



2019 South Dakota Soybean Variety Trial Results Bath

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Location:	4.5 miles south and 2.25 miles east of Bath (57427) in Brown County, SD (GPS: 45.399909°, -98.278692°)
Cooperator:	Gordon and Roger Locken Farms
Soil Type:	Great Bend-Beotia silt loams, 0-2% slopes
Fertilizer:	None
Previous crop:	Corn
Tillage:	No-till
Row spacing:	30 inches
Seeding Rate:	150,000/acre
Herbicide:	Pre: 32 oz/acre Roundup RT3 (glyphosate) + 8 oz/acre Authority Assist (sulfentrazone + imazethapyr) + 5 oz/acre Dimetric DF (metribuzin) Post: 32 oz Roundup Powermax
Insecticide:	None
Date seeded:	5/19/2019
Date harvested:	10/24/2019
Notes:	This trial had high variability due to white mold. Please consider yield data from other trial locations when selecting varieties to plant.

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - **Maturity Group 0** at Bath, SD.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
SDAES	M06R-614008	0.7	51.1	13.6	1.0
LG Seeds	LGS0735RX	0.7	47.4	13.6	1.0
Peterson Farms Seed	19EN07	0.7	46.8	13.5	1.0
Check	CHECK	1.4	43.6	13.9	1.0
Peterson Farms Seed	20X09	0.9	41.2	13.4	1.0
Federal Hybrids	F0990N R2X	0.9	40.4	13.6	1.0
Proseed	XT 80-80N	0.8	37.1	13.5	1.0
Proseed	XT 90-90N	0.9	33.2	13.7	1.0
Proseed	EL 80-93	0.9	26.3	14.1	1.0
Trial Average			40.8	13.7	1.0
LSD (0.05)†			7.6	0.2	-
C.V.‡			12.9	8.1	-

*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.

Table 2. Glyphosate-resistant soybean variety performance results (average of 4 replications) - **Maturity Group 1** at Bath, SD.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Federal Hybrids	F1690N R2X	1.6	57.3	13.4	1.0
Dahlman Seed	6815XN	1.5	56.4	13.6	1.0
Proseed	EL M91-33	1.3	53.7	13.5	1.0
Channel	1020R2X	1.0	53.5	13.5	1.0
Renk Seed	Genesis G1340E	1.3	53.4	13.5	1.0
Dahlman Seed	1014E3N	1.4	53.4	13.3	1.0
Dahlman Seed	6014XN	1.4	52.2	13.4	1.0
LG Seeds	LGS1635RX	1.6	51.8	13.5	1.0
Proseed	XT 91-10N	1.1	50.1	13.5	1.0
Federal Hybrids	F1680N R2X	1.6	49.5	13.6	1.0
Peterson Farms Seed	19B11	1.1	47.7	14.1	1.0
Channel	1219R2X	1.2	47.7	13.0	1.0
Dahlman Seed	1011E3N	1.1	47.2	13.6	1.0
Federal Hybrids	F1109 LLGT	1.1	46.4	14.2	1.0
Check	CHECK	1.4	46.2	13.7	1.0
Federal Hybrids	F1500N R2X	1.5	43.6	13.7	1.0
Proseed	EL 81-13	1.1	42.4	13.7	1.0
LG Seeds	LGS1118RX	1.1	42.1	13.0	1.0
Federal Hybrids	F1180N R2X	1.1	41.8	13.4	1.0
LG Seeds	LGS1776RX	1.7	41.5	13.3	1.0
Renk Seed	RS149NX	1.4	39.8	13.5	1.0
Dahlman Seed	6811XN	1.1	38.8	13.5	1.0
LG Seeds	LGS1550RX	1.5	38.8	13.3	1.0
LG Seeds	C1000RX	1.0	37.2	13.6	1.0
Peterson Farms Seed	19EN10	1.0	36.5	13.4	1.0
Peterson Farms Seed	19EN11	1.1	35.8	14.1	1.0
LG Seeds	LGS1575RX	1.5	33.0	13.7	1.0
Trial Average			45.8	13.5	1.0
LSD (0.05)†			12.0	0.4	-
C.V.‡			18.6	1.9	-

*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.