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**Location:** 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: 43.053103, -96.889990)

**Cooperator:** SDSU Southeast Research Farm - Peter Sexton, manager

**Soil Type:** Egan-Trent silty clay loams, 0-2% slope, non-irrigated

**Fertilizer:** 144-0-0-20S preplant; 30-10-10 starter

**Yield Goal:** 200 bu/acre

**Previous crop:** Soybeans

**Tillage:** No-till

**Row spacing:** 30 inches

**Seeding Rate:** 31,400/acre

**Herbicide:** Pre: 32 oz Roundup (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Sencor (metribuzin) + 4 gal UAN  
Post: 12 oz Atrazine + 3 oz Callisto (mesotrione) + 1% V/V + UAN 2.5% V/V

**Date seeded:** 5/16/2017

**Date harvested:** 11/3/2017

**Soil conditions:** This location was very wet during and shortly after planting. Please pay special attention to the harvest population when evaluating hybrid performance.

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, 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	207-27STXRIB	107	<b>226.2</b>	20.7	59.8	0.4	27600
Nutech/G2 Genetics	5F-504	104	<b>223.3</b>	18.3	60.1	10.1	28200
Heine Seeds	823VT2PRO	107	<b>216.9</b>	22.7	53.0	2.3	28200
Dyna-Gro	D39DC43	99	<b>215.0</b>	16.3	58.8	2.4	28000
Great Lakes Hybrids	5556VT2RIB	105	<b>212.2</b>	17.4	59.0	1.2	26900
Check	CHECK	97	<b>210.9</b>	16.2	59.9	3.5	28200
Great Lakes Hybrids	5470STXRIB	104	<b>209.3</b>	17.4	59.9	5.4	28200
Wensman	W81041VT2RIB	104	<b>209.3</b>	17.3	60.8	3.6	26800
Dyna-Gro	D44VC36VT2P	104	<b>208.6</b>	17.1	59.3	2.1	26600
Wensman	W81069VT2RIB	106	<b>206.5</b>	17.9	60.1	1.3	25900
Heine Seeds	754STXRIB	105	204.9	16.8	60.3	3.6	27100
Thunder Seed	4695 RR	95	204.7	14.9	59.7	6.0	27000
Nutech/G2 Genetics	5D-906	106	204.6	19.3	60.1	3.2	23800
Channel	203-01STXRIB	103	204.1	16.9	57.9	0.4	26700
Channel	204-74VT2PRIB	104	203.5	17.1	59.1	3.1	24600
Masters Choice	MCT5661	106	203.3	18.7	57.7	1.8	28600
Nutech/G2 Genetics	5VN-4707	107	203.1	17.8	57.9	0.4	26700
Thunder Seed	4600 RR	100	203.0	16.5	60.0	9.4	25000
Titan Pro	TP 77-06 SS	106	202.2	18.0	58.3	1.0	22500
Renk	RK717SSTX	105	202.0	16.7	61.0	0.4	26800
Great Lakes Hybrids	5283STXRIB	102	201.0	17.5	59.0	0.0	27000
Wensman	W81058VT2RIB	105	200.6	17.9	61.7	3.4	25200
Hoegemeyer	7557 AM	105	199.2	17.5	60.3	5.8	26400
Heine Seeds	790VT2PRORIB	107	199.2	18.1	59.4	0.8	28200
Channel	205-19STXRIB	105	196.7	17.4	58.4	0.4	24900
Great Lakes Hybrids	5755STXRIB	107	196.3	19.0	57.8	0.5	23600
Thunder Seed	6794 VT2P	94	195.6	14.6	58.7	6.8	26800
Hoegemeyer	7088 AM	100	194.9	17.0	59.9	3.4	25500
Thunder Seed	7396 VT2P	96	193.2	13.2	58.5	6.8	27300
Hoegemeyer	7224 AM	102	192.0	17.5	60.6	1.9	29000
<b>Trial Average</b>			197.9	17.3	59.4	2.4	25700
<b>LSD (0.05)†</b>			21.0	0.9	1.0	3.7	1600
<b>C.V.‡</b>			7.6	3.5	1.2	-	4.4

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

† 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.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (107 day maturity or less)** at Beresford, SD.

