2X | ACL | Yes | | X | X | | | |
| AG24X7 | RR2X | ACL | Yes | | X | X | | | |
| AG26X8 | RR2X | ACL | Yes | | X | X | | | |
| AG27X7 | RR2X | ACL | Yes | | | X | | | |
| AG29X8 | RR2X | ACL | Yes | | | | X | X | |
| AG30X8 | RR2X | ACL | Yes | | | | X | X | |
| AG32X6 | RR2X | ACL | Yes | | | | X | X | |
| AG33X8 | RR2X | ACL | Yes | | | | | | X |
| AG36X6 | RR2X | ACL | Yes | | | | | | X |
| AG39X7 | RR2X | ACL | Yes | | | | | | X |

Beck's: Beck's Hybrids, Atlanta, IN
www.beckshybrids.com
(317) 984-3508

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|---------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| 204L4 | LL | ESC | Yes | X | | | | | |
| 2119X2 | RR2X | ESC | Yes | X | | | | | |
| 2559X2 | RR2X | ESC | Yes | | X | X | | | |
| 274L4 | LL | ESC | Yes | | X | X | | | |
| 2899X2 | RR2X | ESC | Yes | | | | X | | |
| 296L4 | LL | ESC | Yes | | | | X | X | |
| 3153X2 | RR2X | ESC | Yes | | | | X | X | |
| 3559X2 | RR2X | ESC | Yes | | | | | | X |
| 366L4 | LL | ESC | Yes | | | | | | X |
| 3779X2 | RR2X | ESC | Yes | | | | | | X |

Cornelius: Cornelius Seed, Bellevue, IA
www.corneliusseed.com
(800) 218-1862

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|---------|-----------|----------|-----|-------------|------------|---------------|--------------|-------------|------------|
| CB18X80 | RR2X | CMV+ILVO | Yes | X | | | | | |
| CB19R71 | RR2Y | CMV+ILVO | Yes | X | | | | | |
| CB20R44 | RR2X | CMV+ILVO | Yes | X | | | | | |
| CB20X56 | RR2X | CMV+ILVO | Yes | X | | | | | |
| CB22R88 | RR2Y | CMV+ILVO | Yes | X | | | | | |
| CB22X73 | RR2X | CMV+ILVO | Yes | X | | | | | |
| CB23X45 | RR2X | CMV+ILVO | Yes | | | X | | | |
| CB24R82 | RR2Y | CMV+ILVO | Yes | | X | X | | | |
| CB24X64 | RR2X | CMV+ILVO | Yes | | X | X | | | |
| CB26X70 | RR2X | CMV+ILVO | Yes | | X | X | | | |
| CB27X81 | RR2X | CMV+ILVO | Yes | | X | X | | | |
| CB28R58 | RR2Y | CMV+ILVO | Yes | | | | X | X | |
| CB28X73 | RR2X | CMV+ILVO | Yes | | | | X | X | |
| CB29R69 | RR2Y | CMV+ILVO | Yes | | | | X | X | |
| CB31X13 | RR2X | CMV+ILVO | Yes | | | | X | X | |

Table 12. Entrant Information. *Continued*
Credenz: Bayer CropScience, RTP, NC
www.cropscience.bayer.us
(870) 351-0390

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|-------------|-----------|---------|-----|-------------|------------|---------------|--------------|-------------|------------|
| CZ 1738 LL | LL | PV+ILVO | Yes | X | | | | | |
| CZ 2101 LL | LL | PV+ILVO | Yes | X | | | | | |
| CZ 2188 EXP | B-GT | PV+ILVO | Yes | X | | | | | |
| CZ 2312 LL | LL | PV+ILVO | Yes | | X | X | | | |
| CZ 2408 LL | LL | PV+ILVO | Yes | | X | X | | | |
| CZ 2558 EXP | B-GT | PV+ILVO | Yes | | X | X | | | |
| CZ 2601 LL | LL | PV+ILVO | Yes | | X | X | | | |
| CZ 2878 EXP | B-GT | PV+ILVO | Yes | | | | X | X | |
| CZ 2915 LL | LL | PV+ILVO | Yes | | | | X | X | |
| CZ 3233 LL | LL | PV+ILVO | Yes | | | | X | X | |
| CZ 3234 LL | LL | PV+ILVO | Yes | | | | X | X | |
| CZ 3458 EXP | B-GT | PV+ILVO | Yes | | | | | | X |
| CZ 3601 LL | LL | PV+ILVO | Yes | | | | | | X |
| CZ 3737 LL | LL | PV+ILVO | Yes | | | | | | X |
| CZ 3841 LL | LL | PV+ILVO | Yes | | | | | | X |

