

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

Location: 2 3/4 miles south and 2 miles east of Wessington (57381) in Beadle county, SD
(GPS: 44.346708, -98.659005)

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: 134-52-18-12S-5Z preplant, 30-10-10 starter, 28-0-0 preemergence

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 27,000/acre

Herbicide: Pre: 32 oz Harness (acetochlor) + 32 oz RT3 (glyphosate) +12 oz LV6 (2,4-D)
Post: 44 oz Roundup WeatherMax (glyphosate)

Date seeded: 5/11/2016

Date harvested: 10/27/2016

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Miller, 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 7088 AM	100	220.9	18.4	59.7	0.0	25200
Hoegemeyer	HPT 6620 AM	96	212.6	18.0	59.5	0.4	24400
Federal Hybrids	5060 VT2P	100	212.1	17.5	62.2	0.0	26800
Hoegemeyer	HPT 7061 AM	100	209.0	18.2	58.0	1.4	23200
Wensman	W8294VT2RIB	99	207.9	16.9	61.4	0.5	24600
Thunder Seed	4695 RR	95	207.5	16.9	59.8	0.0	24900
Titan Pro	TP 54-98 2P	98	205.9	18.5	59.1	1.3	24900
Nutech/G2 Genetics	5F-198	98	205.7	17.5	56.7	0.0	22800
Wensman	W81007VT2RIB	100	205.1	19.6	59.7	1.4	23500
Renk	RK608DGV2P	100	204.7	18.4	59.7	0.0	23500
Nutech/G2 Genetics	5F-196	96	204.2	18.3	57.6	1.3	24300
Heine Seeds	639STXRIB	99	203.9	17.1	58.5	0.8	25500
Federal Hybrids	4560 VT2P RIB	95	203.6	16.4	60.4	0.0	24800
Heine Seeds	712VT2PRORIB	100	202.9	17.7	60.8	0.0	25600
Titan Pro	TP 65-00 2P	100	202.7	17.4	60.5	0.0	24600
Thunder Seed	EXP 7899 SS	99	202.7	17.5	59.7	0.0	24700
Federal Hybrids	3970 VT2P	89	201.8	15.7	60.2	0.0	23800
Federal Hybrids	4470 VT2P	94	200.8	16.6	58.4	0.0	23600
Federal Hybrids	4640 VT2P RIB	96	199.3	17.8	60.8	0.0	24000
Peterson Farms Seed	55S96	96	198.3	16.9	61.0	0.0	24000
Federal Hybrids	4760 VT 2P RIB	97	197.3	17.5	60.2	0.5	24800
Wensman	W90994STXRIB	99	196.8	16.9	59.1	0.8	26000
Channel	197-68STXRIB	97	195.4	16.9	60.0	0.5	23800
Renk	RK612SSTX	100	194.7	16.6	59.8	0.0	25700
Channel	197-50STXRIB	97	194.7	17.1	59.5	0.0	24500
Thunder Seed	7396 VT2P	96	193.7	16.8	60.1	0.0	24200
Wensman	W80993VT2PRO	99	193.6	19.1	60.8	0.0	25500
Peterson Farms Seed	77P94	94	193.0	16.5	59.9	0.0	23700
Federal Hybrids	4520 VT2P RIB	95	192.2	17.4	62.0	0.5	24400
Federal Hybrids	4160 VT2P RIB	91	192.0	16.0	60.3	0.0	25900
Trial Average			195.9	17.1	60.0	0.3	24400
LSD (0.05)†			13.8	0.8	1.0	1.2	2300
C.V.‡			5.1	3.3	1.2	-	6.6

