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Location: 4 miles north and 1/2 mile west of Bancroft (57353) in Kingsbury County
(GPS: 44.543921, -97.767418)

Cooperator: Weerts Farm, Inc.

Soil Type: Houdek-Stickney loam, 0-2% slope, non-irrigated

Fertilizer: None

Previous crop: Corn

Tillage: Minimum-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 14 oz Authority MTZ (sulfentrazone+metribuzin)
Post: 1) 32 oz Roundup Powermax (glyphosate) + 12 oz Andros (fomesafen) + 4
oz Section Three (clethodim); 2) 44 oz Roundup Powermax (glyphosate)

Insecticide: None

Date seeded: 5/30/2017

Date harvested: 10/12/2017

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	62.8	9.5	1.0
Legacy Seeds	LS-0935N RR2	0.9	58.9	9.6	1.0
Thunder Seed	3408 R2YN	0.8	58.3	9.6	1.0
Thunder Seed	SB8807N	0.7	58.1	9.4	1.0
Thunder Seed	3606 R2YN	0.6	55.2	9.5	1.0
Thunder Seed	SB8805N	0.5	54.7	9.1	1.0
Legacy Seeds	LS-0836N RR2X	0.8	51.8	9.5	1.0
Thunder Seed	SB8703	0.3	49.7	9.2	1.0
Trial Average			56.2	9.4	1.0
LSD (0.05)†			3.4	0.2	-
C.V.‡			4.0	1.6	-

* 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 Groups 1 at Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	66.1	10.0	1.0
Prairie Brand	PB-1566R2	1.5	65.8	9.7	1.0
Federal Hybrids	F147N RR2Y	1.4	65.5	9.7	1.0
Prairie Brand	PB-1947R2	1.9	65.4	10.0	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	65.1	9.8	1.0
Renk	RS147NR2	1.4	65.1	9.7	1.0
Peterson Farms Seed	18X16N	1.6	64.2	9.8	1.0
Federal Hybrids	F154N RR2Y	1.5	63.9	9.8	1.0
Prairie Brand	PB-1376R2	1.3	63.9	9.8	1.0
Thunder Seed	3614 R2YN	1.4	63.8	9.5	1.0
Renk	RS168NX	1.6	63.7	9.9	1.0
Wensman	W1184NRX	1.8	63.6	10.0	1.0
Renk	RS188NX	1.8	62.6	10.1	1.0
Proseed	XT718N	1.8	62.4	10.0	1.0
Proseed	XT714N	1.4	62.4	10.0	1.0
Legacy Seeds	LS-1335N RR2	1.3	62.3	9.8	1.0
Peterson Farms Seed	18X13N	1.3	62.2	9.7	1.0
Wensman	W1165NRX	1.6	62.2	9.7	1.0
Legacy Seeds	LS-1638N RR2X	1.6	61.9	9.8	1.0
Prairie Brand	PB-1822R2	1.8	61.9	10.0	1.0
Legacy Seeds	LS-1134N RR2	1.1	61.8	9.7	1.0
Federal Hybrids	F1880N R2X	1.8	61.7	9.8	1.0
Peterson Farms Seed	18X14N	1.4	61.1	9.7	1.0
Prairie Brand	PB-1956R2	1.9	60.9	10.0	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	60.9	9.8	1.0
Trial Average			61.4	9.8	1.0
LSD (0.05)†			3.1	0.3	-
C.V.‡			3.6	2.0	-

* 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 Bancroft, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Proseed	XT716N	1.6	60.8	10.0	1.0
Peterson Farms Seed	18X11N	1.1	60.7	9.8	1.0
Renk	RS148NX	1.4	60.4	9.9	1.0
Prairie Brand	PB-1787R2	1.7	60.0	9.6	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	59.7	10.0	1.0
Federal Hybrids	F1180N R2X	1.1	59.6	9.8	1.0
Thunder Seed	SB8811N	1.1	59.5	9.9	1.0
Federal Hybrids	F1680N R2X	1.6	59.0	10.0	1.0
Federal Hybrids	F1480N R2X	1.4	58.6	10.0	1.0
Peterson Farms Seed	17X18N	1.8	58.2	9.8	1.0
Legacy Seeds	LS-1138N RR2X	1.1	57.1	9.6	1.0
Thunder Seed	SB8710N	1.0	55.7	9.7	1.0
Wensman	W1173NRX	1.7	55.5	9.6	1.0
Legacy Seeds	LS-1136N RR2X	1.1	55.4	9.7	1.0
Legacy Seeds	LS-1338N RR2X	1.3	53.3	9.7	1.0
Trial Average			61.4	9.8	1.0
LSD (0.05)†			3.1	0.3	-
C.V.‡			3.6	2.0	-

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-2419R2	2.4	70.8	11.8	1.3
Wensman	W1233RX	2.2	68.3	10.3	1.3
Prairie Brand	PB-2296R2	2.2	67.7	10.2	1.0
Federal Hybrids	F2170N R2X	2.1	67.3	10.2	1.3
Renk	RS207NX	2.0	66.6	10.3	1.0
Check	CHECK	1.4	66.6	9.7	1.0
Wensman	W1220NRX	2.2	66.1	10.3	1.0
Wensman	W1208NRX	2.0	65.4	10.3	1.5
Federal Hybrids	F2080N R2X	2.0	64.5	11.1	1.0
Federal Hybrids	F2280N R2X	2.2	64.1	10.4	1.3
Proseed	XT720N	2.0	63.5	10.8	1.0
Renk	RS208NX	2.0	63.3	11.2	1.0
Wensman	W1218NRX	2.1	63.3	11.1	1.3
Dairyland Seed	DSR-2110/R2Y	2.1	62.8	10.4	1.0
Trial Average			65.7	10.6	1.1
LSD (0.05)†			3.7	0.7	0.5
C.V.‡			3.9	4.7	-

* 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.