



2018 South Dakota Corn Hybrid Trial Results Bancroft

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| Location: | 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County GPS: 44.543921, -97.767418 |
| Cooperator: | Weerts Farm, Inc. |
| Soil Type: | Houdek-Stickney loam, 0-2% slope, non-irrigated |
| Fertilizer: | 140-80-0-10S preplant; 30-10-10 starter |
| Yield Goal: | 200 bu/acre |
| Previous crop: | Soybeans |
| Tillage: | Minimum till |
| Row spacing: | 30 inches |
| Seeding Rate: | 31,400/acre |
| Herbicide: | Pre: 16 oz Harness Xtra (acetochlor) applied fall 2017 Post: 22 oz Cornerstone 5+ (glyphosate) + 32 oz TripleFlex (acetochlor + flumetsulam + clopyralid) + 8 oz DiFlexx (dicamba) |
| Date seeded: | 5/16/2018 |
| Date harvested: | 10/29/2018 |

Table 1a. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial (100 day maturity or less)**) at Bancroft, SD.

| Variety Information | | Agronomic Performance | | | | | |
|----------------------|---------------|-----------------------|--------------------|----------|-------------------|-------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture | Test Wt. (lbs/bu) | Lodging (%) | Final Stand (plants/A) |
| Heine Seeds | 6360VT2PRO | 97 | 259.5 | 16.0 | 56.9 | 0.0 | 29400 |
| Hoegemeyer | 7088 AM | 100 | 246.3 | 18.2 | 58.2 | 0.0 | 28500 |
| Dairyland Seed | RPM-3715 AM | 96 | 246.2 | 16.5 | 55.3 | 0.4 | 29300 |
| Channel | 197-90VT2PRIB | 97 | 243.3 | 15.9 | 57.2 | 0.0 | 28700 |
| Peterson Farms Seed | 72D00 | 100 | 243.2 | 16.9 | 56.5 | 0.0 | 29800 |
| Federal Hybrids | 4990 VT2P | 99 | 242.9 | 16.9 | 58.0 | 0.0 | 29800 |
| Heine Seeds | 638DGV2PRORIB | 98 | 240.8 | 16.6 | 56.0 | 0.0 | 29800 |
| Federal Hybrids | 4680 VT2P RIB | 96 | 239.9 | 15.8 | 58.5 | 1.5 | 29200 |
| Thunder Seed | 6999 VT2P | 99 | 239.8 | 16.0 | 57.1 | 0.0 | 29000 |
| Thunder Seed | 7800 DGV2P | 100 | 239.4 | 16.0 | 55.6 | 0.4 | 29200 |
| Hoegemeyer | 6620 AM | 96 | 239.3 | 15.8 | 56.8 | 0.0 | 30300 |
| Hoegemeyer | 6813 AM | 98 | 238.2 | 17.7 | 56.5 | 0.4 | 28600 |
| LG Seeds | LG5494VT2RIB | 99 | 237.8 | 16.3 | 57.1 | 0.4 | 29600 |
| Heine Seeds | 6200VT2PRORIB | 95 | 237.6 | 16.0 | 57.5 | 0.0 | 30300 |
| Federal Hybrids | 4780 VT2P | 97 | 237.2 | 15.5 | 56.7 | 0.0 | 29500 |
| DAIRYLAND | DS-9599 | 99 | 235.2 | 16.2 | 56.0 | 2.3 | 28900 |
| Heine Seeds | 7000VT2PRO | 100 | 235.0 | 17.2 | 57.3 | 0.0 | 29400 |
| CHECK | CHECK | 101 | 234.2 | 16.3 | 57.8 | 0.0 | 30100 |
| Dairyland Seed | EXP-09804 | 98 | 232.8 | 14.8 | 55.0 | 0.0 | 29300 |
| Federal Hybrids | 4880 VT2P RIB | 98 | 232.6 | 15.5 | 58.2 | 0.0 | 28900 |
| Federal Hybrids | 4580 VT2P RIB | 95 | 232.5 | 16.2 | 57.8 | 0.0 | 29400 |
| Dairyland Seed | RPM-3519 AM | 96 | 232.1 | 17.1 | 59.5 | 0.0 | 29400 |
| Federal Hybrids | 5060 SS RIB | 100 | 231.6 | 16.7 | 58.0 | 0.4 | 29300 |
| Dairyland Seed | RPM-4019 AM | 99 | 231.4 | 17.2 | 56.7 | 0.4 | 29600 |
| Federal Hybrids | 4770 VT2P RIB | 97 | 229.4 | 15.9 | 56.9 | 0.4 | 28900 |
| LG Seeds | LG46C73VT2RIB | 96 | 229.2 | 15.7 | 56.8 | 0.4 | 29500 |
| Federal Hybrids | 4470 VT2P RIB | 94 | 229.0 | 14.9 | 56.5 | 0.0 | 29800 |
| LG Seeds | LG5465VT2RIB | 97 | 225.6 | 15.6 | 57.3 | 0.0 | 30300 |
| Thunder Seed | 6996 VT2P | 96 | 223.8 | 16.1 | 58.4 | 0.4 | 28600 |
| Federal Hybrids | 4760 VT2P RIB | 97 | 223.1 | 15.5 | 55.9 | 0.0 | 29900 |
| Trial Average | | | 231.8 | 16.1 | 57.0 | 0.2 | 29200 |
| LSD (0.05)† | | | 15.3 | 0.7 | 0.8 | 1.0 | 900 |
| C.V.‡ | | | 4.7 | 3.1 | 1.0 | - | 2.2 |

