

**Jonathan Kleinjan** | SDSU Extension Crop Production Associate  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: 45.106810, -97.100162)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 150-0-50-25S preplant incorporated; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1 qt Dual II (metolachlor)  
Post: 1 qt Roundup PowerMax (glyphosate)

Date seeded: 5/3/2017

Date harvested: 11/13/2017

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	6794 VT2P	94	255.5	20.2	56.8	0.0	28600
Federal Hybrids	4185 VT2P RIB	91	251.8	20.3	58.7	0.0	28100
Federal Hybrids	4580 VT2P RIB	95	251.7	21.0	57.9	0.0	28100
Federal Hybrids	4560 SSTAX RIB	95	251.5	18.9	58.2	0.0	28300
Check	CHECK	97	249.8	21.1	56.5	3.4	28600
Renk	RK433RR	92	248.9	19.4	57.5	0.0	28500
Proseed	PX694 VT2P	94	248.4	20.4	57.3	0.0	29300
Proseed	1591 VT2P	91	246.7	19.8	56.9	0.7	29500
Renk	RK566SSTX	94	246.3	19.1	57.9	0.0	28100
Peterson Farms Seed	77P94	94	245.9	20.6	56.0	0.0	27700
Thunder Seed	4695 RR	95	245.3	21.1	57.2	0.0	28900
Peterson Farms Seed	72A91	91	245.3	20.1	57.5	0.4	28400
Federal Hybrids	4160 VT2P RIB	91	243.6	19.5	57.6	0.8	28600
Federal Hybrids	4470 VT2P RIB	94	241.8	20.7	55.7	0.4	27900
Titan Pro	TP 58-95 SS	95	241.3	19.0	58.6	0.0	28600
Wensman	W80931VT2RIB	93	239.1	17.9	57.6	1.9	29300
Federal Hybrids	4180 VT2P	91	238.8	18.5	57.8	0.0	28100
Channel	193-53STXRIB	93	238.5	19.2	55.7	0.0	28600
Federal Hybrids	4560 VT2P RIB	95	237.8	19.5	58.3	0.0	28000
Dairyland Seed	DS-9090SSX	90	235.1	18.8	56.3	0.0	28700
Thunder Seed	4791 RR	91	234.6	19.5	57.5	0.0	28000
Dairyland Seed	DS-6091	91	234.3	19.6	58.5	3.9	27700
Renk	RK522SSTX	94	233.5	20.4	55.4	0.0	28000
Dairyland Seed	DS-7294	94	233.1	19.3	58.3	0.0	27100
Thunder Seed	7793 SS	93	232.5	19.1	59.4	0.0	28300
Peterson Farms Seed	81W95	95	231.9	20.4	57.0	0.0	28400
Peterson Farms Seed	76S92	92	231.2	19.5	58.2	0.0	28100
Federal Hybrids	4558 SSTAX RIB	95	229.0	20.9	56.5	0.0	27600
Thunder Seed	7993 VT2P	93	228.9	19.9	58.1	0.0	28300
Rob-See-Co	IC4521-3110	95	228.8	19.4	57.6	0.0	27400
<b>Trial Average</b>			235.4	19.9	57.4	0.5	27800
<b>LSD (0.05)†</b>			11.1	0.8	1.0	1.0	1100
<b>C.V.‡</b>			3.4	3.0	1.2	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† 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.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Thunder Seed	6791 VT2P	91	228.2	19.8	58.4	0.4	26600
Nutech/G2 Genetics	5G-293	93	227.2	18.8	58.1	0.4	27300
Wensman	W80947VT2RIB	94	226.9	20.8	57.1	0.0	28400
Titan Pro	TP 73-91 2P	91	226.6	20.5	57.2	0.0	27000
Channel	195-18VT2PRIB	95	226.4	22.6	57.8	0.4	28200
Rob-See-Co	IC4016-3010	90	225.4	18.0	57.8	0.4	25700
Masters Choice	SP1927	95	225.3	21.7	55.9	3.8	25900
Rob-See-Co	IC4453-3110	94	221.4	18.9	58.5	0.8	25600
Proseed	1395 VT2P	95	221.2	21.5	56.8	0.4	26500
Rob-See-Co	RC4343-3110A	93	218.9	19.1	58.0	0.5	24000
Thunder Seed	4795 DP VT2P	95	218.0	18.0	55.7	0.8	28200
Renk	RK568VT3P	95	200.6	21.6	56.5	0.0	23200
<b>Trial Average</b>			235.4	19.9	57.4	0.5	27800
<b>LSD (0.05)†</b>			11.1	0.8	1.0	1.0	1100
<b>C.V.‡</b>			3.4	3.0	1.2	-	2.9

