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Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

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

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Dual II Magnum (s-metolachlor)  
Post: 32 oz Roundup Ultramax (glyphosate)

Insecticide: None

Date seeded: 5/17/2016

Date harvested: 9/30/2016

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
NorthStar Genetics	NS 0941NR2	0.9	<b>56.8</b>	12.7	1.0
Check	Check	1.4	<b>56.0</b>	12.2	1.0
Channel	0906R2	0.9	<b>55.4</b>	11.8	1.0
Prairie Brand	PB-1257R2	0.9	<b>55.3</b>	12.0	1.0
Legacy Seed	LS-0837NRR2	0.8	<b>55.1</b>	12.6	1.0
Nutech	6097R2	0.9	<b>54.1</b>	12.4	1.0
Proseed	XT609	0.9	53.6	12.3	1.0
Thunder Seed	3408 R2YN	0.8	53.6	12.5	1.0
Federal Hybrids	F087NRR2Y	0.8	53.4	12.1	1.0
Renk	RS067NR2	0.6	53.2	12.3	1.0
Stine	07RF33	0.7	52.6	12.3	1.0
Stine	09RH26	0.9	52.3	12.4	1.0
Dairyland Seed	DSR-0988/R2Y	0.9	52.0	12.3	1.0
Renk	RS096NR2	0.9	52.0	12.7	1.0
Legacy Seed	LS-0833NRR2	0.8	51.8	12.4	1.0
Dairyland Seed	DSR-0711/R2Y	0.7	51.7	12.1	1.0
Prairie Brand	PB-0987R2	0.8	51.7	12.5	1.0
Wensman	W3080NR2	0.8	51.6	12.6	1.0
Renk	RS084NR2	0.8	51.5	12.3	1.0
Federal Hybrids	F067NRR2Y	0.6	51.5	12.2	1.0
Prairie Brand	PB-0777R2	0.7	50.8	12.5	1.0
Legacy Seed	LS-0935NRR2	0.9	50.8	12.5	1.0
Federal Hybrids	F0960NR2X	0.9	50.8	12.4	1.0
Federal Hybrids	F0860NR2X	0.8	50.7	12.4	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	50.6	12.0	1.0
Prairie Brand	PB-0863R2	0.8	50.5	11.9	1.0
Wensman	W3072NR2	0.7	48.7	12.4	1.0
Wensman	W1067RX	0.6	48.2	12.2	1.0
Mycogen Seeds	5B033R2	0.3	48.1	12.0	1.0
Mycogen Seeds	5B040R2	0.4	46.0	12.2	1.0
Mycogen Seeds	5G009R2	0.09	40.9	12.1	1.0
Mycogen Seeds	5B024R2	0.2	39.0	12.5	1.0
<b>Trial Average</b>			51.3	12.3	1.0
<b>LSD (0.05)†</b>			2.9	0.5	-
<b>C.V.‡</b>			3.9	2.8	-

\* 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 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Legacy Seed	LS-1335NRR2	1.3	<b>58.3</b>	11.1	1.0
Prairie Brand	PB-1611R2	1.6	<b>57.5</b>	12.3	1.0
Prairie Brand	PB-1822R2	1.8	<b>56.7</b>	12.8	1.0
Thunder Seed	3614 R2YN	1.4	<b>56.3</b>	11.2	1.0
Wensman	W3143NR2	1.4	<b>56.2</b>	11.2	1.0
Prairie Brand	PB-1566R2	1.5	55.5	11.6	1.0
Prairie Brand	PB-1947R2	1.9	55.5	14.4	1.0
Stine	10RD03	1.0	55.4	11.0	1.0
Peterson Farms Seed	16R10	1.0	55.2	11.9	1.0
Check	Check	1.4	54.6	11.3	1.0
Wensman	W3160NR2	1.6	54.5	11.5	1.0
Peterson Farms Seed	16X12N	1.2	54.5	11.5	1.0
Prairie Brand	PB-1956R2	1.9	54.3	13.2	1.0
Proseed	XT613	1.3	54.2	11.6	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	54.2	11.0	1.0
Thunder Seed	3511 R2YN	1.1	54.0	11.5	1.0
Dairyland Seed	DSR-1526/R2Y	1.5	53.9	11.1	1.0
Thunder Seed	3619 R2YN	1.9	53.9	11.5	1.0
Federal Hybrids	F106NRR2Y	1.0	53.7	11.8	1.0
Wensman	W1129NRX	1.2	53.5	11.5	1.0
Wensman	W1106NRX	1.0	53.5	11.5	1.0
Peterson Farms Seed	17X13	1.3	53.3	11.5	1.0
Wensman	W3100NR2	1.0	53.2	11.7	1.0
Prairie Brand	PB-1376R2	1.3	53.0	11.3	1.0
Prairie Brand	X16153R2	1.5	53.0	11.1	1.0
Channel	1405R2	1.4	52.9	11.5	1.0
Prairie Brand	PB-1787R2	1.7	52.9	11.6	1.0
Thunder Seed	EXP 8718N	1.8	52.7	12.3	1.0
Federal Hybrids	F1470NR2X	1.4	52.6	11.4	1.0
Federal Hybrids	F1260NR2X	1.2	52.6	11.5	1.0
<b>Trial Average</b>			53.4	11.6	1.0
<b>LSD (0.05)†</b>			2.4	0.6	-
<b>C.V.‡</b>			3.3	3.7	-

\* 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 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	EXP 8710N	1.0	52.5	11.3	1.0
NorthStar Genetics	NS 1390NR2	1.3	52.5	11.7	1.0
Peterson Farms Seed	17X14N	1.4	52.4	11.5	1.0
Proseed	XT614	1.4	52.0	11.7	1.0
Titan Pro	TP-17X26	1.7	51.9	12.7	1.0
NorthStar Genetics	NS 1661 NR2	1.6	51.9	11.3	1.0
Prairie Brand	PB-1466R2	1.4	51.7	11.7	1.0
Proseed	XT610	1.1	51.7	11.4	1.0
Federal Hybrids	F1370NR2X	1.3	51.7	11.4	1.0
Renk	RS107NX	1.0	51.7	11.4	1.0
Thunder Seed	EXP 8713N	1.3	50.7	11.4	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	50.6	11.2	1.0
Legacy Seed	LS-1134NRR2	1.1	49.6	11.9	1.0
NorthStar Genetics	NS 1040NR2	1.1	49.5	11.7	1.0
<b>Trial Average</b>			53.4	11.6	1.0
<b>LSD (0.05)†</b>			2.4	0.6	-
<b>C.V.‡</b>			3.3	3.7	-

\* 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.