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Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: N 45°06.418' W 097°06.121")

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

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

Fertilizer: 150-100-50 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: Dual II (metolachlor)
Post: Roundup Ultra (glyphosate)

Date seeded: 5/8/2014

Date harvested: 10/30/2015

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)
Titan Pro	2M95-2P	95	220.7	18.4	60.2	1.1	28300
Thunder Seed	7993 VT2PRIB	93	219.6	17.4	58.9	0.0	29800
Federal Hybrids	4550 SSTAX	95	218.4	17.5	60.1	0.0	28600
Channel	195-58STXRIB	95	217.8	17.8	60.1	0.0	28500
Check	Check	99	217.7	18.0	59.7	0.4	28900
Nuseed	9504 VT3P RIB	95	217.6	17.7	60.5	0.4	30400
Renk Seed	RK544SSTX	95	216.9	17.7	59.9	0.0	28200
Proseed	1495SS	95	214.1	18.4	59.0	0.0	29000
Rea Hybrids	3A922-RIB	92	213.2	16.9	60.6	0.0	29500
Federal Hybrids	4450 SSTAX	94	212.7	17.8	59.8	0.4	28100
Titan Pro	2M91-2P	91	211.3	16.6	60.0	0.7	29800
Federal Hybrids	4440 VT3P	94	210.5	17.1	59.7	0.4	28500
Thunder Seed	4695 RR	95	209.2	18.1	60.1	0.4	27600
Wensman	W90941STXRIB	94	208.3	16.6	59.6	1.2	27900
Federal Hybrids	4558 SSTAX	95	208.2	17.1	59.3	0.4	28600
Peterson Farms Seed	PFS 81W95	95	207.3	17.1	58.1	0.0	26700
Peterson Farms Seed	PFS 76S92	92	206.9	17.4	60.2	0.0	27900
Rea Hybrids	4B953-RIB	95	206.2	16.9	59.3	0.0	29200
Thunder Seed	101-95 GENSSRIB	95	204.4	18.7	59.3	0.0	27900
Nuseed	9304 SS RIB	93	204.3	17.4	60.2	0.4	29000
Proseed	1392 VT2P	92	204.0	16.9	59.2	0.4	29900
Federal Hybrids	4160 VT2P	91	203.9	16.6	59.1	0.0	28400
Nuseed	9202 VT2P RIB	92	203.5	15.9	59.5	0.0	26800
Federal Hybrids	4240 VT2P	92	202.5	17.9	60.4	0.0	26800
Federal Hybrids	4250 VT2P	92	201.6	16.0	59.4	1.2	27900
Federal Hybrids	4540 VT3P	95	201.2	17.6	60.0	0.8	28200
Nuseed	9001 VP3220 EZR	90	201.1	17.2	57.2	2.0	26700
Peterson Farms Seed	PFS 75T93	93	200.4	16.9	59.8	2.3	27900
Renk Seed	RK568VT3P	95	199.0	18.0	60.1	0.5	22900
Dairyland Seed	DS-9791RA	91	198.8	16.5	58.5	0.8	28200
Trial Average			202.5	17.4	59.5	0.6	26900
LSD (0.05)†			8.7	0.7	1.0	1.5	900
C.V.‡			3.2	3.0	1.2	-	2.4

* 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)
Channel	190-13VT2PRIB	90	198.7	16.0	58.4	0.0	26900
Legend Seeds	40J595 RR	95	198.5	17.4	61.2	0.0	27300
Wensman	W90935STXRIB	93	198.1	17.6	60.1	1.2	26500
Thunder Seed	4389 RR	89	197.4	15.7	60.4	3.4	28700
Titan Pro	TP-58-95 SS	95	197.1	18.8	59.0	0.5	23600
Legend Seeds	LR 9391 GEN SSRIB	91	196.9	16.7	59.3	0.0	28400
Channel	194-14STXRIB	94	196.3	17.2	58.0	1.3	25300
Rea Hybrids	3A929-RIB	92	192.9	17.9	59.7	0.0	22700
Rea Hybrids	4A930-RIB	93	192.4	18.0	59.0	0.0	24000
Renk Seed	RK522SSTX	94	191.7	17.6	59.0	0.5	23300
Wensman	W7110VT3PRIB	90	190.1	16.4	59.9	1.3	24800
Dairyland Seed	DS-9593	93	180.8	18.0	56.1	2.9	18400
Thunder Seed	4391 VT2	90	175.0	16.8	59.7	1.4	24000
Trial Average			202.5	17.4	59.5	0.6	26900
LSD (0.05)†			8.7	0.7	1.0	1.5	900
C.V.‡			3.2	3.0	1.2	-	2.4

