



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

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

# 2023 South Dakota Corn Hybrid Trial Results Renner

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**Location:** 4.5 miles east of Renner in Minnehaha County, SD  
43.645959°, -96.627758°

**Soil Type:** Moody-Nora complex, 2-6% slopes

**Fertilizer:** 27-9-9 starter + 134-40-50-15S preplant broadcast

**Previous crop:** soybeans

**Tillage:** no-till

**Row spacing:** 30 inches

**Seeding Rate:** 32,000/acre

**Herbicide:** Pre: 1 qt/acre Dual II Magnum + 1 pt/acre Atrazine 4L + 8 oz/acre Clash  
Post: 3 oz/acre Calleron + 24 oz/acre glyphosate

**Date seeded:** 5/4/23

**Date harvested:** 11/6/23



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Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial** (102 day maturity or less) at Renner, SD.

| Hybrid Information   |               | Agronomic Performance |                    |          |                   |             |                        |
|----------------------|---------------|-----------------------|--------------------|----------|-------------------|-------------|------------------------|
| Brand                | Hybrid        | Maturity Rating       | Yield Bu/A (15.5%) | Moisture | Test Wt. (lbs/bu) | Lodging (%) | Final Stand (plants/A) |
| Wyffels Hybrids      | W2656RIB      | 101                   | 202.7              | 17.2     | 57.1              | 0.0         | 32300                  |
| Renk Seed            | RK600VT2P     | 100                   | 197.4              | 16.9     | 57.9              | 0.0         | 31000                  |
| Dairyland Seed       | DS-4003Q      | 100                   | 196.8              | 16.4     | 59.3              | 0.0         | 32300                  |
| Hoegemeyer           | 6963 AM       | 99                    | 196.2              | 16.2     | 58.1              | 0.0         | 31700                  |
| Renk Seed            | RK628VT2P     | 102                   | 194.0              | 16.9     | 57.4              | 0.0         | 32500                  |
| Wyffels Hybrids      | W1996RIB      | 98                    | 192.1              | 16.7     | 55.9              | 0.3         | 32500                  |
| Hoegemeyer           | 7094 Q        | 100                   | 191.6              | 16.2     | 59.3              | 0.0         | 32900                  |
| Legacy Seeds         | LC512-22 VT2P | 101                   | 191.4              | 16.7     | 57.7              | 0.0         | 32900                  |
| Dairyland Seed       | DS-4219AM     | 102                   | 190.8              | 17.8     | 55.9              | 0.0         | 32700                  |
| Farmer Check 2       | LG45C21       | 95                    | 188.1              | 17.0     | 57.5              | 0.0         | 32500                  |
| Renk Seed            | RK590VT2P     | 98                    | 187.8              | 16.6     | 55.8              | 0.0         | 32300                  |
| Dairyland Seed       | DS-3881AM     | 98                    | 187.0              | 16.3     | 58.7              | 0.0         | 31200                  |
| Thunder Seed         | T6300 VT2P    | 100                   | 186.0              | 16.8     | 56.7              | 0.0         | 31900                  |
| Thunder Seed         | T6902 VT2P    | 102                   | 185.4              | 17.4     | 56.3              | 0.0         | 32900                  |
| Renk Seed            | RK609VT2P     | 101                   | 185.0              | 17.0     | 58.0              | 0.0         | 31200                  |
| Dairyland Seed       | DS-3601AM     | 96                    | 184.0              | 16.7     | 57.1              | 0.0         | 32300                  |
| Hoegemeyer           | 6941 AM       | 99                    | 181.7              | 17.2     | 57.4              | 0.3         | 33100                  |
| Legacy Seeds         | LC494-23 PWE  | 99                    | 181.5              | 17.0     | 56.9              | 0.3         | 31900                  |
| Wyffels Hybrids      | W1826         | 97                    | 180.9              | 16.7     | 56.6              | 0.0         | 33100                  |
| Renk Seed            | RK597SSPRO    | 99                    | 175.3              | 16.4     | 56.3              | 0.0         | 32700                  |
| Hoegemeyer           | 7138 AM       | 101                   | 175.2              | 17.9     | 56.2              | 0.0         | 32500                  |
| Renk Seed            | RK582SSTX     | 98                    | 174.4              | 16.4     | 56.0              | 0.0         | 32100                  |
| Renk Seed            | RK60XPWE      | 101                   | 173.7              | 16.8     | 56.3              | 0.0         | 32900                  |
| Renk Seed            | RK579DGVT2P   | 99                    | 171.8              | 16.6     | 57.0              | 0.0         | 32900                  |
| Check                | DKC48-95RIB   | 98                    | 171.0              | 16.8     | 59.0              | 0.0         | 32500                  |
| Legacy Seeds         | LC492-22 VT2P | 99                    | 169.8              | 16.5     | 55.9              | 0.0         | 32500                  |
| Farmer Check 1       | RK485DGVT2P   | 94                    | 165.5              | 16.2     | 59.0              | 0.3         | 32300                  |
| <b>Trial Average</b> |               |                       | 184.3              | 16.8     | 57.2              | 0.0         | 32400                  |
| <b>LSD (0.05)†</b>   |               |                       | 14.7               | 0.5      | 0.6               | -           | 1700                   |
| <b>C.V.‡</b>         |               |                       | 5.7                | -        | -                 | -           | -                      |

