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Location: 4.55 miles south and 1 mile east of Bath (57427) in Brown County, SD  
(GPS: 45.393017, -98.306879)

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes, non-irrigated

Fertilizer: 186-124-0-25S preplant; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: none  
Post: 1 qt Powermax (glyphosate)

Date seeded: 5/10/2017

Date harvested: 11/2/2017

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at Bath, 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	6200VT2PRO	95	<b>249.1</b>	17.4	59.1	3.4	28500
Check	CHECK	97	<b>244.6</b>	18.2	57.3	3.2	27300
Federal Hybrids	4580 VT2P RIB	95	<b>242.4</b>	17.3	58.8	6.7	27700
Thunder Seed	6794 VT2P	94	<b>242.1</b>	17.1	59.1	5.4	28100
Federal Hybrids	4560 VT2P RIB	95	<b>240.7</b>	17.0	59.4	2.3	28100
Heine Seeds	632VT2PRORIB	95	<b>239.5</b>	17.3	58.1	6.8	27700
Dahlman Seed	R47-24VT2PRIB	94	<b>239.4</b>	17.1	58.3	6.7	27900
Miller Hybrids	RX94-25VT2P	94	<b>238.0</b>	16.7	58.3	2.7	27900
Renk	RK566SSTX	94	235.3	17.2	57.2	3.5	28000
Heine Seeds	615VT2PRO	95	235.2	17.3	58.2	2.0	28200
Peterson Farms Seed	77P94	94	235.0	17.0	58.5	3.5	28000
Renk	RK522SSTX	94	234.7	16.6	57.5	0.4	27200
Dahlman Seed	R48-28VT2PRIB	95	234.1	17.3	58.9	1.9	28400
Federal Hybrids	4470 VT2P RIB	94	232.5	17.0	57.7	3.1	27800
Miller Hybrids	RX91-03SS	91	232.4	16.6	58.2	1.5	28600
Federal Hybrids	4180 VT2P	91	231.9	16.4	59.2	8.2	29100
Proseed	1591 VT2P	91	231.4	16.2	59.4	4.8	27600
Thunder Seed	4695 RR	95	231.1	17.2	58.6	2.7	28300
Federal Hybrids	4560 SSTAX RIB	95	230.5	17.2	57.6	1.1	28700
Renk	RK433RR	92	230.4	16.9	58.5	4.7	28300
Channel	193-53STXRIB	93	230.1	16.7	56.8	0.8	28300
Proseed	PX694 VT2P	94	229.1	16.8	58.8	1.2	27900
Wensman	W8184VT2RIB	95	227.7	17.6	55.4	0.8	28200
Wensman	W80931VT2RIB	93	227.6	16.0	58.2	6.5	28600
Nutech/G2 Genetics	5G-293	93	227.0	17.5	58.4	3.8	26000
Wensman	W80928VT2RIB	92	227.0	16.4	57.9	1.9	28400
Heine Seeds	627VT3PRORIB	95	226.9	17.2	58.6	1.2	26400
Thunder Seed	7993 VT2P	93	226.9	17.1	57.9	0.8	27600
Dahlman Seed	R46-27VT2PRIB	92	226.3	16.8	58.4	2.3	28500
Dairyland Seed	DS-7294	94	225.8	17.2	57.2	15.9	27400
<b>Trial Average</b>			227.4	16.9	58.2	4.4	27500
<b>LSD (0.05)†</b>			12.0	0.6	1.0	3.2	1000
<b>C.V.‡</b>			3.8	3.6	1.2	-	2.6

\* 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 (95 day maturity or less)** at Bath, 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	76S92	92	225.5	17.0	57.9	1.6	28000
Wensman	W80947VT2RIB	94	225.1	16.7	59.7	4.9	27000
Wensman	W80945-3110A	94	225.0	17.7	58.3	16.2	26900
Thunder Seed	4791 RR	91	224.3	16.3	58.1	3.7	26700
Channel	195-18VT2PRIB	95	224.0	17.8	60.4	4.2	28400
Federal Hybrids	4185 VT2P RIB	91	222.7	16.5	58.8	7.9	29000
Dairyland Seed	DS-6091	91	221.9	16.6	60.2	10.6	27700
Wensman	W80943VT2RIB	94	221.7	16.1	56.9	1.5	28400
Peterson Farms Seed	72A91	91	220.7	16.3	59.3	3.6	27100
Thunder Seed	6791 VT2P	91	220.0	16.0	56.8	4.5	26800
Federal Hybrids	4558 SSTAX RIB	95	219.9	17.2	56.6	3.7	26400
Rob-See-Co	IC4453-3110	94	219.9	16.9	58.0	10.9	26900
Rob-See-Co	RC4343-3110A	93	219.8	17.1	57.7	10.2	23500
Peterson Farms Seed	81W95	95	219.7	16.9	58.3	0.4	27800
Renk	RK568VT3P	95	217.9	18.4	57.4	4.4	24700
Rob-See-Co	IC4016-3010	90	217.8	16.7	57.7	8.1	25800
Rob-See-Co	IC4521-3110	95	217.8	17.3	56.8	3.3	26200
Thunder Seed	7793 SS	93	217.6	16.7	59.3	3.5	28100
Proseed	1395 VT2P	95	217.0	18.5	59.8	0.4	25900
Federal Hybrids	4160 VT2P RIB	91	211.8	15.9	58.4	2.4	27400
Dairyland Seed	DS-9090SSX	90	211.8	16.9	57.4	0.4	27100
Thunder Seed	4795 DP VT2P	95	196.9	15.1	57.6	11.4	26500
<b>Trial Average</b>			227.4	16.9	58.2	4.4	27500
<b>LSD (0.05)†</b>			12.0	0.6	1.0	3.2	1000
<b>C.V.‡</b>			3.8	3.6	1.2	-	2.6

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

† 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.

