

2021 Irrigated Corn Hybrid Performance Trial at Holyoke

| Brand | Hybrid | Insect and Herbicide Technology Traits ^a | Grain Yield ^b bu/ac | Yield % of test avg. | Relative Maturity ^c | Moisture percent | Test Weight lb/bu | Plant Height in | Population plants/ac |
|----------------------------------|---------------|--|--------------------------------------|-------------------------|-----------------------------------|---------------------|-------------------------|-----------------------|-------------------------|
| 111-115 Relative Maturity | | | | | | | | | |
| Pioneer | P1366AML | AML, LL, RR2 | 265 | 113% | 113 | 17 | 61 | 122 | 34,400 |
| Hoegemeyer Hybrids | 8188 Q | Q, LL, RR2 | 262 | 112% | 111 | 18 | 61 | 123 | 32,600 |
| Dyna-Gro Seed | D51VC67 | VT2P, RR2 | 260 | 111% | 111 | 20 | 59 | 117 | 30,900 |
| Dyna-Gro Seed | D51SS61 | STX, LL, RR2 | 257 | 110% | 111 | 18 | 60 | 124 | 30,900 |
| Local Seed | LC1108 TC | TRE, RR2 | 252 | 108% | 111 | 19 | 60 | 117 | 33,900 |
| Dyna-Gro Seed | D52DC82 | VT2P, RR2 | 249 | 106% | 112 | 17 | 59 | 115 | 33,100 |
| Local Seed | LC1577 VT2P | VT2P, RR2 | 243 | 104% | 115 | 19 | 61 | 113 | 34,400 |
| Hoegemeyer Hybrids | 8235 Q | Q, LL, RR2 | 243 | 104% | 112 | 20 | 62 | 115 | 31,100 |
| Local Seed | LCX15-26 SSX | STX, LL, RR2 | 240 | 102% | 115 | 19 | 59 | 108 | 34,600 |
| Local Seed | LCX11-24 SSX | STX, LL, RR2 | 238 | 102% | 111 | 17 | 59 | 110 | 34,800 |
| Local Seed | LCX12-20 VT2P | VT2P, RR2 | 235 | 100% | 112 | 19 | 59 | 119 | 33,400 |
| Dyna-Gro Seed | D51VC41 | VT2P, RR2 | 228 | 98% | 111 | 17 | 59 | 110 | 34,100 |
| Dekalb | DKC63-90RIB | STX, LL, RR2 | 225 | 96% | 113 | 17 | 60 | 122 | 33,600 |
| Dyna-Gro Seed | D51SS41 | STX, LL, RR2 | 223 | 95% | 111 | 16 | 60 | 109 | 34,400 |
| 103-110 Relative Maturity | | | | | | | | | |
| Local Seed | LC0707 DGVT2P | DG, VT2P, RR2 | 253 | 108% | 107 | 17 | 60 | 119 | 31,900 |
| Hoegemeyer Hybrids | 7772 Q | Q, LL, RR2 | 252 | 108% | 107 | 19 | 60 | 113 | 31,600 |
| Pioneer | P1082AM | AM, LL, RR2 | 246 | 105% | 110 | 19 | 59 | 112 | 31,400 |
| Augusta Seed | A1259 | 5222, RR2 | 235 | 100% | 109 | 17 | 59 | 116 | 32,400 |
| Dyna-Gro Seed | D45TC55 | TRE, RR2 | 234 | 100% | 105 | 16 | 60 | 112 | 34,600 |
| Dyna-Gro Seed | D50VC78 | VT2P, RR2 | 227 | 97% | 110 | 18 | 58 | 119 | 34,100 |
| Dyna-Gro Seed | D48QV22 | 3330, RR2 | 226 | 97% | 108 | 16 | 60 | 118 | 31,600 |
| Dyna-Gro Seed | D44SS54 | STX, LL, RR2 | 223 | 95% | 104 | 16 | 61 | 111 | 33,600 |
| Dyna-Gro Seed | D50VC09 | VT2P, RR2 | 207 | 88% | 109 | 16 | 59 | 120 | 31,600 |
| Dyna-Gro Seed | D49SS70 | STX, LL, RR2 | 200 | 86% | 109 | 17 | 62 | 117 | 36,400 |
| Dyna-Gro Seed | D43SS81 | STX, LL, RR2 | 190 | 81% | 103 | 16 | 61 | 113 | 33,400 |
| Local Seed | LCX07-11 VT2P | VT2P, RR2 | 173 | 74% | 107 | 17 | 62 | 116 | 27,100 |
| Average | | | 234 | | 110 | 17 | 60 | 116 | 32,900 |
| | | | ^d LSD (0.30) | 9 | | | | | |
| | | | ^d LSD (0.05) | 17 | | | | | |

^aTechnology trait designations: 3330=Agrisure Viptera 3330 E-Z Refuge; 5222=Agrisure Duracade 5222 E-Z Refuge; AM=AcreMax; AML=AcreMax Leptra; DG=DroughtGard; LL=LibertyLink; Q=QROME; RR2=Roundup Ready 2; STX=SmartStax; TRE=Trecepta; VT2P=VecTran Double Protection. For a list of specific pests controlled by each trait, please click [here](#).

^bYields corrected to 15.5% moisture. Hybrid yields in bold are in the top LSD group (0.30).

^cRelative maturity is provided by the respective companies and is the approximate time from planting to harvest maturity. The method of calculation of the relative maturity ratings may vary among companies.

^dFarmers selecting a hybrid based on yield should use the LSD (.30) to protect themselves from false negative decisions. Companies or researchers may be interested in the LSD (.05) to avoid false positive conclusions.

Site Information

Collaborator: Brent Adler
 Planting Date: May 4, 2021
 Harvest Date: October 25, 2021
 Fertilizer: Pre-plant: N at 44, P at 42, S at 10, and Zn at 1 lb/ac; In-season: N at 230 lb/ac
 Soil Type: Julesburg loamy sand
 Trial Coordinates: 40.35806, -102.10653
 Trial Comments: No hail damage or disease noted during the season.

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