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Location: 1.5 miles south of Volga (57101) in Brookings County, SD
(GPS: 44.298767, -96.922201)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

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

Fertilizer: 179-40-40-7S 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: 5/5/2017

Date harvested: 11/11/2017

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)
Heine Seeds	6250VT2PRO	96	278.1	17.4	59.1	0.0	28400
Hoegemeyer	HPT 7088 AM	100	274.4	17.0	58.7	0.0	27900
Federal Hybrids	4880 VT2P RIB	98	274.3	16.5	59.1	0.0	28100
Renk	RK608DGV2P	100	273.7	17.1	59.1	0.0	27400
Thunder Seed	6798 VT2P	98	272.0	16.3	59.5	0.0	28600
Federal Hybrids	4580 VT2P RIB	95	270.3	16.8	60.5	0.0	28600
Titan Pro	TP 65-00 2P	100	269.8	17.2	59.4	0.0	27900
Hoegemeyer	HPT 6813 AM	98	268.7	16.7	56.8	0.0	25400
Federal Hybrids	4760 VT2P RIB	97	267.7	15.9	58.3	0.0	29200
Federal Hybrids	4880 SSTAX RIB	98	266.3	17.1	60.0	0.0	26400
Federal Hybrids	5060 SSTAX RIB	100	265.1	16.6	58.6	0.4	28200
Wensman	W8184VT2RIB	95	265.0	16.8	61.5	0.0	29200
Channel	197-50STXRIB	97	264.9	16.8	58.6	0.8	28900
Thunder Seed	4695 RR	95	264.6	16.6	59.0	0.0	28900
Heine Seeds	637STX	99	264.6	16.2	60.0	0.4	29000
Heine Seeds	712STXRIB	100	263.3	16.6	59.4	0.0	29300
Check	CHECK	97	263.3	16.6	59.6	0.0	28400
Wensman	W80993VT2RIB	99	263.2	17.0	59.9	0.0	27800
Peterson Farms Seed	78B98	98	262.9	16.6	60.0	0.0	28900
Miller Hybrids	EX98G	98	261.9	16.8	59.7	0.0	28500
Wensman	W81007VT2RIB	100	261.1	17.4	58.3	0.0	27700
Wensman	W80972VT2RIB	97	261.0	16.6	60.1	0.0	29600
Titan Pro	TP 71-98 2P	98	260.6	16.7	59.7	0.4	28000
Peterson Farms Seed	72D00	100	260.3	17.3	57.1	0.0	27700
Channel	195-18VT2PRIB	95	257.8	17.5	62.2	0.0	28300
Miller Hybrids	RX0961G	96	256.8	16.4	60.1	0.0	28200
Renk	RK595SSTX	99	256.6	15.9	59.2	0.0	28700
Nutech/G2 Genetics	5F-196	96	256.5	16.4	56.9	0.0	29100
Federal Hybrids	4680 VT2P	96	256.3	16.6	58.7	0.0	28200
Heine Seeds	632VT2PRORIB	100	255.7	15.9	59.4	0.0	29300
Trial Average			255.9	16.5	59.0	0.1	28100
LSD (0.05)†			13.9	0.5	0.9	0.7	1100
C.V.‡			3.9	2.0	1.1	-	2.8

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

† 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)
Masters Choice	SP2038	93	254.3	16.2	57.9	0.0	29000
Federal Hybrids	4770 VT2P RIB	97	254.0	16.6	58.8	0.0	28700
Nutech/G2 Genetics	5FN-7099	99	252.3	16.5	56.0	0.0	24100
Federal Hybrids	4760 SSTAX RIB	97	251.6	15.6	57.0	0.4	28900
Heine Seeds	723VT2PRORIB	100	248.0	16.5	59.1	0.0	28500
Federal Hybrids	4558 SSTAX RIB	95	247.1	16.2	58.2	0.0	28300
Hoegemeyer	HPT 6695 AM	96	247.1	16.2	59.8	0.0	26700
Thunder Seed	7993 VT2P	93	246.6	16.5	61.0	0.0	29200
Federal Hybrids	4560 SSTAX RIB	95	245.9	16.1	59.4	0.0	28300
Rob-See-Co	IC4772-3111	97	245.2	15.1	58.7	0.7	29200
Thunder Seed	6794 VT2P	94	244.5	16.1	58.3	0.0	28100
Thunder Seed	4600 RR	100	243.7	16.6	58.5	1.9	28900
Federal Hybrids	4560 VT2P RIB	95	242.6	16.3	60.2	0.0	27900
Rob-See-Co	RC4915-3120	99	242.3	15.0	56.4	0.0	25500
Miller Hybrids	RX94-25VT2P	94	241.6	16.2	59.0	0.0	28300
Thunder Seed	7396 VT2P	96	239.3	15.4	58.3	0.4	28200
Wensman	W90979STXRIB	97	239.1	15.7	58.2	0.4	27400
Hoegemeyer	HPT 6620 AM	96	238.1	16.4	57.0	0.4	28100
Nutech/G2 Genetics	5FN-5096	96	234.3	16.4	59.5	0.0	25400
Rob-See-Co	IC4521-3110	95	225.3	16.6	59.8	0.0	26400
Thunder Seed	7793 SS	94	224.5	16.3	58.7	0.0	27700
Trial Average			255.9	16.5	59.0	0.1	28100
LSD (0.05)†			13.9	0.5	0.9	0.7	1100
C.V.‡			3.9	2.0	1.1	-	2.8

