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Location: 2 miles East and 1 mile North of Geddes (57432) in Charles Mix County, SD
(GPS: 43.271195, -98.645333)

Cooperator: Curtis Sybesma

Soil Type: Eakin-Ethan complex, 2-6% slopes

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: 28,750/acre

Herbicide: Pre: 1.5 qt Harness Xtra (acetochlor) + 33 oz Powermax (glyphosate) + 1 pt
Banvel (dicamba)
Post: 33 oz Powermax (glyphosate)

Date seeded: 5/11/2017

Date harvested: 11/10/2017

Table 1a. 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)
Miller Hybrids	M06-94BRGV	106	228.1	17.3	59.0	1.2	27200
Nutech/G2 Genetics	5VN-4707	107	224.3	17.2	59.6	0.0	27200
Channel	207-27STXRIB	107	220.8	17.7	60.0	0.0	27000
Nutech/G2 Genetics	5F-504	104	219.5	17.1	60.2	3.3	26500
Hoegemeyer	HPT 7166 AM	101	219.1	16.3	62.1	0.4	27300
Hoegemeyer	HPT 7557 AM	105	217.1	17.0	60.9	0.4	27700
Nutech/G2 Genetics	5D-906	106	213.1	16.7	61.3	0.4	25200
Dyna-Gro	D44VC36VT2P	104	211.0	16.3	60.2	1.2	27000
Channel	204-74VT2PRIB	104	208.3	16.8	61.6	0.0	26400
Great Lakes Hybrids	5470STXRIB	104	204.6	15.8	59.6	1.2	27400
Wensman	W81041VT2RIB	104	203.1	17.0	60.8	0.4	27700
Nutech/G2 Genetics	5H-905	105	201.2	16.3	59.1	0.8	26200
Thunder Seed	4695 RR	95	200.9	14.0	60.6	2.0	27600
Thunder Seed	6798 VT2P	98	200.7	13.9	60.1	0.8	27800
Renk	RK776SSTX	107	199.9	17.4	61.0	0.0	27100
Miller Hybrids	M01-41BRGA	101	199.2	16.5	61.6	0.0	27900
Hoegemeyer	HPT 7333 AMXT	103	199.1	15.8	59.4	0.0	23200
Hoegemeyer	HPT 7088 AM	100	197.4	16.2	60.8	0.8	26500
Channel	203-01STXRIB	103	196.8	15.6	59.0	0.0	26400
Great Lakes Hybrids	5283STXRIB	102	196.5	15.7	60.8	0.4	26600
Channel	205-19STXRIB	105	196.3	15.7	59.8	0.0	27100
Dyna-Gro	D39DC43	99	195.4	15.8	60.2	1.2	27400
Heine Seeds	790VT2PRORIB	107	195.1	17.1	59.5	0.4	26500
Great Lakes Hybrids	5755STXRIB	107	194.8	17.0	58.9	0.9	25900
Nutech/G2 Genetics	X5FN-0306	103	193.0	16.8	61.1	1.2	27000
Thunder Seed	7603 SS	103	192.3	14.9	59.9	1.6	27000
Thunder Seed	6794 VT2P	94	192.1	14.5	60.7	1.7	26000
Wensman	W81007VT2RIB	100	190.3	15.3	59.8	1.2	26900
Great Lakes Hybrids	5556VT2RIB	105	189.1	16.2	59.3	0.0	26900
Wensman	W81069VT2RIB	106	188.6	16.8	61.6	0.0	26600
Trial Average			194.0	16.1	60.4	0.9	26700
LSD (0.05)†			12.5	0.8	1.0	1.7	1000
C.V.‡			5.6	3.4	1.2	-	2.7