Dairyland: Dairyland Seed Co., Inc., West Bend, WI
www.dairylandseed.com
(800) 236-0163

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|--------------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| DSR-1950/R2Y | RR2Y | CM | Yes | X | | | | | |
| DSR-2110/R2Y | RR2Y | CM | Yes | X | | | | | |
| DSR-2330/R2Y | RR2Y | CM | Yes | | X | | | | |
| DSR-2616/R2Y | RR2Y | CM | Yes | | X | | X | | |
| DSR-2909/R2Y | RR2Y | CM | Yes | | | | X | | |
| DSR-3028/R2Y | RR2Y | CM | Yes | | | | X | | |
| DSR-3250/R2Y | RR2Y | CM | Yes | | | | X | | |
| DSR-3555/R2Y | RR2Y | CM | Yes | | | | | | X |
| DSR-4011/R2Y | RR2Y | CM | Yes | | | | | | X |

Dyna-Gro: Crop Production Services, Wall Lake, IA
www.dynagroseed.com
(712) 664-2444

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|---------|-----------|-------|-----|-------------|------------|---------------|--------------|-------------|------------|
| S20XT48 | RR2X | E-VIP | Yes | X | | | | | |
| S21XT77 | RR2X | E-VIP | Yes | X | | | | | |
| S23RY85 | RR2Y | E-VIP | Yes | | X | | | | |
| S23XT78 | RR2X | ACL | Yes | | X | X | | | |
| S24LL98 | LL | E-VIP | Yes | | | X | | | |
| S24RY87 | RR2Y | E-VIP | Yes | | X | X | | | |
| S26RS75 | RR2Y | E-VIP | Yes | | X | X | | | |
| S28XT58 | RR2X | E-VIP | Yes | | | | X | X | |
| S30XT96 | RR2X | E-VIP | Yes | | | | X | X | |
| S31XT48 | RR2X | E-VIP | Yes | | | | X | X | |
| S33XT07 | RR2X | E-VIP | Yes | | | | | | X |
| S34XT78 | RR2X | E-VIP | Yes | | | | | | X |
| S37XT28 | RR2X | E-VIP | Yes | | | | | | X |

Table 12. Entrant Information. Continued

| Four Star: Four Star Seed Co., Logan, IA | | | | www.4starseed.com | | | | (712) 644-1400 | |
|---|-----------|------|-----|--------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| 3X261 | RR2X | None | Yes | | X | X | | | |
| 3X271 | RR2X | None | Yes | | X | X | | | |
| 3X300 | RR2X | ACL | Yes | | | | X | X | |
| 3X320 | RR2X | ACL | Yes | | | | X | X | |

| Great Lakes: Great Lakes Hybrids, Ovid, MI | | | | www.greatlakeshybrids.com | | | | (800) 257-7333 | |
|---|-----------|--------|-----|----------------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| 2063NRX | RR2X | AGSHLD | Yes | X | | | | | |
| 2269NR2 | RR2Y | AGSHLD | Yes | X | | | | | |
| 2551NR2 | RR2Y | AGSHLD | Yes | | X | X | | | |
| 2673NRX | RR2X | AGSHLD | Yes | | X | X | | | |
| 2870NRX | RR2X | AGSHLD | Yes | | | | X | X | |
| 3055NRX | RR2X | AGSHLD | Yes | | | | X | X | |
| 3729R2 | RR2Y | AGSHLD | Yes | | | | | | X |
| 3979NRX | RR2X | AGSHLD | Yes | | | | | | X |

| Hoegemeyer: Hoegemeyer Hybrids, Hooper, NE | | | | www.therightseed.com | | | | (800) 245-4631 | |
|---|-----------|-------|-----|-----------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| HPT 3679 NX | RR2X | Other | Yes | | | | | | X |
| HPT LL3813 N | LL | Other | Yes | | | | | | X |

