SOUTH DAKOTA STATE UNIVERSITY
College of Agriculture, Food and Environmental Sciences

2023 South Dakota Conventional Soybean Variety Trial Results Alexandria

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Location:	5 1/2 miles north and 1 1/2 miles east of Alexandria in Hanson County, SD 43.745496°, -97.762325°
Cooperator:	Jared Schultz
Soil Type:	Prosper-Stickney complex, 0-2% slopes
Fertilizer:	none
Previous crop:	corn
Tillage:	no-till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	Fall pre: 3 oz/acre flumioxazin Pre: 32 oz/acre Roundup Powermax + 8 oz/acre sulfentrazone & imazethapyr + 4 oz/acre metribuzin Post: 14 oz/acre fomesafen + 16 oz/acre metolachlor + 10 oz/acre clethodim
Insecticide:	none
Date seeded:	5/22/2023
Date harvested:	10/23/2023

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Table 1. Conventional soybean performance results (average of 4 replications - **Maturity Groups I)** at Alexandria, SD.

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
MN AES	MN1807CN	1.8	52.1	13.6	1.0
LG Seeds	LGS1684	1.6	51.8	13.8	1.0
Miller Hybrids	1938	1.9	46.9	12.8	1.0
Viking Seed	VK 1718N	1.7	46.5	13.8	1.0
Richland IFC	MK146	1.1	44.7	14.4	1.0
SD AES	BROOKINGS	1.7	42.9	14.0	1.0
Check	AG15XF2	1.5	41.0	13.7	1.0
Richland IFC	MK808CN	0.8	37.5	14.4	1.0
Brushvale Seed	BS1940	1.9	34.7	13.9	1.0
		Trial Average	43.3	13.8	1.0
		LSD (0.05)†	3.5	0.6	-
		C.V.‡	5.7	-	-

* 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.

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

Variety Information		Agronomic Performance			
Brand	**Variety**	**Maturity Rating**	**Yield (bu/ac@13%)**	**Moisture (%)**	**Lodging Score (1-5)***
Virtue	V2922	2.9	58.4	13.3	1.0
Miller Hybrids	2738	2.7	49.4	13.1	1.0
Virtue	V2122	2.1	48.0	13.4	1.0
Viking Seed	VK 2418N	2.4	46.3	13.2	1.0
Viking Seed	VK 2340KN	2.3	45.3	13.6	1.0
Viking Seed	VK 2022N	2.0	44.6	12.7	1.0
Viking Seed	VK 2155N	2.1	42.5	13.2	1.0
Check	AG15XF2	1.5	42.0	13.2	1.0
Miller Hybrids	2508	2.5	41.0	13.0	1.0
LG Seeds	LGS2020	2.0	39.5	12.7	1.0
Richland IFC	MK373	2.0	39.5	12.8	1.0
LG Seeds	LGS2329	2.3	38.5	13.8	1.0
Miller Hybrids	2238	2.2	37.3	13.8	1.0
		Trial Average	44.0	13.2	1.0
		LSD (0.05)†	3.1	0.4	-
		C.V.‡	4.9	-	-

* 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.