



**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 Conventional Soybean Variety Trial Results Mount Vernon

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Location: 5 miles north and 3 miles east of Mount 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. Conventional soybean performance results (average of four replications - **Maturity Group I**) at Mount Vernon, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ ac@13%)	Moisture (%)	Lodging Score (1-5)*
Virtue	V1821	1.8	43.4	12.2	1.0
SD AES	Brookings	1.7	40.8	12.9	1.0
Check	AG17X8	1.7	40.5	12.5	1.0
Viking Seed	O.1718N	1.7	40.4	12.6	1.0
Sevita International	Candor	1.9	39.1	11.3	1.0
Viking Seed	1518N	1.5	38.4	12.9	1.0
Virtue	V1621	1.6	37.2	12.1	1.0
MN AES	MN1807CN	1.8	37.0	11.1	1.0
Brushvale Seed	N1958	1.9	36.9	12.8	1.0
Richland IFC	MK146	1.1	34.9	13.1	1.0
MN AES	MN1806CN	1.8	33.5	12.1	1.0
MN AES	MN1312CN	1.3	30.0	11.5	1.0
Trial Average			37.7	12.2	1.0
LSD (0.05)†			4.0	3.3	-
C.V.‡			7.3	0.6	-

* 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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2021 South Dakota Conventional Soybean Variety Trial Results Mount Vernon

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Viking Seed	2155N	2.1	47.7	11.3	1.0
Viking Seed	2418N	2.4	46.5	11.9	1.0
Miller Hybrids	2508	2.5	46.0	11.9	1.0
Viking Seed	2018N	2.0	45.8	12.3	1.0
Miller Hybrids	2018	2.0	45.5	12.3	1.0
Miller Hybrids	2368	2.3	42.5	12.8	1.0
Virtue	V2122	2.1	41.9	12.0	1.0
Richland IFC	MK373	2.0	39.0	10.2	1.0
Brushvale Seed	N2358	2.3	38.6	12.0	1.0
Check	AG17X8	1.7	38.5	12.4	1.0
Trial Average			43.2	11.9	1.0
LSD (0.05)†			2.7	0.3	-
C.V.‡			4.3	1.8	-

* 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.