



# 2020 South Dakota Corn Hybrid Trial Results Reliance

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

<b>Location:</b>	1 mile north and 2 3/4 miles east of Reliance (57569) in Lyman county, SD (GPS: 43.891076°, -99.552062°)
<b>Cooperator:</b>	Schindler Farms
<b>Soil Type:</b>	McClure silty clay loam, 0-3% slopes
<b>Fertilizer:</b>	100 lb/acre 30-10-10 + 175-0-0-17S broadcast preplant
<b>Yield Goal:</b>	175 bu/acre
<b>Previous crop:</b>	spring wheat
<b>Tillage:</b>	no-till
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	25,000/acre
<b>Herbicide:</b>	Pre: 32 oz/acre Glyphosate + 24 oz/acre Metolachlor + 0.5 lb/acre Atrazine Post: 32 oz/acre Glyphosate + 24 oz/acre Mezotrione + 0.5 lb/acre Atrazine
<b>Date seeded:</b>	5/11/2020
<b>Date harvested:</b>	11/3/2020

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

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Farmer Check 1	DKC51-25RIB	101	<b>186.1</b>	13.0	60.3	0.0	22900
Channel	199-60TRERIB	99	<b>182.3</b>	11.8	58.1	0.9	23300
Channel	195-85DGVT2PRIB	95	<b>175.8</b>	11.7	59.0	1.8	23400
Hoegemeyer	HPT 6813 AM	98	<b>175.0</b>	11.3	56.9	0.0	23200
Federal Hybrids	4580 VT2P RIB	95	170.0	12.3	60.0	1.3	23500
Renk Seed	RK695GTCBLLBL	102	169.8	14.5	61.0	0.9	23800
Dairyland Seed	DS-4018AM	100	169.5	11.7	59.3	0.0	22200
Federal Hybrids	4999 VT2P RIB	99	168.6	12.0	59.7	1.9	22700
Farmer Check 2	3899VT2PRIB	96	167.6	12.3	58.5	1.9	22400
Hoegemeyer	HPT 7209 AM	102	166.1	11.8	57.8	1.5	21100
Federal Hybrids	4185 VT2P RIB	91	164.1	11.7	60.1	0.9	23600
Hoegemeyer	HPT 7088 AM	100	164.0	12.0	58.3	0.9	22400
Channel	194-49DGVT2PRIB	94	163.0	12.6	60.0	1.4	23500
Federal Hybrids	4800 VT2P RIB	98	162.3	11.8	59.1	0.0	22000
Check	DKC49-44RIB	99	160.8	12.3	59.8	1.8	23400
Federal Hybrids	4160 VT2P RIB	91	160.6	11.6	58.9	0.0	22700
Federal Hybrids	4190 VT2P RIB	91	159.7	11.4	58.0	3.2	23200
Federal Hybrids	4130 VT2P RIB	91	159.3	11.7	58.9	0.5	23400
Federal Hybrids	4440 VT2P RIB	94	158.7	12.2	60.0	2.7	23800
Dairyland Seed	DS-4000AMXT	100	155.6	12.0	58.6	2.0	21500
Federal Hybrids	4990 VT2P RIB	99	154.3	12.1	58.6	0.4	23200
Proseed	1896 RR	96	152.4	12.0	58.3	1.5	20500
Hoegemeyer	HPT 6620 AM	96	152.4	11.4	58.9	4.2	23300
Proseed	1794 VT2P	94	147.1	11.8	58.0	7.3	23300
Federal Hybrids	4400 VT2P RIB	94	143.0	12.1	59.0	4.3	22300
Federal Hybrids	4470 VT2P RIB	94	136.9	11.8	57.4	3.3	22400
Dairyland Seed	DS-3519AM	96	136.7	12.5	59.9	5.0	21500
<b>Trial Average</b>			161.5	12.0	59.0	1.8	22800
<b>LSD (0.05)†</b>			12.3	0.6	0.9	2.2	1000
<b>C.V.‡</b>			5.4	3.6	1.0	-	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.

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

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Channel	203-60TRERIB	103	179.3	13.9	59.5	0.0	22600
Hoegemeyer	HPT 7434 AM	104	178.8	12.7	58.6	0.5	19300
Farmer Check 1	4822VT2PRIB	103	176.0	12.2	57.9	0.5	23300
Renk Seed	RK710DGV2P	106	175.1	13.3	58.6	0.0	22200
Renk Seed	RK700SSTX	107	174.7	12.5	58.6	1.0	21700
Dairyland Seed	DS-4329AM	103	173.0	11.2	57.7	0.0	22800
Dairyland Seed	DS-4440AM	104	171.1	13.1	58.5	0.9	24000
Channel	203-01VT2PRIB	103	167.1	12.3	57.4	1.4	23100
Hoegemeyer	HPT 7402 AM	104	166.0	14.1	59.9	1.4	22300
Farmer Check 2	DKC49-44RIB	99	165.4	12.4	58.7	1.3	23900
Check	DKC49-44RIB	99	162.5	12.8	58.6	1.8	23300
Channel	205-63VT2PRIB	105	160.7	13.4	57.9	1.6	19400
Channel	207-87VT2PRIB	107	159.8	13.4	57.4	1.9	23200
Renk Seed	RK621VT2P	103	159.4	12.5	58.7	0.0	23100
Channel	208-38VT2PRIB	108	149.2	13.7	55.9	0.6	17400
Dairyland Seed	DS-4910AML	109	146.0	14.5	60.4	4.1	23600
<b>Trial Average</b>			166.5	13.0	58.4	1.1	22200
<b>LSD (0.05)†</b>			14.0	0.9	0.9	1.8	1000
<b>C.V.‡</b>			5.9	48.0	1.1	-	3.2

\* 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.