| Iowa State: Iowa State University, Ames, IA | | | | www.CAD.iastate.edu | | | | (515) 294-9442 | |
|--|-----------|-----|-----|----------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| IA2102 | Conv | CM | Yes | | X | X | | | |
| IA2102RA12 | Conv | CM | Yes | | | | X | X | |
| IA2112RA12 | Conv | CM | Yes | | X | X | | | |

| LG Seeds: LG Seeds, Elmwood, IL | | | | www.lgseeds.com | | | | (800) 752-6847 | |
|--|-----------|------------|-----|------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| C2888RX | RR2X | AGSHLD+VOT | Yes | | | | | X | |
| C3321R2 | RR2Y | AGSHLD+VOT | Yes | | | | | X | |
| C3489RX | RR2X | AGSHLD+VOT | Yes | | | | | | X |
| C3550RX | RR2X | AGSHLD+VOT | Yes | | | | | | X |

Table 12. Entrant Information. Continued

| Merschman: Merschman Seeds, Inc., West Point, IA | | | | www.merschmanseeds.com | | | | (800) 848-7333 | |
|---|-----------|---------|-----|-------------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| Adams 1434LL | LL | BC+ILVO | Yes | | | | | | X |
| Apache 1823GT | GT | BC+ILVO | Yes | | | X | | | |
| Arthur 1831GT | GT | BC+ILVO | Yes | | | | X | X | |
| Cherokee 1829GT | GT | BC+ILVO | Yes | | | | X | X | |
| Chippewa 1523LL | LL | BC+ILVO | Yes | | | X | | | |
| Comanche 1626LL | LL | BC+ILVO | Yes | | | X | | | |
| Grant 1537LL | LL | BC+ILVO | Yes | | | | | | X |
| Jefferson 1833GT | GT | BC+ILVO | Yes | | | | | | X |
| Kennedy 1835GT | GT | BC+ILVO | Yes | | | | | | X |
| McKinley 1731LL | LL | BC+ILVO | Yes | | | | X | X | |
| Mohawk 1825GT | GT | BC+ILVO | Yes | | | X | | | |
| Monroe 1736LL | LL | BC+ILVO | Yes | | | | | | X |
| Munsee 1720LL | LL | BC+ILVO | Yes | X | | | | | |
| Navaho 1820GT | GT | BC+ILVO | Yes | X | | | | | |
| Osage 1824LL | LL | BC+ILVO | Yes | | | X | | | |
| Shawnee 1826GT | GT | BC+ILVO | Yes | | | X | | | |
| Sioux 1628LL | LL | BC+ILVO | Yes | | | | X | X | |
| Truman 1438LL | LL | BC+ILVO | Yes | | | | | | X |
| Ute 1821LL | LL | BC+ILVO | Yes | X | | | | | |
| Washington 1839GT | GT | BC+ILVO | Yes | | | | | | X |

| Miller: Miller Hybrids, Inc., Kalona, IA | | | | www.millerhybrids.com | | | | (319) 656-2532 | |
|---|-----------|-----|-----|------------------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| 2659CLL | LL | MSC | Yes | | | X | | | |
| 2670CBGT | B-GT | MSC | Yes | | | | X | | |
| 3559CLL | LL | MSC | Yes | | | | | | X |
| 3570CBGT | B-GT | MSC | Yes | | | | | | X |
| Proline 25159LL | LL | MSC | Yes | | X | | | | |

| MorSoy: MFA Inc., Columbia, MO | | | | www.morsoy.com | | | | (573) 876-5285 | |
|---------------------------------------|-----------|-----|-----|-----------------------|------------|---------------|--------------|-----------------------|------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| 3357 RXT | RR2X | CMV | Yes | | | | | | X |
| 3611 RXT | RR2X | CMV | Yes | | | | | | X |
| 3726 RXT | RR2X | CMV | Yes | | | | | | X |
| 3747 RXT | RR2X | CMV | Yes | | | | | | X |
| XP 1704 | RR2X | CMV | Yes | | | | | | X |
| XP 1705 | RR2X | CMV | Yes | | | | | | X |

Table 12. Entrant Information. Continued
Mycogen: Mycogen Seeds, Indianapolis, IN
www.mycogen.com
(800) MYCOGEN

