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Location: 3 miles south and 1 mile west of Miller (57362) in Beadle County, SD
(GPS: 44.473122, -99.003088)

Cooperator: Paul Fulton

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

Fertilizer: 22-52-18-12S-5Z preplant

Previous crop: Corn

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
Post: 32 oz Roundup Weathermax (glyphosate), 4 oz Vaquero (clethodim), 4 oz
Crosshair (drift retardant), 1 qt/100 gal Bronc Max

Insecticide: None

Date seeded: 5/30/2017

Date harvested: 10/12/2016

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	3408 R2YN	0.8	49.7	9.6	1.0
Check	CHECK	1.4	49.3	9.5	1.0
Legacy Seeds	LS-0935N RR2	0.9	47.5	9.7	1.0
Legacy Seeds	LS-0836N RR2X	0.8	46.8	9.5	1.0
Thunder Seed	SB8807N	0.7	45.6	9.1	1.0
Thunder Seed	SB8805N	0.5	44.0	9.1	1.0
Thunder Seed	3606 R2YN	0.6	43.6	9.5	1.0
Thunder Seed	SB8703	0.3	40.8	9.0	1.0
Trial Average			45.9	9.4	1.0
LSD (0.05)†			4.8	0.3	-
C.V.‡			7.1	2.1	-

* 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 2a. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	18X13N	1.3	51.3	9.1	1.0
Legacy Seeds	LS-1338N RR2X	1.3	49.3	9.1	1.0
Renk	RS168NX	1.6	49.1	9.2	1.0
Wensman	W1165NRX	1.6	49.1	9.1	1.0
Legacy Seeds	LS-1134N RR2	1.1	48.8	9.0	1.0
Peterson Farms Seed	18X16N	1.6	48.6	9.2	1.0
Federal Hybrids	F154N RR2Y	1.5	48.0	8.8	1.0
Peterson Farms Seed	17X18N	1.8	47.7	9.1	1.0
Check	CHECK	1.4	47.4	9.0	1.0
Legacy Seeds	LS-1638N RR2X	1.6	47.4	9.1	1.0
Legacy Seeds	LS-1138N RR2X	1.1	47.2	9.0	1.0
Thunder Seed	3614 R2YN	1.4	47.1	8.8	1.0
Legacy Seeds	LS-1136N RR2X	1.1	47.1	9.1	1.0
Prairie Brand	PB-1822R2	1.8	46.5	9.2	1.0
Renk	RS147NR2	1.4	46.4	8.8	1.0
Prairie Brand	PB-1566R2	1.5	46.2	9.0	1.0
Prairie Brand	PB-1376R2	1.3	46.1	9.0	1.0
Prairie Brand	PB-1947R2	1.9	46.0	9.3	1.0
Wensman	W1140NRX	1.4	45.9	8.9	1.0
Thunder Seed	SB8811N	1.1	45.8	9.1	1.0
Federal Hybrids	F147N RR2Y	1.4	45.7	9.2	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	45.6	9.0	1.0
Peterson Farms Seed	18X14N	1.4	45.4	9.4	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	44.6	9.2	1.0
Proseed	XT716N	1.6	44.6	9.1	1.0
Trial Average			45.4	9.1	1.0
LSD (0.05)†			4.6	0.4	-
C.V.‡			7.3	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 2b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Miller, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Proseed	XT714N	1.4	44.4	9.1	1.0
Peterson Farms Seed	18X11N	1.1	43.9	9.0	1.0
Wensman	W1184NRX	1.8	43.9	9.1	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	43.7	9.3	1.0
Proseed	XT718N	1.8	43.4	8.9	1.0
Federal Hybrids	F1180N R2X	1.1	42.8	9.0	1.0
Federal Hybrids	F1480N R2X	1.4	42.4	9.2	1.0
Renk	RS148NX	1.4	42.4	9.3	1.0
Federal Hybrids	F1680N R2X	1.6	42.3	9.0	1.0
Prairie Brand	PB-1787R2	1.7	42.2	9.0	1.0
Thunder Seed	SB8710N	1	41.9	9.0	1.0
Legacy Seeds	LS-1335N RR2	1.3	40.3	9.0	1.0
Federal Hybrids	F1880N R2X	1.8	38.4	9.0	1.0
Renk	RS188NX	1.8	37.6	9.0	1.0
Trial Average			45.4	9.1	1.0
LSD (0.05)†			4.6	0.4	-
C.V.‡			7.3	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**.

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Table 3. 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)*
Renk	RS207NX	2.0	47.3	9.0	1.0
Check	CHECK	1.4	46.3	8.9	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	45.8	9.1	1.0
Credenz	CZ 2188 EXP	2.1	45.1	9.0	1.0
Wensman	W1208NRX	2.0	44.7	9.0	1.0
Federal Hybrids	F2170N R2X	2.1	43.1	9.0	1.0
Proseed	XT720N	2.0	42.8	9.2	1.0
Renk	RS208NX	2.0	42.4	9.1	1.0
Wensman	W1218NRX	2.1	42.4	9.1	1.0
Wensman	W1220NRX	2.2	41.8	9.1	1.0
Federal Hybrids	F2080N R2X	2.0	41.4	9.2	1.0
Federal Hybrids	F2280N R2X	2.2	39.9	9.1	1.0
Trial Average			43.5	9.1	1.0
LSD (0.05)†			4.2	0.2	-
C.V.‡			6.9	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.