* Lodging percentage - stalks broken below the ear as a percentage of the 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 Miller, 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	W80972VT2PRO	97	191.7	17.4	60.0	0.0	24300
Heine Seeds	723VT2PRORIB	100	191.5	17.2	60.1	0.4	24400
Federal Hybrids	4558 SSTAX RIB	95	190.6	16.3	59.3	0.0	25200
Thunder Seed	7993 VT2P	93	189.8	16.3	60.0	0.0	26000
Thunder Seed	EXP 6791 VT2P	91	189.0	16.0	60.6	0.0	23500
Nutech/G2 Genetics	5N-800	100	188.9	17.7	61.3	0.0	23700
Thunder Seed	6600 VT2P	100	188.2	17.6	60.7	0.0	23600
Renk	RK595SSTX	99	187.6	16.7	61.3	0.4	25200
Thunder Seed	101-95 SS	95	187.3	16.9	60.3	0.4	24800
Federal Hybrids	4540 VT3P RIB	95	187.0	17.5	60.7	0.5	24300
Renk	RK596SSTX	98	186.0	17.3	59.3	1.0	23000
Federal Hybrids	4870 SSTAX	98	185.2	16.9	60.7	0.0	24700
Federal Hybrids	4240 VT2P RIB	92	184.5	16.1	60.5	0.0	23100
Wensman	W90962STXRIB	96	184.3	15.9	60.0	0.4	24700
Check	Check	99	180.5	16.6	59.4	0.0	23500
Peterson Farms Seed	81W95	95	179.8	16.3	59.2	1.1	22700
Federal Hybrids	4440 VT2P RIB	94	179.4	16.5	60.5	0.4	23700
Federal Hybrids	4060 VT2P RIB	90	176.8	16.5	60.2	0.0	25400
Trial Average			195.9	17.1	60.0	0.3	24400
LSD (0.05)†			13.8	0.8	1.0	1.2	2300
C.V.‡			5.1	3.3	1.2	-	6.6

* Lodging percentage - stalks broken below the ear as a percentage of the 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 (101 day maturity or more)** at Miller, 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	5Z-503	103	215.7	18.1	58.0	0.5	24800
Nutech/G2 Genetics	5Z-601	101	215.4	17.8	59.5	0.5	24500
Thunder Seed	EXP 7805 SS	105	214.4	19.4	60.6	2.5	25300
Nutech/G2 Genetics	5F-504	104	206.4	19.5	58.5	0.5	24200
Dairyland Seed	DS-9204	104	204.9	20.1	57.1	0.0	25500
Federal Hybrids	5370 SSTAX	103	204.6	18.8	61.3	0.9	25600
Federal Hybrids	5260 DGVT2P RIB	102	203.2	18.0	59.7	0.8	24100
Wensman	W81041VT2RIB	104	202.2	20.4	59.7	2.2	24700
Federal Hybrids	5140 VT2P RIB	101	201.9	18.0	59.0	0.4	25700
Dairyland Seed	DS-9403	103	201.7	19.5	57.2	0.0	25400
Dairyland Seed	DS-9701RA	101	201.2	18.0	58.2	1.3	24200
Wensman	W81028VT2RIB	102	201.1	18.7	58.5	0.4	24500
Federal Hybrids	5550 SSTAX RIB	105	201.0	18.9	58.4	0.8	25000
Hoegemeyer	HPT 7166 AM	101	200.7	18.8	60.4	4.6	23600
Wensman	W91011STXRIB	101	200.4	16.9	59.7	0.0	25500
Channel	203-01STXRIB	103	199.6	18.5	57.5	0.4	24500
Federal Hybrids	5440 SSTAX RIB	103	198.8	20.2	58.5	0.5	22200
Titan Pro	TP 67-02 SS	102	197.4	17.9	60.3	0.5	24200
Thunder Seed	7603 SS	103	196.4	17.6	59.2	0.0	25000
Channel	205-19STXRIB	105	196.3	19.5	57.9	1.9	23500
Renk	RK675DGVT2P	103	194.6	18.8	58.5	0.9	25500
Dairyland Seed	DS-9802	102	194.6	18.3	57.9	0.0	24500
Nutech/G2 Genetics	5F-701	101	194.2	18.8	60.4	0.6	22700
Titan Pro	TP 58-01 2P	101	193.2	17.2	59.7	0.0	23800
Channel	206-30STXRIB	106	192.3	19.3	60.1	0.9	23500
Channel	202-52STXRIB	102	190.9	17.9	58.3	0.5	24100
Titan Pro	TP 31-01 3011A	101	190.1	18.4	60.1	5.1	25300
Dairyland Seed	DS-9106	106	189.6	19.4	58.5	1.5	22800
Renk	RK680SSTX	103	188.6	17.4	59.3	0.9	24200
Check	Check	99	183.5	15.9	59.1	0.5	23800
Channel	201-37VT2PRIB	101	180.4	17.5	58.8	0.4	23200
Nutech/G2 Genetics	5H-502	102	179.1	18.5	59.5	1.9	19600
Federal Hybrids	5250 SSTAX RIB	102	178.9	19.9	58.2	7.2	24300
Thunder Seed	EXP 6803 VT2P	103	157.7	21.2	58.1	7.2	23200
Trial Average			196.0	18.5	59.0	1.3	24200
LSD (0.05)†			13.4	1.0	0.9	2.0	2300
C.V.‡			4.9	4.1	1.1	-	6.7

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

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

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