\* 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.



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Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Late Season Trial** (103 day maturity or more) at Renner, SD.

| 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            | RK707TRE     | 105                   | 230.2              | 17.7     | 55.8              | 0.0         | 32300                  |
| Dairyland Seed       | DS-4365AM    | 103                   | 227.6              | 17.6     | 58.2              | 0.0         | 32700                  |
| Renk Seed            | RK703PWE     | 106                   | 223.1              | 17.7     | 58.2              | 0.0         | 32700                  |
| Renk Seed            | RK625DGVT2P  | 104                   | 214.0              | 17.1     | 56.5              | 0.0         | 32500                  |
| Wyffels Hybrids      | W3286        | 103                   | 213.5              | 16.9     | 57.8              | 0.0         | 32900                  |
| Renk Seed            | RK69XPWE     | 106                   | 212.5              | 17.5     | 57.4              | 0.0         | 32900                  |
| Hoegemeyer           | 7681 AML     | 106                   | 210.7              | 18.7     | 56.0              | 0.0         | 32900                  |
| Thunder Seed         | T6405 TRE    | 105                   | 209.7              | 17.5     | 57.5              | 0.0         | 33100                  |
| Dairyland Seed       | DS-4567Q     | 105                   | 208.7              | 17.2     | 58.6              | 0.0         | 32900                  |
| Renk Seed            | RK720TRE     | 106                   | 206.9              | 17.5     | 55.3              | 0.0         | 32700                  |
| Legacy Seeds         | LC534-23 TRE | 103                   | 205.2              | 16.7     | 57.1              | 0.0         | 32700                  |
| Wyffels Hybrids      | W4025RIB     | 105                   | 203.6              | 18.2     | 56.4              | 0.0         | 32700                  |
| Legacy Seeds         | LC544-22 PWE | 104                   | 198.3              | 17.5     | 57.3              | 0.0         | 32900                  |
| Thunder Seed         | T6204 VT2P   | 104                   | 196.3              | 17.8     | 56.4              | 0.0         | 31700                  |
| Farmer Check 2       | RK609VT2P    | 101                   | 193.0              | 17.2     | 57.9              | 0.0         | 32300                  |
| Check                | DKC48-95RIB  | 98                    | 184.8              | 16.5     | 59.1              | 0.0         | 32500                  |
| Farmer Check 1       | RK561DGVT2P  | 95                    | 182.3              | 16.7     | 57.6              | 0.0         | 32700                  |
| Wyffels Hybrids      | W3576RIB     | 103                   | 181.3              | 17.5     | 56.7              | 0.0         | 30400                  |
| <b>Trial Average</b> |              |                       | 205.6              | 14.4     | 57.2              | 0.0         | 32500                  |
| <b>LSD (0.05)†</b>   |              |                       | 14.4               | 0.7      | 0.6               | -           | 1500                   |
| <b>C.V.‡</b>         |              |                       | 4.9                | -        | -                 | -           | -                      |

\* 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.