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Location: 7 miles south and 2 miles east of Miller (57362) in Hand county, SD
(GPS: 44.413376, -98.945645)

Cooperator: Paul Fulton

Soil Type: Houdek-Dudley complex, 0-2% slopes

Fertilizer: 114-52-18-12S-5Z preplant, 30-10-10 starter, 10 gal 28-0-0 preemerge

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 28,750/acre

Herbicide: Pre: 32 oz Harness Xtra (acetochlor) + 32 oz RT3 (glyphosate) +
12 oz LV6 (2,4-D), (applied with 10 gal 28% UAN)
Post: 32 oz Roundup WeatherMax (glyphosate) +
2.5 oz Status (dicamba + diflufenzopyr) + 4 oz Crosshair (drift agent)

Date seeded: 5/8/2017

Date harvested: 11/1/2017

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)
Federal Hybrids	4770 VT2P RIB	97	166.6	16.4	58.3	0.0	27100
Hoegemeyer Hybrids	HPT 7088 AM	100	165.3	17.4	57.2	0.0	26200
Wensman	W80972VT2RIB	97	154.4	15.6	58.3	0.4	27200
Wensman	W80993VT2RIB	99	153.0	15.6	59.4	0.8	27100
Federal Hybrids	4880 VT2P RIB	98	151.1	16.6	57.8	0.4	26000
Federal Hybrids	4560 SSTAX RIB	95	150.9	15.5	57.2	0.0	27200
Check	CHECK	97	150.8	16.2	56.2	0.4	26900
Federal Hybrids	4680 VT2P	96	150.5	15.9	57.7	0.8	26200
Hoegemeyer Hybrids	HPT 6813 AM	98	149.8	16.4	54.8	0.0	23800
Wensman	W81007VT2RIB	100	148.8	16.1	56.8	1.3	24400
Proseed	1399 3000GT	99	147.8	16.8	54.4	0.9	23300
Thunder Seed	6794 VT2P	94	147.6	15.2	57.4	0.4	26800
Wensman	W8294VT2RIB	99	147.4	15.9	57.5	0.4	26200
Federal Hybrids	4560 VT2P RIB	95	147.0	15.9	57.7	0.0	25900
Peterson Farms Seed	78B98	98	146.6	16.3	57.4	0.0	27800
Wensman	W80965VT2RIB	96	145.9	13.7	57.5	0.0	27900
NuTech/G2 Genetics	5FN-7099	99	144.3	16.7	56.8	0.0	25500
Federal Hybrids	4470 VT2P RIB	94	144.1	15.0	58.2	0.5	25000
Channel	197-50STXRIB	97	144.0	16.3	56.4	0.0	26900
Peterson Farms Seed	75S96	96	143.5	15.2	58.8	0.0	27100
Channel	195-18VT2PRIB	95	140.9	15.4	60.2	0.0	27000
Channel	193-53STXRIB	93	140.1	16.4	57.4	0.0	26800
Renk	RK608DGV2P	100	140.0	16.2	57.1	0.0	27000
NuTech/G2 Genetics	5FN-5096	96	139.7	15.9	58.6	0.0	23400
Proseed	PX694 VT2P	94	138.9	16.3	57.5	0.4	25500
Federal Hybrids	4180 VT2P	91	138.4	14.5	57.4	0.0	27300
Federal Hybrids	4185 VT2P RIB	91	138.2	14.4	59.3	0.8	26600
Federal Hybrids	5060 SSTAX RIB	100	138.2	17.2	57.1	0.0	26400
Hoegemeyer Hybrids	HPT 6620 AM	96	137.2	13.9	56.1	0.0	26200
Heine Seeds	732DGV2PRORIB	100	136.6	16.1	57.1	0.0	24900
Trial Average			140.0	15.6	57.2	0.3	26000
LSD (0.05)†			14.4	1.3	1.1	1.1	1200
C.V.‡			7.4	5.8	1.4	-	3.4

