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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

Previous crop: Corn

Tillage: Conventional

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. 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)*
Credenz	CZ 1845 LL	1.8	66.6	11.8	1.0
Check	Check	1.4	65.9	12.4	1.0
Thunder Seed	5411LLN	1.1	65.3	12.2	1.0
Great Lakes Hybrids	GL1769NLL	1.7	61.5	12.2	1.0
Thunder Seed	5615LLN	1.5	61.1	12.0	1.0
Credenz	CZ 1332 LL	1.3	60.6	12.4	1.0
Credenz	CZ 1623 LL	1.6	59.0	12.3	1.0
Trial Average			62.8	12.2	1.0
LSD (0.05)†			9.3	0.3	-
C.V.‡			9.9	1.6	-

* 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 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)*
NuTech	3252L	2.5	71.9	12.0	1.0
Credenz	CZ 2601 LL	2.6	70.4	11.8	1.0
Credenz	CZ 2312 LL	2.3	69.5	11.8	1.0
Great Lakes Hybrids	GL2557NLL	2.5	69.3	11.9	1.0
Great Lakes Hybrids	GL2264NLL	2.2	65.1	11.8	1.0
NuTech	3205L	2.0	63.9	12.0	1.0
Great Lakes Hybrids	GL2860NLL	2.8	63.6	11.6	1.0
Check	Check	1.4	62.1	12.0	1.0
Credenz	CZ 2101 LL	2.1	59.4	11.9	1.0
Credenz	CZ 2510 LL	2.5	56.8	11.9	1.0
Trial Average			66.4	11.9	1.0
LSD (0.05)†			8.9	0.2	-
C.V.‡			9.3	1.2	-

* 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: 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

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Metolachlor (Dual II Magnum)
Post: Harmony SG (thifensulfuron)

Insecticide: None

Date seeded: 5/12/2016

Date harvested: 10/14/2016 (Group 1), 10/17/2016 (Group 2)

Table 3. Liberty Link soybean variety performance results (average of 4 replications sorted by yield) - Maturity Groups 0 & 1 at Volga, 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	82.5	13.7	2.3
Credenz	CZ 1332 LL	1.3	81.1	14.2	2.3
NuTech	3174L	1.7	79.9	13.6	2.8
Check	Check	1.4	79.1	14.1	2.8
Credenz	CZ 1201 LL	1.2	77.0	13.7	3.0
Peterson Farms Seed	L13-15N	1.3	76.7	13.9	2.5
Peterson Farms Seed	L12-16N	1.2	76.7	14.3	3.0
Credenz	CZ 1845 LL	1.8	75.7	13.7	3.3
Thunder Seed	5615LLN	1.5	74.9	14.1	3.0
Peterson Farms Seed	L07-16N	0.7	74.8	14.4	2.0
Credenz	CZ 1623 LL	1.6	74.5	13.9	3.0
Peterson Farms Seed	L11-13N	1.1	73.0	14.2	2.8
Thunder Seed	5411LLN	1.1	72.6	13.8	2.8
Trial Average			76.8	14.0	2.7
LSD (0.05)†			4.4	0.6	0.5
C.V.‡			4.0	3.0	-

* 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 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 2312 LL	2.3	84.0	13.3	2.8
Credenz	CZ 2601 LL	2.6	76.2	14.0	3.0
NuTech	3205L	2.0	75.8	13.5	2.3
Credenz	CZ 2510 LL	2.5	75.3	13.4	3.3
Check	Check	1.4	75.3	13.6	3.0
Credenz	CZ 2101 LL	2.1	72.7	13.3	2.0
Trial Average			76.5	13.5	2.7
LSD (0.05)†			4.3	0.2	0.5
C.V.‡			3.7	1.0	-

* 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: 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: 5/17/2016

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

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	52.9	10.8	1.0
Nutech	3066L	0.6	50.5	10.9	1.0
Stine	06LH26	0.6	48.2	10.9	1.0
Stine	05LH60	0.6	48.1	11.0	1.0
Peterson Farms Seed	L07-16N	0.7	47.3	11.6	1.0
Credez	CZ 201 LL	0.5	44.7	10.8	1.0
Trial Average			48.6	11.0	1.0
LSD (0.05)†			3.6	0.3	-
C.V.‡			4.9	2.0	-

* 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 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	57.5	11.7	1.0
Stine	13LH62	1.3	57.0	12.1	1.0
Nutech	3115L	1.1	56.5	12.4	1.0
Credenz	CZ 1201 LL	1.2	55.9	12.4	1.0
Stine	14LF62	1.4	55.4	12.1	1.0
Peterson Farms Seed	L17-16N	1.7	54.8	12.3	1.0
Credenz	CZ 1845 LL	1.8	54.6	12.1	1.0
Credenz	CZ 1623 LL	1.6	54.6	12.1	1.0
Peterson Farms Seed	L12-16N	1.2	54.5	12.2	1.0
Check	Check	1.4	54.4	11.9	1.0
Peterson Farms Seed	L13-15N	1.3	53.6	11.9	1.0
Thunder Seed	5615LLN	1.5	53.5	12.1	1.0
Peterson Farms Seed	L11-13N	1.1	50.6	11.9	1.0
Thunder Seed	5411LLN	1.1	49.5	11.9	1.0
Trial Average			54.5	12.1	1.0
LSD (0.05)†			2.5	0.4	-
C.V.‡			3.2	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.