



**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 Brookings

Jonathan Kleinjan | SDSU Extension Agronomist
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Location: 3 miles north of Brookings (57006) in Brookings County, SD
(GPS: 44.363917°, -96.792372°)

Cooperator: SDSU Felt Family Research Farm

Soil Type: Vienna-Brookings complex, 1-6% slopes

Fertilizer: none

Previous crop: corn

Tillage: conventional

Row spacing: 30 inches

Seeding Rate: 150,000/acre

Herbicide:
-Pre: 1 pt/acre Medal II (s-metolachlor)
-Post: 6 oz/acre Section Three (clethodim) + 1 qt/acre COC

Insecticide: none

Date seeded: 5/17/2021

Date harvested: 10/5/2021

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Table 1. Conventional soybean performance results (average of four replications - **Maturity Group 0**) at Brookings, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ ac@13%)	Moisture (%)	Lodging Score (1-5)*
Viking Seed	0821N	0.8	56.1	9.6	1.0
ND AES	ND Dickey	0.8	47.6	9.8	1.3
Check	AG17X8	1.7	46.5	10.3	1.3
SD AES	Codington	0.9	43.8	10.4	1.0
Richland IFC	MK808CN	0.8	40.6	11.1	3.3
Richland IFC	MK0508	0.8	39.3	10.2	2.5
Richland IFC	MK0603	0.6	38.4	9.8	1.5
MN AES	MN0811CN	0.8	37.8	9.3	1.3
Trial Average			43.8	10.0	1.6
LSD (0.05)†			3.0	0.8	-
C.V.‡			4.6	5.1	-

* 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.



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Table 1. Conventional soybean performance results (average of four replications - **Maturity Group I**) at Brookings, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Virtue	V1821	1.8	62.6	9.5	1.0
Virtue	V1621	1.6	57.6	8.9	1.0
Viking	O.1718N	1.7	56.2	9.2	1.0
MN AES	MN1901CN	1.9	55.9	9.4	1.8
SD AES	Brookings	1.7	55.6	9.6	1.0
Viking Seed	1218N	1.2	55.2	9.1	1.0
Brushvale Seed	BS1743	1.7	54.8	9.3	1.0
Viking Seed	1518N	1.5	54.5	9.5	1.0
Miller Hybrids	1589	1.5	53.4	9.2	1.0
Brushvale Seed	BS1512	1.5	51.3	9.6	1.3
Check	AG17X8	1.7	50.6	10.0	1.0
Richland IFC	MK146	1.1	50.4	9.3	1.0
Sevita International	Candor	1.9	49.7	10.1	1.5
MN AES	MN1312CN	1.3	48.9	9.4	1.0
MN AES	M10-238-2036	1.5	48.9	9.5	1.3
MN AES	MN1807CN	1.8	48.7	9.8	1.5
MN AES	MN1806CN	1.8	47.7	9.6	1.0
Richland IFC	EXP008	1.5	45.6	9.5	1.8
Brushvale Seed	N1958	1.9	43.2	9.6	1.0
Sevita International	Skyline	1.1	42.8	10.1	1.0
Richland IFC	EXP007	1.0	42.4	9.6	1.3
Richland IFC	MK41	1.1	40.0	9.2	2.0
Richland IFC	MK9101	1.1	39.3	8.5	1.0
Richland IFC	MK1016	1.0	33.3	9.9	1.8
Trial Average			49.5	9.5	1.2
LSD (0.05)†			3.6	0.4	-
C.V.‡			5.2	3.0	-

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Viking Seed	2418N	2.4	66.3	12.0	1.0
Viking Seed	2155N	2.1	63.8	13.2	1.0
Virtue	V2122	2.1	59.4	13.0	1.0
Viking Seed	2018N	2.0	59.1	12.6	1.0
Miller Hybrids	2368	2.3	54.4	13.4	1.0
Miller Hybrids	2018	2.0	54.1	12.6	1.0
Richland IFC	MK373	2.0	53.8	12.6	1.0
Check	AG17X8	1.7	52.3	12.5	1.0
Brushvale Seed	N2358	2.3	48.4	12.3	1.0
Trial Average			56.9	12.7	1.0
LSD (0.05)†			2.9	0.5	-
C.V.‡			3.5	2.6	-

* 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.