



**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 Volga

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Location: 1.5 miles south of Volga (57101) in Brookings County, SD
44.298762°, -96.921176°

Cooperator: SDSU Volga Research Farm

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: 90 lb/acre 30-10-10 starter + 180-40-40-8S preplant

Yield Goal: 200 bu/acre

Previous crop: soybeans

Tillage: conventional (vertical till)

Row spacing: 30 inches

Seeding Rate: 32,000/acre

Herbicide: Pre: 2.5 pt/acre Surpass NXT (acetochlor)
Post: none

Date seeded: 4/29/21

Date harvested: 10/15/21

Notes: This trial was negatively impacted by drought conditions.



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Table 1. Conventional corn hybrid performance results (average of four replications) at Volga, 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)
Viking Seed	46-02	102	114.8	15.5	52.7	0.4	29500
Viking Seed	72-06	106	112.1	16.0	51.0	0.3	31100
Check	DKC48-95RIB	98	110.8	15.2	55.3	2.8	30800
Viking Seed	84-05	105	107.6	15.4	53.1	0.3	30700
Federal Hybrids	4185 CONV	91	107.1	14.9	53.1	0.7	31000
Peterson Farms Seed	19L95	95	106.5	15.3	52.8	1.7	31200
Renk	RK642	103	105.8	15.5	52.0	1.7	30500
Renk	RK726	106	104.5	15.9	50.8	2.1	30500
Hi Fidelity Genetics	HFG1071	105	102.3	15.5	53.1	0.7	31900
Renk	RK600	100	101.6	15.0	53.5	1.3	31800
Hi Fidelity Genetics	HFG1002	100	98.4	15.0	53.4	1.7	31800
Peterson Farms Seed	14M00	100	98.2	15.1	54.0	3.7	31600
Renk	RK568	95	97.3	15.2	53.8	0.7	30500
Federal Hybrids	5445 CONV	104	94.5	15.9	51.7	8.6	29600
Federal Hybrids	4440 CONV	94	94.3	15.1	53.6	0.7	31800
Federal Hybrids	4580 CONV	95	92.2	15.1	53.0	0.0	29100
Federal Hybrids	4601 CONV	96	90.5	15.6	57.6	0.3	30500
Viking Seed	52-00	100	90.4	15.5	51.0	1.7	30600
Hi Fidelity Genetics	HFG1051	105	88.2	15.9	50.6	5.1	31000
Trial Average			100.9	15.4	52.9	1.8	30800
LSD (0.05)†			8.3	0.5	0.9	-	1000
C.V.‡			5.8	2.2	1.2	-	-

* 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.