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Location: 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County
(GPS: 44.543921, -97.767418)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Fertilizer: 135-75-0-10S-2Z preplant; 30-10-10 starter

Yield Goal: 170 bu/ac

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1.5 pt Harness (acetochlor), fall applied
Post: 1 qt Roundup PowerMax (glyphosate) + 1 qt TripleFlex (acetochlor +
flumetsulam + clopyralid) + 30 oz Status (dicamba + diflufenzopyr)

Date seeded: 5/16/2016

Date harvested: 11/7/2016

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, 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	5F-196	96	232.8	15.4	58.9	0.0	28300
NuTech/G2 Genetics	5F-198	98	231.2	14.8	56.4	0.0	27100
Federal Hybrids	4640 VT2P RIB	96	229.4	15.8	61.6	0.4	28200
Heine Seeds	723VT2PRORIB	100	227.2	16.0	60.6	0.0	29200
Proseed	1399A 3000GT	99	223.3	16.0	58.7	0.0	27900
Thunder Seed	EXP 7899 SS	99	222.6	15.6	59.3	0.0	27600
Dairyland Seed	DS-9599	99	221.6	15.8	58.7	0.0	28600
Wensman	W81007VT2RIB	100	221.3	16.5	61.4	0.0	27300
Channel	197-50STXRIB	97	221.2	15.1	59.2	0.0	27900
Thunder Seed	4695 RR	95	220.3	15.2	60.5	0.0	27900
Renk	RK596SSTX	98	220.0	15.0	59.3	0.0	24800
Federal Hybrids	4560 VT2P RIB	95	219.9	15.2	61.5	0.0	28000
Federal Hybrids	4470 VT2P	94	219.6	14.9	60.2	0.0	27800
Peterson Farms Seed	72D00	100	219.5	15.5	59.8	0.0	27400
Wensman	W8184VT2RIB	95	218.9	15.3	60.9	0.0	29000
Titan Pro	TP 54-98 2P	98	218.3	15.6	60.2	0.0	28500
Proseed	PX 598	98	217.7	15.2	60.1	0.0	29000
Federal Hybrids	5060 VT2P	100	217.6	15.6	60.9	0.0	28200
Thunder Seed	EXP 6791 VT2P	91	217.6	14.9	61.9	0.0	27800
Proseed	PX 695	95	217.5	15.5	61.4	0.4	29000
Federal Hybrids	4540 VT3P RIB	95	217.1	15.3	60.1	0.0	27800
Wensman	W80993VT2PRO	99	215.2	15.9	61.7	0.0	29000
Heine Seeds	639STXRIB	99	213.8	15.2	60.5	0.0	28300
Federal Hybrids	4240 VT2P RIB	92	213.5	14.9	60.8	0.0	27600
Titan Pro	TP 65-00 2P	100	213.3	15.6	60.1	0.0	27700
Federal Hybrids	3970 VT2P	89	213.2	14.3	60.7	0.0	28700
Renk	RK595SSTX	99	213.2	14.9	60.7	0.0	29100
Heine Seeds	712VT2PRORIB	100	213.0	15.5	61.0	0.0	27600
Peterson Farms Seed	77P94	94	212.5	15.1	59.3	0.0	26900
Federal Hybrids	4520 VT2P RIB	95	212.0	15.8	61.7	0.0	27800
Trial Average			212.8	15.2	60.2	0.2	27800
LSD (0.05)†			15.0	0.6	1.0	0.3	1100
C.V.‡			5.1	2.8	1.1	-	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.

