



2019 Corn Grain Field Crop Trials Results

Minnesota Agricultural Experiment Station and the College of Food, Agricultural and Natural Resource Sciences

The Minnesota Corn Evaluation Program was conducted by the University of Minnesota Agricultural Experiment Station to provide unbiased information for use by corn growers when they choose which brand of corn to buy and grow. The program was financed in part by entry fees from private seed companies that chose to place their entries for testing.

Test Locations

Test zones, locations and maturities are as follows:

Southern Zone:

Lamberton, Rochester and Waseca

Early Maturity Trial - 102 Relative Maturity (RM) and earlier entries.

Late Maturity Trial - 103 RM and later entries.

Central Zone:

Hutchinson, Morris and Rosemount

Early Maturity Trial - 96 RM and earlier entries.

Late Maturity Trial - 97 RM and later entries.

Northern Zone:

Crookston, Rothsay and Staples

Testing Procedure

Entries: Seed corn companies choose their entries for each zone. Entries in each trial were based on the relative maturity (RM) provided by the company. The University of Minnesota Corn Testing Committee could also choose

entries in each test. All locations tested three replications for each entry.

Presentation of Data

Yields are given for individual locations along with yields and harvest moisture contents averaged across locations for 2019.

Reported yields are adjusted to 15.5% grain moisture. Entries are ranked within a maturity group by moisture content averaged across locations for 2019.

Identification of Traits

Genetic modifications of entries will be identified using generic terms to describe the trait without identifying the specific event for genetic modification.

For example Bt will identify genetic modification for corn borer resistance but will not differentiate between the Bt 11 event, the YieldGuard corn borer event or the Herculex corn borer event.

Identifiers will be:

Bt = European corn borer resistance

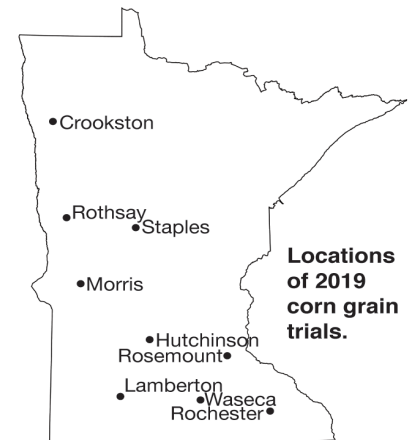
CRW = Corn rootworm resistance

Gly = Glyphosate herbicide resistance

LL = Liberty herbicide resistance

Least Significant Difference

The LSD (Least Significant Difference) figures at the bottom of the yield columns in the tables are statistical measures of variability in the trials. These values may be used to deter-



mine whether the difference between any two entries is likely to be a real difference or just natural variation.

If the yield difference between two entries is equal to or greater than the LSD, then one can be confident that the two entries probably differ in yield potential. We show LSD values with a 0.2 alpha level, which means that when two entries differ in yield by the LSD value or more one can be 80% confident that the two entries differ in yield potential. The higher-yielding one is the better entry from the yield standpoint. If the yield difference between two entries is less than the LSD, the two entries probably do not differ significantly in yield potential.

Authors and Researchers

Tom Hoverstad, Wade Ihlenfeld, Jeff Coulter, Curt Reese, Steve Quiring and Mark Hanson.

Table 1. Companies participating in the 2019 corn grain trials.

| | | |
|--|--|--|
| AgriGold Hybrids | 5381 Akin Rd, St. Francisville, IL 62460 | www.agrigold.com |
| Albert Lea Seed House (Viking Hybrids) | Box 127, 1414 W. Main St., Albert Lea, MN 56007 | www.alseed.com |
| Anderson Seeds | 37825 County Rd. 63, St. Peter, MN 56082 | — |
| Blue River Hybrids | 2326 230th St., Ames, IA 50014 | — |
| Dairyland Seed Co., Inc. | Box 958, West Bend, WI 53095 | www.dairylandseed.com |
| Dekalb (Bayer Co.) | 505 150th Ave. SE, Kerkhoven, MN 56252 | www.dekalb.com |
| Federal Hybrids | 209 3rd St. NE, West Bend, IA 50597 | www.federalhybrids.com |
| Legacy Seeds Inc. | PO Box 68, 290 Depot Street, Scandinavia, WI 54977 | www.legacyseeds.com |
| Peterson Farms Seed | 3104 164th Ave. S.E. , Harwood, ND 58092 | www.petersonfarmsseed.com |
| Proseed | 705 E Brewster St., Harvey, ND 58341 | www.proseed.net |
| REA Hybrids | 4745 6th Ave SE Aberdeen, SD 57401 | www.rea-hybrids.com |
| Titan Pro | 1301 S. 24th St., Clear Lake, IA 50428 | www.titanprosci.com |

