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Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106941, -97.098865)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 150-100-25 preplant incorporated; 30-10-10 starter

Yield Goal: 200 bu/acre

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: 1 qt Dual II (metolachlor)
Post: 1 qt Roundup PowerMax (glyphosate)

Date seeded: 5/3/2016

Date harvested: 11/1/2016

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (95 day maturity or less)** at South Shore, 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	101-95 SS	95	193.4	19.7	58.5	0.0	26500
Federal Hybrids	4560 SSTAX RIB	95	191.7	18.8	59.8	0.0	28300
Renk	RK566SSTX	94	188.0	19.2	60.6	0.0	27400
Federal Hybrids	4470 VT2P	94	185.7	19.5	59.2	0.0	28200
Thunder Seed	4695 RR	95	185.6	20.3	60.0	0.8	28200
Titan Pro	TP 58-95 SS	95	184.9	19.2	60.2	0.4	28100
Channel	195-18VT2PRIB	95	181.5	21.6	60.0	0.4	28900
Thunder Seed	EXP 6791 VT2P	91	181.5	19.1	58.9	0.0	28400
Federal Hybrids	4558 SSTAX RIB	95	181.2	19.4	59.1	0.0	29000
Check	Check	99	180.7	20.2	58.2	0.0	27800
Wensman	W90941STXRIB	94	180.5	18.8	58.0	0.4	28300
Wensman	W8184VT2RIB	95	179.5	20.5	58.5	0.0	28400
Renk	RK568VT3P	95	178.9	20.6	59.4	0.4	26000
Peterson Farms Seed	76S92	92	178.4	19.4	59.7	0.0	27200
Heine Seeds	615VT2PRO	95	178.2	19.9	58.7	0.0	28500
Federal Hybrids	4540 VT3P RIB	95	175.6	19.2	58.7	0.0	28200
NuTech/G2 Genetics	5F-894	94	175.4	18.5	56.8	0.3	29800
Heine Seeds	627VT3PRORIB	95	175.3	20.3	59.7	0.4	25900
Federal Hybrids	4440 VT3P RIB	94	174.9	20.1	59.9	0.0	27000
Thunder Seed	7993 VT2P	93	174.3	19.3	60.3	0.4	28300
Federal Hybrids	4160 VT2P RIB	91	172.2	19.1	59.4	0.0	28700
Renk	RK522SSTX	94	172.1	19.7	57.4	0.0	26400
Federal Hybrids	4520 VT3P RIB	95	171.6	20.9	60.9	0.4	26800
Peterson Farms Seed	72A91	91	171.5	19.4	59.1	0.0	28700
Stine	R9209-32	94	171.2	19.1	61.3	0.4	26600
Federal Hybrids	4240 VT2P RIB	92	168.0	19.2	59.2	0.0	26500
Federal Hybrids	3970 VT2P	89	167.5	17.3	59.7	0.0	28700
Masters Choice	MCT 4572	95	165.3	19.8	60.0	0.0	26800
Titan Pro	TP 65-90 2P	90	164.1	17.2	60.2	0.0	27700
Stine	9314-20	94	163.0	20.2	57.8	1.2	28000
Trial Average			172.5	19.5	59.3	0.2	27700
LSD (0.05)†			14.0	0.7	0.8	0.8	1100
C.V.‡			5.8	2.5	1.0	-	2.8

* 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 South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Dairyland Seed	DS-7294	94	159.2	19.9	59.4	0.0	28500
Federal Hybrids	4060 VT2P RIB	90	151.0	18.8	59.1	0.0	27200
NuTech/G2 Genetics	5F-091	91	150.1	18.9	58.3	0.5	24100
Proseed	PX 695	95	148.2	19.6	60.2	0.0	28100
Masters Choice	MCT 3891	88	145.5	18.4	60.9	0.4	26900
Titan Pro	TP 61-94 3110A	101	144.7	19.8	59.7	0.4	29500
Trial Average			172.5	19.5	59.3	0.2	27700
LSD (0.05)†			14.0	0.7	0.8	0.8	1100
C.V.‡			5.8	2.5	1.0	-	2.8

