



# 2019 South Dakota Soybean Variety Trial Results Brookings

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<b>Location:</b>	7.5 miles north of Brookings in Brookings County, SD (GPS: 44.420664°, -96.788200°)
<b>Cooperator:</b>	SDSU Research Farm - Jack Ingemansen, manager
<b>Soil Type:</b>	Kranzburg-Brookings silty clay loams, 0-2% slope
<b>Fertilizer:</b>	None
<b>Previous crop:</b>	Corn
<b>Tillage:</b>	No-till
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	150,000/acre
<b>Herbicide:</b>	Pre: 1 pt Dual II Magnum (s-metolachlor) Post: 1 qt Roundup Powermax (glyphosate)
<b>Insecticide:</b>	None
<b>Date seeded:</b>	6/8/2019
<b>Date harvested:</b>	10/26/2019

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Federal Hybrids	F1109 LLGT	1.1	<b>64.9</b>	13.0	1.0
P3 Genetics	1918B	1.8	<b>62.8</b>	13.4	1.0
Federal Hybrids	F1500N R2X	1.5	<b>62.7</b>	12.8	1.0
P3 Genetics	1911B	1.1	<b>62.6</b>	12.9	1.0
Renk Seed	Genesis G1680GL	1.6	<b>62.6</b>	17.1	1.0
Miller Hybrids	19181 BGL	1.9	<b>62.5</b>	14.6	1.0
Renk Seed	RS149NX	1.4	<b>62.5</b>	12.6	1.0
Peterson Farms Seed	20X15	1.5	<b>62.0</b>	12.6	1.0
LG Seeds	LGS1838RX	1.8	<b>62.0</b>	13.1	1.0
P3 Genetics	1917B	1.6	<b>61.9</b>	16.0	1.0
LG Seeds	LGS1575RX	1.5	<b>61.9</b>	12.9	1.0
Renk Seed	RS153NR2	1.5	60.7	13.0	1.0
Federal Hybrids	F1180N R2X	1.1	60.3	12.4	1.0
Federal Hybrids	F1690N R2X	1.6	60.1	12.7	1.0
LG Seeds	LGS1635RX	1.6	60.0	13.4	1.0
Renk Seed	Genesis G1840E	1.8	59.7	15.6	1.0
P3 Genetics	1911E	1.1	59.0	12.8	1.0
Miller Hybrids	1983 E3	1.9	58.7	19.4	1.0
P3 Genetics	1910E	1.0	58.5	12.3	1.0
Channel	1619R2X	1.6	58.4	13.7	1.0
Renk Seed	RS170NX	1.7	58.3	14.1	1.0
Channel	1920R2X	1.9	58.1	18.0	1.0
Check	CHECK	1.4	57.8	12.6	1.0
Federal Hybrids	F1680N R2X	1.6	57.5	12.7	1.0
Channel	1520R2X	1.5	55.8	14.8	1.0
SDAES	M06R-614008	0.7	38.8	12.2	1.0
<b>Trial Average</b>			59.6	13.9	1.0
<b>LSD (0.05)†</b>			3.2	1.1	-
<b>C.V.‡</b>			3.9	5.8	-

\*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 Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Renk Seed	Genesis G2140E	2.1	<b>69.0</b>	18.4	1.0
Federal Hybrids	F2170N R2X	2.1	65.6	15.8	1.0
Channel	2119R2X	2.1	64.8	15.0	1.0
Federal Hybrids	F2280N R2X	2.2	64.6	14.6	1.0
LG Seeds	LGS2126RX	2.1	64.4	18.5	1.0
Federal Hybrids	F2290N R2X	2.2	64.3	19.6	1.0
LG Seeds	LGS2007RX	2	63.8	14.1	1.0
Federal Hybrids	F2190N R2X	2.1	62.9	14.7	1.0
Renk Seed	RS200NX	2	62.7	21.6	1.0
Federal Hybrids	F2090N R2X	2	61.8	14.3	1.0
Renk Seed	Genesis G2181GL	2.1	59.4	31.4	1.0
Check	CHECK	1.4	56.9	12.8	1.0
<b>Trial Average</b>			63.4	17.6	1.0
<b>LSD (0.05)†</b>			3.2	1.4	-
<b>C.V.‡</b>			3.5	5.5	-

\*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.