



**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 Brookings

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**Location:** 3 miles north of Brookings (57006) in Brookings County, SD  
(GPS: 44.363917°, -96.792372°)

**Cooperator:** SDSU Felt Family Research Farm

**Soil Type:** Vienna-Brookings complex, 1-6% slopes

**Fertilizer:** none

**Previous crop:** corn

**Tillage:** conventional

**Row spacing:** 30 inches

**Seeding Rate:** 150,000/acre

**Herbicide:**  
-Pre: 1 pt/acre Medal II (s-metolachlor)  
-Post: 1 qt/acre Roundup PowerMax (glyphosate)

**Insecticide:** none

**Date seeded:** 5/17/2021

**Date harvested:** 10/5/2021



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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
AgriGold	G1601E3	1.6	<b>69.6</b>	11.1	1.0
LG Seeds	LGS1660E3	1.6	<b>69.2</b>	11.3	1.0
Proseed	EL11-53N	1.5	<b>67.5</b>	11.4	1.0
LG Seeds	LGS1203E3	1.2	66.6	11.4	1.3
Genesis	G1760E	1.7	66.5	11.4	1.0
Genesis	G1560E	1.5	66.4	11.5	1.0
P3 Genetics	2216E	1.6	66.2	11.5	1.0
LG Seeds	LGS1848XF	1.8	65.7	10.8	1.0
P3 Genetics	2212E	1.2	65.0	11.3	2.0
Farmer Check	P16A84X	1.6	65.0	11.3	1.0
LG Seeds	LGS1585XF	1.5	64.3	10.9	1.3
Dairyland Seed	DSR-1820E	1.8	64.3	10.7	1.0
AgriGold	G1857E3	1.8	64.3	10.9	2.0
Proseed	EL11-83N	1.8	63.7	10.7	1.3
Peterson Farms Seed	22XF12	1.2	63.3	11.2	1.0
LG Seeds	LGS1867E3	1.8	62.8	10.7	1.3
P3 Genetics	2214E	1.4	62.5	11.2	1.0
Peterson Farms Seed	22XF14	1.4	62.1	11.0	1.3
Dairyland Seed	DSR-1707E	1.7	62.0	10.8	1.0
Farmer Check	P18A98X	1.8	61.9	10.6	1.0
Federal Hybrids	F1120NRXF	1.1	61.8	10.9	1.0
P3 Genetics	2013E	1.3	61.7	11.2	1.0
AgriGold	G1720XF	1.7	61.6	11.3	1.3
Federal Hybrids	F1520NRXF	1.5	60.9	11.1	1.0
Federal Hybrids	F1310NRXF	1.3	60.2	10.9	1.0
Federal Hybrids	F1720NRXF	1.7	59.6	10.9	1.0
Federal Hybrids	F0920NRXF	0.9	59.6	11.0	1.0
ND Crop Imp. Assc.	ND2108GT73	0.8	58.9	10.7	1.0
Peterson Farms Seed	22XF10	1.0	58.7	11.3	1.0
Check	AG17X8	1.7	58.2	11.1	1.0
<b>Trial Average</b>			63.3	11.1	1.1
<b>LSD (0.05)†</b>			2.7	0.3	-
<b>C.V.‡</b>			3.0	2.2	-

\* 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 II**) at Brookings, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Farmer Check	P20A22X	2.0	72.6	10.7	1.0
Renk	RS212NXF	2.1	<b>70.0</b>	11.0	1.0
Dairyland Seed	DSR-2040E	2.0	<b>68.9</b>	10.1	1.0
Renk	RS248NX	2.4	<b>68.1</b>	11.9	1.0
Farmer Check	P21A28X	2.1	<b>66.9</b>	10.4	1.0
Check	AG17X8	1.7	66.3	10.9	1.5
Dairyland Seed	DSR-2112E	2.1	63.6	10.9	1.0
AgriGold	G2081E3	2.0	63.5	10.5	1.0
Renk	RS242NXF	2.4	60.9	10.8	1.0
Miller Hybrids	2095CGT	2.1	60.6	10.6	1.0
Miller Hybrids	2035CGT	2.0	54.0	11.3	1.0
<b>Trial Average</b>			65.0	10.8	1.0
<b>LSD (0.05)†</b>			3.5	0.3	-
<b>C.V.‡</b>			3.7	2.1	-

\* 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.