Table 2. Individual trial information, 2019.

| Location | Cooperators | Previous Crop | Planting Date | Harvest Date |
|------------|-------------------|---------------|---------------|--------------|
| Lamberton | Steve Quiring | Soybean | May 16 | October 29 |
| Rochester | Fritz Brietenbach | Soybean | May 14 | October 31 |
| Waseca | Tom Hoverstad | Soybean | May 7 | November 1 |
| Hutchinson | Paul Wright | Soybean | May 16 | November 14 |
| Morris | Curt Reese | Corn | May 15 | October 30 |
| Rosemount | Gerry Holz | Soybean | May 14 | November 22 |
| Crookston | Mark Hanson | Wheat | May 15 | November 8 |
| Rothsay | Troy Larson | Soybean | May 15 | November 8 |
| Staples | Ron Nelson | Soybean | May 10 | November 19 |

Corn Grain**Planting Rate and Date**

Bushel Weight, Pounds.....56

Planting Rate, Seeds/Acre....35,000

Planting Date.....May 7-16

Table 3. Early maturity entries, southern locations, 2019.

| Source | Entry | Traits | Relative Maturity | Yield, Bu/Acre at: | | | Average Across Locations | |
|---|---------------|------------------|-------------------|--------------------|------------|------------|--------------------------|-------------|
| | | | | Lamberton | Rochester | Waseca | Bu/Acre | % Moisture |
| 98 and Earlier RM Entries | | | | | | | | |
| Anderson Seeds | 7995 | — | 95 | 207 | 211 | 224 | 214 | 17.8 |
| Blue River Organic Seed | 38G54 | — | 96 | 201 | 218 | 227 | 215 | 18.0 |
| Anderson Seeds | 6898 | — | 98 | 212 | 221 | 230 | 221 | 18.3 |
| Anderson Seeds | 795R | GLY | 95 | 236 | 229 | 231 | 232 | 18.4 |
| Viking | 52-96 | — | 96 | 244 | 226 | 229 | 233 | 18.8 |
| Anderson Seeds | 786VT2P | Bt, GLY | 95 | 243 | 227 | 223 | 231 | 18.8 |
| Anderson Seeds | 6909 | — | 98 | 226 | 224 | 249 | 233 | 18.9 |
| DEKALB | DKC47-54RIB | Bt, CRW, GLY, LL | 97 | 206 | 225 | 242 | 225 | 18.9 |
| Viking | 44-98 | — | 98 | 242 | 225 | 243 | 237 | 19.0 |
| Viking | O.98-98 | — | 98 | 222 | 220 | 228 | 223 | 19.4 |
| Anderson Seeds | 609R | GLY | 98 | 217 | 221 | 246 | 228 | 19.5 |
| Anderson Seeds | 609VT2P | Bt, GLY | 98 | 246 | 240 | 250 | 246 | 19.5 |
| Anderson Seeds | 745SRC | Bt, CRW, GLY, LL | 97 | 227 | 217 | 216 | 220 | 19.5 |
| Federal Hybrids | 4800 CONV | — | 98 | 216 | 219 | 241 | 225 | 19.6 |
| Dairyland | DS-3810Q | Bt, CRW, GLY, LL | 98 | 234 | 219 | 229 | 227 | 19.9 |
| 98 and Earlier RM Averages: | | | | 225 | 223 | 234 | 227 | 19.0 |
