



**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 South Shore

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Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106939°, -97.102077°)

Cooperator: SDSU Northeast Research Farm

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-0-100-5Z

Previous crop: spring wheat

Tillage: conventional

Row spacing: 30 inches

Seeding Rate: 150,000/acre

Herbicide:
-Pre: 1 pt/acre Dual II Magnum (s-metolachlor) + 5 oz/acre Antares (sulfentrazone)
-Post: 1 qt/acre Roundup (glyphosate)

Insecticide: none

Date seeded: 5/18/2021

Date harvested: 10/4/2021

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Table 1. Glyphosate-resistant soybean performance results (average of four replications - **Maturity Group 0**) at South Shore, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Dairyland Seed	DSR-0920E	0.9	72.8	13.7	2.0
LG Seeds	LGS0822E3	0.8	72.1	13.5	2.0
Genesis	G0750E	0.7	69.3	13.4	2.0
AgriGold	G0801E3	0.8	68.5	13.4	2.0
AgriGold	G0702XF	0.7	67.0	13.1	2.0
Farmer Check	AE0600	0.6	67.0	13.8	2.0
LG Seeds	LGS9039XF	0.9	66.2	13.7	2.0
Federal Hybrids	FO920N RXF	0.9	66.2	14.2	2.0
Genesis	G0760E	0.7	66.1	13.6	2.0
Farmer Check	S09-3E3	0.9	65.6	13.1	2.0
Check	AG17X8	1.7	65.0	14.0	2.0
ND Crop Imp. Assc.	ND2108GT73	0.8	62.9	14.2	2.0
Trial Average			67.4	13.6	2.0
LSD (0.05)†			4.2	0.6	-
C.V.‡			4.4	3.2	-

* 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 I**) at South Shore, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
AgriGold	G1601E3	1.6	77.5	13.2	2.0
LG Seeds	LGS1660E3	1.6	76.5	13.4	2.0
Dairyland Seed	DSR-1450E	1.4	75.6	12.9	2.0
LG Seeds	LGS1585XF	1.5	72.8	12.6	2.0
Dahlman Seed	1215E3N	1.5	72.5	13.2	2.3
Proseed	EL21-23N	1.2	72.2	12.7	2.3
Renk	RS150NX	1.5	71.3	12.7	2.0
Dahlman Seed	7218XF	1.8	71.2	13.4	2.0
Dahlman Seed	6015XN	1.5	70.5	12.8	2.0
LG Seeds	LGS1232XF	1.2	70.5	12.8	2.0
AgriGold	G1857E3	1.8	70.4	12.4	2.0
Proseed	EL91-33N	1.3	70.4	12.6	2.3
Genesis	G1340E	1.3	69.9	13.0	2.0
LG Seeds	LGS1203E3	1.2	69.5	13.1	2.0
AgriGold	G1720XF	1.7	69.1	12.9	2.0
Farmer Check	P16T58E	1.6	69.1	13.0	2.3
Farmer Check	11EC02	1.1	69.0	12.7	2.3
AgriGold	G1202XF	1.2	68.7	13.2	2.0
P3 Genetics	2013E	1.3	68.3	12.7	2.0
Dahlman Seed	6815XN	1.5	68.0	12.8	2.3
Dairyland Seed	DSR-1290E	1.2	67.5	12.6	2.0
P3 Genetics	2214E	1.4	67.5	12.9	2.0
Renk	RS142NXF	1.4	66.9	12.8	2.0
Peterson Farms Seed	22XF12	1.2	66.9	13.2	2.0
Federal Hybrids	F1120N RXF	1.1	66.7	12.6	2.0
Genesis	G1260E	1.2	66.6	13.2	2.5
Dairyland Seed	DSR-1010E	1.0	66.1	13.0	2.3
Federal Hybrids	F1520N RXF	1.5	66.0	12.8	2.3
Federal Hybrids	F1310N RXF	1.3	65.7	12.5	2.3
Check	AG17X8	1.7	65.2	12.8	3.0
P3 Genetics	2212E	1.2	64.2	13.2	2.3
Federal Hybrids	F1720N RXF	1.7	64.0	13.0	2.0
Peterson Farms Seed	22XF10	1.0	63.8	13.1	2.8
Trial Average			69.1	12.9	2.2
LSD (0.05)†			2.4	0.4	-
C.V.‡			2.5	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.
‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.