2018 South Dakota Soybean Variety Trial Results Bath

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Location:	5 miles south and 1.25 miles east of Bath (57427) in Brown County, SD (GPS: 45.392976°, -98.305431°)
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:	165,000/acre
Herbicide:	Pre: 24 oz Roundup RT3 (glyphosate), 1 oz Aim EC (carfentrazone), 7.8 oz Authority Assist (sulfentrazone + imazethapyr) + 4.3 oz Dimetric DF () Post: 25 oz Roundup Powermax (glyphosate) + 18 oz gal Fusilade DX (fluazifop) + 14 oz Preference (surfactant)
Insecticide:	None
Date seeded:	5/22/2018
Date harvested:	10/23/2018

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Check	CHECK	1.4	74.0	9.4	1.3
Prairie Brand	PB-0987R2	0.9	**72.8**	9.0	1.0
LG Seeds	LGS0886RX	0.8	**71.4**	9.3	1.3
LG Seeds	LGS0962RX	0.9	**70.8**	9.3	1.3
Dairyland Seed	DSR-0807/R2Y	0.8	**70.0**	9.0	1.0
Dahlman Seed	6909XN	0.9	69.9	9.3	1.0
Dairyland Seed	DSR-0988/R2Y	0.9	69.8	9.2	1.0
Peterson Farms Seed	18X08N	0.8	68.8	9.5	1.3
Renk	RS089NX	0.8	68.7	9.1	1.0
Legend Seeds	09X960N	0.9	68.4	9.2	1.5
Federal Hybrids	F0990N R2X	0.9	68.1	9.0	1.3
Legend Seeds	06X950N	0.6	62.6	9.2	1.0
		Trial Average	69.6	9.2	1.1
		LSD (0.05)†	2.8	0.5	0.5
		C.V.‡	2.8	3.4	-

*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.

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Dairyland Seed	DSR-1950/R2Y	1.9	**76.1**	9.6	1.0
Dairyland Seed	DSR-1616/R2Y	1.6	**75.6**	9.6	1.0
Prairie Brand	PB-1566R2	1.6	**75.4**	9.4	1.0
Federal Hybrids	F1490N R2X	1.4	**74.7**	9.5	1.0
Prairie Brand	PB-1376R2	1.3	**74.7**	9.5	1.3
Dairyland Seed	DSR-1509R	1.5	**74.2**	9.3	1.0
Peterson Farms Seed	19X14N	1.4	**74.1**	9.6	1.0
LG Seeds	LGS1667RX	1.6	**73.9**	9.6	1.5
Dairyland Seed	DSR-1526/R2Y	1.5	**73.9**	9.2	1.0
Dairyland Seed	DSR-1475/R2Y	1.4	**73.6**	9.4	1.5
LG Seeds	LGS1575RX	1.5	**73.5**	9.5	1.0
Dahlman Seed	6815XN	1.5	**73.4**	9.6	1.0
Dairyland Seed	DSR-1870/R2Y	1.7	73.2	9.5	1.3
Dahlman Seed	6811XN	1.1	72.6	9.6	1.0
Federal Hybrids	F1680N R2X	1.6	72.4	9.3	1.8
Legend Seeds	LS 17X802N	1.7	72.3	9.6	1.3
Check	CHECK	1.4	72.2	9.5	1.8
LG Seeds	C1000RX	1.0	71.3	9.7	1.0
Proseed	XT 71-40	1.4	70.9	9.6	1.0
Peterson Farms Seed	18X11N	1.1	70.7	9.4	1.3
Federal Hybrids	F1180N R2X	1.1	70.5	9.6	1.0
Dairyland Seed	DSR-1313/R2Y	1.3	70.2	9.3	1.3
Legend Seeds	LS 14X862N	1.4	70.1	9.7	1.0
Federal Hybrids	F1690N R2X	1.6	69.5	9.5	1.0
Legend Seeds	LS 12X862N	1.2	69.2	9.5	1.0
Dahlman Seed	6713XN	1.3	69.2	9.3	1.0
LG Seeds	C1337RX	1.3	69.2	9.4	1.0
Renk	RS118NX	1.1	68.7	9.5	1.0
Dairyland Seed	DSR-1120/R2Y	1.1	67.5	9.1	1.5
Peterson Farms Seed	19X10N	1.0	66.8	9.6	1.0
Federal Hybrids	F1880N R2X	1.8	66.5	9.8	1.0
Proseed	XT 80-80	1.0	65.2	9.2	1.5
		Trial Average	71.6	9.5	1.1
		LSD (0.05)†	2.9	0.3	0.4
		C.V.‡	2.9	2.3	-

*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.