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|-----------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| 5N194R2 | RR2Y | CCB | Yes | X | | | | | |
| 5N206R2 | RR2Y | CCB | Yes | X | | | | | |
| 5N211R2 | RR2Y | CCB | Yes | X | | | | | |
| 5N245R2 | RR2Y | CCB | Yes | | X | X | | | |
| 5N306R2 | RR2Y | CCB | Yes | | | | X | X | |
| 5N327R2 | RR2Y | CCB | Yes | | | | X | X | |
| 5N354R2 | RR2Y | CCB | Yes | | | | | | X |
| M68378NR2 | RR2Y | CCB | Yes | | X | X | | | |
| M68445NR2 | RR2Y | CCB | Yes | | | | | | X |

NorthStar Genetics: Albert Lea Seed House, Albert Lea, MN
www.alseed.com
(800) 352-5247

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|--------------|-----------|------|-----|-------------|------------|---------------|--------------|-------------|------------|
| NS 2031NR2 | RR2Y | None | Yes | X | | | | | |
| NS 2362NR2 | RR2Y | None | Yes | | X | | | | |
| NS 62002NXR2 | RR2X | CM | Yes | X | | | | | |

Pioneer: DuPont Pioneer, Johnston, IA
www.pioneer.com
(800) 772-2721

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|---------|-----------|-----------|-----|-------------|------------|---------------|--------------|-------------|------------|
| P22T69R | RR1 | PPST+ILVO | Yes | X | | | | | |
| P22T73R | RR1 | PPST+ILVO | Yes | X | | | | | |
| P24T93R | RR1 | PPST+ILVO | Yes | | X | X | | | |
| P25T51R | RR1 | PPST+ILVO | Yes | | X | X | | | |
| P28T08R | RR1 | PPST+ILVO | Yes | | | | X | X | |
| P31T11R | RR1 | PPST+ILVO | Yes | | | | X | X | |
| P32T16R | RR1 | PPST+ILVO | Yes | | | | | | X |
| P36T86R | RR1 | PPST+ILVO | Yes | | | | | | X |

Prairie Brand: Prairie Brand Seeds, Story City, IA
www.prairiebrand.com
(800) 544-8751

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|-----------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| PB-1947R2 | RR2Y | CCB | Yes | X | | | | | |
| PB-2197R2 | RR2Y | CCB | Yes | X | | | | | |
| PB-2228R2 | RR2Y | CCB | Yes | X | | | | | |
| PB-2486R2 | RR2Y | CCB | Yes | | | X | | | |
| PB-2576R2 | RR2Y | CCB | Yes | | | X | | | |
| PB-2876R2 | RR2Y | CCB | Yes | | | | X | | |
| PB-2917R2 | RR2Y | CCB | Yes | | | | X | X | |
| PB-2997R2 | RR2Y | CCB | Yes | | | | X | X | |
| PB-3087R2 | RR2Y | CCB | Yes | | | | | X | |
| PB-3487R2 | RR2Y | CCB | Yes | | | | | | X |
| PB-3586R2 | RR2Y | CCB | Yes | | | | | | X |
| PB-3956R2 | RR2Y | CCB | Yes | | | | | | X |

Table 12. Entrant Information. Continued
Producers: Producers Hybrids, Battle Creek, NE www.producershybrids.com **(888) 675-3190**

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|---------|-----------|---------|-----|-------------|------------|---------------|--------------|-------------|------------|
| 1816NRX | RR2X | PV+ILVO | Yes | X | | | | | |
| 2316NRX | RR2X | PV+ILVO | Yes | | X | X | | | |
| 2516NRX | RR2X | PV+ILVO | Yes | | X | X | | | |
| 2616NRX | RR2X | PV+ILVO | Yes | | X | X | | | |
| 2816NRX | RR2X | PV | Yes | | | | X | X | |
| 2916NRX | RR2X | PV+ILVO | Yes | | | | X | X | |
| 3216NRX | RR2X | PV+ILVO | Yes | | | | | X | |

Public—OH: Ohio State University, Columbus, OH www.oardc.osu.edu **(614) 292-3897**

