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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. Liberty Link 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)*
Credenz	CZ 2810 LL	2.8	71.4	8.2	33.8	18.9	1.5
NuTech	3252L	2.5	70.3	7.9	33.2	19.0	2.0
Credenz	CZ 1332 LL	1.3	69.5	7.7	31.7	18.5	1.3
Credenz	CZ 2312 LL	2.3	68.8	7.8	33.6	18.3	1.8
Credenz	CZ 2915 LL	2.9	68.0	8.4	34.3	18.3	2.3
NuTech	3205L	2.0	67.7	7.8	32.3	19.0	1.0
Check	Check	1.4	67.4	7.6	33.1	19.0	2.3
Credenz	CZ 1623 LL	1.6	67.3	7.9	33.6	17.9	2.5
NuTech	3273L	2.7	67.1	8.2	34.3	18.3	2.0
Credenz	CZ 2510 LL	2.5	67.0	7.7	34.1	18.1	1.8
Thunder Seed	5615LLN	1.5	66.3	7.8	33.0	18.7	2.3
Credenz	CZ 1845 LL	1.8	64.3	7.6	31.6	18.3	1.8
NuTech	3243L	2.4	63.3	7.7	33.8	18.3	1.5
Thunder Seed	5411LLN	1.1	62.6	7.7	34.1	18.2	3.0
Trial Average			67.2	7.8	33.3	18.5	1.9
LSD (0.05)†			4.4	0.2	1.2	1.2	0.6
C.V.‡			4.7	1.7	2.6	4.6	-

* 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.

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. 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 %	Protein %	Oil %	Lodging Score (1-5)*
Credenz	CZ 525 LL	0.5	61.7	9.2	35.0	19.5	2.0
Credenz	CZ 1332 LL	1.3	60.5	9.4	34.9	18.4	1.3
Credenz	CZ 1845 LL	1.8	59.2	9.9	33.1	19.6	1.8
Credenz	CZ 1623 LL	1.6	58.8	10.2	35.5	18.7	2.0
Check	Check	1.4	57.5	9.3	33.9	19.5	2.0
Credenz	CZ 848 LL	0.8	57.2	9.1	34.1	19.2	1.5
Thunder Seed	5411LLN	1.1	56.3	9.1	34.4	20.0	2.0
Thunder Seed	5615LLN	1.5	55.7	10.0	35.0	18.9	2.3
NuTech	3181L	1.8	55.1	9.9	35.5	18.7	2.0
Credenz	CZ 121 LL	0.1	48.7	9.1	33.4	19.3	2.0
Trial Average			57.1	9.5	34.5	19.2	1.9
LSD (0.05)†			2.4	0.4	0.5	0.3	0.4
C.V.‡			2.9	2.9	0.9	1.1	-

* 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

Table 3. 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 %	Protein %	Oil %	Lodging Score (1-5)*
Credenz	CZ 2510 LL	2.5	64.9	12.2	36.4	19.5	1.8
Credenz	CZ 2312 LL	2.3	62.8	11.0	36.1	18.7	2.0
NuTech	3243L	2.4	62.3	11.9	36.4	19.0	2.0
NuTech	3252L	2.5	60.0	15.6	37.7	21.0	2.3
Check	Check	1.4	57.6	10.6	34.6	19.3	2.0
NuTech	3205L	2.0	57.4	11.2	34.2	19.4	2.0
Credenz	CZ 2915 LL	2.9	53.7	31.5	41.6	21.7	2.5
Trial Average			59.8	14.8	36.7	19.8	2.1
LSD (0.05)†			2.6	0.8	0.9	0.4	0.5
C.V.‡			3.0	3.8	1.7	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.

§ 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 4. Liberty Link 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)*
NuTech	3126L	1.2	51.4	9.4	35.0	18.0	2.0
Credenz	CZ 1332 LL	1.3	48.5	9.3	35.4	18.0	2.0
Thunder Seed	5615LLN	1.5	48.5	10.6	35.9	18.4	2.0
Credenz	CZ 525 LL	0.5	47.2	8.9	34.5	19.4	2.0
Check	Check	1.4	47.0	9.1	34.8	19.2	2.0
NuTech	3181L	1.8	46.8	10.8	36.1	18.2	2.0
NuTech	3153L	1.5	44.8	10.8	37.2	18.3	2.0
Credenz	CZ 1623 LL	1.6	44.7	10.1	35.7	18.4	2.0
Credenz	CZ 848 LL	0.8	43.2	9.4	35.0	18.7	1.5
Credenz	CZ 1845 LL	1.8	42.6	10.9	36.6	17.7	2.0
Thunder Seed	5411LLN	1.1	40.9	9.0	35.7	19.1	2.0
Credenz	CZ 121 LL	0.1	37.9	8.9	32.7	19.3	2.3
Trial Average			45.3	9.8	35.4	18.5	2.0
LSD (0.05)†			2.8	0.4	0.8	0.3	0.4
C.V.‡			4.2	3.2	1.6	0.9	-

* 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.

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