

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

Location: 1.5 miles south of Volga (57101) in Brookings County, SD  
(GPS: 44.302528, -96.919038)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

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

Fertilizer: 180-40-40-8S preplant, 30-10-10 starter

Yield Goal: 200 bu/ac

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.8 pt Staunch (acetochlor)  
Post: 32 oz Roundup Power Max (glyphosate)

Date seeded: 4/26/2016

Date harvested: 10/31/2016

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)
Hoegemeyer	HPT 7089 AMXT	100	292.8	18.1	61.0	0.0	29500
Federal Hybrids	4760 SSTAX RIB	97	276.2	17.2	58.7	0.0	29200
Titan Pro	TP 54-98 2P	98	274.5	17.7	58.3	0.0	29000
Heine Seeds	723VT2PRORIB	100	274.5	17.4	60.6	0.0	29700
Titan Pro	TP 65-00 2P	100	273.5	17.1	59.3	0.0	28200
Proseed	PX 598	98	272.8	16.9	58.3	0.0	29300
Wensman	W81007VT2RIB	100	271.3	19.1	58.1	0.0	27900
Peterson Farms Seed	72D00	100	270.5	17.1	57.7	0.0	29100
Channel	197-50STXRIB	97	268.4	17.0	58.7	0.0	29100
Wensman	W8184VT2RIB	95	267.5	16.9	59.2	0.0	29500
Peterson Farms Seed	77P94	94	267.3	16.4	58.3	0.0	28700
Heine Seeds	639STXRIB	99	265.1	17.8	58.2	0.4	28400
Wensman	W90979STXRIB	97	264.7	18.2	59.2	0.0	28300
Federal Hybrids	4540 VT3P RIB	95	264.1	17.4	59.1	0.0	29100
Wensman	W9288STXRIB	98	263.4	17.5	59.4	0.0	29000
Wensman	W90994STXRIB	99	263.2	17.4	59.2	0.0	29500
Nutech/G2 Genetics	5F-196	96	262.9	17.4	57.5	0.0	28100
Heine Seeds	712VT2PRORIB	100	262.3	17.1	60.7	0.0	29800
Stine	R9428-32	100	262.0	17.5	59.5	0.0	28200
Proseed	PX 695	95	261.6	17.5	59.0	0.0	28500
Federal Hybrids	4560 SSTAX RIB	95	261.2	17.5	59.5	0.0	29100
Thunder Seed	EXP 7899 SS	99	260.1	17.4	58.3	0.0	28300
Thunder Seed	4695 RR	95	258.9	16.7	59.0	0.0	28700
Proseed	1399A 3000GT	99	258.2	17.5	58.1	0.4	28400
Hoegemeyer	HPT 7062 AMXT	100	257.0	18.3	59.7	0.0	27900
Hoegemeyer	HPT 6621 AMX	96	255.8	16.8	59.4	0.4	27400
Channel	197-68STXRIB	97	255.6	17.0	59.8	0.0	28900
Nutech/G2 Genetics	5N-800	100	254.9	18.1	59.9	0.0	27700
Dairyland Seed	DS-9599	99	254.8	18.3	58.1	0.0	26500
Wensman	W90962STXRIB	96	253.2	16.3	57.8	0.0	29000
<b>Trial Average</b>			257.3	17.3	59.0	0.1	28100
<b>LSD (0.05)†</b>			13.7	0.6	1.0	0.3	1362
<b>C.V.‡</b>			3.8	2.7	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)
Federal Hybrids	4558 SSTAX RIB	95	252.6	16.5	58.3	0.0	28200
Thunder Seed	7396 VT2P	96	252.2	16.8	59.1	0.8	28700
Federal Hybrids	4520 VT3P RIB	95	251.8	18.0	60.1	0.4	29100
Federal Hybrids	4870 SSTAX	98	251.8	17.3	61.5	0.0	28000
Peterson Farms Seed	86S98	98	250.5	17.1	61.0	0.0	28100
Peterson Farms Seed	81W95	95	250.0	16.1	58.4	0.0	27600
Proseed	1496 SS	96	249.6	17.8	58.5	0.0	25500
