



OCTOBER 2020

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

2020 South Dakota Soybean Variety Trial Results Bath

Jonathan Kleinjan | SDSU Extension Crop Production Associate

Kevin Kirby | Agricultural Research Manager

Shawn Hawks | Agricultural Research Manager

Location:	4.5 miles south and 1 miles east of Bath (57427) in Brown County, SD (GPS: 45.392876°, -98.37050°)
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 (glyphosate) + 6 oz/acre Fusilade DX (fluzifop) + .75 pt/acre Flexstar (fomesafen)
Insecticide:	none
Date seeded:	5/20/2020
Date harvested:	10/15/2020

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

Variety Information		Agronomic Performance			
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Renk Seed	RS100NX	1.0	72.9	8.9	1.0
Dahlman	6010XN	1.0	72.4	8.5	1.0
Dahlman	6015XN	1.5	71.0	8.7	1.0
LG Seeds	LGS0735RX	0.7	69.0	8.8	1.0
LG Seeds	LGS1221RX	1.2	68.9	8.5	1.0
Renk Seed	RS150NX	1.5	68.7	8.7	1.0
Dahlman	6815XN	1.5	68.0	8.8	1.0
Renk Seed	RS149NX	1.4	67.7	9.0	1.0
Dairyland Seed	DSR-1673E	1.6	66.7	9.0	1.0
LG Seeds	LGS1575RX	1.5	66.3	8.6	1.0
Peterson Fams Seed	20X12N	1.2	65.9	8.7	1.0
LG Seeds	LGS1635RX	1.6	65.2	8.8	1.0
Peterson Fams Seed	21X14N	1.4	65.0	8.8	1.0
Dahlman	6811XN	1.1	64.6	8.7	1.0
Dairyland Seed	DSR-0920E	0.9	64.3	8.7	1.0
P3 Genetics	2015E	1.5	63.5	8.8	1.0
Genesis	G1340E	1.3	63.2	8.9	1.0
Dairyland Seed	DSR-1318E	1.3	63.1	9.0	1.0
P3 Genetics	2013B	1.3	62.7	9.1	1.0
Dairyland Seed	DSR-0645E	0.6	62.6	8.7	1.0
P3 Genetics	2013E	1.3	62.5	8.9	1.0
LG Seeds	LGS1550RX	1.5	62.5	8.6	1.0
P3 Genetics	1911E	1.1	62.5	8.9	1.0
LG Seeds	LGS1776RX	1.7	61.9	8.6	1.0
Check	14X0	1.4	60.3	8.5	1.0
P3 Genetics	2114E	1.4	57.1	8.9	1.0
Dahlman	1111E3N	1.1	56.2	8.7	1.0
Genesis	G1450E	1.4	55.8	9.1	1.0
Trial Average			64.2	8.8	1.0
LSD (0.05)†			3.1	0.3	-
C.V.‡			3.4	2.4	-

*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.