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Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 43°02.776' W 096°54.068')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

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

Fertilizer: 0-78-90 preplant incorporated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Roundup Power Max (glyphosate) + Dual (metolachlor) + Metribuzen
(metribuzen) + Sharpen (saflufenacil)
Post: Roundup Power Max (glyphosate) + Select Max (clethodim)

Insecticide: None

Date seeded: 5/19/2015

Date harvested: 10/13/2015

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Beresford, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3619N R2Y	1.9	76.7	8.3	2.5
Channel	1808R2	1.8	73.7	8.3	2.8
Rend Seed	RS195NR2	1.9	73.4	8.2	1.5
Thunder Seed	3614N R2Y	1.4	72.9	8.2	2.8
Credenz	CZ 1787 RY	1.7	71.6	8.1	2.8
Check	Check	1.4	70.0	8.3	3.0
Thunder Seed	3511N R2Y	1.1	69.9	8.4	4.0
Thunder Seed	3617 R2Y	1.7	68.6	8.2	1.8
Thunder Seed	3114 R2Y	1.4	68.6	8.0	3.0
Sodak Genetics	SD2172R2Y	1.7	68.1	7.9	3.3
Sodak Genetics	SD2101R2Y	1.0	64.7	8.3	1.8
Sodak Genetics	SD2173R2Y	1.7	63.5	8.2	2.0
Trial Average			70.1	8.2	2.6
LSD (0.05)†			2.7	0.2	0.7
C.V.‡			2.7	1.6	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (≥LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Beresford, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-2616/R2Y	2.6	75.9	8.0	2.3
Channel	2108R2	2.1	75.1	8.0	3.5
Pioneer	P31T11R	3.1	74.7	8.3	2.5
Channel	2808R2	2.8	74.2	8.3	2.3
Nutech/G2 Genetics	7273	2.7	74.0	8.2	2.0
Pioneer	P28T08R	2.8	73.9	7.6	2.0
Rea Hybrids	R2016	2.0	73.8	8.1	3.8
Stine	24RE03	2.4	73.6	8.3	3.0
Titan Pro	22M12	2.2	73.4	7.9	2.8
Nutech/G2 Genetics	7250	2.5	73.4	8.1	2.5
Prairie Brand	PB-2188R2	2.1	72.8	8.0	3.3
Great Lakes Hybrids	2551NR2	2.5	72.6	8.1	2.8
Rea Hybrids	R2115	2.1	72.5	8.2	3.8
Rea Hybrids	R2815	2.8	72.4	8.6	2.8
Dairyland Seed	DSR-2110/R2Y	2.1	72.1	8.2	3.3
Wensman	W3200NR2	2.0	71.8	8.1	2.3
Rea Hybrids	R2615	2.6	71.8	8.0	2.8
Channel	2908R2	2.9	71.7	8.3	3.8
Prairie Brand	PB-2600R2	2.6	71.7	8.0	2.0
Prairie Brand	PB-2556R2	2.5	71.4	8.1	3.0
Great Lakes Hybrids	2469R2	2.4	71.3	8.0	3.3
Credenz	CZ 2474 RY	2.4	71.2	8.3	2.8
Prairie Brand	PB-2876R2	2.8	70.9	8.3	2.3
Stine	24RH62	2.4	70.9	8.3	2.3
Rea Hybrids	R2316	2.3	70.9	8.0	2.8
Wensman	W3201NR2	2.0	70.8	8.1	3.0
Wensman	W3226NR2	2.2	70.7	8.0	3.3
Prairie Brand	PB-2419RR2	2.3	70.7	8.1	2.8
Prairie Brand	X15263R2	2.6	70.3	8.1	3.0
Channel	2607R2	2.6	70.3	7.9	3.0
Trial Average			70.5	8.1	2.9
LSD (0.05)†			3.4	0.3	0.7
C.V.‡			3.5	2.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 2 at Beresford, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Channel	2408R2	2.1	70.2	8.1	2.8
Credenz	CZ 2788 RY	2.7	70.2	8.6	2.3
Renk Seed	RS246NR2	2.4	70.1	8.2	2.5
Prairie Brand	PB-2156R2	2.1	69.9	7.9	3.8
Channel	2609R2	2.6	69.7	8.1	4.0
Wensman	W3254NR2	2.5	69.7	8.1	2.5
Stine	29RE22	2.9	69.6	8.4	2.3
Check	Check	1.4	69.4	7.8	4.0
Prairie Brand	PB-2024R2	2.1	69.3	8.1	2.5
Titan Pro	TP-23R04	2.3	69.0	7.9	3.0
Titan Pro	TP-21R55	2.1	69.0	8.0	3.5
Channel	2009R2	2.0	68.9	8.0	3.8
Prairie Brand	PB-2296R2	2.2	68.5	8.1	3.3
Prairie Brand	PB-2486R2	2.4	68.1	8.2	2.3
Channel	2309R2	2.3	68.0	8.0	3.0
Dairyland Seed	DSR-2330/R2Y	2.3	68.0	8.1	2.5
Wensman	W3275NR2	2.7	68.0	8.4	3.8
Wensman	W3228NR2	2.2	67.8	7.7	3.0
Renk Seed	RS213NR2	2.1	67.7	8.1	3.0
Great Lakes Hybrids	2789R2	2.7	67.5	8.1	3.8
Renk Seed	RS216NR2	2.1	66.9	7.8	4.3
Nutech/G2 Genetics	7240	2.4	66.5	8.3	2.3
Stine	28RF02	2.8	66.2	7.9	2.0
Pioneer	P24T93R	2.4	64.4	8.0	2.0
Great Lakes Hybrids	2959NR2	2.9	62.4	8.0	2.0
Trial Average			70.5	8.1	2.9
LSD (0.05)†			3.4	0.3	0.7
C.V.‡			3.5	2.7	-

* Lodging Score (1 = no lodging to 5 = flat on the ground)

† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another. Yield values statistically similar to the overall trial winner are shown in **boldface**.

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