Variety 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-6106	106	191.9	17.7	60.7	0.4	26500
Great Lakes Hybrids	5626VT2PRO	106	191.8	18.2	62.0	1.4	23100
Miller Hybrids	RX215VT2P	107	189.0	19.3	58.2	1.5	21700
Thunder Seed	6798 VT2P	98	186.8	15.0	59.9	0.7	28100
Thunder Seed	7993 VT2P	93	186.0	14.5	59.9	1.2	26500
Heine Seeds	821VT2PRORIB	107	185.6	20.5	58.4	3.5	22900
Wensman	W91025STXRIB	102	184.5	14.9	60.8	1.8	24500
Thunder Seed	7793 SS	93	183.8	15.0	59.6	0.4	24200
Renk	RK776SSTX	107	182.3	20.6	59.2	0.0	22100
Nutech/G2 Genetics	X5FN-0306	103	180.7	17.2	60.9	0.8	27600
Thunder Seed	7603 SS	103	180.4	16.3	60.0	0.8	25400
Nutech/G2 Genetics	X5FN-0308	103	177.8	17.3	60.7	1.0	22100
Hoegemeyer	7333 AMXT	103	176.7	16.9	59.0	0.0	20300
Masters Choice	MCT5371	103	175.6	16.9	60.4	0.5	18800
Dairyland Seed	DS-9804SSX	104	168.9	17.8	59.0	1.4	23200
<b>Trial Average</b>			197.9	17.3	59.4	2.4	25700
<b>LSD (0.05)†</b>			21.0	0.9	1.0	3.7	1600
<b>C.V.‡</b>			7.6	3.5	1.2	-	4.4

\* Lodging percentage - stalks broken below the ear as a percentage of the 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 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late Season Trial (108 day maturity or more) at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	8066 AM	110	<b>211.3</b>	20.2	58.6	5.6	25500
Nutech/G2 Genetics	5F-510	110	<b>210.5</b>	20.0	61.2	0.9	24900
Renk	RK871VT2P	111	<b>208.0</b>	21.3	57.1	1.1	28400
Miller Hybrids	RX13-11VT2P	113	<b>200.2</b>	19.7	59.8	1.9	24100
Titan Pro	TP 71-12 SS	112	<b>200.2</b>	22.3	57.4	0.4	27400
Great Lakes Hybrids	5910VT2PRO	109	<b>199.4</b>	20.1	57.7	1.0	21500
Channel	208-23STXRIB	108	<b>199.4</b>	20.9	58.9	0.0	25200
Channel	210-26STXRIB	110	<b>197.6</b>	22.1	56.7	0.0	26400
Miller Hybrids	M66-23G	110	<b>197.3</b>	21.3	54.7	0.0	18300
Check	CHECK	97	<b>197.3</b>	16.6	60.0	1.3	25700
Great Lakes Hybrids	6224STX	112	<b>196.4</b>	22.6	57.0	1.8	24800
Hoegemeyer	7946 AM	109	<b>195.7</b>	19.5	59.1	1.8	23600
Heine	852VT2PRORIB	112	<b>192.2</b>	24.8	58.0	1.0	25700
Wensman	W91095STXRIB	109	<b>190.0</b>	19.6	59.9	1.1	19800
Channel	213-19STXRIB	113	<b>188.6</b>	21.5	59.8	0.0	26100
Nutech/G2 Genetics	5F-308	108	186.8	20.0	59.8	0.5	22300
Titan Pro	TP 66-10 SS	110	186.1	21.5	57.6	0.5	20700
Great Lakes Hybrids	6462STXRIB	114	184.0	24.1	57.5	0.0	23200
Dairyland Seed	DS-9508RA	108	183.1	20.2	54.4	0.4	27900
Channel	209-53STXRIB	109	182.4	21.2	56.7	0.0	27300
Heine	837DGVT2PRO	111	182.1	21.7	58.0	3.5	28400
Nutech/G2 Genetics	5F-709	109	181.3	21.0	58.1	3.0	20800
Great Lakes Hybrids	6401STXRIB	114	176.1	22.6	58.2	0.0	26100
Renk	RK810SSTX	110	174.5	22.8	56.1	0.4	24100
Heine	863STX	112	174.0	24.4	57.3	0.0	26500
Channel	209-15VT2P	109	173.4	20.0	57.5	0.0	19700
Heine	856STXRIB	112	172.9	22.2	59.2	2.0	26900
Great Lakes Hybrids	6369VT2RIB	113	172.0	22.4	57.3	1.4	24000
Miller Hybrids	RX436VT2P	110	164.9	22.7	56.3	1.1	18900
Great Lakes Hybrids	5935STX	109	164.3	21.0	57.6	2.6	20300
Dyna-Gro	D50VC30VT2P	110	160.8	19.2	58.1	0.8	26000
Titan Pro	TP 59-08 SS	108	152.1	19.5	59.4	0.0	23100
Renk	RK792SSTX	108	145.6	19.1	59.0	0.0	24300
Renk	RK815SSTX	111	139.8	21.4	56.6	1.4	24200
<b>Trial Average</b>			183.8	21.0	58.0	1.1	24200
<b>LSD (0.05)†</b>			24.2	1.0	1.1	2.5	1800
<b>C.V.‡</b>			9.4	3.6	1.3	-	5.7

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