



# 2020 South Dakota Conventional Corn Hybrid Trial Results Brookings

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<b>Location:</b>	6.5 miles north of Brookings (57006) in Brookings County, SD (GPS: 44.420341°, -96.788266°)
<b>Cooperator:</b>	SDSU Research Farm - Jack Ingemansen, manager
<b>Soil Type:</b>	Kranzburg-Brookings silty clay loams, 0-2% slope
<b>Fertilizer:</b>	100 lb/acre 30-10-10 starter + 160-40-40-6S 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>	33,500/acre
<b>Herbicide:</b>	Pre: 2.5 pt/acre Volley NXT (acetochlor) Post: none
<b>Date seeded:</b>	4/30/20
<b>Date harvested:</b>	11/7/20

Table 1. Conventional corn hybrid performance results (average of 4 replications) at Brookings, SD.

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	HFG1051	106	<b>262.1</b>	15.3	58.1	0.0	33100
Viking	84-05	105	<b>251.1</b>	14.8	60.1	0.0	32900
Viking	52-00	100	248.4	13.8	59.7	0.0	32300
Hi Fidelity Genetics	HFG0951	95	246.3	13.2	60.0	0.0	31600
Check	DKC49-44RIB	99	238.3	14.4	60.9	0.0	32500
Renk Seed	RK642	102	237.2	14.4	60.2	0.0	29300
Peterson Farms Seed	19L95	95	236.8	12.6	60.1	0.0	31700
Renk Seed	RK568	95	233.3	13.3	61.7	0.0	32400
AgriGold	A629-93	99	228.2	14.5	60.6	0.0	32300
Viking	55-02	102	226.4	15.7	62.2	0.0	30900
Proseed	1996 CONV	96	224.4	13.2	61.7	0.0	29900
Viking	46-02	102	222.8	14.4	60.1	0.0	28200
Hi Fidelity Genetics	HFG1001	100	221.0	16.1	61.0	0.0	29200
<b>Trial Average</b>			237.1	14.3	60.4	0.0	31400
<b>LSD (0.05)†</b>			11.1	0.6	0.8	-	1000
<b>C.V.‡</b>			3.3	3.0	0.9	-	2.2

\* 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.