* 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.

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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)
Rea Hybrids	5A992-RIB	99	230.5	17.9	59.1	0.0	29100
Dairyland Seed	DS-9599	99	230.4	20.1	57.2	0.0	27600
Pioneer	P9929AM	99	223.8	18.1	58.3	0.8	28200
Federal Hybrids	5050 VT2P	100	217.4	18.3	59.2	0.4	29800
Federal Hybrids	4640 VT3P	96	216.4	18.6	60.7	0.0	29000
Federal Hybrids	5140 VT2P	101	214.9	18.6	59.2	2.3	29100
Check	Check	99	214.9	18.4	60.7	0.4	27600
Wensman	W9288STXRIB	98	212.8	19.7	58.0	0.4	27600
Wensman	W90962STX	96	212.1	17.0	58.4	0.4	28900
Rea Hybrids	4A962-RIB	96	211.2	18.1	60.0	0.8	27900
Channel	197-68STXRIB	98	211.0	19.3	60.3	0.0	26900
Thunder Seed	7396 VT2PRIB	96	210.1	18.3	59.9	0.0	29500
Renk Seed	RK596SSTX	98	209.5	18.7	58.9	0.0	25500
Legend Seeds	LR 9397 VT3PRIB	97	208.4	18.2	59.8	1.1	29400
Wensman	W70975VT3PRIB	97	207.8	18.0	60.8	0.4	25600
Rea Hybrids	5A993-RIB	99	205.9	19.1	60.9	0.4	29800
Wensman	W90994STX	99	205.9	19.1	58.5	1.4	24000
Rea Hybrids	4A972-RIB	97	204.7	16.9	59.7	0.0	28300
Legend Seeds	LR 9600 GENSSRIB	100	204.5	19.5	58.9	0.0	27300
Dairyland Seed	DS-9198	98	204.4	17.9	56.7	0.4	26000
Wensman	W90979STXRIB	97	204.4	18.4	60.3	0.0	26800
Proseed	13101 SS	101	201.3	19.0	60.3	0.8	26600
Thunder Seed	101-97 GENSSRIB	97	200.9	18.1	59.6	0.0	28500
Legend Seeds	LR 9497 GENSSRIB	97	200.8	18.6	59.0	0.0	27400
Thunder Seed	7603 GENSSRIB	103	200.1	19.0	59.7	1.3	25600
Peterson Farms Seed	PFS 55S96	96	199.5	18.0	60.5	0.0	24700
Dairyland Seed	DS-9701	101	199.5	20.3	58.8	0.5	23400
Proseed	1399A GT3000	99	199.1	20.7	56.2	1.7	18700
Thunder Seed	6600 VT2PRIB	100	198.3	19.3	59.7	0.5	23400
Channel	197-50STXRIB	97	197.5	19.9	58.4	0.5	22900
Trial Average			201.2	18.1	57.6	0.5	26000
LSD (0.05)†			10.1	1.0	1.0	1.5	1000
C.V.‡			3.6	3.8	1.3	-	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.

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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	1496 SS	96	194.1	19.1	60.5	0.0	27400
Federal Hybrids	4760 SSTAX	97	193.6	18.1	59.2	0.9	25200
Pioneer	P9703AM	97	192.4	16.5	58.9	3.3	26900
Trial Average			201.2	18.1	57.6	0.5	26000
LSD (0.05)†			10.1	1.0	1.0	1.5	1000
C.V.‡			3.6	3.8	1.3	-	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.

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