



**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 Miller

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<b>Location:</b>	7 miles south of St. Lawrence in Hand County, SD 44.414712°, -98.933699°
<b>Cooperator:</b>	Paul Fulton
<b>Soil Type:</b>	Houdek-Prosper loams, 0-2% slopes
<b>Fertilizer:</b>	30-10-10 starter + 134-52-30-12S-7Z preplant + 1 gal/acre Novus B (applied with fungicide)
<b>Yield Goal</b>	200 bu/acre
<b>Previous crop:</b>	soybeans
<b>Tillage:</b>	no-till
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	32,000/acre
<b>Herbicide:</b>	Pre: 32 oz acre RT3 + 32 oz/acre Accuron + 16 oz/acre Bicep Lite II Magnum + 16 oz/acre Detonate Post: 32 oz/acre Roundup PowerMax + 2.5 oz/acre Status + 12.8 oz/acre Renegade
<b>Fungidice:</b>	13.7 oz/acre Trivapro
<b>Date seeded:</b>	5/10/23
<b>Date harvested:</b>	11/1/23

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Table 1. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Early Season Trial** (100 day maturity or less) at Miller, SD.

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Peterson Farms Seed	78P98	98	257.4	17.1	57.2	7.1	32900
Renk Seed	RK582SSTX	98	252.1	17.1	57.0	2.9	32500
Legacy Seeds	LC494-23 PWE	99	247.0	17.9	57.5	1.6	32500
Peterson Farms Seed	74A97	97	242.2	17.0	57.6	1.6	32900
Check	DKC48-95RIB	98	239.8	17.1	59.0	1.3	32500
Dairyland Seed	DS-3881AM	98	238.9	17.8	57.0	1.0	32700
Renk Seed	RK579DGVT2P	99	235.6	17.6	58.1	5.3	32500
Renk Seed	RK597SSPRO	99	234.4	16.9	57.9	1.0	33100
Dairyland Seed	DS-3601AM	96	232.6	17.2	56.9	4.6	32500
Farmer Check 1	DKC47-85RIB	97	232.3	17.3	56.7	0.7	32700
Legacy Seeds	LC492-22 VT2P	99	232.0	17.2	56.8	2.0	32100
Peterson Farms Seed	71R95	95	230.8	16.7	59.2	1.6	32500
Renk Seed	RK571PWE	96	226.5	17.6	56.7	5.5	32900
Renk Seed	RK561DGVT2P	95	224.2	16.9	58.1	0.3	32300
Renk Seed	RK600VT2P	100	222.3	17.6	57.7	10.0	32900
Renk Seed	RK590VT2P	98	222.1	17.1	56.7	1.6	32300
Farmer Check 2	DKC50-88RIB	100	220.7	17.4	58.1	1.0	31200
Peterson Farms Seed	85X98	98	220.5	17.5	58.1	0.3	32100
Peterson Farms Seed	75T99	99	219.8	17.1	57.7	6.5	32500
Trial Average			233.2	17.2	57.6	2.9	32500
LSD (0.05)†			12.8	0.4	0.6	-	1000
C.V.‡			3.9	-	-	-	-

\* 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.



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Table 2. Glyphosate-resistant corn hybrid performance results (average of 4 replications - **Late Season Trial** (101 day maturity or more) at Miller, SD.

Hybrid Information		Agronomic Performance					
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture	Test Wt. (lbs/bu)	Lodging (%)	Final Stand (plants/A)
Legacy Seeds	LC544-22 PWE	104	253.0	19.3	56.8	2.9	32500
Legacy Seeds	LC512-22 VT2P	101	247.8	18.7	56.2	3.8	33100
Renk Seed	RK625DGV2P	104	247.0	19.1	55.8	2.7	32100
Dairyland Seed	DS-4219AM	102	244.5	18.9	55.2	2.3	32500
Renk Seed	RK609VT2P	101	244.5	18.4	58.0	0.3	32900
Legacy Seeds	LC534-23 TRE	103	243.5	18.6	57.2	1.6	32500
Check	DKC48-95RIB	98	243.5	17.8	58.4	1.3	32300
Renk Seed	RK628VT2P	102	238.6	18.1	57.5	0.7	32100
Farmer Check 2	DKC52-99RIB	102	233.9	17.1	56.5	4.9	32700
Renk Seed	RK60XPWE	101	232.7	18.7	56.1	6.8	32900
Farmer Check 1	DKC51-92RIB	101	208.2	17.4	57.0	16.8	32300
<b>Trial Average</b>			239.7	18.4	56.8	4.0	32500
<b>LSD (0.05)†</b>			9.6	0.6	0.4	-	1100
<b>C.V.‡</b>			2.8	-	-	-	-

\* 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.