* 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 South Shore, 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	5Z-601	101	208.3	21.1	57.6	0.8	29100
Channel	197-50STXRIB	97	195.2	20.6	58.6	0.0	28700
Dairyland Seed	DS-9701RA	101	193.0	22.2	58.3	0.4	27900
Thunder Seed	EXP 7899 SS	99	190.2	20.6	57.4	0.4	27900
Wensman	W9288STXRIB	98	189.7	19.0	57.8	0.0	29100
Channel	197-68STXRIB	97	188.0	20.9	59.7	0.0	26100
Federal Hybrids	5250 SSTAX RIB	102	187.7	22.4	59.1	0.0	26700
Thunder Seed	7603 SS	103	186.8	21.3	59.5	0.0	27700
Proseed	1496 SS	96	185.4	19.5	59.0	0.4	24500
Federal Hybrids	5060 SSTAX RIB	100	184.8	20.0	59.5	0.0	27300
Federal Hybrids	5370 SSTAX	103	184.2	23.0	59.2	0.0	28500
Renk	RK608DGV2P	100	184.1	20.4	58.3	0.9	26000
Wensman	W90979STXRIB	97	183.7	20.6	59.8	0.4	27700
Check	Check	99	183.4	20.1	58.0	0.4	26500
Heine Seeds	639STXRIB	99	183.3	21.7	59.1	0.0	28400
Renk	RK595SSTX	99	183.0	20.2	60.5	0.0	29200
Dairyland Seed	DS-9198RA	98	182.4	20.6	58.0	0.0	27400
Federal Hybrids	5140 SSTAX RIB	101	182.4	20.8	58.9	0.0	27400
Federal Hybrids	4640 VT3P RIB	96	182.0	20.4	59.0	0.0	28600
NuTech/G2 Genetics	5F-701	101	181.1	20.4	58.3	1.2	27000
Federal Hybrids	5260 DGV2P RIB	102	180.4	21.2	60.1	0.8	28400
Federal Hybrids	5440 SSTAX RIB	104	178.8	24.1	55.7	0.8	26900
Wensman	W90962STXRIB	96	177.8	20.1	57.5	0.0	28300
Wensman	W80972VT2PRO	97	177.0	22.8	57.8	0.0	29000
Dairyland Seed	DS-9599	99	176.6	23.0	55.8	0.0	26100
Peterson Farms Seed	55S96	96	176.4	20.7	59.0	0.4	28200
Wensman	W90994STXRIB	99	176.0	21.1	56.5	0.0	28300
Proseed	PX 598	98	175.8	22.3	57.6	0.0	28200
Renk	RK596SSTX	98	174.1	21.7	59.3	0.0	24900
Federal Hybrids	5550 SSTAX RIB	105	173.9	23.1	56.4	0.0	26900
Trial Average			179.1	21.0	58.3	0.2	27400
LSD (0.05)†			11.4	0.7	1.0	0.9	1000
C.V.‡			4.6	2.4	1.2	-	2.7

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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 South Shore, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Proseed	1399A 3000GT	99	173.4	22.6	56.5	0.0	25900
NuTech/G2 Genetics	5F-198	98	173.1	19.9	55.5	0.0	25800
Thunder Seed	6600 VT2P	100	171.9	19.3	60.3	0.0	25900
Wensman	W80993VT2PRO	99	170.7	19.5	58.3	0.0	28500
Federal Hybrids	4760 SSTAX RIB	97	170.5	20.9	58.5	0.7	29100
NuTech/G2 Genetics	5F-196	96	170.3	19.7	57.1	0.0	26100
Federal Hybrids	4870 SSTAX	98	170.1	19.9	60.0	0.0	25200
Thunder Seed	7396 VT2P	96	169.7	20.1	59.6	0.0	28900
Masters Choice	MCT 4632	96	166.3	22.4	59.0	0.0	26200
Renk	RK612SSTX	100	166.1	20.2	57.3	0.0	26700
Masters Choice	MCT 5371	103	158.8	22.8	57.1	0.0	28200
Masters Choice	MCT 4884	98	158.1	20.9	58.7	0.0	26000
Trial Average			179.1	21.0	58.3	0.2	27400
LSD (0.05)†			11.4	0.7	1.0	0.9	1000
C.V.‡			4.6	2.4	1.2	-	2.7

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