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Location: 1.5 miles south of Volga (57101) in Brookings County, SD  
(GPS: N 44°17.926' W 096°55.562')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: 180-40-40 preplant

Yield Goal: 200 bu/ac

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Staunch (acetochlor)  
Post: Roundup Power Max (glyphosate)

Date seeded: 4/27/2015

Date harvested: 10/21/2015

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Wensman	W81007STX	100	<b>263.4</b>	20.1	60.1	0.8	29100
Renk Seed	RK612SSTX	100	<b>253.6</b>	18.9	57.9	2.9	29800
Great Lakes Hybrids	4879STXRIB	98	<b>252.7</b>	17.4	59.9	0.4	29500
Nutech/G2 Genetics	5F-200	100	<b>251.8</b>	19.6	58.4	1.6	28400
Masters Choice	MCT 4881	98	246.4	17.1	59.4	4.5	28900
Rea Hybrids	5A992-RIB	99	243.8	16.7	58.2	0.0	29300
Wensman	W9288STXRIB	98	241.0	17.1	59.2	0.0	28200
Nutech/G2 Genetics	5F-198	98	240.5	15.8	56.7	0.4	27800
Dairyland Seed	DS-9599	99	240.4	17.2	58.7	1.9	27700
Great Lakes Hybrids	5015STXRIB	100	240.1	18.1	59.0	2.7	28400
Rea Hybrids	5A993-RIB	99	240.1	19.0	62.0	0.0	29100
Renk Seed	RK596SSTX	98	239.6	16.9	59.7	0.4	28500
Federal Hybrids	4440 VT3P	94	239.5	16.6	60.1	0.0	29000
Proseed	1399A GT3000	99	239.4	16.7	58.3	3.3	26900
Thunder Seed	6600 VT2PRIB	100	238.3	18.5	59.1	0.0	27300
Federal Hybrids	5050 SSTAX	100	237.5	16.9	59.2	0.8	29100
Check	CHECK	99	237.5	18.1	59.6	0.4	28300
Thunder Seed	101-97 GENSSRIB	97	237.1	16.9	60.2	0.0	29700
Wensman	W90994STX	99	236.6	17.9	58.6	0.0	27100
Wensman	W90979STXRIB	97	236.3	15.8	58.8	0.4	28900
Legend Seeds	LR 9600 GENSSRIB	100	236.3	18.6	58.4	0.0	27600
Channel	197-68STXRIB	98	236.2	18.6	58.7	0.0	26100
Pioneer	P9929AM	99	235.2	17.4	59.1	0.8	28900
Dairyland Seed	DS-9198	98	235.1	15.9	57.8	0.0	29200
Wensman	W70975VT3PRIB	97	234.4	15.7	60.1	0.0	28500
Peterson Farms Seed	PFS 55S96	96	233.6	16.2	59.5	0.0	29100
Federal Hybrids	4450 SSTAX	94	233.4	16.4	59.7	1.2	28500
Nuseed	9904 VT2P RIB	99	232.9	16.1	58.9	0.0	26700
Federal Hybrids	4558 SSTAX	95	232.6	15.5	58.6	0.0	29700
Federal Hybrids	4540 VT3P	95	232.2	16.6	59.6	0.0	29200
<b>Trial Average</b>			230.0	16.7	58.0	0.6	27500
<b>LSD (0.05)†</b>			11.9	1.1	0.9	1.6	1400
<b>C.V.‡</b>			3.7	4.9	1.2	-	3.5

