2021 South Dakota Conventional Soybean Variety Trial Results South Shore

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Location:	8.5 miles west of South Shore (57263) in Codington County, SD (GPS: 45.106939°, -97.102077°)
Cooperator:	SDSU Northeast Research Farm
Soil Type:	Kranzburg-Brookings silty clay loams, 0-2% slope
Fertilizer:	0-0-100-5Z
Previous crop:	spring wheat
Tillage:	conventional
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	
-Pre:	1 pt/acre Dual II Magnum (s-metolachlor) + 5 oz/acre Antares (sulfentrazone)
-Post:	10 oz/acre Tapout (clethodim) + .125 oz/acre Harmony SG (thifensulfuron)
Insecticide:	none
Date seeded:	5/18/2021
Date harvested:	10/4/2021

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

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Viking Seed	0821N	0.8	**72.2**	12.0	2.0
Check	AG17X8	1.7	62.7	12.1	2.0
ND AES	ND Dickey	0.8	61.8	11.8	2.0
MN AES	MN0811CN	0.8	60.4	12.1	2.0
SD AES	Codington	0.9	58.9	12.7	2.0
Richland IFC	MK808CN	0.8	56.3	13.2	4.0
Sevita International	Panorama	0.3	53.2	12.1	2.0
Richland IFC	MK0603	0.6	52.1	12.1	3.3
Sevita International	Astor	0.3	51.4	13.1	2.0
Richland IFC	MK0508	0.8	48.9	11.8	2.8
		Trial Average	57.8	12.3	2.4
		LSD (0.05)†	2.0	0.4	-
		C.V.‡	2.4	2.3	-

* 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.

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

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Virtue	V1621	1.6	**68.6**	11.2	2.0
Viking Seed	1518N	1.5	**67.9**	11.7	2.0
Virtue	V1821	1.8	**67.9**	11.1	2.0
Miller Hybrids	1589	1.5	66.0	11.3	2.0
Viking Seed	1218N	1.2	65.7	11.0	2.0
MN AES	MN1901CN	1.9	65.0	11.5	2.0
SD AES	Brookings	1.7	64.3	11.9	2.0
Richland IFC	MK146	1.1	61.7	11.3	2.0
MN AES	EXP M10-238-2036	1.5	60.6	11.8	2.0
Check	AG17X8	1.7	60.4	12.1	2.0
Richland IFC	MK373	2.0	60.4	13.7	2.0
Sevita International	Skyline	1.1	58.4	12.1	2.3
MN AES	MN1807CN	1.8	58.3	11.7	2.0
Richland IFC	MK41	1.1	56.8	11.7	2.8
MN AES	MN1806CN	1.8	55.2	11.7	2.3
MN AES	MN1312CN	1.3	54.7	11.2	2.0
Richland IFC	EXP008	1.5	52.2	11.2	3.0
Richland IFC	EXP007	1.0	50.3	12.0	2.3
Richland IFC	MK1016	1.0	49.2	11.4	3.0
Richland IFC	MK9101	1.1	49.1	10.3	2.0
		Trial Average	59.6	11.6	2.2
		LSD (0.05)†	2.3	0.6	-
		C.V.‡	2.7	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.