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 1b. Glyphosate-resistant corn hybrid performance results, continued (average of 4 replications - **Early Season Trial (100 day maturity or less)**) at Bancroft, SD.

| Variety Information | | Agronomic Performance | | | | | |
|----------------------|---------------|-----------------------|--------------------|----------|-------------------|-------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture | Test Wt. (lbs/bu) | Lodging (%) | Final Stand (plants/A) |
| Thunder Seed | 6798 VT2P | 98 | 222.4 | 15.7 | 57.8 | 0.0 | 27900 |
| Heine Seeds | 6250VT2PRO | 96 | 221.2 | 15.6 | 55.4 | 0.0 | 26500 |
| Federal Hybrids | 4990 SS | 99 | 219.7 | 16.6 | 58.5 | 0.0 | 28300 |
| Federal Hybrids | 4180 VT2P RIB | 91 | 219.5 | 15.0 | 57.1 | 0.7 | 29200 |
| Federal Hybrids | 4185 VT2P RIB | 91 | 217.5 | 14.8 | 55.3 | 0.4 | 29400 |
| LG Seeds | LG5505STXRIB | 100 | 215.6 | 16.1 | 57.2 | 0.8 | 28300 |
| Federal Hybrids | 4560 VT2P RIB | 95 | 215.5 | 15.3 | 57.9 | 0.4 | 28900 |
| Federal Hybrids | 4160 VT2P RIB | 91 | 214.7 | 15.3 | 56.4 | 0.0 | 28900 |
| Federal Hybrids | 4190 VT2P | 91 | 208.5 | 14.9 | 57.3 | 0.0 | 28500 |
| Trial Average | | | 231.8 | 16.1 | 57.0 | 0.2 | 29200 |
| LSD (0.05)† | | | 15.3 | 0.7 | 0.8 | 1.0 | 900 |
| C.V.‡ | | | 4.7 | 3.1 | 1.0 | - | 2.2 |

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Late Season Trial (101 day maturity or more)**) at Bancroft, SD.