Table 1b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Early Season Trial (100 day maturity or less)** at Bancroft, 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	W90994STXRIB	99	211.3	15.0	60.3	0.0	28300
Wensman	W80972VT2PRO	97	209.5	15.2	59.6	0.4	28000
Wensman	W90962STXRIB	96	209.5	14.6	61.0	0.0	29200
Wensman	W90979STXRIB	97	209.3	15.1	60.1	0.0	29100
Peterson Farms Seed	55S96	96	208.9	15.3	60.4	0.0	25300
Thunder Seed	7396 VT2P	96	207.9	14.5	60.7	0.0	28300
Federal Hybrids	4760 VT2P RIB	97	207.3	14.9	59.5	0.0	27900
Federal Hybrids	4558 SSTAX RIB	95	206.0	14.7	60.1	0.0	27100
Check	Check	99	206.0	15.0	60.7	0.0	26100
Thunder Seed	101-95 SS	95	205.3	14.9	59.4	0.0	28000
Channel	197-68STXRIB	97	204.8	15.3	60.6	0.0	28000
Federal Hybrids	4160VT2P RIB	91	203.4	14.4	59.7	0.4	28400
Federal Hybrids	4440 VT2P RIB	94	202.8	15.0	60.5	0.0	27900
Dairyland Seed	DS-9198RA	98	202.1	13.9	59.3	0.0	27200
Renk	RK612SSTX	100	201.7	14.7	58.9	0.0	27700
NuTech/G2 Genetics	5N-800	100	201.6	15.8	60.8	0.0	25900
Peterson Farms Seed	81W95	95	201.4	14.8	59.0	0.0	27400
Federal Hybrids	4870 SSTAX	98	198.7	15.4	60.6	0.0	26400
Proseed	1496 SS	96	197.1	15.0	59.0	0.0	27000
Thunder Seed	6600 VT2P	100	196.8	15.8	61.5	0.0	25400
Federal Hybrids	4060 VT2P RIB	90	184.6	14.1	59.7	0.0	28300
Trial Average			212.8	15.2	60.2	0.2	27800
LSD (0.05)†			15.0	0.6	1.0	0.3	1100
C.V.‡			5.1	2.8	1.1	-	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.

Table 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (101 day maturity or more)** at Bancroft, 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	5F-701	101	222.3	16.1	61.3	0.0	27600
NuTech/G2 Genetics	5Z-503	103	220.2	15.7	60.1	0.0	27800
NuTech/G2 Genetics	5Z-601	101	219.9	15.6	60.2	0.0	27600
NuTech/G2 Genetics	5F-504	104	219.8	16.6	59.8	0.0	27000
Dairyland Seed	DS-9403	103	219.4	16.6	57.0	0.0	28300
Federal Hybrids	5370 SSTAX	103	216.8	16.0	60.9	0.0	28500
Federal Hybrids	5260 DGVT2P RIB	102	215.2	15.0	61.4	0.0	27100
Thunder Seed	EXP 7805 SS	105	213.3	16.2	60.6	0.0	28700
Federal Hybrids	5550 SSTAX RIB	105	212.6	16.3	59.1	0.0	27900
Dairyland Seed	DS-9204	104	212.2	17.2	58.0	0.0	28100
Titan Pro	TP 67-02 SS	102	209.9	15.1	60.3	0.0	27300
Titan Pro	TP 58-01 2P	101	206.3	15.6	61.4	0.0	27600
Wensman	W9325STXRIB	102	206.3	15.4	58.9	0.0	27400
Federal Hybrids	5250 SSTAX RIB	102	205.6	15.8	60.8	0.0	27300
Federal Hybrids	5140 VT2P RIB	101	205.4	15.7	58.7	0.0	27900
Channel	201-37VT2PRIB	101	204.7	15.2	58.7	0.0	27900
Channel	205-19STXRIB	105	204.0	15.5	57.4	0.0	24900
Thunder Seed	EXP 6803 VT2P	103	203.8	17.7	59.8	0.0	24800
Dairyland Seed	DS-9701RA	101	203.7	15.5	57.9	0.0	26400
Channel	203-01STXRIB	103	202.5	15.2	56.8	0.0	26200
Check	Check	99	199.4	14.8	59.3	0.0	25800
Channel	206-30STXRIB	106	199.0	17.9	59.9	0.0	28200
Thunder Seed	7603 SS	103	198.0	15.9	59.0	0.0	27700
Dairyland Seed	DS-9802	102	196.8	15.8	57.9	0.0	27900
Dairyland Seed	DS-9106	106	195.0	17.1	59.7	0.0	26500
Titan Pro	TP 31-01 3011A	101	193.9	15.8	60.4	4.7	27700
Channel	202-52STXRIB	102	193.5	15.8	58.0	0.0	25900
NuTech/G2 Genetics	5H-502	102	185.0	16.0	59.4	0.0	22800
Federal Hybrids	5440 SSTAX RIB	104	182.3	15.2	58.0	0.0	27600
Trial Average			206.0	15.9	59.4	0.2	27100
LSD (0.05)†			12.3	0.5	0.8	0.3	1000
C.V.‡			4.2	2.1	1.0	-	2.6

* 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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