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Location: 1.5 miles south of Volga (57101) in Brookings County, SD
(GPS: N 44°17.926' W 096°55.268')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

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

Fertilizer: 180-40-40 preplant; 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Surpass
Post: None

Date seeded: 5/17/2014

Date harvested: 10/31/2014

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)
Channel	197-68STXRIB	97	241.1	18.1	56.5	0.0	29400
Wensman	W 90979STX	97	238.4	17.3	58.0	0.0	29400
REA Hybrids	5A992-RIB	99	235.3	16.8	56.2	0.4	29400
Federal Hybrids	5050 SSTAX	100	232.4	16.5	57.6	0.0	29700
Wensman	W 9288STXRIB	98	230.4	18.0	57.2	0.4	29000
Peterson Farms Seed	81W95	95	230.2	16.8	56.5	0.0	29200
Pioneer	P9917AMX	99	228.9	17.7	57.4	0.7	29500
Federal Hybrids	4550 SSTAX	95	228.8	16.4	56.1	0.0	29300
Hoegemeyer	HPT 6621 YXR	96	228.2	15.8	56.2	1.9	29100
Check	CHECK	99	227.5	18.4	57.6	0.0	28100
Wensman	W 90941STX	94	227.5	15.9	58.9	1.1	29900
Golden Harvest	G99Z33-3011A	99	227.4	18.2	55.4	0.0	28000
Hoegemeyer	HPT 6799 HXT/LL/RR	97	227.0	17.8	57.4	2.6	29500
Renk	RK605SSTX	100	226.8	16.8	57.8	0.0	29300
Great Lakes Hybrids	5015STXRIB	100	226.7	17.5	57.6	0.4	29800
Nutech/G2 Genetics	5F-399	99	226.3	16.8	55.7	0.0	28700
Nutech/G2 Genetics	5F-200	100	225.2	17.7	57.6	0.8	29000
Nuseed	9904 VT2P	99	224.4	16.5	56.8	0.4	28900
Proseed	1396 VT3P RIB	96	224.3	16.8	57.1	0.7	30100
Golden Harvest	G98Y58-3000GT	98	224.2	17.6	54.5	0.7	28700
Federal Hybrids	4840 SSTAX RIB	98	223.9	16.8	59.4	1.1	29500
Wensman	W 70975VT3PRIB	97	222.6	16.6	57.7	0.0	29700
Masters Choice	MCT 4884	98	222.5	19.2	57.0	1.9	28600
Great Lakes Hybrids	4879STXRIB	98	221.4	17.9	56.3	0.0	27400
Channel	200-48STXRIB	100	220.4	18.1	57.8	0.0	28300
Proseed	1399A GT3000	99	219.2	18.6	57.0	0.8	28000
Wensman	W 7290VT3PRIB	99	219.0	17.0	59.7	0.4	29000
Pioneer	P9703AMX	97	218.8	18.3	57.7	0.0	29300
Peterson Farms Seed	73D91	91	218.5	15.4	56.0	0.4	29100
Peterson Farms Seed	76S92	92	218.4	17.3	58.5	0.4	29500
Trial Average			220.6	17.3	57.1	0.5	28900
LSD (0.05)†			11.0	0.6	1.2	1.5	1200
C.V.‡			3.6	2.3	1.6	-	3.0

* 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)
Proseed	PX 96 SS RIB	96	217.1	17.6	58.3	1.5	28500
Renk	RK596SSTX	98	217.1	17.4	56.8	0.0	28300
Peterson Farms Seed	55S96	96	216.2	17.5	58.3	0.4	27900
REA Hybrids	4A972-RIB	97	216.1	16.5	56.1	0.0	29400
Nuseed	9504 VT3P RIB	95	215.1	17.5	58.4	0.0	27100
Peterson Farms Seed	75T93	93	215.0	16.7	57.5	0.0	29100
Titan Pro	TP 39-98 SS	98	214.1	17.2	56.7	0.4	29000
Federal Hybrids	4240 VT3P	92	214.0	17.0	59.0	0.0	29000
REA Hybrids	4A974-RIB	97	213.6	18.2	58.3	0.4	29100
Nuseed	9505 VT2P	95	213.4	16.9	57.6	0.0	28100
Wensman	W 90967STXRIB	96	213.1	17.4	57.0	0.4	28700
Pioneer	P9526AMX	95	213.0	17.5	57.8	0.0	28500
Dairyland Seed	DS-9900SSX	100	212.5	17.9	53.3	2.7	28400
REA Hybrids	5A993-RIB	99	212.1	18.0	57.4	0.4	29000
Nutech/G2 Genetics	5X-698	98	211.0	16.4	57.4	1.8	30200
Dairyland Seed	DS-9796	96	209.1	16.9	56.2	2.2	29500
Dairyland Seed	DS-9093	93	203.8	18.4	55.5	0.0	28900
Peterson Farms Seed	88A97	97	202.5	16.6	55.2	0.0	28500
Renk	RK581SSTX	100	197.5	18.9	57.4	0.4	27200
Trial Average			220.6	17.3	57.1	0.5	28900
LSD (0.05)†			11.0	0.6	1.2	1.5	1200
C.V.‡			3.6	2.3	1.6	-	3.0