| 99 to 103 RM Entries | | | | | | | | |
| Anderson Seeds | 611VT2P | Bt, GLY | 100 | 216 | 223 | 226 | 222 | 18.9 |
| Federal Hybrids | 4990 SSTAX | Bt, CRW, GLY, LL | 99 | 224 | 214 | 210 | 216 | 18.9 |
| AgriGold | A629-22STXRIB | Bt, CRW, GLY, LL | 99 | 225 | 240 | 240 | 235 | 19.0 |
| DEKALB | DKC50-08RIB | Bt, CRW, GLY, LL | 100 | 234 | 240 | 247 | 241 | 19.1 |
| Viking | 99-00 | — | 100 | 231 | 225 | 239 | 231 | 19.2 |
| Anderson Seeds | 611R | GLY | 100 | 206 | 196 | 223 | 209 | 19.2 |
| Anderson Seeds | 5303 | — | 103 | 232 | 226 | 233 | 230 | 19.3 |
| Viking | 52-00 | — | 100 | 219 | 241 | 221 | 227 | 19.4 |
| Anderson Seeds | 6811 | — | 100 | 222 | 234 | 224 | 227 | 19.5 |
| AgriGold | A629-12VT2PRO | Bt, GLY | 99 | 257 | 211 | 252 | 240 | 19.6 |
| Titan Pro SCI | 91-00 | — | 100 | 221 | 233 | 241 | 232 | 19.9 |
| LEGACY SEEDS | L-5217 VT2P | Bt, GLY | 103 | 250 | 245 | 263 | 253 | 19.9 |
| Dairyland | DS-4018AM | Bt, GLY, LL | 101 | 216 | 240 | 239 | 231 | 19.9 |
| Titan Pro SCI | 84-01 | — | 101 | 256 | 265 | 262 | 261 | 19.9 |
| Anderson Seeds | 611SRC | Bt, CRW, GLY, LL | 100 | 198 | 211 | 215 | 208 | 20.0 |
| DEKALB | DKC49-44RIB | Bt, CRW, GLY, LL | 99 | 224 | 240 | 245 | 236 | 20.1 |
| Titan Pro SCI | 84-03 2P | Bt, GLY | 103 | 267 | 239 | 253 | 253 | 20.1 |
| Viking | O.46-02 | — | 102 | 235 | 267 | 250 | 251 | 20.3 |
| Dairyland | DS-4310Q | Bt, CRW, GLY, LL | 103 | 265 | 230 | 243 | 246 | 20.3 |
| Titan Pro SCI | TP 40-03 | — | 103 | 259 | 245 | 247 | 251 | 20.6 |
| AgriGold | A632-07STX | Bt, CRW, GLY, LL | 102 | 244 | 195 | 254 | 231 | 20.6 |
| Federal Hybrids | 5280 SSTAX | Bt, CRW, GLY, LL | 102 | 250 | 229 | 233 | 237 | 20.8 |
| Viking | 55-02 | — | 102 | 238 | 203 | 236 | 226 | 20.8 |
| DEKALB | DKC52-34RIB | Bt, CRW, GLY, LL | 101 | 200 | 232 | 247 | 226 | 21.0 |
| Blue River Organic Seed | 48G35 | — | 102 | 230 | 230 | 227 | 229 | 21.2 |
| Anderson Seeds | 6581 | — | 101 | 242 | 215 | 214 | 224 | 21.3 |
| Titan Pro SCI | 91-02 | — | 102 | 194 | 189 | 211 | 198 | 22.0 |
| DEKALB | DKC53-27RIB | Bt, CRW, GLY, LL | 103 | 205 | 181 | 238 | 208 | 22.8 |
| 99 to 103 RM Averages: | | | | 231 | 226 | 237 | 231 | 20.1 |
| Southern Locations, Early Maturity Averages: | | | | 229 | 225 | 236 | 230 | 19.7 |
| LSD (0.20) | | | | 21 | 14 | 14 | 9 | 0.5 |

Table 4. Late maturity entries, southern locations, 2019.

