



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Corn Hybrid Trial Results South Shore

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Location: 8.5 miles west of South Shore (57263) in Codington County, SD
45.106052°, -97.098736°

Cooperator: SDSU Northeast Research Farm

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 100 lb/acre 30-10-10 starter + 200-0-100-5Z broadcast preplant

Yield Goal: 200 bu/acre

Previous crop: soybeans

Tillage: conventional

Row spacing: 30 inches

Seeding Rate: 32,000/acre

Herbicide: Pre: 1.6 qt/acre Harness Xtra (acetochlor + atrazine)
Post: 32 oz/acre Roundup (glyphosate) + 3 oz/acre Callisto (mesotrione)

Date seeded: 4/30/21

Date harvested: 10/26/21

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2021 South Dakota Corn Hybrid Trial Results South Shore

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Table 1. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (95 day maturity or less) at South Shore, South Dakota.

| Hybrid Information | | Agronomic Performance | | | | | |
|----------------------|-----------------|-----------------------|--------------------|----------|-------------------|-------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture | Test Wt. (lbs/bu) | Lodging (%) | Final Stand (plants/A) |
| Renk Seed | RK561DGVT2P | 95 | 248.7 | 18.8 | 59.5 | 0.0 | 31200 |
| Channel | 194-49DGVT2PRIB | 94 | 238.7 | 17.8 | 60.3 | 0.0 | 31700 |
| Federal Hybrids | 4300 VT2P RIB | 93 | 238.6 | 18.3 | 60.7 | 0.0 | 31200 |
| Federal Hybrids | 4130 VT2P RIB | 91 | 238.1 | 15.7 | 58.0 | 0.3 | 32200 |
| Federal Hybrids | 4440 VT2P RIB | 94 | 238.1 | 17.9 | 58.9 | 0.0 | 31200 |
| Check | DKC49-44RIB | 99 | 236.2 | 19.5 | 59.6 | 0.0 | 31900 |
| Farmer Check 2 | NK9175-3110A | 91 | 235.5 | 17.6 | 58.5 | 0.7 | 32200 |
| Federal Hybrids | 4190 VT2P RIB | 91 | 235.3 | 16.4 | 59.7 | 0.0 | 31700 |
| Channel | 195-85DGVT2PRIB | 95 | 233.1 | 17.4 | 59.7 | 0.0 | 31200 |
| Farmer Check 1 | 2291 VT2P RIB | 91 | 232.4 | 15.9 | 60.5 | 0.0 | 30900 |
| Federal Hybrids | 4185 VT2P RIB | 91 | 232.2 | 16.5 | 59.6 | 0.0 | 30800 |
| Dairyland Seed | DS-3550AM | 95 | 232.2 | 17.9 | 58.3 | 0.0 | 31300 |
| Federal Hybrids | 4580 VT2P RIB | 95 | 231.4 | 17.5 | 60.2 | 0.0 | 30600 |
| Dairyland Seed | DS3193AM | 91 | 229.9 | 16.2 | 58.9 | 0.3 | 31000 |
| Dairyland Seed | DS-3345AM | 93 | 228.4 | 16.3 | 61.4 | 0.0 | 31400 |
| Thunder Seed | T6791 VT2P | 91 | 228.4 | 16.3 | 59.9 | 0.0 | 30000 |
| Peterson Farms Seed | 78G95 | 95 | 227.1 | 17.6 | 57.8 | 0.0 | 31400 |
| Dairyland Seed | DS-3162Q | 91 | 227.0 | 15.1 | 59.8 | 0.0 | 31600 |
| Renk Seed | RK499VT2P | 94 | 225.6 | 16.3 | 59.7 | 0.0 | 30600 |
| Renk Seed | RK433VT2P | 92 | 225.1 | 17.7 | 60.8 | 0.0 | 30600 |
| Thunder Seed | T6993 VT2P | 93 | 223.6 | 17.2 | 60.9 | 0.3 | 31300 |
| Federal Hybrids | 4470 VT2P RIB | 94 | 223.2 | 17.7 | 59.0 | 0.0 | 28600 |
| Thunder Seed | T6094 VT2P | 94 | 222.0 | 15.0 | 60.4 | 0.7 | 30500 |
| Federal Hybrids | 4400 VT2P RIB | 94 | 219.0 | 15.6 | 61.9 | 0.0 | 30000 |
| Federal Hybrids | 4160 VT2P RIB | 91 | 215.8 | 16.2 | 60.1 | 0.0 | 31700 |
| Renk Seed | RK312VT2P | 90 | 215.5 | 15.5 | 59.9 | 0.0 | 30000 |
| Renk Seed | RK315VT2P | 90 | 214.7 | 15.7 | 58.4 | 0.0 | 27000 |
| Peterson Farms Seed | 79N94 | 94 | 213.6 | 15.2 | 58.6 | 0.4 | 30400 |
| Trial Average | | | 228.9 | 16.8 | 59.7 | 0.1 | 30900 |
| LSD (0.05)† | | | 13.1 | 0.8 | 0.9 | - | 800 |
| C.V.‡ | | | 3.5 | 3.5 | 1.1 | - | - |