| Variety Information | | Agronomic Performance | | | | | |
|----------------------|-----------------|-----------------------|--------------------|----------|-------------------|-------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture | Test Wt. (lbs/bu) | Lodging (%) | Final Stand (plants/A) |
| Dairyland Seed | DS-7603PE | 102 | 241.8 | 21.2 | 56.8 | 0.0 | 29700 |
| Channel | 204-74VT2PRIB | 104 | 240.4 | 17.8 | 59.1 | 0.0 | 29800 |
| Channel | 201-28VT2PRIB | 101 | 236.9 | 16.2 | 60.4 | 0.0 | 28400 |
| Heine Seeds | 740VT2PRORIB | 103 | 234.2 | 17.1 | 59.4 | 0.0 | 26700 |
| Heine Seeds | 752VT2PRORIB | 105 | 234.1 | 19.3 | 59.3 | 0.0 | 29600 |
| Hoegemeyer | HPT 7166 AM | 101 | 233.4 | 17.5 | 60.7 | 0.0 | 29300 |
| LG Seeds | LG5502VT2RIB | 103 | 233.1 | 17.7 | 58.1 | 0.0 | 29600 |
| Thunder Seed | 8902 SS | 102 | 232.3 | 18.3 | 60.6 | 0.0 | 30300 |
| Heine Seeds | 739VT2PRORIB | 102 | 232.2 | 18.5 | 60.5 | 0.0 | 27700 |
| Check | CHECK | 101 | 231.7 | 17.0 | 58.4 | 1.1 | 30100 |
| Heine Seeds | 7500VT2PRO | 105 | 230.0 | 18.4 | 59.8 | 0.0 | 29400 |
| Channel | 201-05DGVT2PRIB | 101 | 229.5 | 16.7 | 57.4 | 0.4 | 29600 |
| Dairyland Seed | RPM-4319AM | 104 | 228.9 | 18.4 | 59.2 | 0.0 | 26600 |
| Proseed | 17103 SS | 103 | 228.8 | 18.2 | 58.7 | 0.0 | 28100 |
| Dairyland Seed | DS-7101 | 101 | 228.1 | 19.4 | 58.9 | 0.0 | 29600 |
| Hoegemeyer | HPT 7434 AM | 102 | 225.5 | 20.3 | 57.7 | 0.8 | 28500 |
| Dairyland Seed | RPM-4318AM | 104 | 225.2 | 19.1 | 58.9 | 0.0 | 28600 |
| Proseed | 18105 SS | 105 | 223.8 | 19.4 | 59.5 | 1.2 | 28000 |
| Dairyland Seed | DS-9804RA | 104 | 223.6 | 19.1 | 57.6 | 1.1 | 29900 |
| Hoegemeyer | HPT 7120 AMXT | 102 | 223.2 | 17.6 | 58.1 | 0.4 | 28300 |
| Peterson Farms Seed | 88B03 | 103 | 223.1 | 18.4 | 59.8 | 0.0 | 28200 |
| Proseed | 17102 SS | 102 | 222.9 | 17.6 | 58.9 | 0.4 | 29000 |
| Thunder Seed | 8905 SS | 105 | 221.5 | 19.5 | 59.0 | 0.4 | 29500 |
| Dairyland Seed | RPM-4018AM | 101 | 219.4 | 18.8 | 59.7 | 0.0 | 27400 |
| Federal Hybrids | 5280 SS RIB | 102 | 217.1 | 18.4 | 58.9 | 0.8 | 29200 |
| LG Seeds | LG52C18STXRIB | 102 | 213.2 | 16.5 | 58.9 | 0.4 | 29700 |
| Proseed | 16101 SS | 101 | 211.1 | 16.6 | 59.1 | 0.0 | 29400 |
| Dairyland Seed | RPM-3519AM | 104 | 208.9 | 20.4 | 57.5 | 0.8 | 28500 |
| Peterson Farms Seed | 81W01 | 101 | 201.3 | 16.6 | 58.5 | 0.0 | 24100 |
| Trial Average | | | 226.0 | 18.3 | 58.9 | 0.3 | 28700 |
| LSD (0.05)† | | | 12.9 | 0.7 | 0.9 | 1.0 | 900 |
| C.V.‡ | | | 4.1 | 2.7 | 1.1 | - | 2.3 |

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.