

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

Location: SDSU (57007) Brookings County, SD
(GPS: 44.319737, -96.771296)

Cooperator: SDSU Research Farm - Jack Ingemansen, manager

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (metolachlor)
Post: 32 oz Roundup Power Max (glyphosate)

Insecticide: None

Date seeded: 5/31/2017

Date harvested: 10/13/2017 (Group 0&1), 10/19/2017 (Group 2)

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Brookings, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	CHECK	1.4	64.9	10.2	1.0
Legacy Seeds	LS-0935N RR2	0.9	64.5	10.4	1.0
Legacy Seeds	LS-0836N RR2X	0.8	64.4	10.3	1.0
Thunder Seed	3408 R2YN	0.8	63.3	10.3	1.0
Thunder Seed	SB8807N	0.7	59.2	10.3	1.0
Thunder Seed	SB8805N	0.5	57.4	9.9	1.0
Thunder Seed	SB8703	0.3	56.9	10.0	2.5
Thunder Seed	3606 R2YN	0.6	54.5	10.2	1.0
Trial Average			60.7	10.2	1.2
LSD (0.05)†			2.7	0.2	0.3
C.V.‡			3.1	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 Group 1 at Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	19BA23	1.9	72.6	11.0	1.0
Wensman	W1184NRX	1.8	70.4	10.5	1.5
Prairie Brand	PB-1787R2	1.7	69.9	9.8	1.3
Prairie Brand	PB-1956R2	1.9	69.0	11.1	1.8
Stine	18XB32	1.8	68.9	10.5	1.3
Federal Hybrids	F154N RR2Y	1.5	68.6	9.8	1.0
Prairie Brand	PB-1566R2	1.5	68.4	10.1	1.0
Renk	RS188NX	1.8	68.0	10.2	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	68.0	10.1	1.8
Federal Hybrids	F1880N R2X	1.8	67.6	10.4	1.3
Dairyland Seed	DSR-1870/R2Y	1.8	67.6	10.3	1.0
Prairie Brand	PB-1822R2	1.8	67.2	10.0	1.0
Prairie Brand	PB-1947R2	1.9	67.1	10.1	1.3
Federal Hybrids	F1680N R2X	1.6	67.0	10.1	1.5
Titan Pro	TP-14X27	1.4	66.9	10.0	1.0
Titan Pro	TP-18X97	1.8	66.7	10.6	1.0
Check	CHECK	1.4	66.4	9.7	1.3
Titan Pro	TP-16X77	1.6	66.2	10.1	1.3
Peterson Farms Seed	18X14N	1.4	66.2	10.0	1.0
Peterson Farms Seed	18X11N	1.1	66.2	10.0	1.0
Thunder Seed	SB8710N	1.0	66.0	9.9	1.0
Wensman	W1140NRX	1.4	66.0	9.7	1.0
Legacy Seeds	LS-1335N RR2	1.3	65.9	9.6	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	65.8	10.0	1.3
Thunder Seed	SB8811N	1.1	65.6	9.8	1.0
Legacy Seeds	LS-1338N RR2X	1.3	65.2	9.8	1.0
Peterson Farms Seed	17X18N	1.8	65.2	9.9	1.0
Wensman	W1165NRX	1.6	65.0	10.0	1.3
Legacy Seeds	LS-1138N RR2X	1.1	65.0	9.8	1.0
Renk	RS147NR2	1.4	64.9	9.8	1.3
Trial Average			66.2	10.0	1.2
LSD (0.05)†			2.8	0.4	0.5
C.V.‡			3.0	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 Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Renk	RS147NR2	1.4	64.9	9.8	1.3
Peterson Farms Seed	18X16N	1.6	64.7	10.0	1.8
Wensman	W1173NRX	1.7	64.7	10.0	1.5
Stine	19RF32	1.9	64.5	10.0	1.0
Renk	RS168NX	1.6	64.0	10.0	1.8
Renk	RS148NX	1.4	64.0	9.9	1.0
Legacy Seeds	LS-1134N RR2	1.1	63.9	10.1	2.3
Thunder Seed	3614 R2YN	1.4	63.5	9.7	1.0
Peterson Farms Seed	18X13N	1.3	63.4	9.8	1.0
Legacy Seeds	LS-1638N RR2X	1.6	62.9	10.1	1.3
Legacy Seeds	LS-1136N RR2X	1.1	62.4	10.1	1.0
Stine	15BA30	1.5	62.2	10.2	1.0
Trial Average			66.2	10.0	1.2
LSD (0.05)†			2.8	0.4	0.5
C.V.‡			3.0	2.8	-

* 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 Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Dairyland Seed	DSR-2110/R2Y	2.1	69.8	9.1	1.0
Renk	RS207NX	2.0	68.7	9.3	1.5
Wensman	W1208NRX	2.0	68.6	9.2	2.5
Credenz	CZ 2188 EXP	2.1	68.1	9.4	1.3
Titan Pro	TP-21X46	2.1	67.6	9.2	1.5
Prairie Brand	PB-2419R2	2.4	66.7	9.2	1.5
Titan Pro	TP-24X87	2.4	66.2	10.2	1.5
Prairie Brand	PB-2296R2	2.2	65.9	9.3	2.3
Titan Pro	TP-20X57	2.0	65.8	9.4	1.0
Federal Hybrids	F2280N R2X	2.2	65.5	9.2	1.0
Federal Hybrids	F2480N R2X	2.4	65.5	10.0	1.5
Federal Hybrids	F2170N R2X	2.1	65.5	9.2	1.8
Wensman	W1220NRX	2.2	65.3	9.2	1.3
Wensman	W1218NRX	2.1	65.1	9.5	1.5
Check	CHECK	1.4	63.7	9.1	1.0
Renk	RS208NX	2.0	63.1	9.4	1.0
Titan Pro	TP-24R26	2.4	62.8	9.3	1.3
Federal Hybrids	F2080N R2X	2.0	62.0	9.4	1.0
Trial Average			65.9	9.4	1.4
LSD (0.05)†			2.6	0.3	0.6
C.V.‡			2.8	2.2	-

* 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.