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**Beresford:** 6 miles west & 3 miles south of Beresford (57342) in Clay County  
(GPS: UTM 14N, 671008 m East 4768053 m North)

Cooperator: SDSU Southeast Research Center – Peter Sexton and staff

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

Previous Crop: Corn

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pre-emergent herbicide: Glyphosate, Dual, Sharpen, & Metribuzen on May 23

Post herbicide: Dual & Raptor on June 7

Date seeded/harvested: May 23/Oct. 8

Table 1. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Beresford Maturity Group 1 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SD-AES	BROOKINGS	1.7	<b>66.7</b>	11.5	2.0	124	19.0	35.2
SDSU Exp	SD09CV-1040	.	<b>62.2</b>	11.0	2.0	121	19.1	36.9
SD-AES	DEUEL	1.1	61.3	11.0	3.7	122	19.1	36.7
SDSU Exp	SD08CV-1043	.	58.8	11.1	1.7	120	19.6	37.3
Richland IFC	CHALLENGER	1.3	55.2	11.8	3.3	122	18.5	39.8
Richland IFC	MK9101	1.1	51.3	10.2	1.0	122	20.7	35.3
Richland IFC	MK1016	1.0	46.4	11.0	4.3	118	17.8	37.5
Trial Average			57.4	11.1	2.6	121	19.1	37.0
LSD (0.05)†			5.4	0.4	1.1	3	1.0	0.7
C.V.‡			5.3	2.1	25.0	0.9	2.8	1.0

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground).

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.

## 2013 Conventional Soybean Variety Trial Results

Table 2. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Beresford Maturity Group 2 Trial**.

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SD-AES	DAVISON	2.2	<b>60.0</b>	11.1	2.7	121	18.7	35.6
SDSU Exp	SD10CV-2005	.	50.3	11.5	2.0	123	19.5	36.6
SDSU Exp	SD10CV-2013	.	50.0	11.1	2.3	123	19.6	37.4
Trial Average			53.4	11.2	2.3	122	19.3	36.5
LSD (0.05)†			2.3	0.3	NS	2	0.4	0.7
C.V.‡			1.9	1.4	17.5	0.3	1.0	0.8

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground). No significant (NS) difference between varieties.

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# 2013 Conventional Soybean Variety Trial Results

**Volga:** 1.5 miles south of Volga (57071) in Brookings County

(GPS: UTM 14N, 665888 m East 4907622 m North)

Cooperator: SDSU Volga Research Farm – Doug Doyle and staff

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

Soil Test: 4.9 % OM, 5.7 pH, 50 ppm P (Bray-P1), 143 ppm K, 1.8 ppm Zn

Previous Crop: Spring wheat

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pre-emergent herbicide: Dual

Post herbicide: None, only row cultivation

Date seeded/harvested: Jun. 3/ Oct. 1

Table 3. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Volga Maturity Group 0 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU Exp	SD08CV-0015	.	51.0	8.7	1.0	109	17.9	36.7
Richland IFC	MK831	0.8	49.1	8.4	2.0	107	17.3	36.5
SDSU Exp	SD08CV-0018	.	49.1	8.4	1.0	106	18.9	36.1
SDSU-AES	SURGE	0.7	48.7	8.7	2.0	108	18.4	37.1
SDSU-AES	CODINGTON	0.9	48.5	8.5	1.7	111	18.0	37.9
SDSU-AES	ROBERTS	0.6	47.5	8.6	2.0	103	17.8	37.5
SDSU Exp	SD09CV-0133	.	47.4	8.9	2.0	108	17.6	38.4
SDSU Exp	SD06-415	.	47.0	9.2	1.0	112	19.9	35.3
SDSU Exp	SD07CV-539	.	44.1	8.6	2.0	110	17.9	35.4
SDSU Exp	SD06-418	.	44.1	8.7	2.0	108	18.4	35.8
Richland IFC	MK0508	0.8	42.4	8.7	4.7	103	15.5	38.2
Richland IFC	MK850	0.8	41.9	8.2	1.0	107	18.7	35.8
Trial Average			46.7	8.6	1.9	107	18.0	36.7
LSD (0.05)†			3.1	0.5	0.4	1	0.6	1.3
C.V.‡			4.0	3.5	12.9	0.5	2.0	2.1

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground).

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## 2013 Conventional Soybean Variety Trial Results

Table 4. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Volga Maturity Group 1 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU Exp	SD08CV-1043	.	<b>43.2</b>	9.0	1.0	110	17.2	38.8
SDSU Exp	SD09CV-1040	.	<b>39.6</b>	9.0	1.7	111	16.3	39.1
SDSU-AES	DEUEL	1.1	38.5	9.1	3.3	112	16.8	37.8
SDSU-AES	BROOKINGS	1.7	37.4	9.2	1.0	114	14.7	39.1
Richland IFC	MK1016	1.0	36.9	8.8	2.7	111	14.7	41.2
Richland IFC	MK9101	1.1	34.0	10.3	1.0	112	20.1	35.4
Richland IFC	CHALLENGER	1.3	27.0	9.3	3.7	110	14.8	43.1
Trial Average			36.6	9.2	2.0	111	16.4	39.2
LSD (0.05)†			3.8	0.5	1.0	2	1.6	2.1
C.V.‡			5.8	3.0	28.2	0.7	5.4	3.0

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground).

