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

2018 South Dakota Soybean Variety Trial Results Miller

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Location:	6 miles south and 1.75 miles east of Miller (57362) in Hand County, SD GPS: 44.413279°, -98.947728°
Cooperator:	Paul Fulton
Soil Type:	Houdek-Prosper loams, 0-2% slopes
Fertilizer:	21-52-18-12S-5Z broadcast preplant
Previous crop:	Corn
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	165,000/acre
Herbicide:	Pre: 22 oz Xtendimax + 32 oz Powermax (glyphosate)+ 64 oz Warrant (acetochlor) + 2.5 qt/100 Serenity Plus + 1 qt/100 gal Rainier Post: 44 oz Powermax (glyphosate) + 1 qt/100 Broncmax
Insecticide:	None
Date seeded:	5/21/2018
Date harvested:	10/18/2018

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
LG Seeds	C1838RX	1.8	71.2	11.6	1.0
Legend Seeds	17X802N	1.7	70.8	11.8	1.0
Check	CHECK	1.4	70.6	12.0	1.0
Prairie Brand	PB-1947R2	1.9	70.6	11.9	1.0
Dairyland Seed	DSR-1870/R2Y	1.8	69.7	11.6	1.0
Dairyland Seed	DSR-1950/R2Y	1.9	68.6	11.8	1.0
Proseed	XT 80-80	1.0	68.1	11.6	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	67.9	11.6	1.0
Peterson Farms Seed	19X14N	1.4	67.7	11.7	1.0
Federal Hybrids	F1180N R2X	1.1	67.5	12.0	1.0
Renk	RS188NX	1.8	67.4	11.9	1.0
Federal Hybrids	F1690N R2X	1.6	67.3	11.9	1.0
Dairyland Seed	DSR-1526/R2Y	1.6	67.2	11.6	1.0
Dairyland Seed	DSR-1509R	1.5	67.1	11.4	1.0
Renk	RS169NX	1.6	66.9	12.4	1.0
Dairyland Seed	DSR-1721/R2Y	1.7	66.8	11.9	1.0
Federal Hybrids	F1880N R2X	1.8	66.6	11.9	1.0
Legend Seeds	14X862N	1.4	66.2	12.2	1.0
Peterson Farms Seed	18X11N	1.1	65.8	12.1	1.0
Peterson Farms Seed	19X10N	1.0	65.5	12.0	1.0
Dairyland Seed	DSR-1616/R2Y	1.6	65.4	12.3	1.0
LG Seeds	LGS1667RX	1.6	65.2	11.9	1.0
Proseed	XT 71-40	1.4	64.7	12.0	1.0
Legend Seeds	16X923N	1.6	64.5	11.8	1.0
Peterson Farms Seed	18X16N	1.6	64.5	12.2	1.0
Federal Hybrids	F1490N R2X	1.4	63.4	12.0	1.0
Renk	RS149NX	1.4	63.4	11.9	1.0
Prairie Brand	PB-1787R2	1.7	63.1	11.8	1.0
Federal Hybrids	F1680N R2X	1.6	61.4	11.9	1.0
Trial Average			66.7	11.9	1.0
LSD (0.05)†			3.5	0.5	-
C.V.‡			3.7	2.5	-

*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 Miller, SD).

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Federal Hybrids	F2280N R2X	2.2	71.8	11.7	1.0
LG Seeds	C2126RX	2.1	69.8	11.7	1.0
Federal Hybrids	F2170N R2X	2.1	69.3	11.6	1.0
Legend Seeds	20X963N	2.0	68.7	11.5	1.0
Federal Hybrids	F2190N R2X	2.1	68.4	11.6	1.0
Legend Seeds	23X920N	2.3	67.7	11.9	1.0
Check	CHECK	1.4	67.7	11.9	1.0
LG Seeds	LGS2007RX	2.0	66.9	11.4	1.0
Renk	RS207NX	2.0	66.8	11.5	1.0
LG Seeds	LGS2239RX	2.2	66.0	11.6	1.0
Federal Hybrids	F2290N R2X	2.2	66.0	12.0	1.0
Renk	RS219NX	2.1	65.4	11.7	1.0
Federal Hybrids	F2380N	2.3	64.3	12.5	1.0
Federal Hybrids	F2090N R2X	2.0	64.1	11.7	1.0
Dairyland Seed	DSR-2110/R2Y	2.1	63.8	11.7	1.0
Trial Average			67.1	11.7	1.0
LSD (0.05)†			4.2	0.6	-
C.V.‡			4.4	3.7	-

*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.

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