| Source | Entry | Traits | Relative Maturity | Yield, Bu/Acre at: | | | Average Across Locations | |
|--|---------------|------------------|-------------------|--------------------|------------|------------|--------------------------|-------------|
| | | | | Lamberton | Rochester | Waseca | Bu/Acre | % Moisture |
| 104 to 105 RM Entries: | | | | | | | | |
| Titan Pro SCI | 82-04 2P | Bt, GLY | 104 | 250 | 220 | 242 | 238 | 20.7 |
| Federal Hybrids | 5570 CONV | — | 105 | 186 | 235 | 247 | 223 | 20.8 |
| AgriGold | A634-93 | — | 104 | 207 | 248 | 236 | 231 | 21.0 |
| Viking | 84-05 | — | 105 | 172 | 247 | 230 | 217 | 21.0 |
| Dairyland | DS-4318AM | Bt, GLY, LL | 104 | 216 | 221 | 226 | 221 | 21.2 |
| Dairyland | DS-4440AM | Bt, GLY, LL | 104 | 238 | 242 | 239 | 240 | 21.4 |
| Dairyland | DS-4580Q | Bt, CRW, GLY, LL | 105 | 249 | 241 | 248 | 246 | 21.7 |
| Anderson Seeds | 5904 | — | 104 | 168 | 247 | 242 | 219 | 21.7 |
| Viking | O.51-04 | — | 104 | 236 | 242 | 244 | 241 | 21.8 |
| DEKALB | DKC54-38RIB | Bt, CRW, GLY, LL | 104 | 238 | 215 | 220 | 224 | 21.8 |
| LEGACY SEEDS | L-5519 DGVT2P | Bt, GLY | 105 | 230 | 223 | 235 | 229 | 21.9 |
| AgriGold | A635-54VT2RIB | Bt, GLY | 105 | 222 | 233 | 235 | 230 | 22.3 |
| DEKALB | DKC54-64RIB | Bt, CRW, GLY, LL | 105 | 250 | 231 | 258 | 246 | 22.4 |
| DEKALB | DKC55-53RIB | Bt, CRW, GLY, LL | 105 | 276 | 230 | 255 | 254 | 22.5 |
| Dairyland | DS-4329AM | Bt, GLY, LL | 105 | 243 | 234 | 242 | 240 | 22.6 |
| Viking | 42-05 | — | 105 | 223 | 212 | 235 | 223 | 22.9 |
| Dairyland | DS-7004RA | Bt, GLY, LL | 104 | 207 | 228 | 258 | 231 | 23.7 |
| 104 to 105 RM Averages: | | | | 224 | 232 | 241 | 232 | 21.8 |
| Later Than 105 RM Entries: | | | | | | | | |
| LEGACY SEEDS | L-6047 SSX | Bt, CRW, GLY, LL | 106 | 209 | 205 | 247 | 220 | 21.4 |
| Viking | O.18-06 | — | 106 | 274 | 242 | 238 | 251 | 21.5 |
| Titan Pro SCI | 96-06 2P | Bt, GLY | 106 | 248 | 237 | 251 | 246 | 21.6 |
| Titan Pro SCI | TP 70-06 | — | 106 | 222 | 216 | 240 | 226 | 22.7 |
| AgriGold | A636-11STX | Bt, CRW, GLY, LL | 106 | 202 | 221 | 225 | 216 | 22.8 |
| Titan Pro SCI | 91-07 | — | 107 | 192 | 220 | 230 | 214 | 23.1 |
| DEKALB | DKC58-34RIB | Bt, CRW, GLY, LL | 108 | 234 | 221 | 243 | 233 | 23.6 |
| Viking | 48-08 | — | 108 | 226 | 244 | 248 | 239 | 23.9 |
| AgriGold | A638-74VT2RIB | Bt, GLY | 108 | 163 | 241 | 241 | 215 | 24.5 |
| Dairyland | DS-9508RA | Bt, CRW, GLY, LL | 108 | 214 | 237 | 244 | 232 | 24.6 |
| AgriGold | A638-84 | — | 108 | 197 | 200 | 224 | 207 | 24.7 |
| Dairyland | DS-4840AM | Bt, GLY, LL | 108 | 242 | 241 | 240 | 241 | 26.3 |
| Titan Pro SCI | 94-09 2P | Bt, GLY | 109 | 228 | 248 | 250 | 242 | 27.6 |
| Later than 105 RM Averages: | | | | 219 | 229 | 240 | 229 | 23.7 |
| Southern Locations, Late Maturity Averages: | | | | 222 | 231 | 240 | 231 | 22.7 |
| LSD (0.20) | | | | 21 | 15 | 17 | 10 | 0.5 |

Table 5. Early maturity entries, central locations, 2019.

