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Location: 4.5 miles south and 1.25 miles east of Bath (57427) in Brown County, SD  
(GPS: 45.39281, -98.30567)

Cooperator: Gordon and Roger Locken Farms

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes

Fertilizer: none

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Authority Assist (sulfentrazone + imazethapyr)  
Post: 32 oz Roundup (glyphosate)

Insecticide: none

Date seeded: 5/17/2016

Date harvested: 10/3/2016

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	09RH26	0.9	<b>73.3</b>	9.8	1.3
Renk	RS096NR2	0.9	<b>73.2</b>	9.9	1.0
Legacy Seed	LS-0935NRR2	0.9	<b>73.2</b>	9.9	1.3
Northstar Genetics	NS 0941NR2	0.9	<b>72.9</b>	9.8	1.0
Wensman	W3080NR2	0.8	<b>72.5</b>	9.6	1.0
Thunder Seed	3408 R2YN	0.8	<b>72.4</b>	9.7	1.3
Federal Hybrids	F087NRR2Y	0.8	<b>71.6</b>	9.8	1.0
Legacy Seed	LS-0833NRR2	0.8	<b>71.6</b>	9.8	1.0
Legacy Seed	LS-0837NRR2	0.8	<b>71.5</b>	9.6	1.0
Nutech	6097R2	0.9	<b>71.2</b>	9.3	1.0
Renk	RS084NR2	0.8	<b>71.1</b>	9.7	1.0
Prairie Brand	PB-1257R2	0.9	<b>71.0</b>	9.5	1.3
Dairyland Seed	DSR-0988/R2Y	0.9	<b>71.0</b>	9.7	1.0
Check	Check	1.4	<b>70.3</b>	9.5	1.0
Prairie Brand	PB-0777R2	0.7	<b>70.2</b>	9.8	1.3
Prairie Brand	PB-0987R2	0.8	<b>70.0</b>	9.8	1.0
Channel	0906R2	0.9	69.7	9.3	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	68.8	9.4	1.0
Stine	07RF33	0.7	68.6	9.5	1.0
Renk	RS067NR2	0.6	68.4	9.7	1.0
Proseed	XT609	0.9	67.7	9.8	1.0
Dairyland Seed	DSR-0711/R2Y	0.7	67.0	9.1	1.0
Mycogen Seeds	5B033R2	0.3	66.3	9.7	1.0
Prairie Brand	PB-0863R2	0.8	65.8	9.5	1.0
Federal Hybrids	F067NRR2Y	0.6	63.9	9.7	1.0
Mycogen Seeds	5B040R2	0.4	62.5	9.5	1.0
Federal Hybrids	F0960NR2X	0.9	61.9	9.8	1.0
Federal Hybrids	F0860NR2X	0.8	61.3	9.4	1.3
Wensman	W3072NR2	0.7	61.1	9.7	1.0
Mycogen Seeds	5B024R2	0.2	61.0	9.2	1.0
Mycogen Seeds	5G009R2	0.09	58.0	9.3	1.0
<b>Trial Average</b>			68.4	9.6	1.0
<b>LSD (0.05)†</b>			3.4	0.2	0.3
<b>C.V.‡</b>			3.5	1.5	-

\* 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 Bath, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1566R2	1.5	<b>75.5</b>	9.1	1.0
Thunder Seed	3614 R2YN	1.4	<b>75.3</b>	9.2	1.3
Peterson Farms Seed	16R10	1.0	<b>74.7</b>	9.2	1.0
Wensman	W3100NR2	1.0	<b>74.2</b>	9.4	1.0
Stine	10RD03	1.0	<b>73.8</b>	9.0	1.0
Dairyland Seed	DSR-1526/R2Y	1.5	<b>73.8</b>	9.1	1.0
Federal Hybrids	F106NRR2Y	1.0	<b>73.3</b>	9.4	1.0
Stine	19RF32	1.9	<b>73.0</b>	9.6	1.0
Wensman	W1129NRX	1.2	<b>72.8</b>	9.3	1.0
Prairie Brand	PB-1376R2	1.3	<b>72.7</b>	9.1	1.0
Federal Hybrids	F1370NR2X	1.3	<b>72.5</b>	9.2	1.0
Northstar Genetics	NS 1390NR2	1.3	<b>72.4</b>	9.3	1.0
Prairie Brand	PB-1947R2	1.9	72.3	9.4	1.0
Channel	1405R2	1.4	72.3	9.2	1.0
Legacy Seed	LS-1335NRR2	1.3	72.3	9.2	1.0
Proseed	XT613	1.3	72.2	9.1	1.0
Prairie Brand	PB-1466R2	1.4	71.7	9.2	1.5
Thunder Seed	3511 R2YN	1.1	71.7	9.2	1.3
Northstar Genetics	NS 1661 NR2	1.6	71.6	9.1	1.3
Wensman	W3143NR2	1.4	71.5	9.0	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	71.2	9.1	1.3
Check	Check	1.4	71.2	9.2	1.0
Stine	14RD62	1.4	71.2	9.1	1.0
Peterson Farms Seed	17X13	1.3	70.9	9.2	1.0
Thunder Seed	3619 R2YN	1.9	70.3	9.0	1.0
Thunder Seed	EXP 8713N	1.3	70.2	9.2	1.0
Prairie Brand	PB-1611R2	1.6	70.2	9.1	1.0
Prairie Brand	PB-1822R2	1.8	69.9	9.2	1.0
Renk	RS107NX	1.0	69.5	9.3	1.0
Prairie Brand	X16153R2	1.5	69.2	9.2	1.3
<b>Trial Average</b>			70.0	9.2	1.1
<b>LSD (0.05)†</b>			3.1	0.2	0.4
<b>C.V.‡</b>			3.1	1.3	-

\* 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 Bath, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Legacy Seed	LS-1134NRR2	1.1	69.1	9.3	1.5
Federal Hybrids	F1470NR2X	1.4	69.1	9.1	1.3
Proseed	XT614	1.4	67.8	9.2	2.5
Proseed	XT610	1.0	67.4	9.3	1.0
Northstar Genetics	NS 1040NR2	1.1	66.9	9.3	1.5
Wensman	W1106NRX	1.0	66.4	9.2	1.0
Thunder Seed	EXP 8710N	1.0	66.1	9.3	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	65.8	9.0	1.0
Prairie Brand	PB-1787R2	1.7	65.7	9.3	1.0
Prairie Brand	PB-1956R2	1.9	65.4	9.7	1.0
Peterson Farms Seed	17X14N	1.4	64.6	9.2	1.5
Peterson Farms Seed	16X12N	1.2	63.8	9.3	1.0
Federal Hybrids	F1260NR2X	1.2	61.4	9.3	1.0
Thunder Seed	EXP 8718N	1.8	59.6	9.2	1.0
<b>Trial Average</b>			70.0	9.2	1.1
<b>LSD (0.05)†</b>			3.1	0.2	0.4
<b>C.V.‡</b>			3.1	1.3	-

\* 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.