



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

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Soybean Variety Trial Results Bath

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Location: 2.5 miles south and 1 mile east of Bath (57427) in Brown County, SD
GPS: (45.424101°, -98.308083°)

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: 1 qt/acre Roundup (glyphosate) + 6 oz/acre Authority Assist (sulfentrazone + imazethapyr) + 6 Oz/acre metribuzin
-Post: 1 qt/acre Roundup PowerMax (glyphosate) + 1 pt/acre Avalanche (acifluorfen)

Fungicide: 5.5 oz/acre Endura (boscalid)

Date seeded: 5/18/2021

Date harvested: 10/6/2021

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Table 1. Glyphosate-resistant soybean performance results (average of four replications - **Maturity Group 0** at Bath, South Dakota).

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
LG Seeds	LGS0822E3	0.8	71.4	9.9	1.0
Genesis	G0750E	0.7	69.0	10.1	1.0
Genesis	G0760E	0.7	67.7	9.9	1.0
Dairyland Seed	DSR-0920E	0.9	67.7	10.0	1.0
Federal Hybrids	F0920NRXF	0.9	65.5	10.2	1.0
ND Crop Imp. Assc.	ND2108GT73	0.8	65.3	9.9	1.0
Check	AG17X8	1.7	64.2	9.9	1.0
Farmer Check	1907E	0.7	62.6	9.6	1.0
LG Seeds	LGS9039XF	0.9	62.3	10.2	1.0
Farmer Check	2108E	0.8	59.2	9.5	1.0
Trial Average			65.5	9.9	1.0
LSD (0.05)†			4.4	0.2	-
C.V.‡			4.6	2.0	-

* 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.



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Table 2. Glyphosate-resistant soybean performance results (average of four replications - **Maturity Group I** at Bath, South Dakota.

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Farmer Check	B131EE	1.3	73.9	9.7	1.0
Dahlman Seed	1215E3N	1.5	68.0	10.0	1.3
Farmer Check	NK14-W6E3	1.4	67.7	9.7	1.0
Dahlman Seed	6015XN	1.5	67.4	9.5	1.0
Renk	RS150NX	1.5	67.2	9.7	1.0
P3 Genetics	2015E	1.5	65.7	10.0	1.0
Proseed	EL21-23N	1.2	65.2	9.4	1.0
P3 Genetics	2212E	1.2	65.0	9.9	1.0
LG Seeds	LGS1660E3	1.6	64.9	10.1	1.0
Federal Hybrids	F1520NRXF	1.5	64.8	9.5	1.0
Federal Hybrids	F1310NRXF	1.3	64.2	9.5	1.0
P3 Genetics	2214E	1.4	64.1	9.9	1.0
Dairyland Seed	DSR-1450E	1.4	63.6	9.5	1.0
Check	AG17X8	1.7	63.0	9.7	1.3
LG Seeds	LGS1232XF	1.2	62.8	9.6	1.0
Dairyland Seed	DSR-1290E	1.2	62.7	9.5	1.0
Genesis	G1340E	1.3	62.3	9.6	1.3
Dahlman Seed	7218XF	1.8	62.2	10.0	1.0
Dahlman Seed	6815XN	1.5	62.1	9.8	1.5
Peterson Farms Seed	22XF12	1.2	61.7	9.7	1.0
Dahlman Seed	1213E3N	1.3	61.7	10.1	1.0
Federal Hybrids	F1120NRXF	1.1	61.2	9.6	1.0
Renk	RS142NXF	1.4	61.1	10.1	1.0
Dahlman Seed	7210XF	1.0	60.9	9.9	1.0
Genesis	G1260E	1.2	60.7	9.9	1.0
Peterson Farms Seed	22XF14	1.4	60.6	9.5	1.0
LG Seeds	LGS1585XF	1.5	60.1	9.7	1.0
Dahlman Seed	7213XF	1.3	60.1	9.4	1.3
Peterson Farms Seed	22XF10	1.0	59.7	9.8	1.3
LG Seeds	LGS1203E3	1.2	59.6	10.0	1.0
P3 Genetics	2013E	1.3	59.5	9.8	1.0
Proseed	EL91-33N	1.3	58.9	9.3	1.0
Dairyland Seed	DSR-1010E	1.0	58.9	9.6	1.0
Dahlman Seed	6010XN	1.0	55.4	9.4	1.0
Federal Hybrids	F1720NRXF	1.7	55.2	9.5	1.3
Trial Average			62.6	9.7	1.1
LSD (0.05)†			3.3	0.4	-
C.V.‡			3.8	2.6	-

* 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.