SDSU Extension

agronomy

South Dakota
Agricultural
Experiment Station
Research
at SDSU

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AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

2019 South Dakota
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. Glyphosate-resistant soybean variety performance results (average of 4 replications - **Maturity Groups 1 & 2** at Beresford, SD.

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Dyna-Gro Seed	S28XT58	2.8	**74.1**	14.2	1.0
Dyna-Gro Seed	S27EN89	2.7	**73.1**	14.9	1.0
Dyna-Gro Seed	S25XT99	2.5	**71.9**	14.1	1.0
Dyna-Gro Seed	S23XT90	2.3	**70.9**	14.6	1.0
Renk Seed	RS248NX	2.4	67.9	15.0	1.0
Miller Hybrids	19181CBGL	1.9	67.2	14.6	1.0
Peterson Farms Seed	19EN20	2.0	66.5	14.7	1.0
Peterson Farms Seed	19B20	2.0	66.3	14.0	1.0
Channel	2820R2X	2.8	65.8	14.4	1.0
Miller Hybrids	2483CE3	2.4	65.2	14.5	1.0
Miller Hybrids	24181CBGL	2.4	64.5	14.6	1.0
Renk Seed	Genesis G2340E	2.3	64.4	15.3	1.0
Channel	2119R2X	2.1	64.0	14.7	1.0
Channel	2418R2X	2.4	63.2	14.4	1.0
Miller Hybrids	1983CE3	1.9	60.8	15.0	1.0
Peterson Farms Seed	19B18	1.8	60.5	15.0	1.0
Peterson Farms Seed	19B16	1.6	58.2	14.8	1.0
Check	CHECK	1.4	52.1	15.2	1.0
		Trial Average	64.7	14.7	1.0
		LSD (0.05)†	3.9	0.3	-
		C.V.‡	4.3	1.7	-

*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.