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SOUTH DAKOTA STATE UNIVERSITY®
AGRONOMY, HORTICULTURE & PLANT SCIENCE DEPARTMENT

2018 South Dakota Soybean Variety Trial Results Volga

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: 44.298783°, -96.922157°)
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: 1 pt Dual II Magnum (s-metolachlor) Post: 1 qt Roundup Powermax (glyphosate) + 1 pt Avalanche Ultra (acifluorfen)
Insecticide:	None
Date seeded:	5/18/2018
Date harvested:	10/20/2018

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Prairie Brand	PB-1947R2	1.9	69.5	10.3	1.0
Renk	RS149NX	1.4	68.2	10.1	1.0
Dairyland Seed	DSR-1616/R2Y	1.6	67.6	10.5	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	67.3	10.2	1.0
Dairyland Seed	DSR-1526/R2Y	1.6	66.7	9.7	1.0
Miller Hybrids	19159CRR2	1.9	66.3	10.3	1.0
Proseed	XT 71-80	1.8	65.6	10.2	1.0
Check	CHECK	1.4	65.0	10.2	1.0
LG Seeds	LGS1635RX	1.6	65.0	10.0	1.0
LG Seeds	LGS1667RX	1.6	64.7	10.1	1.0
Legend Seeds	LS 14X862N	1.4	64.5	10.1	1.0
Prairie Brand	PB-1787R2	1.7	64.2	9.9	1.0
Dairyland Seed	DSR-1509R	1.5	64.1	9.9	1.0
LG Seeds	C1838RX	1.8	63.9	10.2	1.0
Peterson Farms Seed	19X10N	1.0	63.6	10.0	1.0
Legend Seeds	LS 17X802N	1.7	63.5	9.8	1.0
Peterson Farms Seed	18X11N	1.1	63.3	10.2	1.0
Renk	RS169NX	1.6	63.3	13.0	1.0
Federal Hybrids	F1490N R2X	1.4	62.7	10.4	1.0
LG Seeds	LGS1575RX	1.5	62.3	10.1	1.0
Renk	RS188NX	1.8	62.2	10.2	1.0
Federal Hybrids	F1680N R2X	1.6	61.9	10.2	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	61.3	9.8	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	61.2	10.3	1.0
Peterson Farms Seed	18X16N	1.6	60.9	9.9	1.0
Federal Hybrids	F1880N R2X	1.8	60.7	10.2	1.0
Federal Hybrids	F1180N R2X	1.1	60.2	9.8	1.0
Federal Hybrids	F1690N R2X	1.6	60.0	10.2	1.0
Legend Seeds	LS 16X923N	1.6	57.6	10.1	1.0
Peterson Farms Seed	19X14N	1.4	56.1	10.0	1.0
Trial Average			63.5	10.2	1.0
LSD (0.05)†			3.0	0.4	-
C.V.‡			3.4	2.9	-

*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.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
LG Seeds	LGS2007RX	2.0	65.3	10.4	1.0
Federal Hybrids	F2170N R2X	2.1	65.0	10.2	1.0
Federal Hybrids	F2190N R2X	2.1	64.5	10.6	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	63.8	10.3	1.0
Federal Hybrids	F2280N R2X	2.2	63.7	10.4	1.0
Federal Hybrids	F2090N R2X	2.0	63.2	10.2	1.0
Legend Seeds	LS 23X920N	2.3	63.1	10.6	1.0
Renk	RS219NX	2.1	62.9	10.1	1.0
LG Seeds	C2126RX	2.1	62.8	10.3	1.3
Check	CHECK	1.4	61.8	10.2	1.3
Legend Seeds	LS 20X963N	2.0	61.1	10.1	1.3
Federal Hybrids	F2290N R2X	2.2	61.1	10.7	1.0
Renk	RS207NX	2.0	60.6	10.3	1.0
LG Seeds	LGS2239RX	2.2	59.3	10.0	1.0
Federal Hybrids	F2380N R2X	2.3	55.9	11.5	1.0
Trial Average			62.2	10.4	1.1
LSD (0.05)†			3.1	0.7	0.4
C.V.‡			3.5	5.1	-

*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.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.