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Location: 5 1/4 miles south of St. Lawrence (57381) in Beadle County
(GPS: 44.43811, -98.92559)

Cooperator: Paul Fulton

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: None

Previous crop: Millet

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 6 oz Authority Assist (sulfentrazone + imazethapyr), 32 oz RT3
(glyphosate), 8 oz LV6, 1 qt/100 gal Bronc Max (water conditioner)
Post: 44 oz Roundup Weathermax (glyphosate), 1 qt/100 gal Bronc Max

Insecticide: None

Date seeded: 5/18/2016

Date harvested: 9/29/2016

Table 1a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Groups 0 & 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1947R2	1.9	66.3	9.8	1.0
Federal Hybrids	F185NRR2Y	1.8	64.5	10.2	1.0
Renk	RS147NR2	1.4	63.6	9.3	1.0
Federal Hybrids	F147NRR2Y	1.4	62.2	9.5	1.0
Federal Hybrids	F195NRR2Y	1.9	59.8	9.5	1.0
Prairie Brand	PB-1822R2	1.8	59.4	9.5	1.0
Prairie Brand	X16153R2	1.5	59.0	9.9	1.0
Peterson Farms Seed	17X17N	1.7	58.9	10.1	1.0
Thunder Seed	EXP 8718N	1.8	58.2	10.1	1.0
Prairie Brand	PB-1956R2	1.9	58.2	10.0	1.0
Renk	RS137NX	1.3	58.0	9.5	1.0
Titan Pro	TP-17X26	1.7	57.5	9.7	1.0
Nutech	7127R2	1.2	57.2	9.8	1.0
Federal Hybrids	F1370NR2X	1.3	57.2	9.8	1.0
Thunder Seed	3511 R2YN	1.1	57.1	10.1	1.0
Renk	RS177NX	1.8	57.0	9.8	1.0
Prairie Brand	PB-1787R2	1.7	56.9	9.8	1.0
Prairie Brand	PB-1566R2	1.2	56.8	9.8	1.0
Check	Check	1.4	56.7	9.9	1.0
Titan Pro	TP-19X06	1.9	56.6	9.6	1.0
Nutech	7172R2	1.7	56.3	9.1	1.0
Renk	RS145NR2	1.4	56.3	9.7	1.0
Channel	1808R2	1.8	56.3	10.1	1.0
Federal Hybrids	F1670NR2X	1.6	56.1	9.3	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	56.1	9.4	1.0
Prairie Brand	PB-1611R2	1.6	56.1	9.5	1.0
Peterson Farms Seed	17X14N	1.4	55.8	9.6	1.0
Thunder Seed	3614 R2YN	1.4	55.8	9.8	1.0
Prairie Brand	PB-1376R2	1.3	55.7	9.6	1.0
Renk	RS175NR2	1.7	55.7	9.9	1.0
Trial Average			56.5	9.8	1.0
LSD (0.05)†			4.6	0.7	-
C.V.‡			5.8	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 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Groups 0 & 1 at Miller, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Wensman	W3143NR2	1.4	55.3	10.0	1.0
Federal Hybrids	F154NRR2Y	1.5	55.3	10.1	1.0
Thunder Seed	EXP 8713N	1.3	55.2	10.0	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	55.1	9.6	1.0
Thunder Seed	3619 R2YN	1.9	54.9	9.5	1.0
Thunder Seed	3408 R2YN	0.8	54.9	10.1	1.0
Wensman	W1183NRX	1.8	54.9	10.7	1.0
Federal Hybrids	F1470NR2X	1.4	54.9	9.5	1.0
Peterson Farms Seed	17X13	1.3	54.8	9.8	1.0
Federal Hybrids	F106NRR2Y	1	54.8	10.1	1.0
Wensman	W3160NR2	1.6	54.7	9.9	1.0
Peterson Farms Seed	17X18N	1.8	54.4	9.5	1.0
Renk	RS107NX	1	54.0	9.7	1.0
Peterson Farms Seed	16X12N	1.2	53.8	9.9	1.0
Titan Pro	TP-16X36	1.6	53.8	9.9	1.0
Prairie Brand	PB-1466R2	1.4	53.5	9.8	1.0
Channel	1405R2	1.4	52.8	9.6	1.0
Thunder Seed	EXP 8710N	1	49.9	9.8	1.0
Federal Hybrids	F1260NR2X	1.2	48.6	9.8	1.0
Trial Average			56.5	9.8	1.0
LSD (0.05)†			4.6	0.7	-
C.V.‡			5.8	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 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Miller, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	TP-21X46	2.1	64.3	9.5	1.0
Prairie Brand	PB-2419RR2	2.4	63.7	11.6	1.0
Prairie Brand	PB-2156R2	2.1	61.6	10.1	1.0
Wensman	W3201NR2	2.0	61.6	9.9	1.0
Nutech	7224	2.2	60.1	10.0	1.0
Prairie Brand	PB-2296R2	2.2	59.9	9.4	1.0
Nutech	7217R2	2.1	59.6	10.5	1.0
Dairyland Seed	DSR-2017/R2Y	2.0	58.6	10.0	1.0
Wensman	W3226NR2	2.2	57.4	9.8	1.0
Titan Pro	TP-20R25	2.0	56.8	10.0	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	56.5	10.0	1.0
Federal Hybrids	F2170NR2X	2.1	56.5	9.4	1.0
Wensman	W1208NRX	2.0	56.5	9.6	1.0
Prairie Brand	PB-2600R2	2.6	55.3	15.2	1.0
Check	Check	1.4	55.3	9.5	1.0
Federal Hybrids	F205NRR2Y	2.0	54.8	9.7	1.0
Channel	2108R2	2.1	53.0	10.0	1.0
Prairie Brand	PB-2024R2	2.0	52.6	9.6	1.0
Trial Average			58.0	10.2	1.0
LSD (0.05)†			3.8	0.9	-
C.V.‡			4.7	5.9	-

* 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.