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Location: 5 miles south and 2.5 miles east of Bath (57427) in Brown County, SD
(GPS: 45.386746, -98.284948)

Cooperator: Gordon and Roger Locken Farms

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

Fertilizer: 180-96-0-11S 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: 5/4/2016

Date harvested: 11/4/2016

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)
Wensman	W8184VT2RIB	95	250.7	16.0	60.8	0.0	29100
Channel	195-18VT2PRIB	95	249.6	17.4	62.9	0.0	29800
Heine Seeds	615VT2PRO	95	249.6	16.2	59.9	0.0	29400
Dairyland Seed	DS-7294	94	246.7	16.5	61.2	0.4	29100
Proseed	PX 695	95	245.2	16.5	60.8	0.0	29000
Federal Hybrids	4560 SSTAX RIB	95	245.2	16.4	59.0	0.0	29300
Federal Hybrids	4470 VT2P	94	243.6	16.0	60.3	0.0	28000
Peterson Farms Seed	77P94	94	243.4	15.8	59.8	0.0	27300
Heine Seeds	627VT3PRORIB	95	241.4	16.3	61.5	0.4	28400
Federal Hybrids	4160 VT2P RIB	91	240.7	15.3	59.9	0.0	29100
Thunder Seed	EXP 6791 VT2P	91	239.6	15.3	60.2	0.0	28400
Federal Hybrids	4558 SSTAX RIB	95	237.7	15.4	59.4	0.0	28400
Federal Hybrids	4540 VT3P RIB	95	237.6	16.7	60.5	0.0	28000
Wensman	W80928VT2RIB	92	237.5	15.3	61.0	0.3	29900
Peterson Farms Seed	72A91	91	237.5	15.4	60.8	0.0	29000
Federal Hybrids	3970 VT2P	89	237.5	15.2	60.9	0.0	29300
Thunder Seed	7993 VT2P	93	237.3	15.8	60.2	0.0	28900
Check	Check	99	237.3	15.6	59.1	0.0	28000
Thunder Seed	4695 RR	95	237.2	16.1	60.0	0.4	29400
Wensman	W80952VT2RIB	95	237.1	16.4	58.9	1.1	29100
NuTech/G2 Genetics	5F-894	94	236.5	15.8	58.7	0.0	28600
Renk	RK568VT3P	95	233.1	16.7	61.0	0.0	27100
Wensman	W80931VT2RIB	93	232.2	15.4	59.8	0.0	28700
Peterson Farms Seed	81W95	95	231.8	15.6	59.3	0.0	27700
NuTech/G2 Genetics	5F-091	91	231.1	15.6	60.8	0.0	27700
Federal Hybrids	4520 VT3P RIB	95	230.3	17.1	60.8	0.8	28400
Peterson Farms Seed	76S92	92	229.9	15.7	59.1	0.0	29100
Federal Hybrids	4440 VT3P RIB	94	229.9	16.1	60.7	0.0	27300
Federal Hybrids	4060 VT2P RIB	90	228.1	15.3	59.8	0.4	28600
Federal Hybrids	4240 VT2P RIB	92	228.0	15.8	60.9	0.4	28900
Trial Average			235.4	16.0	60.2	0.2	28300
LSD (0.05)†			13.3	0.5	0.9	0.7	1300
C.V.‡			4.0	2.1	1.1	-	3.3

* 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 (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)
Renk	RK566SSTX	94	224.5	16.0	59.4	0.0	25400
Thunder Seed	101-95 SS	95	223.3	16.6	60.9	0.0	27400
Stine	R9209-32	94	220.0	15.5	60.6	0.0	26200
Stine	9314-20	94	217.6	17.1	58.5	0.4	28400
Renk	RK522SSTX	94	210.0	15.7	60.2	0.9	25000
Trial Average			235.4	16.0	60.2	0.2	28300
LSD (0.05)†			13.3	0.5	0.9	0.7	1300
C.V.‡			4.0	2.1	1.1	-	3.3

