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

2020 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: 45.106773°, -97.096968°)
Cooperator:	SDSU Northeast Research Farm - Allen Heuer, manager
Soil Type:	Kranzburg-Brookings silty clay loams, 0-2% slope
Fertilizer:	None
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: 16 oz/acre Tapout (clethodim) + .083 oz/acre Harmony (thifensulfuron)
Insecticide:	None
Date seeded:	5/18/2020
Date harvested:	10/1/2020

Table 1. Conventional soybean variety performance results (average of 4 replications) - **Maturity Group 0** at South Shore, SD.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
ND AES	ND Dickey	0.7	66.0	10.3	1.0
ND AES	ND15-22873	0.7	63.9	10.6	1.0
Check	14X0	1.4	63.4	11.1	1.0
MN AES	EXP M08-362045L	0.5	62.7	10.1	1.0
SD AES	Codington	0.9	62.3	11.1	1.0
Richland IFC	MK808CN	0.8	61.3	11.4	1.3
Sevita International	Panorama	0.3	56.2	10.3	1.0
Richland IFC	MK0603	0.6	54.5	10.6	2.0
Richland IFC	MK0508	0.8	52.3	11.1	2.0
Sevita International	Astor	0.3	52.2	10.5	1.0
Trial Average			59.4	10.7	1.2
LSD (0.05)†			3.2	0.5	-
C.V.‡			3.8	3.3	-

*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. Conventional soybean variety performance results (average of 4 replications) - **Maturity Group 1** at South Shore, SD.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Miller Hybrids	1598	1.5	67.0	11.0	1.0
MN AES	EXP M08-365100	1.8	65.8	12.3	1.0
MN AES	EXP M09-285149	1.5	64.2	11.7	1.0
Check	14X0	1.4	64.1	10.9	1.0
SD AES	Brookings	1.7	62.5	11.1	1.0
Richland IFC	MK808CN	0.8	60.2	11.3	1.0
Richland IFC	MK146	1.1	58.3	11.0	1.0
Sevita International	Skyline	1.1	58.3	11.1	1.0
MN AES	EXP M10-238-2036	1.5	56.7	10.5	1.0
MN AES	MN1806CN	1.8	56.6	11.7	1.0
Richland IFC	MK41	1.1	56.5	10.8	1.0
MN AES	MN1312CN	1.3	55.8	10.8	1.0
Richland IFC	MK1016	1.1	50.1	10.7	1.0
Trial Average			59.7	11.1	1.0
LSD (0.05)†			3.0	0.5	-
C.V.‡			3.5	3.0	-

*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.