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Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: N 43°02.783' W 096°54.125')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty complex, 0-2% slope, non-irrigated

Fertilizer: 132-78-90 preplant; 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: Roundup (glyphosate) +Dual (metolachlor) +Metribuzin (metribuzin) +  
Sharpen (saflufenacil)  
Post: Atrazine (atrazine) + Callisto (mesotrione)

Date seeded: 5/12/2015

Date harvested: 10/29/2015

Table 1. 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)
Nutech/G2 Genetics	5Z-906	106	<b>254.8</b>	17.2	61.8	2.7	28000
Channel	207-27STXRIB	107	<b>254.2</b>	17.1	60.2	0.7	29800
Rea Hybrids	6A071-RIB	107	<b>245.0</b>	15.8	61.0	1.5	29200
Great Lakes Hybrids	5688STXRIB	106	<b>244.7</b>	16.7	60.9	3.8	29200
Great Lakes Hybrids	5755STXRIB	107	<b>244.6</b>	16.7	61.4	0.0	29000
Titan Pro	TP 56-06 3110	106	<b>244.0</b>	17.2	61.0	3.0	29100
Pioneer	P0589AM	105	<b>242.2</b>	15.5	60.7	0.4	29200
Renk Seed	RK712SSTX	106	<b>242.0</b>	16.0	61.9	2.7	28200
Nutech/G2 Genetics	5Z-504	104	239.9	16.0	61.4	5.2	27100
Renk Seed	RK776SSTX	107	239.6	17.8	62.0	2.3	28200
Pioneer	P0760AMXT	107	238.0	16.6	62.8	1.2	28200
Titan Pro	TP 39-05 SS	105	235.9	15.8	61.4	2.7	27800
Wensman	W91073STXRIB	107	232.6	16.7	60.8	2.4	27200
Nutech/G2 Genetics	5X-905	105	232.1	15.7	60.0	1.5	29300
Rea Hybrids	6A032-RIB	103	231.5	16.0	61.0	4.0	27700
Channel	205-19STXRIB	105	228.3	15.2	59.9	4.4	27400
Wensman	W9325STXRIB	102	226.5	14.8	60.6	1.5	29500
Rea Hybrids	6A050-RIB	105	225.9	15.7	60.7	0.4	27800
Wensman	W91051STXRIB	105	225.9	16.3	62.6	0.4	28400
Masters Choice	MCT 5661	103	225.0	16.2	59.1	2.1	25600
Masters Choice	MCT 527GT	105	224.8	15.9	60.2	5.9	27700
Check	Check	99	224.6	15.2	61.8	3.8	29000
Rea Hybrids	6A062-RIB	106	223.2	15.7	59.7	6.1	28500
Channel	206-55STXRIB	106	221.9	15.5	61.2	2.0	27400
Thunder Seed	4600 RR	100	219.8	14.6	59.9	7.2	28900
Masters Choice	MCT 5371	103	219.6	15.7	59.1	2.1	26500
Great Lakes Hybrids	5283STXRIB	102	218.3	15.5	61.4	0.8	26900
Nutech/G2 Genetics	5X-806	106	217.4	16.0	61.0	0.0	28900
Great Lakes Hybrids	5470STXRIB	104	215.4	15.9	61.9	2.0	27200
Thunder Seed	6600 VT2RIB	100	212.4	14.4	59.8	0.0	25900
Thunder Seed	7603 GENSSRIB	103	207.6	15.0	60.3	0.4	26700
<b>Trial Average</b>			230.6	15.9	60.9	2.4	28100
<b>LSD (0.05)†</b>			13.2	0.5	1.0	2.4	1000
<b>C.V.‡</b>			4.1	2.1	1.2	-	2.7

\* 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.

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)
Rea Hybrids	7B090-RIB	109	<b>257.6</b>	17.3	61.5	3.0	29000
Nutech/G2 Genetics	5F-709	109	<b>254.2</b>	17.6	61.4	1.1	29600
Wensman	W91112STX	111	<b>245.8</b>	16.5	60.9	2.4	27900
Nutech/G2 Genetics	5F-510	110	<b>245.5</b>	18.3	62.0	1.5	28400
Pioneer	P1197AM	111	244.5	18.5	59.4	0.4	26600
Wensman	W91095STXRIB	109	244.4	16.5	62.5	1.2	28000
Titan Pro	TP 55-11 2P	111	242.2	18.5	60.3	0.4	28300
Channel	209-46STXRIB	109	239.6	17.0	61.4	0.0	28200
Nutech/G2 Genetics	5Z-308	108	239.3	17.3	67.3	0.8	27900
Channel	209-53STXRIB	109	237.6	18.0	61.2	1.9	28600
Channel	211-35STXRIB	111	237.1	19.1	63.1	1.2	27300
Great Lakes Hybrids	6399STXRIB	113	237.0	18.5	63.0	3.1	28400
Renk Seed	RK871VT2P	111	234.3	18.9	61.3	3.6	27000
Renk Seed	RK791SSTX	108	230.7	16.4	62.5	0.4	27200
Rea Hybrids	7A111-RIB	111	229.9	16.6	61.6	5.8	28100
Great Lakes Hybrids	6185STXRIB	111	228.7	17.3	61.7	2.0	27800
Great Lakes Hybrids	6068STXRIB	110	226.8	17.1	60.7	2.7	28100
Channel	213-28STXRIB	113	226.5	18.3	60.7	1.6	26700
Check	Check	99	223.4	15.3	61.3	3.4	29300
Great Lakes Hybrids	6462STXRIB	114	216.3	20.1	62.1	0.8	26500
Titan Pro	TP 59-08 SS	108	214.3	17.6	60.1	2.9	26600
Rea Hybrids	7A082-RIB	108	212.6	17.7	61.3	1.3	24300
<b>Trial Average</b>			234.9	17.6	61.7	1.9	27700
<b>LSD (0.05)†</b>			12.7	0.5	3.4	2.6	1100
<b>C.V.‡</b>			3.8	2.2	3.9	-	2.8

\* 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.