



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Soybean Variety Trial Results Miller

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Location: 10 miles north of Miller (57362) in Hand County, SD
(GPS: 44.672659°, -98.988841°)

Cooperator: Harrell Brothers

Soil Type: Houdek-Prosper loams, 0-2% slopes

Fertilizer: none

Previous crop: corn

Tillage: no till

Row spacing: 30 inches

Seeding Rate: 150,000/acre

Herbicide:

- Pre: 44 oz/acre RT3 (glyphosate) + 28 oz/acre Broadaxe XC (sulfentrazone + s-metolachlor) + 4 oz/acre TriCor (metribuzin)
- Post: 1 qt/acre Basagran (bentazon) + 12 oz/acre Vaquero (clethodim) + 4 oz/acre Pursuit (Imazethapyr) + 4 oz/acre Phoenix (lactofen) + 1 pt/acre Dual II Magnum (s-metolachlor)

Insecticide: none

Date seeded: 5/12/2021

Date harvested: 10/8/2021

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Table 1. Glyphosate-resistant soybean performance results (average of four replications - **Maturity Groups 0 & I**) at Miller, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
LG Seeds	LGS1848XF	1.8	51.3	11.3	1.0
LG Seeds	LGS1585XF	1.5	51.2	11.0	1.0
Genesis	G1760E	1.7	50.3	11.2	1.0
Peterson Farms Seed	22XF14	1.4	49.9	11.3	1.0
P3 Genetics	2218E	1.8	49.4	11.1	1.0
Dairyland Seed	DSR-1820E	1.8	47.7	10.7	1.0
Farmer Check	RX1529	1.5	47.3	11.2	1.0
P3 Genetics	2216E	1.6	47.2	11.5	1.0
LG Seeds	LGS1660E3	1.6	47.2	11.5	1.0
Genesis	G1560E	1.5	47.0	11.4	1.0
Federal Hybrids	F1920N RXF	1.9	46.6	10.7	1.0
LG Seeds	LGS1203E3	1.2	46.5	11.4	1.0
Proseed	EL11-83N	1.8	45.9	11.0	1.0
Federal Hybrids	F1720N RXF	1.7	45.4	11.1	1.0
LG Seeds	LGS1867E3	1.8	45.0	11.0	1.0
Dairyland Seed	DSR-1707E	1.7	44.7	11.0	1.0
Check	AG17X8	1.7	44.5	11.2	1.0
Farmer Check	RSC1283E	1.2	42.0	11.3	1.0
ND Crop Imp. Assc.	ND2108GT73	0.8	39.2	11.2	1.0
Trial Average			46.8	11.1	1.0
LSD (0.05)†			2.3	0.4	-
C.V.‡			3.5	2.4	-

* 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.



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Table 2. Glyphosate-resistant soybean performance results (average of four replications - **Maturity Group II**) at Miller, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Renk	RS248NX	2.4	52.1	10.4	1.0
Renk	RS212NXF	2.1	49.5	10.5	1.0
Farmer Check	16G15	1.6	48.7	11.4	1.0
Farmer Check	20G15	2.0	48.6	11.3	1.0
Dairyland Seed	DSR-2040E	2.0	48.3	10.3	1.0
Federal Hybrids	F2210N RXF	2.2	48.0	10.5	1.0
Dairyland Seed	DSR-2112E	2.1	47.8	10.9	1.0
Check	AG17X8	1.7	46.9	11.0	1.0
Renk	RS242NXF	2.4	45.1	10.2	1.0
Trial Average			48.3	10.7	1.0
LSD (0.05)†			1.8	0.3	-
C.V.‡			2.5	1.7	-

* 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.