



**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 Selby

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Location: 2 1/2 miles south and 1 mile east of Selby (57472) in Walworth County, SD
45.463510°, -100.014810°

Cooperator: Tom Fiedler

Soil Type: Highmore-Eakin silt loams, cool, 2-6% slopes

Fertilizer: 100 lb/acre 30-10-10 starter + 171-39-0-24S broadcast preplant

Yield Goal: 200 bu/acre

Previous crop: soybeans

Tillage: no-till

Row spacing: 30 inches

Seeding Rate: 32,000/acre

Herbicide: Pre: 48 oz/acre Harness Max (acetochlor + mesotrione)
Post: 24 oz/acre glyphosate

Date seeded: 5/13/21

Date harvested: 10/25/21

Notes: The early trial at this location had higher than normal variability due to lodging caused by stalk cannibalization. Please note the lodging scores when interpreting the trial results.



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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 Selby, 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)
Thunder Seed	T6595 VT2P	95	179.6	19.0	58.2	13.5	29200
Federal Hybrids	4185 VT2P RIB	91	176.1	18.9	56.9	11.4	30900
BH Genetics	BH6218VT2PRIB	92	169.3	20.8	56.4	0.7	32000
Federal Hybrids	4190 VT2P RIB	91	162.9	18.6	57.9	33.4	32100
Federal Hybrids	4470 VT2P RIB	94	162.0	18.4	56.6	36.8	30900
Dahlman Seed	R47-24VT2PRIB	94	161.8	18.7	56.7	14.5	31000
Dahlman Seed	R46-313SSRIB	94	153.9	17.9	58.7	11.4	30100
Dahlman Seed	R43-29VT2PRIB	86	149.2	16.9	59.7	12.5	29500
Federal Hybrids	4520 DGVT2P	95	148.9	20.9	56.7	2.7	32300
Federal Hybrids	4580 VT2P RIB	95	146.0	19.7	57.5	5.0	31400
Farmer Check	DKC37-49RIB	87	144.9	16.3	56.4	41.3	30700
Federal Hybrids	4440 VT2P RIB	94	141.0	19.4	57.8	12.9	32000
Thunder Seed	T6190 VT2P	90	140.3	16.9	53.7	39.2	30600
Proseed	1794 VT2P	94	139.3	19.3	56.8	8.1	31300
Channel	195-85DGVT2PRIB	95	139.2	21.1	56.3	3.2	30800
Dahlman Seed	R43-24VT2PRIB	86	137.5	17.6	56.7	37.3	32100
Check	DCK48-95RIB	98	137.5	18.9	58.8	15.7	30200
Thunder Seed	T6294 VT2P	94	137.4	20.7	57.2	2.0	30700
Federal Hybrids	4220 VT2P RIB	92	132.5	17.6	58.7	53.7	30700
Thunder Seed	T6791 VT2P	91	127.5	18.2	58.5	14.6	31100
Federal Hybrids	4160 VT2P RIB	91	122.9	17.8	57.6	46.1	30800
Federal Hybrids	4130 VT2P RIB	91	122.5	17.5	56.6	61.4	31300
Renk	RK485DGVT2P	94	115.6	19.9	58.2	5.7	31800
Dahlman Seed	R42-28VT2PRIB	84	112.9	16.8	58.6	31.5	28300
Dahlman Seed	R45-25VT2PRIB	90	103.5	17.0	52.8	63.2	30500
Trial Average			142.6	18.6	57.2	23.1	30900
LSD (0.05)†			22.4	1.3	1.3	-	2200
C.V.‡			11.2	5.1	1.6	-	-

* 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 Selby, 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)
Renk	RK579DGVT2P	99	190.2	22.4	55.0	0.3	31300
Thunder Seed	T6298 VT2P	98	188.9	23.0	53.8	0.7	30600
Dairyland Seed	DS-4510Q	105	181.7	26.0	52.6	2.0	32000
Dairyland Seed	DS-4917AM	109	180.8	26.0	53.9	0.0	28000
Channel	199-60TRERIB	99	177.3	23.0	53.9	2.7	31600
Dairyland Seed	DS-3959AM	99	176.3	23.2	53.7	1.4	31300
Farmer Check	DKC45-66	95	175.5	19.2	56.8	2.3	32300
Dairyland Seed	DS-4018AM	101	171.7	22.2	55.3	2.4	31200
Proseed	2196 VT2P	96	171.3	20.5	55.0	10.2	31400
Check	DKC48-95RIB	98	163.1	20.2	57.5	4.8	30500
Renk	RK561DGVT2P	96	162.3	23.3	54.3	0.3	30700
Thunder Seed	T6996 VT2P	96	150.2	21.6	55.6	0.3	31800
Dairyland Seed	DS-3727AM	97	149.2	22.6	56.0	11.4	31400
Dairyland Seed	DS-4329AM	105	137.6	28.4	51.4	0.0	30100
Trial Average			170	22.8	54.7	2.6	31100
LSD (0.05)†			23.6	2.3	1.7	-	1400
C.V.‡			9.7	6.9	2.1	-	-

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.
† Yield or moisture value required (≥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.