



**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 Reliance

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**Location:** 3 miles north and 8 miles east of Reliance (57569) in Lyman County, SD  
43.917912°, -99.445628°

**Cooperator:** Schindler Farms

**Soil Type:** McClure silty clay loam, 3-6% slopes

**Fertilizer:** 100 lb/acre 30-10-10 starter + 174-24-0-17S

**Yield Goal:** 200 bu/acre

**Previous crop:** soybeans

**Tillage:** no-till

**Row spacing:** 30 inches

**Seeding Rate:** 25,000/acre

**Herbicide:** Pre: none  
Post: 32 oz/acre glyphosate + 3 oz/acre mesotrione + .67 lb/acre atrazine

**Date seeded:** 5/7/21

**Date harvested:** 10/18/21



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Table 1a. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (102 day maturity or less) at Reliance, 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)
Dairyland Seed	DS-3727AM	97	<b>152.7</b>	12.8	59.1	0.9	23300
Farmer Check	CP3899VT2PRIB	98	<b>150.3</b>	13.3	58.5	2.9	22100
Federal Hybrids	4820 VT2P	98	<b>146.7</b>	14.3	58.8	0.9	21900
Dairyland Seed	DS-4018AM	101	<b>143.4</b>	13.6	58.9	1.3	23600
BH Genetics	BH6218VT2PRIB	92	<b>142.6</b>	13.3	58.7	0.9	23200
Federal Hybrids	4160 VT2P RIB	91	<b>138.9</b>	12.8	58.0	1.3	22600
Federal Hybrids	4440 VT2P RIB	94	<b>137.9</b>	13.0	59.1	0.5	22100
Federal Hybrids	4770 VT2P RIB	97	135.1	13.5	58.0	0.9	22600
Check	DKC48-95RIB	98	133.3	14.2	60.0	4.4	22000
Federal Hybrids	4185 VT2P RIB	91	131.0	12.3	59.6	0.0	23900
Federal Hybrids	4520 DGVT2P	92	127.0	13.3	61.3	0.0	23100
Federal Hybrids	4720 VT2P	97	126.5	13.5	56.7	5.7	22500
Hoegemeyer	HPT 7027 AM	100	124.5	14.2	58.0	1.0	22000
Federal Hybrids	4990 VT2P RIB	99	123.3	13.4	59.1	6.2	24000
Federal Hybrids	4130 VT2P RIB	91	122.8	12.5	59.2	0.5	22000
Federal Hybrids	4680 VT2P RIB	96	121.8	14.0	58.6	6.7	22200
Federal Hybrids	4470 VT2P RIB	94	116.6	12.9	56.7	9.6	22200
Federal Hybrids	5000 VT2P RIB	100	116.1	12.9	59.5	6.1	22600
Dairyland Seed	DS-3959AM	99	114.9	12.7	57.1	2.4	22200
Hoegemeyer	HPT 7209 AM	102	113.7	13.6	58.5	1.8	22900
Federal Hybrids	4580 VT2P RIB	92	113.5	13.0	57.9	2.9	22400
Federal Hybrids	4999 VT2P RIB	99	113.0	13.0	59.6	0.5	22300
Federal Hybrids	4190 VT2P RIB	91	112.0	12.6	58.5	8.1	23600
Farmer Check	DKC51-25RIB	101	106.7	13.6	59.5	3.7	22900
Federal Hybrids	4220 VT2P RIB	92	98.9	12.7	57.5	4.7	22500
<b>Trial Average</b>			126.5	13.2	58.6	3.0	22700
<b>LSD (0.05)†</b>			15.6	1.1	0.9	-	1000
<b>C.V.‡</b>			8.8	5.7	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.



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Table 2. Glyphosate-resistant corn hybrid performance results (average of four replications - **Late Season Trial** (103 day maturity or more) at Reliance, 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)
Dairyland Seed	DS-4510Q	105	<b>179.5</b>	16.0	58.2	0.9	23600
Renk	RK782VT2P	109	<b>166.8</b>	20.9	56.3	0.0	21600
Renk	RK625DGVT2P	104	157.0	17.8	57.3	4.6	23200
Farmer Check	P0421Q	104	150.2	14.1	59.2	0.4	23200
Hoegemeyer	HPT 7322 AML	103	149.6	15.1	58.3	1.5	21700
Renk	RK710DGVT2P	107	148.9	16.6	58.2	0.9	22400
Check	DKC48-95RIB	98	134.5	14.5	59.9	1.9	22200
Dairyland Seed	DS-4329AM	105	125.1	17.0	57.2	2.4	21700
<b>Trial Average</b>			155.2	16.4	58.2	1.5	22400
<b>LSD (0.05)†</b>			21.3	1.2	0.7	-	1200
<b>C.V.‡</b>			9.7	5.1	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.