\* 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.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Volga, 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	4548STXRIB	95	232.1	16.1	60.3	0.0	28200
Legend Seeds	LR 9397 VT3PRIB	97	231.0	16.0	59.2	0.0	29300
Channel	200-48STXRIB	100	230.8	19.5	58.5	0.8	25500
Federal Hybrids	4760 SSTAX	97	230.7	16.3	58.4	0.8	27000
Rea Hybrids	4A962-RIB	96	230.3	17.2	59.5	0.0	27400
Legend Seeds	40J595 RR	95	229.9	16.1	61.6	1.6	27300
Rea Hybrids	5A981-RIB	98	229.8	18.0	59.6	0.0	27100
Wensman	W90941STXRIB	94	229.8	14.2	58.6	1.2	28600
Proseed	1495SS	95	229.7	16.0	59.8	3.5	28000
Channel	197-50STXRIB	97	228.8	19.2	58.2	0.0	24500
Rea Hybrids	4A972-RIB	97	228.4	15.6	59.1	0.8	28400
Legend Seeds	LR 9497 GENSSRIB	97	228.2	18.4	58.9	0.0	27400
Thunder Seed	101-95 GENSSRIB	95	227.8	18.2	58.7	0.0	27000
Thunder Seed	7396 VT2PRIB	96	227.6	16.0	58.7	0.0	28500
Wensman	W90962STX	96	225.4	14.9	58.0	0.0	28700
Federal Hybrids	4640 VT3P	96	223.7	15.4	61.3	0.0	28600
Thunder Seed	4695 RR	95	222.7	16.8	60.0	0.8	27400
Nutech/G2 Genetics	5F-196	96	222.2	15.9	57.4	0.4	23600
Federal Hybrids	4550 SSTAX	95	219.5	16.1	57.2	0.0	27800
Peterson Farms Seed	PFS 81W95	95	218.1	14.7	58.4	0.0	27400
Proseed	1496 SS	96	217.2	18.4	58.1	0.0	27100
<b>Trial Average</b>			230.0	16.7	58.0	0.6	27500
<b>LSD (0.05)†</b>			11.9	1.1	0.9	1.6	1400
<b>C.V.‡</b>			3.7	4.9	1.2	-	3.5

\* 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.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Volga, 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	5688STXRIB	106	<b>255.0</b>	23.2	59.0	0.0	27800
Dairyland Seed	DS-9203	103	<b>253.2</b>	21.2	58.6	0.0	29500
Pioneer	P0339AM	103	<b>252.1</b>	18.4	58.3	0.8	28400
Rea Hybrids	5A029-RIB	102	<b>251.6</b>	17.1	59.1	0.0	29300
Wensman	W9325STXRIB	102	<b>249.7</b>	17.7	59.1	0.4	28200
Wensman	W91011STXRIB	101	<b>246.5</b>	17.3	58.2	0.0	27100
Federal Hybrids	5250 SSTAX	102	<b>246.4</b>	17.1	60.6	0.0	29000
Masters Choice	MCT 5371	103	<b>245.0</b>	18.0	59.2	0.4	26500
Dairyland Seed	DS-9905	105	<b>244.7</b>	22.0	57.2	1.9	29200
Rea Hybrids	6A032-RIB	103	<b>243.9</b>	20.0	60.2	0.0	26000
Pioneer	P0589AM	105	<b>243.8</b>	20.8	57.9	0.0	29000
Dairyland Seed	DS-9701	101	243.5	17.9	58.8	0.0	27300
Dairyland Seed	DS-9805	103	243.1	22.5	56.9	0.0	28500
Great Lakes Hybrids	5283STXRIB	102	242.8	18.0	58.6	0.4	28300
Titan Pro	2M04-2P	104	242.7	19.8	59.7	0.4	27700
Channel	202-52STXRIB	102	242.2	17.3	58.3	0.0	29200
Federal Hybrids	5140 SSTAX	101	240.9	17.8	59.4	0.7	28300
Titan Pro	TP 39-05 SS	105	240.1	22.4	60.1	0.0	26700
Channel	202-64STXRIB	102	238.0	19.0	60.7	0.0	27000
Renk Seed	RK666SSTX	102	236.3	17.3	57.1	0.0	27400
Titan Pro	TP 39-02 SS	102	235.7	18.2	59.0	0.8	25900
Channel	203-88STXRIB	103	234.8	20.0	57.2	0.4	27400
Great Lakes Hybrids	5470STXRIB	104	234.5	20.2	59.3	0.0	28700
Check	CHECK	99	234.2	17.5	59.9	0.4	28300
Nutech/G2 Genetics	5F-701	101	232.5	18.3	59.7	0.0	27400
Legend Seeds	LR 9405 GENSSRIB	105	232.4	21.6	59.7	0.0	27200
Titan Pro	TP 31-01 3011A	101	232.1	18.5	60.0	1.3	27100
Legend Seeds	LR 94A01 GTA	101	231.4	17.2	59.5	0.0	28300
Titan Pro	TP 58-01 2P	101	229.5	17.0	59.0	0.0	27100
Renk Seed	RK699SSTX	105	223.3	22.2	58.1	0.5	23000
Proseed	13101 SS	101	211.6	17.3	58.7	0.0	26200
<b>Trial Average</b>			239.8	19.1	58.9	0.3	27700
<b>LSD (0.05)†</b>			11.4	1.0	1.2	1.2	1100
<b>C.V.‡</b>			3.4	3.7	1.5	-	2.9

\* 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.