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

2018 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: 43.046421°, -96.902085°
Cooperator:	SDSU Southeast Research Farm - Peter Sexton, manager
Soil Type:	Egan-Clarno-Trent complex, 1-6% slopes, non-irrigated
Fertilizer:	None
Previous crop:	Oats/Cover Crop
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	165,000/acre
Herbicide:	Pre: 2.5 oz Valor (flumioxazin) + 4 oz Dimetric (metribuzin) + 32 oz glyphosate Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 6 oz Select (clethodim) + 1% UAN + 1% COC
Insecticide:	None
Date seeded:	5/29/2018
Date harvested:	10/19/2018

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Brushvale Seed	BS1512	1.4	76.1	10.8	2.0
Check	CHECK	1.4	75.4	11.1	1.3
Miller Hybrids	1968	1.9	73.1	11.8	1.3
Richland IFC	MK41	1.1	73.0	11.1	1.0
SD AES	BROOKINGS	1.7	69.8	11.1	2.0
MN AES	MN1312CN	1.3	66.2	10.7	1.0
MN AES	MN1613CN	1.6	65.5	10.9	2.8
MN AES	MN1806CN	1.8	64.8	11.1	3.0
Brushvale Seed	BS1146	1.1	64.3	10.5	1.5
Richland IFC	MK146	1.1	64.1	10.7	3.5
MN AES	MN1701CN	1.7	61.7	10.9	1.8
Richland IFC	MK9101	1.1	60.1	11.4	1.0
Richland IFC	MK1016	1.0	42.8	11.0	1.5
Trial Average			65.9	11.0	1.8
LSD (0.05)†			3.2	0.4	0.2
C.V.‡			3.4	2.3	-

*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 2** at Beresford, SD.

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Check	CHECK	1.4	73.8	11.0	1.3
Viking Seed	2188AT12N	2.4	73.5	11.1	2.3
Viking Seed	2155N	2.1	72.4	11.9	1.8
Viking Seed	2018N	2.0	71.7	11.0	1.0
Miller Hybrids	2368	2.3	68.1	11.6	2.5
Miller Hybrids	2678	2.6	66.9	11.0	1.0
Viking Seed	O.2518N	2.5	64.8	10.8	1.0
Richland IFC	MK373	2.0	64.6	11.9	1.3
SD AES	DAVISON	2.2	64.4	11.1	1.0
Viking Seed	2418N	2.4	64.0	10.9	1.3
Miller Hybrids	2968	2.9	59.7	11.1	1.8
Trial Average			67.6	11.2	1.5
LSD (0.05)†			3.3	0.2	0.6
C.V.‡			3.4	1.1	-

*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.