* 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 1b. Glyphosate-resistant corn hybrid variety performance results, continued (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)
Nutech/G2 Genetics	X5LN-0308	103	187.8	15.9	60.2	0.0	23100
Thunder Seed	4600 RR	100	187.6	15.6	60.9	3.4	25600
Heine Seeds	823VT2PRO	107	185.5	19.0	57.9	0.8	26200
Check	CHECK	97	177.0	15.4	61.4	0.4	27400
Heine Seeds	821VT2PRORIB	107	176.3	18.0	59.9	5.0	26400
Great Lakes Hybrids	5626VT2PRO	106	173.2	17.1	62.7	0.0	25900
Thunder Seed	7993 VT2P	93	172.3	14.6	61.8	0.8	26900
Thunder Seed	7793 SS	93	167.9	14.1	61.0	2.1	25800
Thunder Seed	7396 VT2P	96	167.2	13.3	58.9	1.9	27600
Renk	RK717SSTX	105	163.5	16.5	61.7	0.4	26800
Heine Seeds	754STXRIB	105	156.2	16.5	61.0	0.0	27800
Wensman	W81028VT2RIB	102	155.7	16.3	60.5	2.0	27100
Trial Average			194.0	16.1	60.4	0.9	26700
LSD (0.05)†			12.5	0.8	1.0	1.7	1000
C.V.‡			5.6	3.4	1.2	-	2.7

* 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.

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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)
Great Lakes Hybrids	6462STXRIB	114	217.1	20.1	61.2	0.0	25500
Nutech/G2 Genetics	5F-709	109	214.6	17.7	59.7	0.9	25800
Great Lakes Hybrids	6369VT2RIB	113	213.9	19.2	58.9	0.4	26500
Hoegemeyer	HPT 8066 AM	110	211.3	19.0	58.8	0.9	24700
Miller Hybrids	M08-06BGV	108	208.1	17.5	58.0	1.2	26500
Wensman	W91095STXRIB	109	208.0	17.1	60.2	0.9	25600
Channel	213-19STXRIB	113	204.5	18.7	60.3	0.4	25900
Heine Seeds	852VT2PRORIB	112	204.0	22.2	58.0	0.4	24800
Nutech/G2 Genetics	5F-308	108	203.6	17.6	60.3	0.4	26700
Hoegemeyer	HPT 7946 AM	109	202.1	17.9	60.3	0.4	25900
Renk	RK871VT2P	111	197.8	19.2	58.1	0.4	25400
Channel	209-15VT2P	109	197.1	17.4	59.1	0.9	24400
Channel	210-26STXRIB	110	196.1	18.7	58.9	0.0	25800
Channel	208-23STXRIB	108	194.4	18.6	57.8	0.0	25900
Channel	209-53STXRIB	109	194.4	19.4	57.5	0.4	26200
Heine Seeds	837DGV2PRO	111	194.0	20.1	58.7	0.8	26800
Great Lakes Hybrids	5910VT2PRO	109	191.6	17.7	60.8	0.8	26400
Great Lakes Hybrids	6224STX	112	188.6	19.7	60.1	0.0	22300
Renk	RK810SSTX	110	187.5	20.7	57.6	0.0	22800
Heine Seeds	863STX	112	186.5	22.1	60.5	0.0	25700
Heine Seeds	856STXRIB	112	185.9	19.4	57.9	0.4	25600
Miller Hybrids	RX436VT2P	110	184.7	19.4	59.2	0.4	27400
Check	CHECK	97	180.2	15.2	60.1	0.8	26000
Renk	RK815SSTX	111	175.6	18.2	58.2	1.3	24600
Miller Hybrids	RX13-11VT2P	113	175.0	18.0	58.9	0.0	24500
Renk	RK792SSTX	108	169.7	16.4	60.8	0.0	24400
Great Lakes Hybrids	6401STXRIB	114	168.5	20.5	59.0	0.4	26400
Great Lakes Hybrids	5935STX	109	164.0	17.9	59.4	0.9	23800
Dyna-Gro	D50VC30VT2P	110	159.1	17.4	60.0	0.0	26100
Trial Average			191.6	18.6	59.3	0.5	25500
LSD (0.05)†			15.8	1.9	1.0	1.5	1000
C.V.‡			5.9	7.4	1.2	-	2.7

* 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.

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