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Table 5. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **Volga Maturity Group 2 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU-AES	DAVISON	2.2	<b>40.3</b>	11.2	1.0	114	15.1	39.6
SDSU Exp	SD10CV-2013	.	<b>39.0</b>	12.4	3.0	119	18.7	37.1
SDSU Exp	SD10CV-2005	.	35.4	13.3	3.7	120	18.3	37.0
Trial Average			38.2	12.3	2.6	117	17.4	37.9
LSD (0.05)†			2.2	0.9	0.8	-	0.5	0.3
C.V.‡			2.6	3.2	13.0	-	1.3	0.4

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground).

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## 2013 Conventional Soybean Variety Trial Results

**South Shore:** 8.5 miles west of South Shore (57263) in Codrington County

(GPS: UTM 14N, 649382 m East 4996615 m North)

Cooperator: SDSU Northeast Research Farm – Allen Heuer.

Soil Type: Kranzburg-Brookings silty clay loam, 0-2% slope, non-irrigated

Soil Test/Fertilizer: 18 ppm P (Bray P1), 157 ppm K / 100 lbs P<sub>2</sub>O<sub>5</sub> and 50 lbs K<sub>2</sub>O

Previous Crop: Spring wheat

Tillage: Conventional

Row Spacing: 30 inches

Seeding Rate: 165,000/acre

Pre-emergent: Dual II on June 14

Post herbicide: Harmony on July 11

Date seeded/harvested: Jun. 13/Oct. 25

Table 6. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – <b>South Shore Maturity Group 0 Trial.</b>								
Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU-AES	ROBERTS	0.6	<b>54.3</b>	14.1	1.7	107	19.6	38.8
SDSU Exp	SD07CV-539	.	<b>53.7</b>	14.2	1.3	106	19.9	36.3
SDSU-AES	CODINGTON	0.9	<b>53.5</b>	15.1	1.0	107	19.3	39.4
SDSU-AES	SURGE	0.7	<b>52.5</b>	14.4	1.7	107	18.9	40.7
SDSU Exp	SD08CV-0018	.	51.0	14.1	1.3	108	19.9	37.8
SDSU Exp	SD06-415	.	50.5	14.2	1.7	104	20.3	37.8
SDSU Exp	SD08CV-0015	.	50.2	14.0	1.3	109	18.9	39.1
SDSU Exp	SD06-418	.	49.9	14.4	2.3	109	19.7	38.3
Peterson Farms	<b>PFS L08-11§</b>	0.8	49.9	14.2	1.0	108	19.1	38.0
Richland IFC	MK831	0.8	46.7	14.7	2.7	105	17.5	40.8
SDSU Exp	SD09CV-0133	.	46.3	14.4	1.3	108	18.6	40.9
Richland IFC	MK0508	0.8	41.7	14.5	3.3	106	16.9	40.4
Richland IFC	MK850	0.8	41.0	14.4	2.0	106	19.2	40.7
Trial Average			49.3	14.4	1.7	107	19.1	39.1
LSD (0.05)†			3.1	0.3	0.9	1	0.4	1.2
C.V.‡			3.7	1.3	30.5	0.5	1.4	1.8

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground).

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§ Liberty Link variety

## 2013 Conventional Soybean Variety Trial Results

Table 7. Conventional or non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) – **South Shore Maturity Group 1 Trial.**

Varietal Information			Measurements					
Brand	Variety	Maturity Rating	Yield Bu/A (13%)	Moisture %	Lodging Score (1-5)*	Days to Maturity	Oil %	Protein %
SDSU-AES	BROOKINGS	1.7	<b>53.1</b>	14.8	1.0	115	18.7	36.9
SDSU-AES	DEUEL	1.1	49.5	14.9	1.7	108	18.7	39.2
Peterson Farms	<b>PFS L11-13N§</b>	1.1	48.0	13.9	1.3	111	18.8	38.7
SDSU Exp	SD08CV-1043	.	47.2	14.6	1.3	109	18.8	39.5
SDSU Exp	SD09CV-1040	.	45.6	13.9	1.3	111	17.9	39.3
Richland IFC	MK9101	1.1	44.4	13.9	1.0	109	20.5	36.0
Richland IFC	CHALLENGER	1.3	43.9	15.3	1.7	112	17.5	43.5
Richland IFC	MK1016	1.0	41.8	14.6	2.3	106	16.4	41.3
Trial Average			46.7	14.5	1.5	110	18.4	39.3
LSD (0.05)†			3.3	0.6	NS	1	0.7	2.1
C.V.‡			4.1	2.5	35.1	0.5	2.1	3.0

† Yield, moisture, lodging or days to maturity value required ( $\geq$ LSD) to determine if varieties are different from each other with confidence. \*Lodging score (1 = no lodging to 5 = flat on ground). No significant (NS) difference between varieties.

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