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

2020 South Dakota Conventional Soybean Variety Trial Results Plankinton

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Location:	6 miles north and 4 miles west of Plankinton (57368) in Aurora County, SD (GPS: 43.802972°, -98.556917°)
Cooperator:	Edinger Brothers
Soil Type:	Houdek-Dudley complex, 0-2% slopes
Fertilizer:	none
Previous crop:	corn
Tillage:	minimum-till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	Pre: 3 oz/acre Fierce (flumioxazin + pyroxasulfone) + 5 oz/acre Metribuzin (metribuzin) + 3.3 pt/acre Prowl H2O (pendimethalin) Post: none
Insecticide:	none
Date seeded:	6/2/2020
Date harvested:	10/16/2020

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Sevita International	Candor	1.9	62.8	9.0	1.0
MN AES	EXP M10-238-2036	1.5	62.2	8.9	1.0
Richland IFC	MK41	1.1	60.0	9.1	1.0
MN AES	EXP M09-285149	1.5	59.3	9.0	1.0
Check	14X0	1.4	59.1	8.7	1.0
SD AES	Brookings	1.7	56.6	9.1	1.0
Miller Hybrids	1968	1.9	56.4	9.3	1.0
MN AES	MN1806CN	1.8	55.3	8.6	1.0
MN AES	EXP M08-365100	1.8	54.2	8.5	1.0
MN AES	MN1312CN	1.3	52.2	8.7	1.0
Richland IFC	MK146	1.1	51.5	9.1	1.0
Richland IFC	MK808CN	0.8	36.7	9.4	1.0
Richland IFC	MK1016	1.1	14.7	8.9	1.0
Trial Average			52.4	8.9	1.0
LSD (0.05)†			2.8	0.2	-
C.V.‡			3.7	1.6	-

*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.

Table 2. Conventional soybean variety performance results (average of 4 replications) - **Maturity Group 2** at Plankinton, SD.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Miller Hybrids	2508	2.5	65.4	9.4	1.0
Miller Hybrids	2368	2.3	64.3	9.4	1.0
Check	14X0	1.4	60.9	8.7	1.0
SD AES	Davison	2.2	58.5	9.4	1.0
Miller Hybrids	2968	2.8	58.1	9.0	1.0
Brushvale	N2358	2.3	54.4	8.9	1.0
Trial Average			60.3	9.2	1.0
LSD (0.05)†			5.1	0.2	-
C.V.‡			5.6	1.6	-

*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.