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Location: 2 miles east and 3/4 mile north of Geddes (57432) in Charles Mix County, SD
(GPS: N 43°16.958' W 098°39.895')

Cooperator: Curtis Sybesma

Soil Type: Highmore silt loam, 0-2% slope

Fertilizer: Variable-applied preplant; 30-10-10 starter

Yield Goal: 170 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: Harness (acetochlor) + Roundup (glyphosate) + 2,4-D
Post: Roundup (glyphosate)

Date seeded: 5/12/2015

Date harvested: 10/29/2015

Table 1. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Geddes, SD.

| Variety Information | | | Agronomic Performance | | | | |
|----------------------|---------------|-----------------|-----------------------|------------|-------------------|------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture % | Test Wt. (lbs/bu) | Lodging* % | Final Stand (plants/A) |
| Pioneer | P0589AM | 105 | 221.2 | 16.1 | 60.7 | 0.4 | 26600 |
| Nutech/G2 Genetics | 5X-905 | 105 | 218.5 | 16.4 | 60.1 | 0.4 | 26900 |
| Pioneer | P9929AM | 99 | 217.1 | 13.6 | 59.2 | 0.4 | 26600 |
| Wensman | W9325STXRIB | 102 | 216.3 | 14.1 | 61.4 | 0.0 | 26100 |
| Pioneer | P0339AM | 103 | 216.0 | 15.6 | 60.7 | 0.8 | 25800 |
| Channel | 206-55STXRIB | 106 | 215.5 | 15.8 | 60.2 | 1.3 | 25800 |
| Channel | 205-19STXRIB | 105 | 215.1 | 14.5 | 59.6 | 0.0 | 26500 |
| Great Lakes Hybrids | 5283STXRIB | 102 | 211.8 | 14.1 | 60.3 | 0.0 | 25500 |
| Rea Hybrids | 5A000-RIB | 100 | 211.6 | 13.2 | 59.8 | 0.4 | 26800 |
| Rea Hybrids | 6A071-RIB | 107 | 211.6 | 15.9 | 60.1 | 1.7 | 25700 |
| Titan Pro | TP 56-06 3110 | 106 | 211.3 | 17.0 | 59.1 | 2.1 | 26200 |
| Rea Hybrids | 6A062-RIB | 103 | 211.2 | 16.2 | 59.5 | 1.2 | 27000 |
| Check | Check | 99 | 209.6 | 15.1 | 60.6 | 0.8 | 26600 |
| Rea Hybrids | 6A050-RIB | 105 | 208.4 | 15.7 | 60.8 | 0.0 | 26100 |
| Great Lakes Hybrids | 5755STXRIB | 107 | 208.3 | 16.1 | 60.3 | 2.1 | 25300 |
| Channel | 207-27STXRIB | 107 | 206.7 | 16.2 | 59.9 | 1.2 | 26700 |
| Wensman | W91073STXRIB | 107 | 205.9 | 16.4 | 60.3 | 3.2 | 24100 |
| Channel | 203-88STXRIB | 103 | 205.7 | 14.3 | 58.7 | 0.9 | 23000 |
| Great Lakes Hybrids | 5688STXRIB | 106 | 205.0 | 16.9 | 60.7 | 6.3 | 26000 |
| Rea Hybrids | 5A022-RIB | 102 | 204.7 | 14.0 | 58.4 | 0.0 | 24700 |
| Renk Seed | RK776SSTX | 107 | 203.7 | 17.2 | 61.2 | 1.3 | 25800 |
| Thunder Seed | 7603 GENSSRIB | 103 | 203.6 | 13.6 | 59.7 | 0.0 | 24700 |
| Wensman | W91051STXRIB | 105 | 202.8 | 16.4 | 61.6 | 1.2 | 26100 |
| Channel | 202-52STXRIB | 102 | 202.7 | 13.9 | 61.6 | 0.4 | 25900 |
| Channel | 202-64STXRIB | 102 | 201.0 | 14.9 | 61.1 | 1.9 | 23000 |
| Rea Hybrids | 6A032-RIB | 103 | 199.0 | 16.5 | 61.3 | 2.3 | 23500 |
| Renk Seed | RK712SSTX | 106 | 198.7 | 16.4 | 60.9 | 6.8 | 24100 |
| Great Lakes Hybrids | 5470STXRIB | 104 | 198.4 | 16.1 | 61.3 | 0.0 | 25500 |
| Thunder Seed | 6600 VT2PRIB | 100 | 195.3 | 13.5 | 60.3 | 0.5 | 24500 |
| Titan Pro | TP 39-05 SS | 105 | 187.7 | 16.9 | 60.5 | 8.3 | 23500 |
| Trial Average | | | 200.7 | 14.9 | 58.4 | 1.5 | 24700 |
| LSD (0.05)† | | | 13.8 | 1.0 | 0.9 | 2.4 | 900 |
| C.V.‡ | | | 4.9 | 4.6 | 1.1 | - | 2.7 |

