

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

Location: 1.5 miles south of Volga in Brookings County, SD  
(GPS: 44.298780, -96.926099)

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II Magnum (metolachlor)  
Post: Roundup Power Max (glyphosate)

Insecticide: None

Date seeded: 5/12/2016

Date harvested: 10/14/2016 (Group 1), 10/17/2016 (Group 2)

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Federal Hybrids	F195NRR2Y	1.9	<b>83.2</b>	11.2	2.5
Prairie Brand	PB-1566R2	1.5	<b>82.9</b>	11.3	2.0
Wensman	W3143NR2	1.4	<b>82.6</b>	11.2	2.3
Wensman	W1129NRX	1.2	<b>82.4</b>	11.4	2.8
Thunder Seed	3614 R2YN	1.4	<b>82.1</b>	11.4	2.5
Dairyland Seed	DSR-1870/R2Y	1.8	<b>81.9</b>	11.3	3.3
Wensman	W3160NR2	1.6	<b>81.7</b>	11.3	2.3
Prairie Brand	PB-1956R2	1.9	<b>81.4</b>	11.3	3.3
NorthStar Genetics	1911NR2	1.9	<b>81.2</b>	11.1	2.8
Stine	19RF32	1.9	<b>81.2</b>	11.3	2.3
Prairie Brand	PB-1947R2	1.9	<b>80.7</b>	11.2	2.3
Prairie Brand	PB-1822R2	1.8	<b>80.6</b>	11.3	3.0
Dairyland Seed	DSR-1721/R2Y	1.7	<b>80.6</b>	11.6	2.5
NorthStar Genetics	1661NR2	1.6	<b>80.3</b>	11.5	2.0
Federal Hybrids	F185NRR2Y	1.8	<b>80.2</b>	11.4	3.3
Renk	RS137NX	1.3	<b>79.9</b>	11.5	2.5
Stine	14RD62	1.4	<b>79.9</b>	11.5	2.3
Prairie Brand	X16153R2	1.5	<b>79.8</b>	11.5	2.0
Peterson Farms Seed	17X18N	1.8	<b>79.7</b>	11.3	3.0
Thunder Seed	3619 R2YN	1.9	<b>79.7</b>	11.1	2.8
NuTech	7172R2	1.7	<b>79.6</b>	11.2	2.0
Channel	1808R2	1.8	<b>79.4</b>	11.3	2.8
Thunder Seed	EXP 8713N	1.3	<b>79.4</b>	11.3	2.5
Check	Check	1.4	<b>79.3</b>	11.3	3.0
Prairie Brand	PB-1611R2	1.6	79.2	11.3	3.3
Renk	RS147NR2	1.4	78.9	11.3	2.3
Prairie Brand	PB-1376R2	1.3	78.7	11.2	2.5
Thunder Seed	3408 R2YN	0.8	78.6	11.6	3.0
Thunder Seed	3511 R2YN	1.1	78.2	11.4	2.8
Titan Pro	TP-19X06	1.9	78.0	11.2	2.8
<b>Trial Average</b>			78.6	11.3	2.7
<b>LSD (0.05)†</b>			3.9	0.2	0.7
<b>C.V.‡</b>			3.6	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 1b. Glyphosate-resistant soybean variety performance results, continued (average of 4 replications) - Maturity Group 1 at Volga, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Prairie Brand	PB-1787R2	1.7	77.9	11.2	3.3
NuTech	7127R2	1.2	77.8	11.5	2.3
Renk	RS145NR2	1.4	77.5	11.4	2.8
Renk	RS177NX	1.8	77.5	11.3	3.0
Renk	RS107NX	1.0	77.2	11.4	2.0
Prairie Brand	PB-1466R2	1.4	77.1	11.5	2.3
Stine	17RH03	1.8	77.0	11.4	3.3
Peterson Farms Seed	16X12N	1.2	76.5	11.3	2.0
Peterson Farms Seed	17X14N	1.4	75.9	11.6	3.0
Thunder Seed	EXP 8710N	1.0	75.9	11.4	2.5
Titan Pro	TP-16X36	1.6	75.5	11.3	3.0
Renk	RS175NR2	1.7	75.3	11.4	2.8
Thunder Seed	EXP 8718N	1.8	75.1	11.4	3.3
Peterson Farms Seed	17X17N	1.7	71.6	11.2	3.3
Titan Pro	TP-17X26	1.7	69.9	11.4	2.5
Wensman	W1183NRX	1.8	67.1	11.3	3.0
<b>Trial Average</b>			78.6	11.3	2.7
<b>LSD (0.05)†</b>			3.9	0.2	0.7
<b>C.V.‡</b>			3.6	1.6	-

\* 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.

Table 3. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Volga, SD).					
Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Titan Pro	TP-21X46	2.1	<b>79.7</b>	12.5	2.8
NorthStar Genetics	2281NR2	2.2	<b>77.3</b>	12.5	2.5
Check	Check	1.4	<b>77.3</b>	12.9	3.0
Wensman	W1208NRX	2.0	<b>77.1</b>	12.4	2.5
NorthStar Genetics	2111NR2	2.1	<b>76.6</b>	12.7	2.0
Dairyland Seed	DSR-2017/R2Y	2.0	<b>76.5</b>	12.5	2.5
Federal Hybrids	F226NRR2Y	2.2	<b>76.5</b>	12.4	2.5
NuTech	7224	2.2	<b>76.4</b>	13.0	2.0
NorthStar Genetics	2031NR2	2.0	75.8	12.6	2.3
Prairie Brand	PB-2419RR2	2.4	75.7	12.3	3.8
Federal Hybrids	F2170NR2X	2.1	75.6	12.4	2.5
Stine	20RD20	2.1	75.0	12.6	2.5
Prairie Brand	PB-2600R2	2.6	74.7	12.8	2.8
Dairyland Seed	DSR-2110/R2Y	2.1	74.7	12.6	2.0
Stine	24RH62	2.4	74.4	12.7	3.0
Titan Pro	TP-20R25	2.0	74.0	12.6	2.8
Federal Hybrids	F205NRR2Y	2.0	73.6	12.7	2.5
Wensman	W3201NR2	2.0	73.4	12.7	3.0
Wensman	W1233RX	2.3	72.8	12.5	3.5
NuTech	7217R2	2.1	72.6	12.9	3.3
Prairie Brand	PB-2296R2	2.2	72.6	12.5	3.8
Prairie Brand	PB-2024R2	2.0	72.6	12.7	2.5
Prairie Brand	PB-2156R2	2.1	72.0	12.4	2.5
Channel	2306R2	2.3	71.5	12.3	3.5
<b>Trial Average</b>			74.9	12.6	2.7
<b>LSD (0.05)†</b>			3.3	0.2	0.6
<b>C.V.‡</b>			3.1	1.0	-

\* 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**.

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