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

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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	639STXRIB	99	257.2	16.7	58.2	1.2	29100
NuTech/G2 Genetics	5F-196	96	256.2	16.5	58.4	0.8	28500
NuTech/G2 Genetics	5Z-601	101	255.8	18.0	59.0	0.4	28600
Federal Hybrids	5370 SSTAX	103	254.9	19.0	59.7	3.8	28700
Renk	RK608DGVT2P	100	254.6	16.9	58.0	0.4	28500
Thunder Seed	EXP 7899 SS	99	251.7	16.5	58.6	0.0	28200
Proseed	1399A 3000 GT	99	250.3	17.4	58.6	0.4	29000
Proseed	PX 598	98	249.3	16.7	58.7	0.4	29300
NuTech/G2 Genetics	5F-701	101	248.3	18.1	59.7	0.0	29100
Federal Hybrids	4760 SSTAX RIB	97	246.2	16.9	58.2	1.1	28500
Thunder Seed	7603 SS	103	245.5	17.7	59.5	1.2	28300
Renk	RK595SSTX	99	244.3	16.5	59.5	0.0	28500
Wensman	W80993VT2PRO	99	243.9	17.4	60.6	0.7	29200
Federal Hybrids	5440 SSTAX RIB	104	243.4	19.8	56.5	0.4	27800
Thunder Seed	7396 VT2P	96	242.4	16.1	59.1	1.1	28300
Wensman	W80972VT2PRO	97	241.6	16.1	58.9	0.0	29100
NuTech/G2 Genetics	5F-198	98	241.4	15.8	56.0	0.4	27700
Federal Hybrids	5250 SSTAX RIB	102	240.5	18.0	60.0	0.8	28600
Check	Check	99	239.4	15.9	58.2	0.4	28500
Federal Hybrids	5550 SSTAX RIB	105	237.9	18.9	58.1	3.7	27100
Federal Hybrids	5060 SSTAX RIB	100	237.2	17.4	59.5	0.0	26800
Stine	R9428-32	100	236.7	18.0	59.1	0.4	28300
Wensman	W90962STXRIB	96	236.5	15.4	58.5	1.1	29000
Federal Hybrids	5260 DGVT2P RIB	102	236.1	17.0	61.5	1.5	28600
Channel	197-50STXRIB	97	235.5	16.7	59.4	0.7	28700
Dairyland Seed	DS-9599	99	235.3	18.0	57.6	0.0	28300
Channel	197-68STXRIB	97	234.8	17.0	58.4	0.0	26700
Peterson Farms Seed	55S96	96	234.1	16.5	59.4	0.0	27700
Wensman	W8294VT2RIB	99	233.0	17.6	59.6	0.8	26800
Dairyland Seed	DS-9198RA	98	232.2	15.8	57.2	0.8	28600
Trial Average			238.3	17.1	58.8	0.8	28200
LSD (0.05)†			14.1	0.7	1.1	1.6	1200
C.V.‡			4.2	2.8	1.4	-	3.1

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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)
Federal Hybrids	5140 SSTAX RIB	101	230.6	18.1	59.5	1.2	28500
Renk	RK612SSTX	100	229.6	16.5	58.5	1.6	27300
Federal Hybrids	4870 SSTAX	98	225.5	16.8	61.0	0.0	27200
Dairyland Seed	DS-9701RA	101	224.3	17.6	57.0	4.6	28600
Thunder Seed	6600 VT2P	100	223.9	17.2	59.4	0.4	25800
Renk	RK596SSTX	98	223.6	17.1	59.3	1.2	27400
Proseed	1496 SS	96	204.2	17.1	58.2	0.0	26600
Federal Hybrids	4640 VT3P RIB	96	198.9	15.7	59.5	0.0	28700
Trial Average			238.3	17.1	58.8	0.8	28200
LSD (0.05)†			14.1	0.7	1.1	1.6	1200
C.V.‡			4.2	2.8	1.4	-	3.1

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

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