

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: 43.046386, -96.902161)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

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

Fertilizer: None

Previous crop: Corn

Tillage: No-till

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 32 oz Roundup Power Max (glyphosate) + 1.33 pt Dual (metolachlor) + 4 oz Glory (metribuzen) + 1 oz Sharpen (saflufenacil)

Post: 0.3 oz FirstRate (cloransulam) + 12 oz Flexstar (fomesafen) + 6 oz Select (clethodim)

Insecticide: None

Date seeded: 5/20/2016

Date harvested: 10/24/2016

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%)	Oil %	Lodging Score (1-5)*
Simplex	V1967A	1.8	76.0	12.1	1.0
Halls Seed	2101	1.9	75.2	12.2	1.0
Great Lakes Hybrids	GL2765N	2.7	75.0	11.7	1.0
Halls Seed	1601	1.9	73.9	12.1	1.0
Simplex	V2267A	1.9	73.2	13.0	1.0
Simplex	V2367B	2.3	71.3	12.5	1.0
Great Lakes Hybrids	GL2254N	2.2	69.2	12.2	1.0
SD AES	Brookings	1.7	67.3	12.2	1.0
Check	Check	1.4	65.9	12.4	1.0
Richland IFC	MK41	1.4	60.0	12.5	1.0
SD AES	Davison	2.2	58.1	9.8	1.0
MN AES	MN1701CN	1.7	52.2	12.3	1.0
MN AES	MN1806CN	1.8	52.2	12.1	1.0
MN AES	MN1612CN	1.6	48.2	12.2	1.0
Richland IFC	EXP373	2.0	47.9	12.2	1.0
Richland IFC	MK9101	1.1	35.7	10.8	1.0
Richland IFC	MK1016	1.0	19.6	12.5	1.0
Trial Average			60.1	12.0	1.0
LSD (0.05)†			7.0	1.7	-
C.V.‡			8.5	10.2	-

* 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.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: 44.298780, -96.926099)

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: Dual II Magnum (metolachlor)
Post: Harmony SG (thifensulferon)

Insecticide: None

Date seeded: 5/12/2016

Date harvested: 10/14/2016 (Group 1), 10/17/2016 (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 %	Lodging Score (1-5)*
Check	Check	1.4	79.1	14.1	2.8
Simplex	V2367B	2.3	76.9	13.8	2.8
SD AES	Brookings	1.7	76.4	14.3	3.0
Simplex	V2267A	1.9	75.6	14.1	3.0
Halls Seed	2101	1.9	74.9	13.5	2.8
SD AES	Roberts	0.6	74.3	14.4	2.3
Simplex	V1767A	1.5	74.1	14.1	2.8
Halls Seed	1601	1.9	73.8	13.7	2.5
Richland IFC	FG0822CN	0.8	72.1	14.4	2.8
Richland IFC	EXP373	2.0	72.0	13.8	3.0
Simplex	V1967A	1.8	71.1	14.0	3.0
SD AES	Codington	0.9	70.8	15.5	2.3
SD AES	Davison	2.2	68.8	14.2	3.3
Richland IFC	MK41	1.4	68.8	14.7	2.3
MN AES	MN1806CN	1.8	68.1	13.6	4.5
MN AES	MN1701CN	1.7	68.1	13.7	4.5
Richland IFC	MK0603	0.6	65.5	14.7	4.0
Richland IFC	MK808CN	0.8	64.3	15.7	3.3
MN AES	MN1612CN	1.6	63.6	13.9	2.8
Richland IFC	MK9404CN	0.6	62.6	14.0	2.3
Richland IFC	MK42	0.7	61.7	14.4	4.0
Richland IFC	MK1016	1.0	61.0	15.2	4.0
Richland IFC	MK9101	1.1	60.2	12.2	2.0
Richland IFC	MK0508	0.8	59.8	15.2	4.5
Trial Average			69.3	14.2	3.1
LSD (0.05)†			3.6	0.5	0.6
C.V.‡			3.6	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.

South Shore

Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 45.106822, -97.099983)

Cooperator: SDSU Northeast Research Farm - Allen Heuer, manager

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

Fertilizer: None

Previous crop: Corn

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: 5/17/2016

Date harvested: 9/30/2016 (Group 0)
10/10/2016 (Group 1)

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Check	Check	1.4	52.9	10.8	1.0
Richland IFC	FG0822CN	0.8	50.3	11.1	1.0
SD AES	Roberts	0.6	45.5	10.9	1.0
Richland IFC	MK808CN	0.8	43.6	12.0	1.0
SD AES	Codington	0.9	43.5	11.7	1.0
Richland IFC	MK0603	0.6	42.8	11.2	1.8
Richland IFC	MK0508	0.8	41.6	11.3	1.0
Richland IFC	MK9404CN	0.6	41.0	11.8	1.0
Richland IFC	MK42	0.7	37.4	11.1	1.3
Trial Average			44.3	11.3	1.1
LSD (0.05)†			3.5	0.3	0.2
C.V.‡			5.5	1.9	-

* 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 4. Conventional soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	14F06	1.4	58.2	12.0	1.0
Halls Seed	1601	1.9	55.6	11.9	1.0
SD AES	Brookings	1.7	55.4	12.4	1.0
Check	Check	1.4	54.4	11.9	1.0
Simplex	V1767A	1.5	54.3	12.3	1.0
Halls Seed	2101	1.9	53.8	12.5	1.0
Simplex	V1567B	1.4	53.5	11.8	1.0
Richland IFC	MK41	1.4	50.1	12.4	1.0
MN AES	MN1701CN	1.7	49.7	12.5	2.5
MN AES	MN1612CN	1.6	48.1	12.1	1.0
MN AES	MN1806CN	1.8	47.7	12.3	1.0
Richland IFC	MK9101	1.1	45.7	12.0	1.0
Richland IFC	MK1016	1.0	40.0	12.2	1.8
Trial Average			51.4	12.2	1.2
LSD (0.05)†			2.3	0.5	0.3
C.V.‡			3.2	2.8	-

* 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.

Trial Participants:

Great Lakes Hybrids

David Hoy
9915 West M-21
Ovid, MI 48866
(800) 257-7333
DAVID.HOY@GREATLAKESHYBRIDS.COM

Halls Seed

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

Richland IFC, Inc.

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

Simplex

Mike Goudie
913 Evelyn
Perry, IA 50220
(515) 465-2122

Stine Seed Company

Katie Lorenz
501 Willow Bend Circle
Cassleton, ND 58012
(701) 490-0820
kllorenz@stineseed.com

**South Dakota Agricultural Experiment Station
Minnesota Agricultural Experiment Station**

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