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|----------|-----------|---------|-----|-------------|------------|---------------|--------------|-------------|------------|
| Clermont | Conv | INT-STE | | | | | | | X |
| Lorain | Conv | INT-STE | | | | | | | X |
| Summit | Conv | INT-STE | | | | X | | | |

Renk: Renk Seed Co., Sun Prairie, WI www.renkseed.com **(800) BUY RENK**

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|----------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| RS207NX | RR2X | CM | Yes | X | | | | | |
| RS208NX | RR2X | CM | Yes | X | | | | | |
| RS213NR2 | RR2Y | CM | Yes | X | | | | | |
| RS228NX | RR2X | CM | Yes | X | | | | | |
| RS246NR2 | RR2Y | CM | Yes | | X | X | | | |
| RS248NX | RR2X | CM | Yes | | X | X | | | |
| RS265NR2 | RR2Y | CM | | | X | X | | | |
| RS268NX | RR2X | CM | Yes | | X | X | | | |
| RS288NX | RR2X | CM | Yes | | | | X | X | |
| RS328NX | RR2X | CM | Yes | | | | X | X | |
| RS348NX | RR2X | CM | Yes | | | | | | X |
| RS357NX | RR2X | CM | Yes | | | | | | X |
| RS398NX | RR2X | CM | Yes | | | | | | X |

Roeschley: Miller Hybrids, Inc., Kalona, IA www.millerhybrids.com **(319) 656-2532**

| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
|----------|-----------|-----|-----|-------------|------------|---------------|--------------|-------------|------------|
| 2162CRX | RR2X | MSC | Yes | X | | | | | |
| 2267CRR2 | Conv | MSC | Yes | | X | | | | |
| 2467CRR2 | RR2Y | MSC | Yes | | | X | | | |
| 2657CRR2 | RR2Y | MSC | | | | X | | | |
| 2672CRX | RR2X | MSC | Yes | | | X | | | |
| 2872CRX | RR2X | MSC | Yes | | | | X | | |
| 3072CRX | RR2X | MSC | Yes | | | | X | | |
| 3155CRR2 | RR2Y | MSC | Yes | | | | | X | |
| 3567CRR2 | RR2Y | MSC | Yes | | | | | | X |
| CX3202N | RR2X | MSC | Yes | | | | | X | |

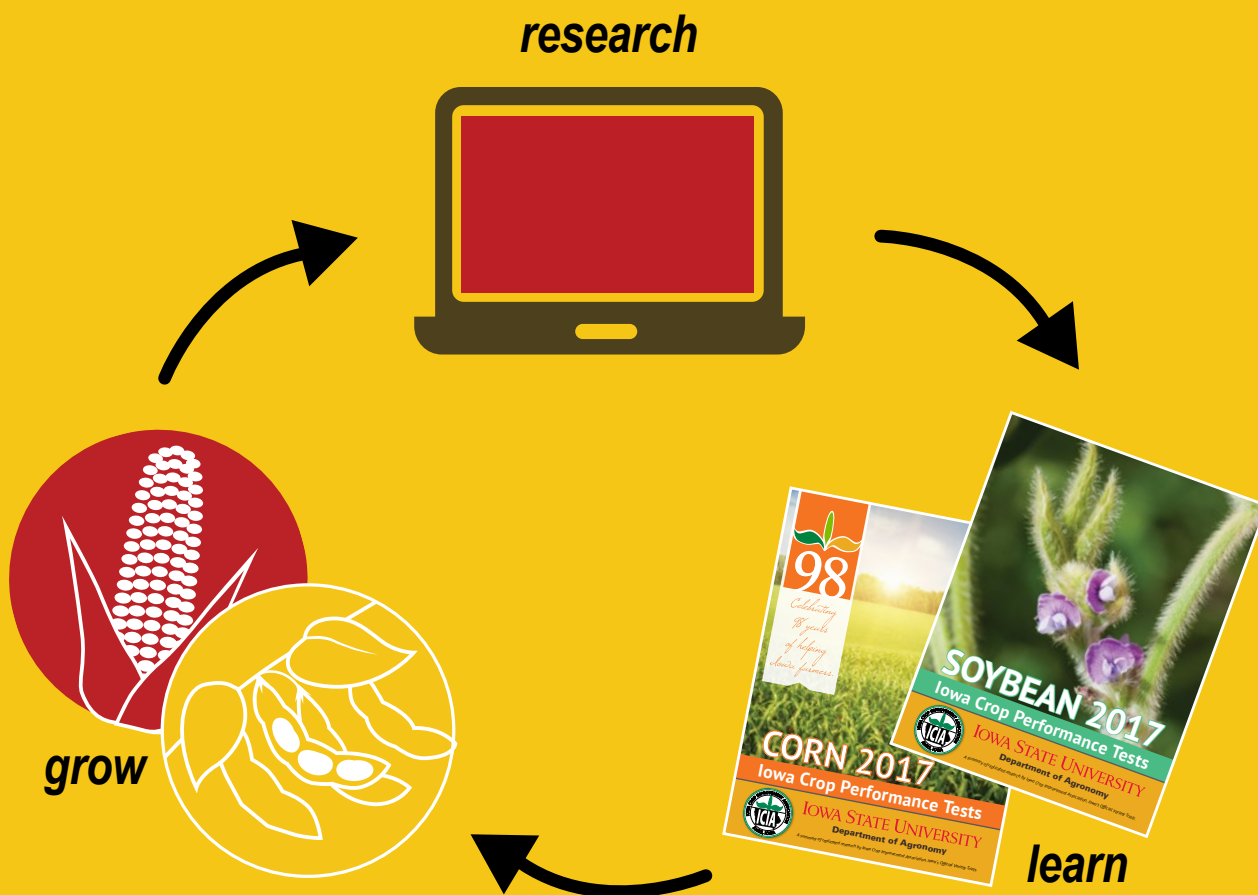
Table 12. Entrant Information. *Continued*

