



**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 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: 32 oz/acre Roundup Ultra (glyphosate)

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. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (100 day maturity or less) 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)
Dairyland Seed	DS-3959AM	99	123.5	15.3	53.0	1.0	30400
Federal Hybrids	4185 VT2P RIB	91	121.0	15.0	53.2	1.0	31300
Hoegemeyer	HPT 7027 AM	100	120.0	15.5	53.3	0.8	28700
Check	DKC 48-95 RIB	98	119.4	15.0	56.4	1.1	29200
Dairyland Seed	DS-3727AM	97	116.1	14.9	55.4	1.0	30200
Federal Hybrids	4520 DGVT2P	95	115.0	15.2	55.8	1.6	31900
Federal Hybrids	4300 VT2P RIB	93	114.4	14.9	54.2	0.0	31100
Farmer Check	P9492AM	94	114.3	15.1	52.6	1.1	30000
Renk	RK579DGVT2P	99	112.3	15.1	54.1	0.3	31600
Federal Hybrids	4820 VT2P	98	112.1	15.1	54.5	2.2	28800
Federal Hybrids	4990 VT2P RIB	99	112.0	15.2	54.6	0.0	30900
Dairyland Seed	DS-4014Q	100	110.4	16.4	53.3	0.0	29600
Thunder Seed	T6298 VT2P	98	109.4	15.2	54.7	1.0	31400
Renk	RK600VT2P	100	108.0	15.2	53.9	7.0	30900
Federal Hybrids	4220 VT2P RIB	92	107.7	15.3	53.8	0.4	29600
Channel	195-85DGVT2PRIB	95	107.6	15.4	52.6	5.2	30500
Channel	199-60TRERIB	99	107.4	15.4	52.7	0.7	31800
Peterson Farms Seed	72D00	100	107.2	15.7	52.7	0.0	29100
Federal Hybrids	4999 VT2P RIB	99	105.9	15.3	53.7	4.7	31700
BH Genetics	BH 6218VT2PRIB	92	103.0	15.4	53.1	0.0	31400
Thunder Seed	T6999 VT2P	99	101.4	15.1	53.6	5.7	30100
Federal Hybrids	5000 VT2P RIB	100	100.8	15.1	52.6	1.3	30900
Federal Hybrids	4770 VT2P RIB	97	100.7	15.6	52.9	0.0	31000
Federal Hybrids	4580 VT2P RIB	95	100.7	15.2	54.2	0.7	31200
Thunder Seed	T6996 VT2P	96	99.9	15.3	53.6	0.3	30700
Federal Hybrids	4680 VT2P RIB	96	99.8	15.5	53.3	0.4	29900
Federal Hybrids	4720 VT2P	97	96.4	15.5	52.3	0.7	31100
Thunder Seed	T6100 VT2P	100	93.9	15.4	53.6	4.3	31700
Peterson Farms Seed	78P98	98	91.3	15.6	53.9	0.7	30700
Trial Average			108.0	15.3	53.7	1.5	30600
LSD (0.05)†			14.8	0.4	0.9	-	1200
C.V.‡			9.8	1.7	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.



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Table 2. Glyphosate-resistant corn hybrid performance results (average of four replications - **Late Season Trial** (101 day maturity or more) 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)
Farmer Check	P0306Q	103	124.5	15.7	56.0	3.4	30900
Hoegemeyer	HPT 7402 AM	104	124.3	17.0	56.5	0.3	30600
Hoegemeyer	HPT 7209 AM	102	120.5	15.3	54.3	0.0	31300
Farmer Check	DKC54-38RIB	104	119.9	16.3	55.9	0.4	29200
Dairyland Seed	DS-4310AM	103	118.0	17.0	56.3	1.0	30900
Dairyland Seed	DS-4510Q	105	117.6	15.5	56.3	1.4	30900
Check	DKC48-95RIB	98	115.0	15.1	55.8	1.1	30200
Thunder Seed	T6004 VT2P	104	114.4	15.5	52.9	0.7	30000
Thunder Seed	T6902 VT2P	102	109.8	15.4	52.0	1.1	28200
Peterson Farms Seeds	73P01	101	108.8	15.3	54.1	1.0	30600
Thunder Seed	T6204 VT2P	104	102.1	17.8	53.9	1.0	31100
Renk	RK625DGVT2P	104	99.1	15.4	51.3	7.8	31400
Trial Average			114.5	15.9	54.6	1.6	30400
LSD (0.05)†			13.4	0.8	1.0	-	800
C.V.‡			7.9	3.4	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.