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Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 43°02.774' W 096°54.079')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 120-0-80 preplant; 30-10-10 starter; 60-0-0 sidedress

Yield Goal: 200 bu/acre

Previous crop: Soybeans

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 31,400/acre

Herbicide: Pre: Glyphosate, Dual, Metribuzin, Sharpen
Post: Atrazine, Callisto

Date seeded: 5/16/2014

Date harvested: 10/26/2014

Table 1a. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - **Early Season Trial (110 day maturity or less)** at Beresford, 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	5F-709	109	237.9	19.3	58.1	0.0	28600
Nutech/G2 Genetics	5H-905	105	235.7	17.4	59.2	0.0	29000
Nutech/G2 Genetics	5F-805	105	233.7	18.0	59.9	0.0	28600
Channel	209-53STXRIB	109	232.5	19.7	59.3	0.0	28500
Renk	RK776SSTX	107	232.2	19.2	59.8	0.0	27100
Nutech/G2 Genetics	EXP 5Z-0906	109	231.2	18.0	60.1	0.0	28300
Renk	RK752SSTX	105	230.7	18.8	59.3	0.0	28900
Wensman	W 91073STXRIB	107	230.4	19.4	58.5	0.0	28700
REA Hybrids	6A071-RIB	107	229.5	19.1	58.0	0.4	28700
Titan Pro	2M04-2P	105	229.4	18.5	59.2	0.0	28700
Hoegemeyer	HPT 8066 AM	110	229.3	18.8	57.8	0.4	27300
Great Lakes Hybrids	5918STXRIB	109	228.6	18.4	57.9	0.0	28500
Dairyland Seed	DS-6805	105	228.6	18.5	57.5	0.0	29200
Hoegemeyer	HPT 7876AM	108	228.4	19.0	60.9	0.4	29200
Renk	RK712SSTX	106	228.0	18.5	59.4	0.0	29000
Renk	RK834SSTX	110	227.4	22.3	56.7	0.0	28300
Great Lakes Hybrids	6068STXRIB	110	226.9	19.3	58.6	0.0	27800
Wensman	W 91095STX	109	226.5	19.8	60.1	0.4	28300
Great Lakes Hybrids	5755STXRIB	107	226.4	18.9	58.2	0.0	28400
Titan Pro	2M07-SS	107	225.1	19.2	59.5	0.8	28600
Pioneer	P0533AM1	105	225.0	19.7	60.0	0.0	28900
Channel	209-46STXRIB	109	224.2	19.0	59.0	0.0	29300
Nutech/G2 Genetics	5D-109	109	223.7	20.6	60.0	0.0	27700
Legend Seeds	LR 9405 GENSSRIB	105	222.2	18.4	59.0	0.4	28900
Dairyland Seed	DS-9305	105	221.6	18.6	58.1	0.4	29500
Nutech/G2 Genetics	5F-008	108	221.1	18.7	60.7	0.0	27700
Nutech/G2 Genetics	5H-806	106	219.8	18.0	59.7	0.0	26700
Pioneer	P0636AM	106	219.4	18.0	58.9	0.0	28500
Wensman	W 7330VT3PRIB	103	219.0	16.8	56.4	0.0	28400
Legend Seeds	LR DG9502 VT2PRIB	102	216.4	16.0	58.6	0.4	27900
Trial Average			220.2	18.5	58.9	0.1	28100
LSD (0.05)†			12.1	0.6	1.0	0.5	1100
C.V.‡			3.9	2.4	1.2	-	2.7

* Lodging percentage - stalks broken below the ear as a percentage of the 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 (110 day maturity or less)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Hoegemeyer	HPT 7644 HX/LL/RR	106	216.1	18.2	59.0	0.0	29000
Wensman	W 91051STX	105	215.1	18.2	61.0	0.0	29000
Dairyland Seed	DS-6905	105	215.1	19.4	57.8	0.0	28300
Check	CHECK	99	214.9	16.7	60.4	0.0	29300
Renk	RK699SSTX	105	214.9	18.2	59.6	0.0	27300
Titan Pro	TP 39-05 SS	102	214.7	18.5	59.4	0.4	29100
Wensman	W 7473VT3PRIB	109	214.0	17.6	55.5	0.0	25300
Nutech/G2 Genetics	5V-0705	107	213.4	20.3	56.9	0.0	27600
Pioneer	P0876AM	108	213.0	19.3	61.0	0.0	28900
Hoegemeyer	HPT 7541 HX/LL/RR	105	212.5	17.8	59.9	0.0	27700
Masters Choice	MCT 527 VIPTERA 3111	105	211.5	16.2	57.7	0.4	26400
Channel	205-19STXRIB	95	210.4	17.1	58.8	0.0	27400
Masters Choice	MCT 5663	106	209.4	17.7	57.9	0.0	26900
Legend Seeds	LR 9410 GENSSRIB	110	208.8	18.5	58.9	0.0	28400
Wensman	W 9325STXRIB	102	208.7	17.1	59.3	0.0	27300
Nutech/G2 Genetics	5Z-707	107	203.9	17.9	58.0	0.4	25400
Masters Choice	MCT 5375	103	203.3	18.1	59.6	0.0	26600
Dairyland Seed	DS-9307SSX	107	203.3	17.9	59.1	0.4	28000
Legend Seeds	47J104-3122	104	201.2	18.6	59.7	0.0	26500
Channel	206-55STXRIB	106	196.2	17.9	58.3	0.0	26700
Trial Average			220.2	18.5	58.9	0.1	28100
LSD (0.05)†			12.1	0.6	1.0	0.5	1100
C.V.‡			3.9	2.4	1.2	-	2.7

* Lodging percentage - stalks broken below the ear as a percentage of the 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 2. Glyphosate-resistant corn hybrid variety performance results (average of 4 replications) - Late **Season Trial (111 day maturity or more)** at Beresford, SD.

Variety Information			Agronomic Performance				
Brand	Hybrid	Maturity Rating	Yield Bu/A (15.5%)	Moisture %	Test Wt. (lbs/bu)	Lodging* %	Final Stand (plants/A)
Pioneer	P1197AM	111	233.4	18.5	59.5	0.0	28400
Titan Pro	TP 39-11 SS	111	224.0	22.2	57.6	0.4	26100
Nutech/G2 Genetics	5F-811	111	222.4	20.7	60.3	0.0	25800
REA Hybrids	7A111-RIB	111	221.7	18.2	60.1	0.0	27300
Nutech/G2 Genetics	5Z-111	111	221.6	19.0	59.0	0.0	28400
Channel	211-24STXRIB	111	220.4	18.5	59.7	0.4	28600
Renk	RK860VT3P	111	219.5	19.1	60.4	0.0	26500
Pioneer	P1498AM	114	219.3	20.7	59.9	0.0	28200
Pioneer	P1151AM	111	218.2	20.4	60.1	0.0	27200
REA Hybrids	7A112-RIB	111	218.0	21.2	57.5	0.0	27300
Check	CHECK	99	210.6	16.7	60.6	0.0	28400
Wensman	W 7566VT3PRIB	111	209.6	18.9	56.3	0.4	25200
Channel	211-35STXRIB	111	208.6	19.8	59.8	0.0	26100
Channel	213-28STXRIB	113	198.1	20.8	58.3	0.0	19700
Trial Average			217.5	19.6	59.2	0.1	26700
LSD (0.05)†			12.7	0.8	0.9	0.5	1600
C.V.‡			4.1	2.8	1.1	-	4.2

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