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 Mt. Vernon

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Location:	5 miles north and 3 miles east of Mt. Vernon (57363) in Davison County, SD (GPS: 43.785839°, -98.205028°)
Cooperator:	Edinger Brothers
Soil Type:	Houdek-Prosper loams, 0-2% slopes
Fertilizer:	none
Previous crop:	corn
Tillage:	no till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	
-Burndown:	2.9 pt/acre Prowl (pendimethanlin) + 11 oz/acre 2,4-D LV6
-Pre:	4 oz/acre Fierce (flumioxazin + pyroxasulfone) + 6 oz/acre Metribuzin
-Post:	2 pt/acre Basagran (bentazon) + 6 oz/acre Clethodim
Insecticide:	none
Date seeded:	5/11/2021
Date harvested:	10/7/2021

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

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Check	AG17X8	1.7	43.6	14.4	1.0
LG Seeds	LGS1848XF	1.8	**43.0**	15.3	1.0
Peterson Farms Seed	22XF18	1.8	**42.8**	14.3	1.0
Farmer Check	P20A22X	2.0	**42.7**	14.1	1.0
Peterson Farms Seed	22XF14	1.4	38.4	13.8	1.0
Farmer Check	LG1769XF	1.7	38.4	14.0	1.0
LG Seeds	LGS1867E3	1.8	36.3	13.6	1.0
Federal Hybrids	F1920N RXF	1.9	34.1	13.1	1.0
P3 Genetics	2218E	1.8	31.2	13.0	1.0
	Trial Average		39.0	13.9	1.0
	LSD (0.05)†		2.5	0.8	-
	C.V.‡		4.4	3.8	-

* 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.

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Table 2. Glyphosate-resistant soybean performance results (average of four replications - **Maturity Group II**) at Mt. Vernon, South Dakota.

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
LG Seeds	LGS2444RX	2.4	**55.5**	12.7	1.0
Dairyland Seed	DSR-2424E	2.4	**55.5**	13.0	1.0
Dairyland Seed	DSR-2040E	2.0	**55.2**	13.6	1.0
LG Seeds	LGS2348E3	2.3	**53.3**	12.7	1.0
P3 Genetics	2220E	2.0	52.7	14.0	1.0
Farmer Check	LG2417RX	2.4	52.7	13.6	1.0
LG Seeds	LGS2105E3	2.1	52.1	13.3	1.0
Renk	RS248NX	2.4	51.4	12.1	1.0
Dairyland Seed	DSR-2590E	2.5	51.2	13.2	1.0
LG Seeds	LGS2491XF	2.4	51.1	12.8	1.0
Renk	RS242NXF	2.4	50.8	13.2	1.0
Genesis	G2550E	2.5	50.7	12.6	1.0
P3 Genetics	2222E	2.2	50.5	13.9	1.0
Federal Hybrids	F2520NRXF	2.5	49.3	12.9	1.0
Genesis	G2460ES	2.4	49.0	14.2	1.0
Genesis	G2060E	2.0	48.8	13.9	1.0
Federal Hybrids	F2320NRXF	2.3	48.6	13.4	1.0
Miller Hybrids	2735CGT	2.7	48.4	13.4	1.0
Genesis	G2260E	2.2	48.3	13.4	1.0
Farmer Check	N2358	2.3	47.4	12.2	1.0
Dairyland Seed	DSR-2112E	2.1	47.3	13.2	1.0
Federal Hybrids	F2210NRXF	2.2	46.3	13.6	1.0
Miller Hybrids	2575CGT	2.5	45.7	13.3	1.0
Dairyland Seed	DSR-2640E	2.6	45.5	13.4	1.0
Check	AG17X8	1.7	45.2	14.0	1.0
Miller Hybrids	2035CGT	2.0	44.9	11.8	1.0
		Trial Average	49.9	13.2	1.0
		LSD (0.05)†	2.6	0.6	-
		C.V.‡	3.6	3.3	-

* 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.