| Source | Entry | Traits | Relative Maturity | Yield, Bushels/Acre at: | | | Average Across Locations | |
|--|---------------|------------------|-------------------|-------------------------|------------|------------|--------------------------|-------------|
| | | | | Hutchinson | Morris | Rosemount | Bu/Acre | % Moisture |
| 94 and Earlier RM Entries: | | | | | | | | |
| Viking | O.98-91 | — | 91 | 207 | 143 | 209 | 187 | 18.9 |
| Proseed | 1591 | Bt, GLY | 91 | 210 | 188 | 255 | 218 | 19.2 |
| Viking | 42-92 | — | 92 | 239 | 159 | 241 | 213 | 19.5 |
| Proseed | 1790 | Bt, GLY | 90 | 220 | 228 | 241 | 230 | 19.7 |
| DEKALB | DKC44-80RIB | Bt, GLY | 94 | 234 | 207 | 280 | 240 | 19.8 |
| Anderson Seeds | 742R | GLY | 92 | 248 | 152 | 245 | 215 | 20.2 |
| Anderson Seeds | 7422 | — | 92 | 222 | 176 | 229 | 209 | 20.2 |
| AgriGold | A624-06VT2PRO | Bt, GLY | 94 | 233 | 185 | 249 | 222 | 20.2 |
| Proseed | 1794 | Bt, GLY | 94 | 227 | 167 | 254 | 216 | 20.4 |
| Peterson Farms Seed | 79N94 | Bt, GLY | 94 | 222 | 206 | 237 | 221 | 20.8 |
| Blue River Organic Seed | 33A16 | — | 92 | 223 | 132 | 228 | 194 | 21.2 |
| 94 RM and Earlier Averages: | | | | 226 | 177 | 242 | 215 | 20.0 |
| 95 to 97 RM Entries: | | | | | | | | |
| AgriGold | A625-78VT2RIB | Bt, GLY | 95 | 228 | 202 | 266 | 232 | 19.9 |
| Dairyland | DS-3715AM | Bt, GLY, LL | 97 | 221 | 193 | 270 | 228 | 20.1 |
| Blue River Organic Seed | 38G54 | — | 96 | 216 | 132 | 270 | 206 | 20.3 |
| Dairyland | DS-3519AM | Bt, GLY, LL | 96 | 224 | 217 | 261 | 234 | 20.4 |
| DEKALB | DKC45-65RIB | Bt, CRW, GLY, LL | 95 | 243 | 194 | 245 | 227 | 20.5 |
| Anderson Seeds | 795R | GLY | 95 | 234 | 215 | 259 | 236 | 20.5 |
| Anderson Seeds | 7995 | — | 95 | 241 | 177 | 250 | 223 | 20.6 |
| Viking | O.45-97 | — | 97 | 225 | 185 | 272 | 228 | 20.9 |
| Dairyland | DS-3750AM | Bt, GLY, LL | 97 | 227 | 183 | 256 | 222 | 21.0 |
| Anderson Seeds | 786VT2P | Bt, GLY | 95 | 224 | 201 | 257 | 227 | 21.1 |
| Viking | O.82-95 | — | 95 | 205 | 167 | 219 | 197 | 21.2 |
| Federal Hybrids | 4680 VT2 Pro | Bt, GLY | 96 | 219 | 205 | 239 | 221 | 21.2 |
| LEGACY SEEDS | L-3517 VT2P | Bt, GLY | 95 | 230 | 184 | 267 | 227 | 21.3 |
| Viking | 46-96 | — | 96 | 223 | 147 | 261 | 210 | 21.6 |
| Titan Pro SCI | 91-95 | — | 95 | 237 | 219 | 261 | 239 | 21.6 |
| Titan Pro SCI | 85-96 | — | 96 | 243 | 160 | 271 | 225 | 21.7 |
| AgriGold | A627-83VT2RIB | Bt, GLY | 97 | 224 | 167 | 269 | 220 | 21.8 |
| Viking | 52-96 | — | 96 | 236 | 192 | 268 | 232 | 21.9 |
| Titan Pro SCI | 82-95 2P | Bt, GLY | 95 | 242 | 189 | 265 | 232 | 21.9 |
| DEKALB | DKC47-54RIB | Bt, CRW, GLY, LL | 97 | 263 | 180 | 259 | 234 | 21.9 |
| Anderson Seeds | 745SRC | Bt, CRW, GLY, LL | 97 | 218 | 200 | 240 | 219 | 22.1 |
| Dairyland | DS-3550AM | Bt, GLY, LL | 95 | 212 | 163 | 225 | 200 | 22.6 |
| 94 to 97 RM Averages: | | | | 229 | 185 | 257 | 224 | 21.2 |
| Central Locations, Early Maturity Averages: | | | | 228 | 182 | 252 | 221 | 20.8 |
| LSD (0.20) | | | | 16 | 23 | 13 | 10 | 0.5 |

