



**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 Conventional Corn Hybrid Trial Results South Shore

Jonathan Kleinjan | SDSU Extension Agronomist  
Kevin Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager

<b>Location:</b>	8.5 miles west of South Shore (57263) in Codington County, SD 45.106052°, -97.098736°
<b>Cooperator:</b>	SDSU Northeast Research Farm
<b>Soil Type:</b>	Kranzburg-Brookings silty clay loams, 0-2% slope
<b>Fertilizer:</b>	100 lb/acre 30-10-10 starter + 200-0-100-5Z broadcast preplant
<b>Yield Goal:</b>	200 bu/acre
<b>Previous crop:</b>	soybeans
<b>Tillage:</b>	conventional
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	32,000/acre
<b>Herbicide:</b>	Pre: 1.6 qt/acre Harness Xtra (acetochlor + atrazine) Post: 10 oz/acre Tapout (clethodim) + .125 oz/acre Harmony SG (thifensulfuron)
<b>Date seeded:</b>	4/30/21
<b>Date harvested:</b>	10/26/21

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Table 1. Conventional corn hybrid performance results (average of four replications) 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)
Hi Fidelity Genetics	HFG1002	100	<b>287.8</b>	19.3	56.4	0.3	32400
Peterson Farms Seed	14M00	100	270.6	19.8	55.9	0.7	32000
Check	DKC48-95RIB	98	268.1	20.0	57.0	0.3	31000
Federal Hybrids	5445 CONV	104	265.4	22.5	53.7	0.3	31300
Peterson Farms Seed	19L95	95	265.3	19.5	55.5	0.7	31400
Federal Hybrids	4580 CONV	95	264.0	19.5	56.8	0.0	32400
Viking Seed	52-96	96	260.4	19.1	56.8	0.0	32000
Renk	RK300	90	260.1	18.7	57.0	0.3	30900
Hi Fidelity Genetics	EXP2013	95	259.5	19.4	56.0	0.0	28600
Viking Seed	42-92	92	258.4	17.8	57.0	0.0	32300
Renk	RK433	92	255.3	17.8	56.8	0.3	30800
Federal Hybrids	4185 CONV	91	253.4	18.8	57.0	0.0	31200
Federal Hybrids	4440 CONV	94	250.7	18.3	56.5	0.7	32500
Renk	RK568	95	248.4	18.3	56.8	0.3	30300
Federal Hybrids	4601 CONV	96	209.5	19.8	58.8	0.0	31300
<b>Trial Average</b>			258.5	19.2	56.5	0.3	31400
<b>LSD (0.05)†</b>			8.5	0.6	0.6	-	800
<b>C.V.‡</b>			2.3	2.1	0.8	-	-

\* 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.