Thunder Seed	101-95 SS	95	249.6	18.2	59.6	0.0	28200
Federal Hybrids	4640 VT3P RIB	96	249.1	16.3	58.0	0.0	29400
Federal Hybrids	4440 VT3P RIB	94	243.4	17.1	59.9	0.0	25800
Nutech/G2 Genetics	5F-198	98	242.9	16.6	56.9	0.0	25600
Dairyland Seed	DS-9198RA	98	242.5	17.1	57.5	0.0	28000
Thunder Seed	6600 VT2P	100	240.1	17.1	60.2	0.0	28000
Federal Hybrids	5060 SSTAX RIB	100	238.1	17.5	58.9	0.0	25200
Check	Check	99	238.1	16.5	57.4	0.0	29000
Stine	R9209-32	94	237.1	16.7	60.5	0.0	27800
Stine	9314-20	94	236.6	17.3	57.2	0.0	23200
Peterson Farms Seed	55S96	96	226.1	17.0	60.3	0.0	24600
<b>Trial Average</b>			257.3	17.3	59.0	0.1	28100
<b>LSD (0.05)†</b>			13.7	0.6	1.0	0.3	1362
<b>C.V.‡</b>			3.8	2.7	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)
Thunder Seed	EXP 7805 SS	105	<b>298.5</b>	20.5	60.1	0.4	28500
Renk	RK717SSTX	105	<b>297.8</b>	20.6	59.8	0.4	29300
Federal Hybrids	5370 SSTAX	103	<b>297.6</b>	20.8	59.8	0.0	29000
Nutech/G2 Genetics	5Z-601	101	<b>290.7</b>	18.6	59.5	0.4	29700
Nutech/G2 Genetics	5F-504	104	284.2	19.9	59.3	0.0	27000
Nutech/G2 Genetics	5Z-503	103	283.3	19.0	60.2	0.4	28900
Dairyland Seed	DS-9403	103	279.5	19.4	56.5	0.4	28700
Hoegemeyer	HPT 7166 AM	101	278.2	18.8	60.3	0.0	28400
Nutech/G2 Genetics	5F-701	101	276.7	18.6	60.6	0.0	27300
Titan Pro	TP31-01 3011A	101	276.6	18.8	60.2	0.0	29700
Federal Hybrids	5550 SSTAX RIB	105	276.2	21.1	58.7	0.8	27100
Dairyland Seed	DS-9204	104	274.5	20.1	57.8	4.6	28700
Wensman	W9325STXRIB	102	269.7	19.0	58.4	0.4	28700
Dairyland Seed	DS-9802	102	268.5	18.5	57.9	0.4	28500
Thunder Seed	7603 SS	103	267.6	18.2	59.1	0.0	29100
Channel	205-19STXRIB	105	266.9	19.7	58.9	0.0	25800
Thunder Seed	EXP 6803 VT2P	103	265.6	19.8	59.0	0.0	26600
Peterson Farms Seed	81W01	101	264.0	18.3	59.4	0.0	28500
Wensman	W91011STXRIB	101	263.8	18.6	59.4	0.0	28200
Titan Pro	TP 67-02 SS	102	263.0	18.8	60.1	0.0	27400
Channel	203-01STXRIB	103	259.5	21.4	57.7	0.4	28900
Channel	202-52STXRIB	102	259.1	18.2	59.2	0.0	28100
Titan Pro	TP 58-01 2P	101	257.2	18.0	60.8	0.4	28700
Channel	206-30STXRIB	106	256.9	20.0	60.6	0.0	27100
Renk	RK680SSTX	103	255.1	18.3	59.2	0.0	27600
Federal Hybrids	5440 SSTAX RIB	103	254.7	19.7	58.9	0.0	26700
Federal Hybrids	5140 SSTAX RIB	101	252.9	18.8	58.7	0.0	27700
Dairyland Seed	DS-9701RA	101	250.5	18.9	57.9	0.0	24600
Dairyland Seed	DS-9106	106	250.1	19.8	58.2	0.4	26400
Nutech/G2 Genetics	5H-502	102	237.1	18.7	59.2	0.0	23300
Channel	201-37VT2PRIB	101	234.9	18.0	58.0	0.0	26200
Wensman	W91018STX	101	233.8	18.6	59.0	0.0	24600
Check	Check	99	231.6	17.2	58.5	0.0	28000
<b>Trial Average</b>			265.7	19.1	59.1	0.3	27700
<b>LSD (0.05)†</b>			13.5	0.5	0.9	0.9	1300
<b>C.V.‡</b>			3.6	2.0	1.0	-	3.3

\* 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.