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

2020 South Dakota Soybean Variety Trial Results Brookings

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Location:	SDSU campus in Brookings County, SD (GPS: 44.320550°, -96.771294°)
Cooperator:	SDSU Research Farm - Jack Ingemansen, manager
Soil Type:	Barnes clay loams, 0-2% slopes
Fertilizer:	None
Previous crop:	Corn
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	Pre: 1 pt/acre Dual II Magnum (s-metolachlor) Post: 6 oz/acre Fusilade (fluazifop) + 1 qt Roundup Powermax (glyphosate)
Insecticide:	None
Date seeded:	5/20/2020
Date harvested:	9/29/2020 (Group 1) & 10/02/2020 (Group 2)

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Farmer Check 2	P18A98	1.8	75.4	11.2	1.3
Farmer Check 1	16X0	1.6	74.9	10.4	1.3
LG Seeds	LGS1575RX	1.5	74.4	10.2	1.0
Federal Hybrids	F1500N R2X	1.5	74.0	10.4	1.3
Federal Hybrids	F1690N R2X	1.6	71.5	10.7	1.0
Peterson Farms Seed	20X12N	1.2	71.3	10.4	1.8
Federal Hybrids	F0990N R2X	0.9	71.3	11.0	1.5
P3 Genetics	2013E	1.3	70.6	11.1	1.5
LG Seeds	LGS1635RX	1.6	70.3	10.5	1.0
LG Seeds	C1838RX	1.8	69.2	11.0	1.3
P3 Genetics	1911E	1.1	69.1	11.1	1.5
Dairyland Seed	DSR-1673E	1.6	69.0	10.6	1.3
Federal Hybrids	F1109 LLGT	1.1	68.3	11.6	1.0
Dairyland Seed	DSR-1318E	1.3	68.3	10.9	1.0
LG Seeds	LGS1221RX	1.2	67.6	10.3	2.3
Check	14X0	1.4	67.2	10.3	1.3
LG Seeds	LGS1550RX	1.5	66.5	10.4	1.0
Renk Seed	RS181NX	1.8	66.4	11.5	1.5
LG Seeds	LGS1776RX	1.7	65.1	10.6	1.5
Federal Hybrids	F1509N LLGT	1.5	64.2	11.6	2.3
P3 Genetics	2114E	1.4	63.8	11.2	1.5
P3 Genetics	2013B	1.3	61.5	11.2	2.3
Trial Average			69.1	10.8	1.4
LSD (0.05)†			3.0	0.6	-
C.V.‡			3.0	4.0	-

*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. Glyphosate-resistant soybean variety performance results (average of 4 replications - **Maturity Group 2** at Brookings, SD).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Genesis	G2350E	2.3	71.7	8.8	1.5
Renk Seed	RS248NX	2.4	71.3	9.0	1.8
Farmer Check 1	P21A28X	2.1	70.9	8.3	2.3
Genesis	G2150E	2.1	70.0	8.8	1.8
Check	14X0	1.4	69.6	8.4	1.3
Dairyland Seed	DSR-2030E	2.0	68.6	8.5	1.5
Dairyland Seed	DSR-2112E	2.3	66.9	9.0	1.5
Genesis	G2550E	2.5	65.2	8.7	1.3
Dairyland Seed	DSR-2424E	2.1	64.8	8.9	1.0
Dairyland Seed	ESPE20-10	2.0	64.6	8.4	2.5
Farmer Check 2	P22T18E	2.2	63.3	8.2	1.5
Trial Average			67.9	8.6	1.6
LSD (0.05)†			2.1	0.3	-
C.V.‡			2.1	2.7	-

*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.