2019 South Dakota Conventional Soybean Variety Trial Results Beresford

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Location:	6 miles west and 3 miles south of Beresford (57432) in Clay county, SD (GPS: 43.045599° -96.899598°)
Cooperator:	SDSU Southeast Research Farm - Peter Sexton, manager
Soil Type:	Egan-Clarno-Trent complex, 0-2% slopes, non-irrigated
Fertilizer:	None
Previous crop:	Corn
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	Pre: 32 oz Glyphosate + 1.33 pt Dual (s-metolachlor) + 3.5 oz Dimetric (metribuzin) + 1 oz Sharpen (saflufenacil)
	Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 9 oz Select Max (clethodim) + 1% UAN + 1% COC
Insecticide:	None
Date seeded:	6/6/2019
Date harvested:	10/25/2019

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

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Miller Hybrids	1968	1.9	**67.2**	15.4	1.0
SD AES	Brookings	1.7	**65.4**	15.1	1.8
Sevita International	Candor	1.9	63.3	15.0	1.5
Richland IFC	MK41	1.1	63.0	15.9	2.5
MN AES	EXP M09-285149	1.5	61.3	14.8	1.0
Check	CHECK	1.4	58.7	15.0	1.0
MN AES	EXP M10-238-2036	1.5	56.9	15.1	1.0
Richland IFC	MK146	1.1	56.7	14.6	1.0
MN AES	MN1312CN	1.3	56.6	14.7	1.0
MN AES	MN1806CN	1.8	52.9	14.1	1.0
Richland IFC	MK9101	1.1	49.8	11.8	1.0
Richland IFC	MK1016	1.0	33.3	16.5	2.8
		Trial Average	57.1	14.8	1.4
		LSD (0.05)†	3.1	0.3	-
		C.V.‡	3.9	1.6	-

*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.

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

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Viking	O.2518N	2.5	**68.7**	14.2	1.0
Viking	O.2188AT12	2.1	**67.2**	14.7	1.3
Viking	O.2155N	2.1	**66.7**	14.6	1.0
Miller Hybrids	2968	2.9	**65.9**	13.9	1.3
Miller Hybrids	2368	2.3	**64.8**	15.3	1.3
Richland IFC	MK373	2.0	62.9	14.3	1.5
Check	CHECK	1.4	60.9	15.1	1.0
Miller Hybrids	2688	2.6	58.5	21.5	1.0
SD AES	Davison	2.2	56.2	15.2	1.3
		Trial Average	63.5	15.4	1.2
		LSD (0.05)†	5.0	0.7	-
		C.V.‡	5.4	3.0	-

*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.