Table 6. Late maturity entries, central locations, 2019.

| Source | Entry | Traits | Relative Maturity | Yield, Bushels/Acre at: | | | Average Across Locations | |
|---|---------------|------------------|-------------------|-------------------------|------------|------------|--------------------------|-------------|
| | | | | Hutchinson | Morris | Rosemount | Bu/Acre | % Moisture |
| 98 to 100 RM Entries: | | | | | | | | |
| Viking | O.98-98 | — | 98 | 219 | 108 | 253 | 193 | 20.9 |
| Titan Pro SCI | 92-99 2P | Bt, GLY | 99 | 243 | 159 | 268 | 223 | 21.2 |
| Anderson Seeds | 6909 | — | 98 | 220 | 124 | 249 | 198 | 21.6 |
| Dairyland | RPM-4019AM | Bt, GLY, LL | 99 | 215 | 163 | 250 | 210 | 21.7 |
| Viking | 44-98 | — | 98 | 210 | 142 | 259 | 204 | 21.9 |
| LEGACY SEEDS | L-3718 DGV2P | Bt, GLY | 98 | 255 | 170 | 275 | 233 | 22.0 |
| AgriGold | A629-22STXRIB | Bt, CRW, GLY, LL | 99 | 236 | 145 | 285 | 222 | 22.1 |
| Anderson Seeds | 6898 | — | 98 | 216 | 133 | 256 | 202 | 22.1 |
| Anderson Seeds | 611VT2P | Bt, GLY | 100 | 212 | 160 | 218 | 197 | 22.1 |
| Titan Pro SCI | 91-98 | — | 98 | 210 | 159 | 247 | 205 | 22.4 |
| Dairyland | DS-3810Q | Bt, CRW, GLY, LL | 98 | 227 | 154 | 268 | 216 | 22.5 |
| Anderson Seeds | 611R | GLY | 100 | 202 | 151 | 234 | 196 | 22.5 |
| Anderson Seeds | 609VT2P | Bt, GLY | 98 | 219 | 158 | 255 | 211 | 22.5 |
| Anderson Seeds | 609R | GLY | 98 | 233 | 143 | 272 | 216 | 22.7 |
| LEGACY SEEDS | L-4248 VT2P | Bt, GLY | 100 | 226 | 139 | 268 | 211 | 22.9 |
| Titan Pro SCI | 91-00 | — | 100 | 219 | 142 | 272 | 211 | 23.1 |
| Anderson Seeds | 6811 | — | 100 | 206 | 151 | 257 | 205 | 23.4 |
| AgriGold | A629-12VT2PRO | Bt, GLY | 99 | 229 | 184 | 271 | 228 | 23.6 |
| DEKALB | DKC49-44RIB | Bt, CRW, GLY, LL | 99 | 234 | 129 | 239 | 201 | 23.8 |
| DEKALB | DKC50-08RIB | Bt, CRW, GLY, LL | 100 | 236 | 150 | 293 | 226 | 24.3 |
| Anderson Seeds | 611SRC | Bt, CRW, GLY, LL | 100 | 205 | 131 | 237 | 191 | 25.2 |
| 98 to 100 RM and Earlier Averages: | | | | 222 | 147 | 258 | 209 | 22.6 |