* Lodging percentage - stalks broken below the ear as a percentage of 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 variety performance results (average of 4 replications) - **Late Season Trial (108 day maturity or more)** at Geddes, SD.

| Variety Information | | | Agronomic Performance | | | | |
|----------------------|--------------|-----------------|-----------------------|------------|-------------------|------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture % | Test Wt. (lbs/bu) | Lodging* % | Final Stand (plants/A) |
| Channel | 209-53STXRIB | 109 | 232.6 | 19.8 | 60.6 | 1.2 | 26800 |
| Rea Hybrids | 7B090-RIB | 109 | 227.3 | 19.2 | 60.2 | 3.4 | 26500 |
| Renk Seed | RK871VT2P | 111 | 227.1 | 20.1 | 59.4 | 0.4 | 25700 |
| Titan Pro | TP 55-11 2P | 111 | 223.3 | 20.0 | 59.0 | 0.0 | 26100 |
| Channel | 209-46STXRIB | 109 | 220.1 | 18.3 | 60.5 | 2.5 | 26400 |
| Rea Hybrids | 7A111-RIB | 111 | 219.3 | 16.9 | 58.9 | 3.3 | 26200 |
| Great Lakes Hybrids | 5944STX | 109 | 219.1 | 17.0 | 59.5 | 3.1 | 25000 |
| Nutech/G2 Genetcs | 5F-709 | 109 | 217.8 | 18.3 | 60.5 | 2.0 | 26900 |
| Great Lakes Hybrids | 6185STXRIB | 111 | 217.5 | 17.2 | 60.3 | 0.8 | 26200 |
| Great Lakes Hybrids | 5918STXRIB | 109 | 217.4 | 18.7 | 60.3 | 3.3 | 25900 |
| Wensman | W91112STX | 111 | 216.2 | 17.4 | 59.8 | 1.9 | 23600 |
| Renk Seed | RK791SSTX | 108 | 215.9 | 16.7 | 61.2 | 0.9 | 24600 |
| Titan Pro | TP 59-08 SS | 108 | 214.4 | 17.4 | 60.9 | 6.1 | 25400 |
| Check | Check | 99 | 212.0 | 15.9 | 61.2 | 1.7 | 26600 |
| Wensman | W91095STXRIB | 109 | 211.4 | 16.8 | 61.0 | 1.3 | 25900 |
| Great Lakes Hybrids | 6068STXRIB | 110 | 208.7 | 18.2 | 60.2 | 3.3 | 26600 |
| Rea Hybrids | 7A082-RIB | 108 | 189.8 | 18.9 | 59.3 | 9.6 | 20700 |
| Trial Average | | | 217.0 | 18.0 | 60.2 | 2.6 | 25600 |
| LSD (0.05)† | | | 12.1 | 1.0 | 0.7 | 4.0 | 1300 |
| C.V.‡ | | | 3.9 | 3.8 | 0.8 | - | 3.6 |

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