Table 2a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, 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	739VT2PRO	102	<b>247.1</b>	20.2	56.5	0.0	27100
Channel	201-28VT2PRIB	101	<b>244.1</b>	18.1	56.0	0.4	26900
Check	CHECK	97	<b>242.5</b>	18.5	56.9	1.1	27900
Nutech/G2 Genetics	5F-196	96	<b>241.2</b>	17.0	56.3	7.0	28100
Channel	197-50STXRIB	97	<b>240.3</b>	18.7	55.2	5.8	28100
Hoegemeyer	6620 AM	96	<b>236.3</b>	16.8	56.3	8.5	27100
Channel	201-05VT2PRIB	101	<b>236.0</b>	19.3	56.0	16.6	27400
Heine Seeds	712STXRIB	100	<b>235.6</b>	18.9	56.4	4.4	27300
Miller Hybrids	EX98G	98	234.4	18.1	57.5	0.4	27300
Thunder Seed	4600 RR	100	233.9	18.3	56.6	5.2	26800
Wensman	W80993VT2RIB	99	233.8	17.7	57.9	11.6	28100
Wensman	W80972VT2RIB	97	233.7	17.0	57.2	0.4	26700
Federal Hybrids	4770 VT2P RIB	97	232.9	18.0	57.6	0.8	26600
Renk	RK608DGV2P	100	231.9	18.5	56.9	0.4	25600
Hoegemeyer	6813 AM	98	230.8	19.1	52.6	19.2	23800
Federal Hybrids	4680 VT2P	96	230.7	17.4	57.5	3.4	25800
Federal Hybrids	4880 VT2P RIB	98	230.1	17.9	58.7	1.7	25200
Hoegemeyer	7166 AM	101	229.5	18.2	57.6	6.1	26900
Dahlman Seed	R48-21VT2PRIB	96	228.9	17.3	58.4	0.4	25900
Proseed	1399 3000GT	99	228.1	19.2	56.5	1.7	25500
Thunder Seed	6798 VT2P	98	227.9	17.3	56.8	5.5	27700
Miller Hybrids	RX0961G	96	227.6	17.4	58.4	2.4	27100
Hoegemeyer	6695 AM	96	227.2	18.0	58.5	2.8	27200
Renk	RK595SSTX	99	226.8	17.9	57.1	5.3	26800
Hoegemeyer	7088 AM	100	226.5	18.5	56.7	14.5	27000
Miller Hybrids	RX96-53SS	96	225.1	17.7	58.2	1.5	28000
Federal Hybrids	5060 SSTAX RIB	100	225.0	19.4	55.3	1.6	26600
Nutech/G2 Genetics	5F-601	101	224.7	18.7	56.7	17.2	27200
Nutech/G2 Genetics	5FN-5096	96	224.6	17.5	57.0	7.8	24900
Nutech/G2 Genetics	5F-701	101	223.9	18.6	58.4	6.9	25300
<b>Trial Average</b>			228.8	18.2	56.5	7.0	26800
<b>LSD (0.05)†</b>			12.1	0.8	1.2	3.3	1000
<b>C.V.‡</b>			3.8	3.3	1.5	-	2.7

\* 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.

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Table 2b. Glyphosate-resistant corn hybrid variety performance results, continued (average of 4 replications) - **Late Season Trial (96 day maturity or more)** at Bath, 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	7396 VT2P	96	223.9	17.2	56.6	2.8	27600
Rob-See-Co	RC4915-3120	99	223.7	19.8	50.9	4.7	25700
Hoegemeyer	6075 AMX	100	222.9	16.2	56.5	24.8	27700
Federal Hybrids	5180 SSTAX RIB	101	222.6	18.1	57.0	1.9	28300
Renk	RK675DGV2P	103	222.5	18.1	55.6	5.0	26200
Thunder Seed	7603 SS	103	222.2	19.9	54.4	4.3	27600
Nutech/G2 Genetics	5FN-7099	99	220.4	19.0	53.0	18.3	23700
Federal Hybrids	4880 SSTAX RIB	98	219.8	19.1	56.6	9.4	26500
Federal Hybrids	4760 VT2P RIB	97	219.5	17.1	55.6	6.3	28000
Heine Seeds	639STXRIB	99	218.7	17.5	56.3	2.4	26900
Peterson Farms Seed	75S96	96	218.7	17.7	57.4	1.9	28500
Rob-See-Co	IC4688-3120	96	218.1	18.2	57.4	48.6	27300
Federal Hybrids	4760 SSTAX RIB	97	214.5	17.7	54.9	10.9	27000
<b>Trial Average</b>			228.8	18.2	56.5	7.0	26800
<b>LSD (0.05)†</b>			12.1	0.8	1.2	3.3	1000
<b>C.V.‡</b>			3.8	3.3	1.5	-	2.7

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

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