* 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.



2021 South Dakota Corn Hybrid Trial Results South Shore

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Table 2. Glyphosate-resistant corn hybrid performance results (average of four replications - **Late Season Trial** (96 day maturity or more) at South Shore, South Dakota.

| Hybrid Information | | Agronomic Performance | | | | | |
|----------------------|---------------|-----------------------|--------------------|----------|-------------------|-------------|------------------------|
| Brand | Hybrid | Maturity Rating | Yield Bu/A (15.5%) | Moisture | Test Wt. (lbs/bu) | Lodging (%) | Final Stand (plants/A) |
| Thunder Seed | T6999 VT2P | 99 | 247.5 | 18.4 | 59.3 | 0.0 | 31900 |
| AgriGold | A629-12VT2RIB | 99 | 246.7 | 20.2 | 57.6 | 0.0 | 31000 |
| AgriGold | A627-83VT2RIB | 97 | 245.0 | 18.9 | 59.0 | 0.0 | 31800 |
| Peterson Farms Seed | 78B98 | 98 | 244.4 | 19.4 | 57.6 | 0.0 | 31600 |
| Dairyland Seed | DS-4014Q | 100 | 243.1 | 20.2 | 56.7 | 0.0 | 28800 |
| Thunder Seed | T6996 VT2P | 96 | 241.9 | 19.3 | 59.2 | 0.0 | 32200 |
| Check | DKC49-44RIB | 99 | 241.1 | 20.0 | 57.8 | 0.0 | 32200 |
| Thunder Seed | T6100 VT2P | 100 | 238.7 | 19.2 | 57.2 | 0.0 | 31900 |
| Peterson Farms Seed | 76Y96 | 96 | 236.2 | 19.1 | 59.2 | 0.0 | 29700 |
| Farmer Check | DKC42-04RIB | 92 | 235.1 | 19.6 | 58.3 | 0.0 | 29500 |
| AgriGold | A626-08VT2PRO | 96 | 234.9 | 18.4 | 57.1 | 0.0 | 28400 |
| Dairyland Seed | DS-3715AM | 97 | 234.7 | 17.6 | 56.7 | 0.0 | 28000 |
| Channel | 197-90VT2PRIB | 97 | 233.9 | 18.5 | 58.6 | 0.0 | 30600 |
| Renk Seed | RK593VT2P | 97 | 232.6 | 18.2 | 58.7 | 0.0 | 29200 |
| Thunder Seed | T6098 VT2P | 98 | 227.5 | 18.4 | 57.4 | 0.0 | 29000 |
| Dairyland Seed | DS-3519AM | 96 | 218.5 | 18.5 | 59.1 | 0.0 | 30600 |
| Trial Average | | | 237.6 | 19.0 | 58.2 | 0.0 | 30400 |
| LSD (0.05)† | | | 8.6 | 0.6 | 0.7 | - | 1000 |
| C.V.‡ | | | 2.6 | 2.2 | 0.9 | - | - |

* 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.