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Location: 4.5 miles south and 2.5 miles east of Bath (57427) in Brown County, SD  
(GPS: 45.399915, -98.278796)

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: 32 oz Roundup RT3 (glyphosate), 1 oz Aim EC (carfentrazone), 7.5 oz  
Authority Assist (sulfentrazone + imazethapyr)  
Post: 32 oz Roundup Powermax (glyphosate)

Insecticide: none

Date seeded: 5/25/2017

Date harvested: 10/16/2017

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)*
Check	CHECK	1.4	69.2	11.2	1.0
Renk	RS096NR2	0.9	<b>68.0</b>	12.1	1.0
Legacy Seeds	LS-0935N RR2	0.9	<b>67.7</b>	11.9	1.0
Stine	09BA02	0.9	<b>66.7</b>	11.2	1.0
Prairie Brand	PB-0987R2	0.9	<b>66.3</b>	12.1	1.0
Dairyland Seed	DSR-0807/R2Y	0.8	<b>65.9</b>	11.7	1.0
Federal Hybrids	F087N RR2Y	0.8	<b>65.3</b>	12.0	1.0
Dairyland Seed	DSR-0988/R2Y	0.9	<b>65.1</b>	12.3	1.0
Peterson Farms Seed	18X08N	0.8	<b>64.6</b>	11.8	1.3
Stine	09RI62	0.9	63.8	12.3	1.0
Thunder Seed	3408 R2YN	0.8	63.4	11.9	1.0
Renk	RS078NX	0.7	63.0	11.9	1.0
Prairie Brand	PB-0777R2	0.7	62.7	12.0	1.0
Dahlman Seed	6808XN	0.8	62.2	12.1	1.0
Thunder Seed	SB8805N	0.5	61.7	11.5	1.0
Dahlman Seed	6806XN	0.6	61.1	11.6	1.0
Thunder Seed	SB8807N	0.7	60.8	11.5	1.0
Thunder Seed	3606 R2YN	0.6	60.5	12.0	1.0
Federal Hybrids	F0880N R2X	0.8	60.2	11.6	1.0
Legacy Seeds	LS-0836N RR2X	0.8	60.1	11.7	1.0
Thunder Seed	SB8703	0.3	59.6	11.5	1.5
Dahlman Seed	6709XN	0.9	58.7	11.7	1.0
Wensman	W1086NRX	0.8	57.2	11.9	1.0
Peterson Farms Seed	17X09N	0.9	54.7	12.0	1.0
<b>Trial Average</b>			62.8	11.8	1.0
<b>LSD (0.05)†</b>			3.5	0.5	0.2
<b>C.V.‡</b>			4.0	2.5	-

\* 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)*
Dairyland Seed	DSR-1313/R2Y	1.3	<b>74.1</b>	10.7	1.0
Prairie Brand	PB-1566R2	1.5	<b>73.3</b>	11.1	1.0
Prairie Brand	PB-1376R2	1.3	<b>73.0</b>	10.7	1.0
Stine	14RD62	1.4	<b>72.3</b>	11.0	1.0
Federal Hybrids	F1680N R2X	1.6	<b>72.2</b>	10.7	1.0
Check	CHECK	1.4	<b>72.1</b>	10.8	1.0
Prairie Brand	PB-1787R2	1.7	<b>71.2</b>	10.9	1.5
Legacy Seeds	LS-1638N RR2X	1.6	<b>71.1</b>	11.0	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	<b>71.0</b>	10.7	1.0
Federal Hybrids	F147N RR2Y	1.4	<b>70.9</b>	10.8	1.0
Prairie Brand	PB-1947R2	1.9	<b>70.5</b>	11.2	1.0
Thunder Seed	3614 R2YN	1.4	<b>70.5</b>	10.9	1.0
Dairyland Seed	DSR-1475/R2Y	1.4	70.1	10.6	1.0
Wensman	W1165NRX	1.6	70.0	11.2	1.3
Dairyland Seed	DSR-1526/R2Y	1.5	69.6	11.0	1.0
Stine	15BA30	1.5	69.1	11.4	1.3
Wensman	W1129NRX	1.2	68.8	11.2	1.0
Federal Hybrids	F154N RR2Y	1.5	68.7	10.9	1.0
Stine	19BA23	1.9	68.1	12.0	1.0
Prairie Brand	PB-1257R2	1.2	67.7	11.3	1.5
Thunder Seed	SB8710N	1.0	67.6	11.5	1.0
Legacy Seeds	LS-1134N RR2	1.1	67.5	11.5	1.8
Peterson Farms Seed	18X11N	1.1	67.2	11.1	1.0
Stine	13RI32	1.3	67.1	10.9	1.0
Legacy Seeds	LS-1335N RR2	1.3	66.8	11.0	1.0
<b>Trial Average</b>			68.0	11.0	1.1
<b>LSD (0.05)†</b>			3.9	0.4	0.3
<b>C.V.‡</b>			4.1	2.5	-

\* 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 1 at Bath, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	18X13N	1.3	66.2	10.8	1.0
Wensman	W1140NRX	1.4	65.9	10.6	1.0
Federal Hybrids	F1180N R2X	1.1	65.5	11.3	1.0
Legacy Seeds	LS-1136N RR2X	1.1	65.2	11.4	1.0
Stine	14BA03	1.4	65.0	10.7	1.5
Federal Hybrids	F1480N R2X	1.4	64.9	11.1	1.0
Wensman	W1121NRX	1.2	64.9	11.4	1.0
Thunder Seed	SB8811N	1.1	64.1	11.1	1.0
Wensman	W1106NRX	1.0	63.8	11.5	1.0
Renk	RS118NX	1.1	63.4	11.1	1.0
Legacy Seeds	LS-1338N RR2X	1.3	63.3	10.9	1.0
Peterson Farms Seed	18X14N	1.4	62.1	11.2	1.0
Legacy Seeds	LS-1138N RR2X	1.1	60.9	11.0	1.0
<b>Trial Average</b>			68.0	11.0	1.1
<b>LSD (0.05)†</b>			3.9	0.4	0.3
<b>C.V.‡</b>			4.1	2.5	-

\* 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.