* 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)
Federal Hybrids	4880 SSTAX RIB	98	136.3	17.6	57.8	0.0	24800
Thunder Seed	7993 VT2P	93	136.3	14.5	57.6	0.4	26100
Proseed	1395 VT2P	95	136.1	16.0	58.1	1.4	23400
NuTech/G2 Genetics	5F-196	96	136.0	14.9	55.6	0.4	27400
Proseed	1591 VT2P	91	135.8	13.4	57.4	0.0	27900
Thunder Seed	4600 RR	100	135.4	17.2	55.4	0.4	26500
NuTech/G2 Genetics	5F-198	98	134.5	13.0	54.1	0.9	24200
Hoegemeyer Hybrids	HPT 6695 AM	96	134.2	16.1	58.2	0.0	22700
Federal Hybrids	4558 SSTAX RIB	95	133.7	15.6	56.2	0.0	27100
Federal Hybrids	4160 VT2P RIB	91	133.6	13.4	57.7	1.6	26900
Rob-See-Co	RC4915-3120	99	133.5	15.2	53.8	0.0	23600
Federal Hybrids	4760 VT2P RIB	97	132.8	15.8	57.0	0.0	26000
Thunder Seed	4695 RR	95	131.8	14.1	58.2	0.4	26500
Rob-See-Co	IC4521-3110	95	131.6	15.9	57.9	0.0	23700
Renk	RK595SSTX	99	129.9	15.9	57.7	0.4	25900
Federal Hybrids	4580 VT2P RIB	95	129.1	14.7	57.4	0.0	27800
Federal Hybrids	4760 SSTAX RIB	97	127.0	15.2	55.9	0.0	25900
Thunder Seed	6798 VT2P	98	126.2	15.9	57.4	0.0	25700
Rob-See-Co	RC4343-3110A	93	124.6	14.6	56.7	0.0	24900
Peterson Farms Seed	72D00	100	124.3	16.4	57.7	0.0	24900
Thunder Seed	7793 SS	93	123.9	15.0	57.7	0.8	26600
Thunder Seed	7396 VT2P	96	118.6	14.1	56.6	0.8	25600
Trial Average			140.0	15.6	57.2	0.3	26000
LSD (0.05)†			14.4	1.3	1.1	1.1	1200
C.V.‡			7.4	5.8	1.4	-	3.4

* 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 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	X5LN-0308	103	163.1	17.3	59.1	0.5	21100
Renk	RK642SSTX	103	162.0	17.5	57.2	0.9	25200
Hoegemeyer Hybrids	HPT 7166 AM	101	159.8	16.3	60.0	0.8	26100
Dairyland Seed	DS-9701RA	101	159.6	18.4	56.7	1.4	24800
Nutech/G2 Genetics	5F-504	104	158.5	17.9	57.0	0.4	26700
Nutech/G2 Genetics	5F-601	101	158.0	17.0	57.9	0.0	26800
Hoegemeyer Hybrids	HPT 7557 AM	105	156.4	18.5	57.2	0.0	26800
Heine Seeds	7410STX	104	155.5	16.1	57.2	0.4	24700
Renk	RK680SSTX	103	153.1	17.2	56.7	0.0	24100
Thunder Seed	7603 SS	103	152.8	16.3	57.8	0.8	26600
Nutech/G2 Genetics	5F-701	101	151.4	16.6	59.5	0.0	23500
Wensman	W81028VT2RIB	102	149.3	18.2	57.5	0.0	26200
Check	CHECK	97	149.1	15.7	57.2	0.8	26700
Heine Seeds	740VT2PRO	102	148.7	19.2	56.2	0.0	24100
Dairyland Seed	DS-9804SSX	104	148.4	22.7	53.2	0.5	23400
Channel	201-05VT2PRIB	101	148.3	18.0	58.2	0.4	25600
Heine Seeds	752VT2PRO	105	146.7	20.7	57.1	0.4	26200
Channel	201-28VT2PRIB	101	146.1	16.1	58.3	0.0	26700
Heine Seeds	739VT2PRO	102	145.8	18.3	56.1	0.0	25500
Hoegemeyer Hybrids	HPT 7333 AMXT	103	144.4	17.2	59.0	0.0	21000
Wensman	W81041VT2RIB	104	142.4	18.5	59.2	0.0	26600
Federal Hybrids	5180 SSTAX RIB	101	140.7	16.0	58.0	0.0	25300
Peterson Farms Seed	81W01	101	140.4	16.6	57.0	0.0	24600
Wensman	W91018STXRIB	101	139.6	15.5	57.6	0.0	26600
Rob-See-Co	RC5112-3122A	101	139.4	20.2	55.8	0.0	25500
Nutech/G2 Genetics	X5FN-0306	103	136.7	16.2	56.7	0.4	27100
Renk	RK675DGV2P	103	136.3	16.0	57.1	0.0	23300
Heine Seeds	754STXRIB	105	133.1	17.8	57.8	0.0	25900
Rob-See-Co	IC5203-3120	102	128.5	17.8	59.0	0.0	25000
Dairyland Seed	DS-9802RA	102	125.7	21.6	56.1	0.0	26900
Rob-See-Co	IC5296-3120	102	122.0	19.3	53.4	1.3	25300
Trial Average			146.5	17.8	57.3	0.3	25300
LSD (0.05)†			14.8	1.3	2.0	1.3	1300
C.V.‡			7.2	5.3	2.4	-	3.7

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

† Yield or moisture value required (≥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.