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

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Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Channel	201-28VT2PRIB	101	<b>265.3</b>	22.3	55.8	0.4	26800
Channel	197-50STXRIB	97	<b>265.2</b>	21.3	55.5	0.4	29100
Wensman	W80965VT2RIB	96	<b>262.5</b>	20.6	57.1	0.4	28900
Channel	201-05VT2PRIB	101	<b>258.1</b>	22.7	54.7	0.4	25900
Wensman	W90994STXRIB	99	<b>256.9</b>	21.2	55.8	0.4	28900
Wensman	W9288STXRIB	98	<b>255.3</b>	22.3	55.7	1.5	28500
Dairyland Seed	DS-9701RA	101	<b>254.8</b>	23.6	53.6	0.8	28100
Nutech/G2 Genetics	5F-196	96	<b>254.8</b>	21.0	54.4	0.0	27100
Rob-See-Co	IC4772-3111	97	<b>254.7</b>	19.7	57.0	0.0	29400
Hoegemeyer	HPT 6620 AM	96	<b>253.8</b>	20.3	54.6	1.6	27700
Check	CHECK	97	<b>253.2</b>	21.0	56.8	2.2	29200
Titan Pro	TP 65-00 2P	100	252.7	23.2	56.1	0.0	27100
Peterson Farms Seed	75S96	96	252.3	20.8	57.7	0.0	29600
Federal Hybrids	4880 VT2P RIB	98	252.2	20.9	56.0	0.0	26800
Thunder Seed	4600 RR	100	252.1	21.9	56.2	1.1	28600
Thunder Seed	7603 SS	103	252.1	20.5	57.5	1.5	28400
Thunder Seed	6798 VT2P	98	251.4	20.1	56.1	0.4	28900
Federal Hybrids	4760 VT2P RIB	97	250.7	19.4	57.5	0.0	28200
Renk	RK595SSTX	99	249.9	19.1	57.4	0.0	29200
Federal Hybrids	5180 SSTAX RIB	101	249.8	22.1	56.7	0.0	27300
Federal Hybrids	4680 VT2P	96	249.2	21.0	56.1	0.0	28600
Thunder Seed	7396 VT2P	96	248.6	18.7	56.0	0.0	28700
Renk	RK608DGV2P	100	248.6	23.0	54.1	0.0	27800
Hoegemeyer	HPT 7166 AM	101	248.1	22.2	58.0	1.2	27400
Wensman	W80993VT2RIB	99	247.9	23.9	54.7	0.4	27900
Federal Hybrids	4770 VT2P RIB	97	247.8	22.8	55.4	0.0	28400
Federal Hybrids	4760 SSTAX RIB	97	246.7	20.1	54.8	0.8	28000
Wensman	W80972VT2RIB	97	244.8	21.6	53.8	0.4	28600
Nutech/G2 Genetics	5F-701	101	244.1	22.0	56.7	0.0	27100
Peterson Farms Seed	78B98	98	242.5	21.7	55.9	0.8	27600
<b>Trial Average</b>			245.9	21.5	55.5	0.7	27600
<b>LSD (0.05)†</b>			12.4	1.0	1.0	1.2	1000
<b>C.V.‡</b>			3.6	3.2	1.3	-	2.6

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Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Nutech/G2 Genetics	5F-601	101	241.5	22.7	54.8	3.2	26900
Federal Hybrids	5060 SSTAX RIB	100	240.3	22.6	56.8	0.8	27700
Rob-See-Co	RC4915-3120	99	239.5	22.7	50.1	0.4	26700
Proseed	1399 3000GT	99	239.4	22.3	54.7	0.0	25000
Wensman	W90979STXRIB	97	236.5	19.6	56.0	0.0	25900
Hoegemeyer	HPT 6695 AM	96	235.5	21.2	55.3	0.0	25500
Dairyland Seed	DS-9802RA	102	233.6	23.2	52.8	0.0	26700
Hoegemeyer	HPT 7088 AM	100	233.4	21.7	56.3	0.8	27700
Federal Hybrids	4880 SSTAX RIB	98	233.3	21.4	55.5	0.0	25200
Nutech/G2 Genetics	5FN-7099	99	229.6	23.4	52.9	0.4	26600
Hoegemeyer	HPT 6075 AMX	100	226.8	17.9	55.7	0.4	28200
Hoegemeyer	HPT 6813 AM	98	224.5	23.0	52.3	2.8	26900
Renk	RK675DGV2P	103	219.6	22.6	55.3	2.1	26100
Nutech/G2 Genetics	5FN-5096	96	219.5	22.9	55.4	3.4	26000
<b>Trial Average</b>			245.9	21.5	55.5	0.7	27600
<b>LSD (0.05)†</b>			12.4	1.0	1.0	1.2	1000
<b>C.V.‡</b>			3.6	3.2	1.3	-	2.6

\* Lodging percentage - stalks broken below the ear as a percentage of final stand.

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