



2019 South Dakota Soybean Variety Trial Results Miller

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Location:	1 mile south of Miller (57362) in Hand County, SD (GPS: 44.500341°, -98.991385°)
Cooperator:	Paul Fulton
Soil Type:	Prosper-Stickney loams, nearly level
Fertilizer:	21-52-18-12S-5Z broadcast preplant
Previous crop:	Corn
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	Pre: 32 oz RT3 (glyphosate)+ 8 oz Authority Assist (sulfentrazone + imazethapyr) + 6 oz 2,4-D + 1 qt/100 gal Cynder + 1 gal/100 gal Renegade Post: .75 pt Flexstar (fomesafen) + 4 oz Vaquero (clethodim) + 1 gal/100 gal Renegade + 1 oz Diligence (drift retardent)
Insecticide:	None
Date seeded:	6/9/2019
Date harvested:	10/30/2019

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Peterson Farms Seed	20X15	1.5	71.8	11.7	1.0
Renk Seed	RS153NR2	1.5	71.3	11.6	1.0
Proseed	EL 81-13	1.1	70.8	11.9	1.0
Federal Hybrids	F1500N R2X	1.5	70.5	11.8	1.0
Proseed	EL M91-33	1.3	69.6	11.8	1.0
Peterson Farms Seed	19B18	1.8	68.5	11.8	1.0
Federal Hybrids	F1690N R2X	1.6	68.1	11.7	1.0
Peterson Farms Seed	19B11	1.1	67.7	12.2	1.0
LG Seeds	LGS1575RX	1.5	66.6	11.9	1.0
Peterson Farms Seed	19EN10	1.0	66.5	11.6	1.0
LG Seeds	LGS1776RX	1.7	66.3	11.5	1.0
Check	CHECK	1.4	66.2	11.7	1.0
Renk Seed	Genesis G1840E	1.8	65.8	12.4	1.0
Renk Seed	RS149NX	1.4	65.6	11.7	1.0
Federal Hybrids	F1180N R2X	1.1	65.5	11.7	1.0
Proseed	EL 80-93	0.9	65.0	11.6	1.0
Renk Seed	RS170NX	1.7	65.0	12.1	1.0
Peterson Farms Seed	19EN11	1.1	64.5	12.1	1.0
Proseed	XT 91-10N	1.1	64.3	11.4	1.0
Peterson Farms Seed	19B16	1.6	64.1	11.9	1.0
Channel	1619R2X	1.6	63.9	12.1	1.0
Renk Seed	Genesis G1680GL	1.6	63.2	12.5	1.0
Proseed	XT 90-90N	0.9	62.4	11.7	1.0
LG Seeds	LGS1838RX	1.8	62.2	11.8	1.0
SDAES	M06R-614008	0.7	59.7	11.5	1.0
Channel	1520R2X	1.5	59.5	12.2	1.0
Federal Hybrids	F1680N R2X	1.6	59.4	12.0	1.0
Proseed	XT 80-80N	0.8	59.3	11.6	1.0
Trial Average			65.5	11.8	1.0
LSD (0.05)†			2.8	0.3	-
C.V.‡			3.0	1.7	-

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† 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-resistan soybean variety performance results (average of 4 replications - **Maturity Group 2** at Miller, SD.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Check	CHECK	1.4	68.4	11.8	1.0
Federal Hybrids	F2170N R2X	2.1	68.3	11.8	1.0
Federal Hybrids	F2090N R2X	2.0	67.8	11.7	1.0
Renk Seed	Genesis G2181GL	2.2	67.7	12.3	1.0
LG Seeds	LGS2444RX	2.0	67.7	12.6	1.0
Renk Seed	Genesis G2140E	2.1	66.8	12.4	1.0
Renk Seed	RS200NX	2.0	66.7	12.1	1.0
LG Seeds	LGS2417RX	2.0	66.3	14.6	1.0
LG Seeds	LGS2007RX	2.0	66.1	11.6	1.0
LG Seeds	LGS2126RX	2.0	66.0	11.9	1.0
Federal Hybrids	F2190N R2X	2.1	65.0	11.8	1.0
Federal Hybrids	F2290N R2X	2.2	63.2	11.6	1.0
Federal Hybrids	F2280N R2X	2.2	63.0	11.8	1.0
Trial Average			66.4	12.4	1.0
LSD (0.05)†			3.4	0.5	-
C.V.‡			3.6	2.6	-

* Lodging percentage - stalks broken below the ear as a percentage of the final stand.

† 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.