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

† 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 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)
Titan Pro	TP 53-03 2P	103	286.5	17.6	59.9	0.0	28400
Channel	201-05VT2PRIB	101	278.6	17.9	57.8	0.0	27300
Channel	205-19STXRIB	105	274.7	17.4	58.1	0.0	27900
Dairyland Seed	DS-9804SSX	104	274.7	19.7	57.9	0.0	28000
Channel	203-01STXRIB	103	274.5	17.0	57.5	0.0	27700
Channel	201-28VT2PRIB	101	272.7	16.2	58.9	0.0	28200
Heine Seeds	739VT2PRO	102	271.9	19.0	59.0	0.0	29000
Hoegemeyer	HPT 7224 AM	102	269.4	17.0	58.5	0.4	28400
Heine Seeds	752VT2PRO	105	269.3	18.3	57.8	0.0	27700
Channel	204-74VT2PRIB	104	267.6	18.1	59.4	0.8	27000
Heine Seeds	740VT2PRO	102	267.2	17.8	58.2	0.4	28100
Wensman	W91025STXRIB	102	264.3	16.6	60.0	0.4	27100
Check	CHECK	97	260.8	16.6	59.6	0.0	28600
Nutech/G2 Genetics	X5FN-0306	103	260.1	17.8	59.1	0.0	28500
Heine Seeds	754STXRIB	105	259.7	17.5	60.2	0.4	28900
Renk	RK642SSTX	103	259.4	17.8	60.0	0.0	27300
Nutech/G2 Genetics	5F-601	101	257.5	17.6	57.7	0.0	27000
Nutech/G2 Genetics	X5LN-0308	103	256.6	17.0	59.0	0.0	23500
Titan Pro	TP61-013122A	101	256.4	18.2	60.5	0.0	28000
Wensman	W91018STXRIB	101	253.8	17.0	59.3	0.4	27200
Titan Pro	TP 75-01 SS	101	251.3	16.7	59.2	0.0	28200
Masters Choice	SP2272	102	251.1	17.6	59.8	0.0	28100
Thunder Seed	7603 SS	103	250.7	17.2	58.9	0.0	28400
Rob-See-Co	IC5203-3120	102	250.6	19.1	60.7	0.0	28500
Rob-See-Co	RC5112-3122A	101	250.0	19.0	59.9	1.1	27900
Federal Hybrids	5180 SSTAX RIB	101	249.8	17.5	60.1	0.0	29000
Wensman	W91051STXRIB	105	249.7	19.9	60.2	0.4	26800
Heine Seeds	7410STX	104	248.8	16.6	57.8	0.0	27300
Renk	RK680SSTX	103	248.1	17.6	58.6	0.0	27700
Miller Hybrids	M01-41BRGA	101	247.8	18.1	59.3	0.4	28200
Trial Average			255.9	17.7	58.9	0.1	27400
LSD (0.05)†			14.6	0.8	1.1	0.8	1100
C.V.‡			4.1	3.2	1.3	-	2.9

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

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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)
Peterson Farms Seed	81W01	101	245.5	17.2	57.0	0.0	24300
Dairyland Seed	DS-9802RA	102	243.7	18.2	56.4	0.0	28400
Nutech/G2 Genetics	5F-701	101	239.5	17.0	58.6	0.0	25500
Rob-See-Co	RC53713000GT	103	237.4	18.2	59.9	0.4	28400
Renk	RK675DGVT2P	103	236.8	17.3	58.5	0.0	25400
Wensman	W9325STXRIB	102	232.5	18.9	58.5	0.0	25600
Miller Hybrids	RX02-46VT2P	102	227.2	17.2	56.3	0.0	25500
Hoegemeyer	HPT 7333 AMXT	103	226.6	17.2	59.0	0.0	22900
Trial Average			255.9	17.7	58.9	0.1	27400
LSD (0.05)†			14.6	0.8	1.1	0.8	1100
C.V.‡			4.1	3.2	1.3	-	2.9

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

† 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.