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

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Table 2a. 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)
REA Hybrids	6A032-RIB	103	240.6	18.1	56.0	0.0	29400
REA Hybrids	5A029-RIB	102	238.2	17.8	55.8	0.0	28600
Federal Hybrids	5140 SSTAX RIB	101	236.5	17.8	56.2	0.0	29000
Great Lakes Hybrids	5283STXRIB	102	235.6	18.6	55.1	0.0	28000
Nuseed	3014 VT2P	101	232.7	17.7	56.9	0.8	29000
Pioneer	P0193AM	101	229.4	17.1	55.4	0.4	28400
Proseed	13101 SS	101	227.2	17.4	56.7	0.0	28700
Hoegemeyer	HPT 7278 HXT/LL/RR	102	226.8	17.2	58.3	1.1	28900
Wensman	W 91011STXRIB	101	226.5	18.1	57.5	0.0	28400
Check	CHECK	99	226.4	18.1	57.6	1.2	28300
Pioneer	P0533AM1	105	225.7	20.9	56.9	0.0	29100
Titan Pro	TP 39-02 SS	102	225.7	18.4	54.9	0.0	29200
Channel	201-39STXRIB	101	225.3	18.1	55.7	0.0	29400
Federal Hybrids	5240 SSTAX RIB	102	225.0	18.8	56.0	0.8	28700
Wensman	W 9325STXRIB	102	224.9	18.0	56.8	0.0	26700
Masters Choice	MCT 5375	103	224.5	19.2	57.5	0.0	28100
Nutech/G2 Genetics	EXP 5Z-0106	101	224.4	17.7	56.0	0.0	26800
Golden Harvest	G02W74-3000GT	102	223.8	18.4	56.0	0.0	28900
Nutech/G2 Genetics	5H-806	106	223.5	18.5	57.1	0.0	27400
Renk	RK666SSTX	102	223.1	18.7	55.5	0.4	28600
Nutech/G2 Genetics	5Z-002	102	220.8	18.2	57.2	5.9	27800
Titan Pro	2M04-2P	104	220.3	20.4	53.8	0.4	28300
Channel	203-88STXRIB	103	219.3	16.8	55.3	0.4	27400
Titan Pro	TP 31-01 3011A	101	219.1	17.3	58.4	0.0	29100
Masters Choice	MCT 5663	106	216.9	17.9	56.3	0.0	28300
Nutech/G2 Genetics	5H-905	105	215.3	18.5	54.4	0.0	29300
Golden Harvest	G01P52-3011A	101	215.3	17.5	57.9	0.0	28200
Channel	202-64STXRIB	102	215.2	17.8	57.0	0.0	29500
Pioneer	P0297AMX	102	215.2	19.7	55.1	0.0	28700
Nutech/G2 Genetics	5H-502	102	214.8	17.6	57.6	0.7	28100
Trial Average			221.0	18.1	56.2	0.6	28300
LSD (0.05)†			10.2	0.6	1.0	1.1	1300
C.V.‡			1.4	2.2	1.3	-	3.2

* 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 2b. Glyphosate-resistant corn hybrid variety performance results, continued (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)
Titan Pro	TP 39-05 SS	105	213.3	19.1	56.0	0.8	28200
Titan Pro	TP 35-01 2P	101	210.5	16.7	56.3	0.0	28300
Hoegemeyer	HPT 7103 HXT/LL/RR	101	208.4	17.0	53.2	0.0	28500
Peterson Farms Seed	84Y01	101	208.1	18.6	56.1	0.0	28200
Great Lakes Hybrids	5428STXRIB	104	207.3	18.5	56.5	0.0	28000
Masters Choice	MCT 527 Viptera 3111	105	206.5	17.1	54.0	9.9	25500
Nutech/G2 Genetics	5F-805	105	203.4	18.5	55.2	0.0	26600
Hoegemeyer	EXP 7166 YHR	102	198.4	17.4	57.1	0.0	26800
Trial Average			221.0	18.1	56.2	0.6	28300
LSD (0.05)†			10.2	0.6	1.0	1.1	1300
C.V.‡			1.4	2.2	1.3	-	3.2

* 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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