



OCTOBER 2020

SOUTH DAKOTA STATE UNIVERSITY®  
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

# 2020 South Dakota Soybean Variety Trial Results Plankinton

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<b>Location:</b>	6 miles north and 4 miles west of Plankinton (57368) in Aurora County, SD (GPS: 43.802972° -98.556917°)
<b>Cooperator:</b>	Edinger Brothers
<b>Soil Type:</b>	Houdek-Dudley complex, 0-2% slopes
<b>Fertilizer:</b>	none
<b>Previous crop:</b>	corn
<b>Tillage:</b>	minimum-till
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	150,000/acre
<b>Herbicide:</b>	Pre: 3 oz/acre Fierce (flumioxazin + pyroxasulfone) + 5 oz/acre Metribuzin (metribuzin) + 3.3 pt/acre Prowl H2O (pendimethalin) Post: none
<b>Insecticide:</b>	none
<b>Date seeded:</b>	6/2/2020
<b>Date harvested:</b>	10/16/2020

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
LG Seeds	C1838RX	1.8	<b>62.8</b>	9.2	1.0
P3 Genetics	2117E	1.7	<b>60.3</b>	9.1	1.0
Peterson Farms Seed	21X16N	1.6	<b>59.8</b>	9.3	1.0
LG Seeds	LGS1776RX	1.7	58.4	9.3	1.0
Farmer Check 1	1818R2X	1.8	58.0	9.2	1.0
Farmer Check 2	P19A14X	1.9	57.9	8.8	1.0
Check	14X0	1.4	54.9	9.0	1.0
<b>Trial Average</b>			58.9	9.1	1.0
<b>LSD (0.05)†</b>			3.3	0.4	-
<b>C.V.‡</b>			3.8	3.1	-

\*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.

Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications - **Maturity Group 2** at Plankinton, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
LG Seeds	LGS2007RX	2.0	<b>66.8</b>	8.8	1.0
LG Seeds	LGS2417RX	2.4	<b>66.4</b>	9.0	1.0
Farmer Check 2	P25A54X	2.5	<b>63.8</b>	8.9	1.0
LG Seeds	LGS2444RX	2.4	63.4	8.6	1.0
Dairyland Seed	DSR-2030E	2.0	62.7	9.3	1.0
Genesis	G2550E	2.5	62.2	8.9	1.0
Dairyland Seed	DSR-2424E	2.4	61.9	9.4	1.0
LG Seeds	LGS2126RX	2.1	60.5	8.8	1.0
Dairyland Seed	ESPE20-101E	2.2	59.9	8.8	1.0
Dairyland Seed	DSR-2640E	2.6	59.4	9.4	1.0
Miller Hybrids	2575GT	2.5	59.2	9.3	1.0
Miller Hybrids	2075GT	2.0	58.4	8.7	1.0
Renk Seed	RS248NX	2.4	58.3	8.8	1.0
P3 Genetics	2123E	2.3	58.0	9.1	1.0
P3 Genetics	2121E	2.1	56.5	9.6	1.0
Farmer Check 1	N2358	2.3	55.9	9.1	1.0
Dairyland Seed	DSR-2112E	2.1	55.6	9.3	1.0
Dairyland Seed	DSR-2259E	2.2	55.1	9.1	1.0
Check	14X0	1.4	54.6	8.8	1.0
Dairyland Seed	DSR-2590E	2.5	53.4	9.2	1.0
<b>Trial Average</b>			59.4	9.0	1.0
<b>LSD (0.05)†</b>			3.3	0.3	-
<b>C.V.‡</b>			3.9	2.7	-

\*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.