| Later Than 100 RM Entries: | | | | | | | | |
| Peterson Farms Seed | 73P01 | Bt, GLY | 101 | 241 | 165 | 269 | 225 | 22.3 |
| Anderson Seeds | 5303 | — | 103 | 223 | 142 | 232 | 199 | 22.5 |
| Proseed | 19102 | — | 102 | 225 | 129 | 233 | 196 | 22.6 |
| Peterson Farms Seed | 87A01 | Bt, CRW, GLY | 101 | 246 | 145 | 255 | 216 | 22.7 |
| Viking | O.46-02 | — | 102 | 245 | 171 | 260 | 225 | 23.5 |
| Titan Pro SCI | 84-03 2P | Bt, GLY | 103 | 231 | 168 | 282 | 227 | 23.6 |
| Dairyland | DS-4310Q | Bt, CRW, GLY, LL | 103 | 239 | 167 | 252 | 219 | 23.6 |
| LEGACY SEEDS | L-5217 VT2P | Bt, GLY | 103 | 244 | 172 | 274 | 230 | 23.7 |
| Dairyland | RPM-4018AM | Bt, GLY, LL | 101 | 234 | 153 | 239 | 209 | 23.7 |
| Peterson Farms Seed | 88B03 | Bt, CRW, GLY | 103 | 240 | 149 | 271 | 220 | 23.8 |
| Titan Pro SCI | 84-01 | — | 101 | 251 | 172 | 282 | 235 | 24.4 |
| DEKALB | DKC52-34RIB | Bt, CRW, GLY, LL | 101 | 238 | 148 | 258 | 215 | 24.5 |
| Titan Pro SCI | 82-04 2P | Bt, GLY | 104 | 222 | 149 | 257 | 209 | 24.5 |
| DEKALB | DKC54-38RIB | Bt, CRW, GLY, LL | 104 | 228 | 160 | 261 | 217 | 25.4 |
| DEKALB | DKC55-53RIB | Bt, CRW, GLY, LL | 105 | 228 | 149 | 236 | 205 | 25.4 |
| Dairyland | DS-9804RA | Bt, CRW, GLY, LL | 103 | 197 | 142 | 262 | 200 | 25.4 |
| DEKALB | DKC54-64RIB | Bt, CRW, GLY, LL | 105 | 229 | 153 | 265 | 216 | 26.0 |
| Titan Pro SCI | 91-02 | — | 102 | 217 | 131 | 271 | 206 | 26.4 |
| Titan Pro SCI | TP 40-03 | — | 103 | 242 | 156 | 249 | 216 | 26.5 |
| Anderson Seeds | 6581 | — | 101 | 241 | 138 | 262 | 214 | 26.6 |
| AgriGold | A635-54VT2RIB | Bt, GLY | 105 | 254 | 174 | 283 | 237 | 26.7 |
| Anderson Seeds | 5904 | — | 104 | 240 | 136 | 273 | 216 | 27.3 |
| DEKALB | DKC53-27RIB | Bt, CRW, GLY, LL | 103 | 231 | 148 | 240 | 206 | 28.4 |
| Later Than 100 RM Averages: | | | | 234 | 153 | 259 | 216 | 24.8 |
| Central Locations, Late Maturity Averages: | | | | 229 | 150 | 259 | 213 | 23.7 |
| LSD (0.20) | | | | 19 | 22 | 21 | 12 | 0.7 |

