



**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 Conventional Corn Hybrid Trial Results Brookings

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Location: SDSU Campus - Brookings, SD
44..320784°, -96.771318°

Cooperator: South Dakota State University Research Farm

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: 27-9-9 starter + 134-70-50-24S preplant broadcast

Previous crop: winter wheat

Tillage: conventional

Row spacing: 30 inches

Seeding Rate: 32,000/acre

Herbicide: Pre: 2.25 pt/acre Fearless
Post: 3 oz/acre Bellum + 1 pt/acre Atrazine

Date seeded: 6/7/23

Date harvested: 11/4/23

Notes This trial was replanted after it was mistakenly sprayed with Roundup.



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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)
Jacobsen Seed	JS4096	95	199.6	19.7	56.9	15.9	32500
Renk Seed	RK571	96	196.9	20.4	55.3	0.7	32500
Jacobsen Seed	JS4009	91	188.9	19.7	55.7	8.1	32100
Renk Seed	RK600	98	187.5	22.3	55.1	2.0	32700
Jacobsen Seed	JS4095	95	177.0	18.6	57.1	6.2	32700
Jacobsen Seed	JS4040	91	175.2	17.5	56.9	0.6	31000
Jacobsen Seed	JS4107	103	175.1	23.0	54.3	1.9	31900
Ag Performance	AP1053	103	174.8	20.5	56.3	1.6	32900
Ag Performance	AP970	97	174.0	19.7	56.3	3.4	31900
Legacy Seeds	LC-5217	102	173.5	22.3	54.1	3.3	31200
Renk Seed	RK568	95	173.3	19.6	56.5	8.7	32500
Viking Seed	46-02	102	170.1	23.4	53.7	10.6	30800
Jacobsen Seed	JS0593	93	165.9	22.1	53.8	13.2	32700
Viking Seed	84-05	105	165.1	22.5	54.8	0.4	31400
Legacy Seeds	LC525-21	102	157.6	23.2	53.9	6.1	33100
Viking Seed	49M23	103	153.4	21.5	54.1	11.6	32500
Viking Seed	72-06	106	152.2	22.8	53.6	0.3	32500
Jacobsen Seed	JS4046	104	136.9	21.9	54.2	6.8	32100
Check	DKC48-95RIB	98	118.8	19.8	57.3	0.0	32700
Trial Average			169.3	21.1	55.2	5.4	32200
LSD (0.05)†			23.6	1.6	1.2	-	1800
C.V.‡			9.8	-	-	-	-

* 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.