

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: 43.046221, -96.901055)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent complex, 1-6% slopes, non-irrigated

Fertilizer: None

Previous crop: Corn (cover crop: Rye)

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Sencor (metribuzin) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 4 oz Latch (drift retardant) + 1% UAN + 1% COC

Insecticide: None

Date seeded: 6/1/2017

Date harvested: 10/17/2017

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Great Lakes Hybrids	1953NR2	1.9	80.3	10.9	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	79.5	11.0	1.0
Check	CHECK	1.4	77.5	11.1	1.0
Thunder Seed	SB8811N	1.1	75.7	11.3	1.0
Thunder Seed	3614 R2YN	1.4	75.5	10.9	1.0
Peterson Farms Seed	18X16N	1.6	75.3	11.1	1.0
Peterson Farms Seed	17X18N	1.8	72.4	10.9	1.0
Thunder Seed	SB8710N	1.0	72.4	11.3	1.0
Trial Average			76.4	11.1	1.0
LSD (0.05)†			2.6	0.5	-
C.V.‡			2.4	3.1	-

* 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 2 at Beresford, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-2616/R2Y	2.6	84.3	10.9	1.0
Prairie Brand	PB-2600R2	2.6	83.2	11.4	1.0
Titan Pro	TP-24X87	2.4	82.4	11.1	1.0
Wensman	W1208NRX	2.0	82.0	10.3	1.0
Great Lakes Hybrids	2063NRX	2.0	81.7	10.3	1.0
Credenz	CZ 2188 BGT	2.1	81.3	10.4	1.0
Renk	RS248NX	2.4	81.2	10.9	1.0
Prairie Brand	PB-2228R2	2.2	81.1	10.1	1.0
Renk	RS265NR2	2.6	80.6	10.8	1.0
Prairie Brand	PB-2197R2	2.1	80.0	10.3	1.0
Great Lakes Hybrids	2469R2	2.4	79.8	10.3	1.0
Titan Pro	TP-24R26	2.4	79.8	10.5	1.0
Stine	28BA02	2.8	79.3	11.3	1.0
Great Lakes Hybrids	2269NR2	2.2	79.2	10.4	1.0
Dyna-Gro	S23RY85	2.3	78.8	10.3	1.0
Prairie Brand	PB-2876R2	2.8	78.8	11.2	1.0
Great Lakes Hybrids	2870NRX	2.8	78.1	10.7	1.0
Stine	26BA32	2.6	78.1	10.7	1.0
Dairyland Seed	DSR-2330/R2Y	2.3	78.1	10.5	1.0
Wensman	W3228NR2	2.3	78.0	10.4	1.0
Peterson Farms Seed	17X21N	2.1	78.0	10.2	1.0
Prairie Brand	PB-2419R2	2.4	77.9	10.1	1.0
Great Lakes Hybrids	2673NRX	2.6	77.8	10.5	1.0
Prairie Brand	PB-2486R2	2.4	77.8	10.6	1.0
Wensman	W1233RX	2.2	77.6	10.3	1.0
Titan Pro	TP-21X46	2.1	77.4	10.2	1.0
Credenz	CZ 2558 BGT	2.5	77.1	10.9	1.0
Dyna-Gro	S26RS75	2.6	76.9	10.7	1.0
Prairie Brand	PB-2296R2	2.2	76.7	10.4	1.0
Titan Pro	TP-28X47	2.8	76.6	10.8	1.0
Trial Average			77.9	10.6	1.0
LSD (0.05)†			3.1	0.4	-
C.V.‡			2.8	2.6	-

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dyna-Gro	S24RY87	2.4	76.4	10.5	1.0
Great Lakes Hybrids	2551NR2	2.5	75.9	10.4	1.0
Check	CHECK	1.4	75.7	10.5	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	75.4	10.3	1.0
Wensman	W1218NRX	2.1	75.4	10.6	1.0
Titan Pro	TP-20X57	2.0	74.8	10.9	1.0
Wensman	W1220NRX	2.2	74.7	10.4	1.0
Titan Pro	TP-26X37	2.6	74.0	10.6	1.0
Great Lakes Hybrids	2372NRX	2.3	73.3	10.2	1.0
Peterson Farms Seed	18X23N	2.3	72.3	10.5	1.0
Renk	RS228NX	2.2	72.2	10.8	1.0
Stine	26XB32	2.6	70.6	10.5	1.0
Trial Average			77.9	10.6	1.0
LSD (0.05)†			3.1	0.4	-
C.V.‡			2.8	2.6	-

* 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.