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Location: 2 miles North of Geddes (57432) in Charles Mix County, SD
(GPS: N 43°16.958' W 098°39.895')

Cooperator: Curtis Sybesma

Soil Type: Highmore silt loam, 0-2% slope

Fertilizer: 120-46-0-32S-2Z preplant; 30-10-10 starter

Yield Goal: 170 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: 1.5 qt Harness Xtra (acetochlor) + 1 qt RT3 (glyphosate) + 12 oz Strut
(dicamba)
Post: none

Date seeded: 5/6/2016

Date harvested: 10/26/2016

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

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Heine Seeds	791VT2PRORIB	107	180.2	16.4	59.1	0.0	25300
Hoegemeyer	HPT7644AM	106	176.2	15.7	59.8	0.0	26000
Heine Seeds	790VT2PRORIB	107	176.1	16.2	59.8	0.0	25900
Nutech/G2 Genetics	5H-905	105	173.0	14.5	57.4	0.0	24800
Nutech/G2 Genetics	5F-504	104	172.6	16.5	59.7	1.6	26200
Heine Seeds	755VT2PRO	105	166.9	16.1	58.2	0.0	26400
Channel	207-27STXRIB	107	164.9	15.9	59.2	0.0	27000
Heine Seeds	775STXRIB	107	164.8	17.5	59.0	0.0	25800
Renk	RK776SSTX	107	162.8	17.1	60.1	0.0	25800
Wensman	W91073STXRIB	107	161.1	15.9	58.7	0.0	24700
Dyna-Gro Seed	D44VC36RIB	104	160.0	16.7	60.8	0.0	26800
Great Lakes Hybrids	5755STXRIB	107	159.5	16.2	58.5	0.0	25900
Heine Seeds	744VT3PRORIB	104	159.4	15.2	59.0	0.0	26000
Hoegemeyer	HPT7166AM	101	157.2	14.6	59.0	0.0	25400
Great Lakes Hybrids	5283STXRIB	102	157.0	15.4	60.3	0.0	26100
Great Lakes Hybrids	4879STXRIB	98	155.7	15.3	59.4	0.0	25900
Nutech/G2 Genetics	5F-906	106	153.1	16.2	59.8	0.0	25600
Great Lakes Hybrids	5470STXRIB	104	152.7	15.5	59.3	0.0	26200
Thunder Seed	EXP 6803 VT2P	103	151.1	16.8	60.7	0.0	25900
Wensman	W9325STXRIB	102	150.4	15.5	60.5	0.0	26000
Thunder Seed	7603 SS	103	146.6	15.0	59.1	0.0	26400
Check	Check	99	145.8	14.4	58.0	0.0	25200
Wensman	W91051STXRIB	105	145.0	15.2	59.8	0.0	26200
Titan Pro	TP 56-06 3110	106	144.9	15.8	56.5	0.9	24800
Thunder Seed	EXP 7805 SS	105	141.7	15.0	61.1	0.0	26200
Great Lakes Hybrids	5029VT2RIB	100	139.4	15.9	60.1	0.0	26100
Great Lakes Hybrids	4548STXRIB	95	139.2	14.1	58.5	0.4	26500
Federal Hybrids	5550 SSTAX RIB	105	127.7	15.2	61.0	0.0	26400
Trial Average			156.4	15.6	59.3	0.0	25900
LSD (0.05)†			18.7	0.8	1.0	0.0	886
C.V.‡			8.6	3.5	1.2	-	2.4

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

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (108 day maturity or more)** at Geddes, 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	HPT8255AM	112	185.6	16.6	57.9	0.4	25300
Hoegemeyer	HPT8066AM	110	185.2	15.8	58.3	0.0	26400
Renk	RK871VT2P	111	183.1	17.2	58.7	0.5	24000
Great Lakes Hybrids	6462STXRIB	114	179.0	19.8	59.0	0.4	26000
Dyna-Gro Seed	D49VC39RIB	109	177.8	15.7	58.9	0.0	24900
Renk	RK877DGVT2P	111	176.2	18.2	57.4	0.4	24600
Dyna-Gro Seed	D52SS91RIB	112	173.8	20.3	58.6	0.4	25900
Heine Seeds	834DGVT2PRO	112	173.5	17.4	58.0	0.0	25300
Channel	209-53STXRIB	109	172.5	18.4	59.5	0.0	26100
Channel	209-44VT2PRIB	109	170.9	18.0	56.8	0.9	24800
Channel	211-35STXRIB	111	168.6	18.1	59.9	0.0	24300
Titan Pro	TP 66-10 2P	110	167.5	15.9	58.2	0.4	25600
Great Lakes Hybrids	6185STXRIB	111	166.8	17.1	58.7	0.4	26600
Titan Pro	TP 55-11 2P	111	166.0	17.4	58.9	0.0	25500
Great Lakes Hybrids	5824STXRIB	108	157.2	16.4	60.0	0.0	26400
Renk	RK810SSTX	110	153.2	18.4	58.2	0.4	26100
Great Lakes Hybrids	5944STXRIB	109	152.2	16.4	57.2	0.0	22100
Wensman	W91095STXRIB	109	151.1	15.8	61.6	0.0	25600
Check	Check	99	150.9	13.7	58.2	0.0	25800
Wensman	W91112STXRIB	111	146.8	16.7	59.2	0.0	23200
Renk	RK792SSTX	108	146.5	15.3	59.9	0.4	24300
Titan Pro	TP 59-08 SS	108	142.8	15.1	59.2	0.4	25900
Trial Average			164.2	16.7	58.6	0.2	25300
LSD (0.05)†			14.9	0.9	1.0	0.9	896
C.V.‡			6.6	3.7	1.2	-	2.5

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