

**Jonathan Kleinjan** | SDSU Crop Performance Testing Director  
**Kevin Kirby** | Agricultural Research Manager  
**Shawn Hawks** | Agricultural Research Manager

**Beresford**

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD  
(GPS: N 43°02.776' W 096°54.068')

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent silty clay loam, 0-2% slope, non-irrigated

Fertilizer: 0-78-90 preplant incorporated

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Roundup Power Max (glyphosate) + Dual (metolachlor) + Metribuzen (metribuzen) + Sharpen (saflufenacil)  
Post: Flexstar (fomesafen) + FirstRate (cloransulam) + Select (clethodim)

Insecticide: None

Date seeded: 5/19/2015

Date harvested: 10/13/2015

Table 1. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 1 & 2 at Beresford, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.4	<b>68.8</b>	7.6	33.1	19.6	2.3
Royal	EXP-RS1601	1.9	<b>66.4</b>	7.6	33.6	18.5	2.3
SD AES	Davison	2.2	<b>65.5</b>	8.1	33.4	18.5	2.5
Royal	EXP-RS2101	1.9	63.6	7.7	34.2	18.6	2.0
SD AES	Brookings	1.7	60.4	7.8	32.9	19.7	3.0
Richland IFC	MK41	1.4	56.8	7.9	34.4	18.3	1.3
Richland IFC	MK9101	1.1	54.3	7.9	34.7	20.9	2.3
Richland IFC	MK1016	1.0	44.7	7.8	35.8	16.7	4.3
<b>Trial Average</b>			60.1	7.8	34.0	18.8	2.5
<b>LSD (0.05)†</b>			4.2	0.2	1.2	1.5	0.9
<b>C.V.‡</b>			4.7	1.8	2.3	5.3	-

\* 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.

**Volga**

Location: 1.5 mile south of Volga (57101) in Brookings County, SD  
(GPS: N 44°18.152' W 096°55.138')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

Soil Type: Brandt silty clay loam, 0-2% slope

Fertilizer: none

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Metolachlor (Dual II Magnum)  
Post: None (cultivation and hand weeding)

Insecticide: None

Date seeded: 5/20/2015

Date harvested: 9/30/2015 (Group 0&1), 10/7/2015 (Group 2)

Table 2. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0, 1, & 2 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
SD AES	Davison	2.2	<b>57.5</b>	10.9	35.3	17.8	1.8
Check	Check	1.4	<b>55.1</b>	9.3	33.8	18.7	1.5
SD AES	Brookings	1.7	54.6	9.9	34.0	18.1	2.0
Royhal	EXP-RS1601	1.9	52.6	10.0	35.7	18.0	2.0
Royhal	EXP-RS2101	1.9	51.3	11.4	36.4	18.4	2.0
SD AES	Roberts	0.6	51.1	9.1	34.4	18.2	2.3
SD AES	Codington	0.9	49.1	9.6	35.3	18.2	2.0
Richland IFC	MK41	1.4	48.8	9.5	35.6	17.1	1.3
Richland IFC	MK42	0.7	47.3	9.4	39.0	16.3	3.5
Richland IFC	MK1016	1.0	45.9	9.4	36.6	15.4	2.5
Richland IFC	EXP603	0.7	44.7	9.4	37.5	14.3	3.8
Richland IFC	MK9101	1.1	43.1	10.1	35.0	21.0	2.0
Richland IFC	MK0508	0.8	41.2	9.5	35.6	14.7	3.5
<b>Trial Average</b>			49.4	9.8	35.7	17.4	2.3
<b>LSD (0.05)†</b>			2.7	0.3	0.9	0.9	0.6
<b>C.V.‡</b>			3.7	2.4	1.8	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.

§ Liberty Link variety

**South Shore**

Location: 8.5 miles west of South Shore (57263) in Codington County, SD  
(GPS: N 45°06.368' W 097°06.120')

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slope

Fertilizer: 0-100-0 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II  
Post: Select (clethodim) + Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/28/2015

Date harvested: 9/29/2015

Table 3. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at South Shore, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.4	48.1	10.3	34.9	18.3	2.0
Royal	EXP-RS1601	1.9	<b>44.7</b>	12.2	37.8	17.5	2.0
Royal	EXP-RS2101	1.9	<b>43.3</b>	14.5	38.4	18.6	2.0
SD AES	Roberts	0.6	<b>42.1</b>	9.1	33.8	18.4	2.0
SD AES	Brookings	1.7	<b>42.0</b>	11.2	36.1	17.5	2.0
SD AES	Codington	0.9	40.9	9.8	35.1	18.2	1.8
Richland IFC	EXP603	0.7	36.5	9.7	37.8	14.6	2.5
Richland IFC	MK9101	1.1	35.7	11.6	35.0	20.3	2.0
Richland IFC	MK42	0.7	35.3	9.3	38.5	15.8	2.3
Richland IFC	MK1016	1.0	31.7	9.8	38.8	15.2	2.0
Richland IFC	MK0508	0.8	30.8	9.4	36.0	14.7	2.3
Richland IFC	MK41	1.4	28.8	10.5	39.0	15.7	2.0
<b>Trial Average</b>			38.3	10.6	36.8	17.1	2.1
<b>LSD (0.05)†</b>			3.0	0.8	0.8	0.6	0.4
<b>C.V.‡</b>			5.6	5.4	1.5	2.5	-

\* 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.

§ Liberty Link variety

**Trial Participants:**

**Richland IFC, Inc.**

Matt Bohn  
100 10th St N.  
Breckenridge, MN 56520  
(218) 643-1797  
[matt@richlandifc.com](mailto:matt@richlandifc.com)

**Royhal**

Jesse Hall  
20466 451st Ave  
Arlington, SD 57212  
(605) 690-3594

**South Dakota Agricultural Experiment Station**

Jack Ingemansen  
Box 2207A, SDSU  
Brookings, SD 57007  
(605) 688-5418  
[jack.ingemansen@sdstate.edu](mailto:jack.ingemansen@sdstate.edu)