Table 7. Northern locations, 2019.

| Source | Entry | Traits | Relative Maturity | Yield, Bushels/Acre at: | | | Average Across Locations ¹ | |
|--|-------------|------------------|-------------------|-------------------------|------------|------------|---------------------------------------|-------------|
| | | | | Crookston | Rothsay | Staples | Bu/Acre | % Moisture |
| 86 and Earlier RM Entries: | | | | | | | | |
| Rea Hybrids | 1B780 | Bt, GLY | 78 | 143 | 217 | 173 | 178 | 21.6 |
| LEGACY SEEDS | L-2347 VT2P | Bt, GLY | 83 | 176 | 228 | 204 | 203 | 22.4 |
| Peterson Farms Seed | 73S84 | Bt, GLY | 84 | 168 | 223 | 214 | 202 | 22.5 |
| Rea Hybrids | 2B861 | Bt, GLY | 86 | 162 | 250 | 234 | 215 | 22.7 |
| Dairyland | EXP- 08508 | Gly | 83 | 140 | 212 | 181 | 178 | 22.8 |
| Viking | 68-86 | — | 86 | 165 | 244 | 232 | 214 | 23.0 |
| Rea Hybrids | 2B862 | Bt, GLY | 86 | 138 | 216 | 191 | 182 | 23.1 |
| Dairyland | DS-6686 | Gly | 86 | 173 | 244 | 235 | 217 | 23.2 |
| Viking | O.58-85 | — | 85 | 135 | 206 | 210 | 184 | 23.2 |
| Blue River Organic Seed | 21B11 | — | 85 | 140 | 232 | 212 | 195 | 23.8 |
| 86 and Earlier RM Entry Averages: | | | | 154 | 227 | 208 | 197 | 22.8 |
| 87 to 91 RM Entries: | | | | | | | | |
| Dairyland | DS-3030AM | Bt, GLY, LL | 90 | 143 | 252 | 222 | 206 | 22.0 |
| Proseed | 1787 | Bt, GLY | 87 | 151 | 220 | 205 | 192 | 22.4 |
| LEGACY SEEDS | L-2918 VT2P | Bt, GLY | 89 | 150 | 241 | 245 | 212 | 23.4 |
| Rea Hybrids | 3B902 | Bt, GLY | 90 | 163 | 250 | 241 | 218 | 23.5 |
| Rea Hybrids | 3A891 | Bt, CRW, GLY, LL | 89 | 149 | 258 | 248 | 218 | 23.5 |
| Dairyland | DS-2989Z | Bt, GLY, LL | 89 | 149 | 239 | 201 | 196 | 23.5 |
| Blue River Organic Seed | 26B78 | — | 88 | 160 | 229 | 166 | 185 | 23.6 |
| Viking | O.98-91 | — | 91 | 150 | 244 | 218 | 204 | 23.7 |
| Rea Hybrids | 3B912 | Bt, GLY | 91 | 182 | 263 | 234 | 226 | 23.7 |
| LEGACY SEEDS | L-3048 VT2P | Bt, GLY | 90 | 162 | 243 | 238 | 214 | 23.8 |
| Titan Pro SCI | 86-91 | — | 91 | 161 | 250 | 228 | 213 | 23.8 |
| Proseed | 1591 | Bt, GLY | 91 | 160 | 231 | 226 | 206 | 23.9 |
| Viking | 71-90 | — | 90 | 144 | 217 | 158 | 173 | 24.2 |
| Proseed | 1790 | Bt, GLY | 90 | 138 | 255 | 226 | 206 | 24.3 |
| Rea Hybrids | 2B872 | Bt, GLY | 87 | 139 | 230 | 212 | 194 | 24.5 |
| 87 to 91 RM Entry Averages: | | | | 153 | 241 | 218 | 204 | 23.6 |
| 92 and Later RM Entries: | | | | | | | | |
| Dairyland | DS-3370AM | Bt, GLY, LL | 93 | 168 | 256 | 241 | 222 | 23.3 |
| Rea Hybrids | 3B923 | Bt, GLY | 92 | 161 | 267 | 225 | 217 | 24.1 |
| Viking | 42-92 | — | 92 | 152 | 242 | 222 | 205 | 24.2 |
| LEGACY SEEDS | L-3419 VT2P | Bt, GLY | 94 | 135 | 252 | 211 | 199 | 24.2 |
| DEKALB | DKC44-80RIB | Bt, GLY | 94 | 148 | 281 | 208 | 212 | 24.5 |
| DEKALB | DKC42-04RIB | Bt, CRW, GLY, LL | 92 | 148 | 252 | 229 | 210 | 25.0 |
| Dairyland | DS-3550AM | Bt, GLY, LL | 95 | 150 | 244 | 195 | 196 | 25.1 |
| Proseed | 1794 | Bt, GLY | 94 | 146 | 251 | 234 | 210 | 25.2 |
| Titan Pro SCI | 90-94 2P | Bt, GLY | 94 | 144 | 244 | 224 | 204 | 25.3 |
| Titan Pro SCI | 91-95 | — | 95 | 173 | 254 | 227 | 218 | 25.7 |
| Titan Pro SCI | 82-95 2P | Bt, GLY | 95 | 160 | 245 | 234 | 213 | 27.2 |
| 92 and Later RM Entry Averages: | | | | 153 | 253 | 223 | 210 | 24.9 |
| Northern Locations Averages: | | | | 153 | 241 | 217 | 204 | 23.8 |
| LSD (0.20) | | | | 15 | 14 | 22 | 10 | 0.9 |