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

# 2018 South Dakota Soybean Variety Trial Results South Shore

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<b>Location:</b>	8.5 miles west of South Shore (57263) in Codington County, SD GPS: 45.106969°, -97.098609°
<b>Cooperator:</b>	SDSU Northeast Research Farm - Allen Heuer, manager
<b>Soil Type:</b>	Kranzburg-Brookings silty clay loams, 0-2% slope
<b>Fertilizer:</b>	None
<b>Previous crop:</b>	Spring Wheat
<b>Tillage:</b>	Conventional
<b>Row spacing:</b>	30 inches
<b>Seeding Rate:</b>	165,000/acre
<b>Herbicide:</b>	Pre: 1 pt Dual II Magnum (s-metolachlor) Post: 32 oz Roundup (glyphosate)
<b>Insecticide:</b>	None
<b>Date seeded:</b>	5/22/2018
<b>Date harvested:</b>	10/16/2018

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

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Prairie Brand	PB-0987R2	0.9	<b>62.9</b>	13.6	1.5
Renk	RS089NX	0.8	<b>62.5</b>	13.7	1.8
Peterson Farms Seed	18X08N	0.8	<b>60.9</b>	13.7	1.8
Check	CHECK	1.4	<b>60.3</b>	13.8	1.8
Dairyland Seed	DSR-0807/R2Y	0.8	59.3	13.7	1.8
Dairyland Seed	DSR-0988/R2Y	0.9	58.9	13.8	1.5
Legend Seeds	09X960N	0.9	58.1	13.7	1.3
Federal Hybrids	F0990N R2X	0.9	57.4	13.7	1.8
LG Seeds	LGS0774RX	0.7	57.2	13.9	1.0
LG Seeds	LGS0962RX	0.9	57.0	13.8	1.5
LG Seeds	LGS0886RX	0.8	54.7	13.7	2.0
Legend Seeds	06X950N	0.6	46.3	13.8	1.5
		<b>Trial Average</b>	58.0	13.7	1.6
		<b>LSD (0.05)†</b>	2.9	0.2	0.7
		<b>C.V.‡</b>	3.6	1.1	-

\* 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 South Shore, SD.

Variety Information		Agronomic Performance			
Brand	Hybrid	Maturity Rating	Yield (bu/ac@13%)	Moisture (%)	Lodging Score (1-5)*
Dairyland Seed	DSR-1616/R2Y	1.6	<b>67.4</b>	14.4	1.0
Prairie Brand	PB-1566R2	1.6	<b>65.6</b>	13.6	1.3
Dairyland Seed	DSR-1950/R2Y	1.9	<b>65.3</b>	13.9	1.0
Dairyland Seed	DSR-1509R	1.5	<b>64.3</b>	13.0	1.0
Federal Hybrids	F1690N R2X	1.6	64.1	13.7	1.0
LG Seeds	LGS1667RX	1.6	63.6	13.7	1.8
Dairyland Seed	DSR-1870/R2Y	1.7	63.4	13.4	1.8
Federal Hybrids	F1490N R2X	1.4	63.3	13.7	1.3
LG Seeds	C1337RX	1.3	61.7	13.3	1.8
Dairyland Seed	DSR-1526/R2Y	1.5	61.2	13.3	1.5
Federal Hybrids	F1680N R2X	1.6	61.0	13.9	1.8
Legend Seeds	LS 17X802N	1.7	60.5	13.7	1.3
LG Seeds	C1000RX	1.0	59.9	13.7	1.0
Check	CHECK	1.4	59.8	13.4	2.0
Federal Hybrids	F1180N R2X	1.1	59.6	13.7	1.5
Federal Hybrids	F1880N R2X	1.8	59.4	13.8	1.3
LG Seeds	LGS1575RX	1.5	59.4	13.8	1.3
Dairyland Seed	DSR-1475/R2Y	1.4	58.8	13.5	1.5
Dairyland Seed	DSR-1120/R2Y	1.1	58.4	13.8	1.5
Peterson Farms Seed	19X10N	1.0	58.2	13.7	1.3
Prairie Brand	PB-1376R2	1.3	58.0	13.7	1.3
Proseed	XT 71-40	1.4	57.7	13.5	1.3
Legend Seeds	LS 12X862N	1.2	56.9	13.7	1.8
Dairyland Seed	DSR-1313/R2Y	1.3	56.5	13.7	2.3
Renk	RS118NX	1.1	56.1	13.4	1.3
Legend Seeds	LS 14X862N	1.4	54.6	13.6	1.0
Proseed	XT 80-80	1.0	50.0	13.6	1.3
<b>Trial Average</b>			60.2	13.6	1.4
<b>LSD (0.05)†</b>			3.2	0.4	0.6
<b>C.V.‡</b>			3.8	2.2	-

\* 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.