| Titan Pro: Titan Pro SCI, Inc., Clear Lake, IA | | | | www.titanprosci.com | | | | (641) 357-7283 | |
|---|-----------|--------------|-----|----------------------------|---------------|------------------|-----------------|-----------------------|---------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| TP-20R25 | RR2Y | INT-STE+ILVO | Yes | X | | | | | |
| TP-20X57 | RR2X | INT-STE+ILVO | Yes | X | | | | | |
| TP-21L15 | LL | INT-STE+ILVO | Yes | X | | | | | |
| TP-21X46 | RR2X | INT-STE+ILVO | Yes | X | | | | | |
| TP-24L27 | LL | INT-STE+ILVO | Yes | | X | X | | | |
| TP-24R26 | RR2Y | INT-STE+ILVO | Yes | | X | X | | | |
| TP-24X87 | RR2X | INT-STE+ILVO | Yes | | X | X | | | |
| TP-26L85 | LL | INT-STE+ILVO | Yes | | X | X | | | |
| TP-26R35 | RR2Y | INT-STE+ILVO | Yes | | X | X | | | |
| TP-26X37 | RR2X | INT-STE+ILVO | Yes | | X | X | | | |
| TP-28X47 | RR2X | INT-STE+ILVO | Yes | | | | X | X | |
| TP-29L67 | LL | INT-STE+ILVO | Yes | | | | X | X | |
| TP-30X77 | RR2X | INT-STE+ILVO | Yes | | | | X | X | |
| TP-31X26 | RR2X | INT-STE+ILVO | Yes | | | | X | X | |
| TP-34X86 | RR2X | INT-STE+ILVO | Yes | | | | | | X |
| TP-35X17 | RR2X | INT-STE+ILVO | Yes | | | | | | X |
| TP-37X57 | RR2X | INT-STE+ILVO | Yes | | | | | | X |

| Viking: Albert Lea Seed House, Albert Lea, MN | | | | www.alseed.com | | | | (800) 352-5247 | |
|--|-----------|------|-----|-----------------------|---------------|------------------|-----------------|-----------------------|---------------|
| Variety | Herb Tech | IST | SCN | North Early | North Full | Central Early | Central Full | South Early | South Full |
| 2018N | Conv | None | Yes | X | | | | | |
| 2155N | Conv | CM | Yes | X | | | | | |
| 2188AT12N | Conv | CM | Yes | X | | | | | |
| 2299N | Conv | CM | | X | | | | | |
| O.2399AT12N | Conv | None | Yes | | X | | | | |



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A summary of replicated research by Iowa Crop Improvement Association, Iowa's Official Variety Trials.