



**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 Bath

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

Location: 4 1/2 miles south and 1 mile east of Bath (57427) in Brown County, SD
45.392805°, -98.305594°

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes

Fertilizer: 100 lb/acre 30-10-10 starter + 141-0-0-12S broadcast preplant

Yield Goal: 200 bu/acre

Previous crop: soybeans

Tillage: no-till

Row spacing: 30 inches

Seeding Rate: 32,000/acre

Herbicide: Pre: none
Post: 32 oz/acre Roundup PowerMax (glyphosate)

Date seeded: 5/4/21

Date harvested: 10/29/21

Notes: This location was impacted by a hail event on 8/28/21. In addition, strong winds caused 100% lodging on 10/13/21, two weeks prior to harvest.



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Table 1. Glyphosate-resistant corn hybrid performance results (average of four replications - **Early Season Trial** (95 day maturity or less) at Bath, 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)
Federal Hybrids	4470 VT2P RIB	94	202.4	16.7	56.3	100.0	32500
Proseed	1794 VT2P	94	200.1	16.4	55.8	100.0	32500
Dahlman Seed	R47-24VT2PRIB	94	195.0	16.4	57.4	100.0	32300
Dahlman Seed	R46-313SSRIB	94	194.0	15.5	57.9	100.0	32900
Federal Hybrids	4190 VT2P RIB	91	192.8	16.0	56.5	100.0	31700
Renk	RK485DGVT2P	94	190.6	16.2	55.5	100.0	32500
Channel	195-85DGVT2PRIB	95	190.5	16.1	58.2	100.0	32300
Dairyland Seed	DS-3193AM	91	189.2	15.7	57.3	100.0	32700
Check	DKC48-95RIB	98	188.7	15.8	58.2	100.0	32300
Peterson Farms Seed	72Q94	94	188.6	16.0	56.1	100.0	31700
Federal Hybrids	4440 VT2P RIB	94	188.0	16.1	56.5	100.0	32500
Federal Hybrids	4130 VT2P RIB	91	187.9	16.1	56.7	100.0	31400
Farmer Check	P9211AM	92	186.5	15.8	56.9	100.0	32300
Farmer Check	DKC45-66RIB	95	184.7	16.4	56.8	100.0	33100
Peterson Farms Seed	76S92	91	184.7	16.0	55.9	100.0	30800
Dahlman Seed	R48-28VT2PRIB	95	184.5	15.9	57.4	100.0	31400
Thunder Seed	T6190 VT2P	90	184.4	16.1	55.3	100.0	31200
Thunder Seed	T6595 VT2P	95	184.0	16.3	54.9	100.0	29500
Peterson Farms Seed	78G95	95	182.8	16.0	55.8	100.0	31900
Dahlman Seed	R45-25VT2PRIB	90	182.7	15.8	58.0	100.0	30400
Federal Hybrids	4160 VT2P RIB	91	182.6	16.6	56.6	100.0	33100
Federal Hybrids	4520 DGVT2P	95	182.1	16.0	56.3	100.0	32100
Peterson Farms Seed	73K90	90	181.5	16.2	56.0	100.0	31400
Thunder Seed	T6294 VT2P	94	178.3	15.9	55.2	100.0	33100
Dairyland Seed	DS-3550AM	95	176.2	16.9	57.2	100.0	32300
Federal Hybrids	4185 VT2P RIB	91	174.5	16.0	56.6	100.0	32300
Federal Hybrids	4580 VT2P RIB	95	171.1	15.7	56.1	100.0	32500
Dairyland Seed	DS-3162Q	91	168.9	15.9	57.4	100.0	32500
BH Genetics	BH 6218VT2PRIB	92	168.0	16.9	58.7	100.0	31400
Thunder Seed	T6791 VT2P	91	162.0	15.7	53.7	100.0	32500
Federal Hybrids	4220 VT2P RIB	92	156.6	16.2	56.5	100.0	32300
Trial Average			183.3	16.1	56.6	100.0	32000
LSD (0.05)†			11.7	0.6	0.7	-	1100
C.V.‡			4.5	2.6	0.9	-	-

* 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** (96 day maturity or more) at Bath, 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)
Channel	199-60TRERIB	99	206.7	15.5	56.4	100.0	31200
Renk	RK579DGVT2P	99	202.8	16.1	56.8	100.0	31200
Dairyland Seed	DS-4014Q	100	202.8	15.8	55.5	100.0	31900
Thunder Seed	T6298 VT2P	98	201.0	15.8	56.8	100.0	31900
Farmer Check	P9880AM	98	200.6	16.0	56.5	100.0	31000
Federal Hybrids	4770 VT2P RIB	97	195.5	15.7	56.8	100.0	31400
Thunder Seed	T6999 VT2P	99	193.8	15.5	57.5	100.0	30600
Dahlman Seed	R49-23VT2PRIB	98	193.3	15.5	57.2	100.0	31400
Dairyland Seed	DS-3959AM	99	191.6	15.7	55.9	100.0	31900
Check	DKC48-95RIB	98	191.2	15.5	57.7	100.0	31200
Dairyland Seed	DS-3727AM	97	190.3	15.5	57.3	100.0	32700
Thunder Seed	T6100 VT2P	100	188.6	15.9	57.2	100.0	32500
Dahlman Seed	R49-25VT2PRIB	98	188.3	15.4	57.5	100.0	31700
Federal Hybrids	4720 VT2P	97	186.7	15.6	55.9	100.0	32100
Proseed	2196 VT2P	96	186.3	15.6	56.2	100.0	32700
Renk	RK561DGVT2P	96	184.2	15.7	57.2	100.0	31200
Thunder Seed	T6996 VT2P	96	182.6	15.6	57.8	100.0	33100
Dahlman Seed	R49-29VT2PRIB	98	179.7	15.7	56.0	100.0	32900
Federal Hybrids	4680 VT2P RIB	96	174.2	15.9	56.9	100.0	31400
Farmer Check	75T99	99	161.4	16.3	55.9	100.0	31400
Dahlman Seed	R49-340SSRIB	98	156.9	16.1	57.3	100.0	32900
Peterson Farms Seed	78P98	98	151.8	16.0	55.9	100.0	29300
Trial Average			186.8	15.7	56.7	100.0	31700
LSD (0.05)†			12.3	0.5	0.8	-	1100
C.V.‡			4.7	2.3	1.0	-	-

* 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.