

Jonathan Kleinjan | SDSU Extension Crop Production Associate

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: 43.046221, -96.901055)

Cooperator: SDSU Southeast Research Farm - Peter Sexton, manager

Soil Type: Egan-Clarno-Trent complex, 1-6% slopes, non-irrigated

Fertilizer: None

Previous crop: Corn (cover crop: Rye)

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 Sencor (metribuzin) + 1 oz Sharpen (saflufenacil)
Post: 0.3 oz FirstRate (cloransulam) + 10 oz Flexstar (fomesafen) + 4 oz Latch (drift retardant) + 1% UAN + 1% COC

Insecticide: None

Date seeded: 6/1/2017

Date harvested: 10/17/2017

Table 1. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 1 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Peterson Farms Seed	L17-16N	1.7	75.0	9.9	1.0
Check	CHECK	1.4	73.2	9.9	1.0
Credenz	CZ 1332 LL	1.3	73.0	10.0	1.0
Thunder Seed	5712 LLN	1.2	72.8	9.9	1.0
Thunder Seed	5717 LLN	1.7	72.6	10.0	1.0
Great Lakes Hybrids	1769NLL	1.7	72.4	10.1	1.0
Miller Hybrids	17269LL	1.7	72.4	9.8	1.0
Credenz	CZ 1738 LL	1.7	69.2	10.1	1.0
Thunder Seed	5411 LLN	1.1	63.6	9.6	1.0
Trial Average			71.6	9.9	1.0
LSD (0.05)†			3.7	0.2	-
C.V.‡			3.6	1.4	-

* 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.

Table 2. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Beresford, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Stine	24LJ20	2.5	77.1	9.7	1.0
Credenz	CZ 2601 LL	2.6	76.6	9.7	1.0
Miller Hybrids	25159LL	2.5	76.2	9.6	1.0
Great Lakes Hybrids	2557NLL	2.5	75.7	9.7	1.0
Credenz	CZ 2101 LL	2.1	75.4	9.6	1.0
Credenz	CZ 2312 LL	2.3	75.1	9.3	1.0
Great Lakes Hybrids	2860NLL	2.8	74.1	10.4	1.0
Stine	26LH02	2.6	73.9	9.8	1.0
Great Lakes Hybrids	2264NLL	2.2	73.7	9.6	1.0
Stine	25LH62	2.5	73.7	9.6	1.0
Miller Hybrids	23159LL	2.3	73.7	9.4	1.0
Credenz	CZ 2510 LL	2.5	73.4	9.5	1.0
Peterson Farms Seed	L21-17N	2.1	73.1	9.6	1.0
Check	CHECK	1.4	71.2	9.6	1.0
Trial Average			74.5	9.6	1.0
LSD (0.05)†			2.9	0.3	-
C.V.‡			2.7	2.1	-

* 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.

Brookings

Location: SDSU (57007) Brookings County, SD
(GPS: 44.319737, -96.771296)

Cooperator: SDSU Research Farm - Jack Ingemansen, manager

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (metolachlor)
Post: 0.125 oz Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/31/2017

Date harvested: 10/19/2017

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

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Thunder Seed	5717 LLN	1.7	69.0	9.1	1.8
Credenz	CZ 1332 LL	1.3	67.4	9.3	1.0
Stine	19LI32	1.9	67.4	9.3	2.3
Credenz	CZ 1738 LL	1.7	67.0	9.1	2.3
Credenz	CZ 1201 LL	1.2	67.0	9.1	2.3
Check	CHECK	1.4	66.9	8.8	1.0
Peterson Farms Seed	L17-16N	1.7	66.4	9.1	2.0
Stine	17LH62	1.7	65.3	9.2	2.0
Thunder Seed	5712 LLN	1.2	65.0	9.1	2.0
Miller Hybrids	13269LL	1.3	64.8	9.2	1.8
Peterson Farms Seed	L12-16N	1.2	64.7	9.1	2.0
Credenz	CZ 1028 LL	1.0	64.5	9.2	1.0
Miller Hybrids	17269LL	1.7	63.4	9.0	1.3
Stine	13LH62	1.4	63.0	9.1	2.0
Peterson Farms Seed	L13-15N	1.3	62.8	9.1	1.0
Thunder Seed	5605 LLN	0.5	61.8	9.1	2.3
Thunder Seed	5411 LLN	1.1	61.5	8.9	1.5
Thunder Seed	5707 LLN	0.7	58.7	9.3	1.0
Trial Average			64.8	9.1	1.7
LSD (0.05)†			3.1	0.2	0.7
C.V.‡			3.4	1.6	-

* 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.

Table 4. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Group 2 at Volga, SD).

Variety Information			Agronomic Performance		
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Lodging Score (1-5)*
Credenz	CZ 2601 LL	2.6	70.8	9.5	1.3
Credenz	CZ 2312 LL	2.3	68.1	9.1	1.3
Miller Hybrids	23159LL	2.3	67.8	9.1	1.3
Credenz	CZ 2510 LL	2.5	67.1	9.3	1.3
Miller Hybrids	25159LL	2.5	66.9	9.4	1.0
Credenz	CZ 2101 LL	2.1	66.1	9.1	1.3
Check	CHECK	1.4	65.9	9.0	1.0
Trial Average			67.5	9.2	1.2
LSD (0.05)†			2.1	0.2	0.4
C.V.‡			2.1	1.7	-

* 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: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (s-metolachlor)
Post: 0.125 oz Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/26/2017

Date harvested: 10/18/2017

Table 5. Liberty Link 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	69.4	9.9	1.0
Credenz	CZ 0525 LL	0.5	66.2	9.9	1.0
Credenz	CZ 0601 LL	0.6	66.0	10.3	1.0
Thunder Seed	5707 LLN	0.7	64.3	10.4	1.0
Thunder Seed	5605 LLN	0.5	63.5	10.0	1.0
Credenz	CZ 0448 LL	0.4	62.3	10.3	1.0
Trial Average			65.2	10.1	1.0
LSD (0.05)†			2.8	0.3	-
C.V.‡			2.9	2.2	-

* 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.

Table 6. Liberty Link 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)*
Credenz	CZ 1332 LL	1.3	71.9	10.4	1.0
Credenz	CZ 1738 LL	1.7	71.4	10.2	1.5
Proseed	41-30	1.3	70.1	10.2	1.0
Credenz	CZ 1028 LL	1	69.7	10.3	1.0
Peterson Farms Seed	L17-16N	1.7	69.2	10.1	1.3
Peterson Farms Seed	L12-16N	1.2	68.7	10.1	1.5
Credenz	CZ 1201 LL	1.2	68.6	10.1	1.5
Peterson Farms Seed	L11-18N	1.1	68.3	11.1	1.0
Check	CHECK	1.4	68.1	9.9	1.0
Proseed	51-21	1.2	67.6	10.2	1.5
Thunder Seed	5717 LLN	1.7	67.4	10.2	1.8
Miller Hybrids	11269LL	1.1	67.3	10.2	1.3
Peterson Farms Seed	L13-15N	1.3	66.8	13.9	1.0
Thunder Seed	5712 LLN	1.2	65.2	10.5	1.5
Miller Hybrids	13269LL	1.3	63.6	10.5	1.3
Proseed	21-00	1.1	60.7	9.9	1.0
Thunder Seed	5411 LLN	1.1	57.7	9.8	1.0
Trial Average			67.2	10.4	1.2
LSD (0.05)†			3.2	2.6	0.5
C.V.‡			3.3	1.8	-

* 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.