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Beresford

Location: 6 miles west and 3 miles south of Beresford (57432) in Clay county, SD
(GPS: N 44°17.915' W 096°55.393')

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: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Glyphosate, Authority MTZ
Post: none (hand-weeded)

Date seeded: 5/22/2014

Date harvested: 10/14/2014

Table 1. Non-glyphosate resistant soybean variety performance results (average of 3 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)*
Check	Check	1.7	72.5	11.6	35.0	19.7	1.0
SD-AES	BROOKINGS	1.7	72.2	11.4	35.7	18.6	1.3
Royal	EXP-RS2101	1.9	70.8	11.7	38.1	17.8	1.7
SD-AES	DEUEL	1.1	70.0	10.9	36.2	18.7	2.7
SD-AES	DAVISON	2.2	68.7	11.2	36.2	17.5	1.3
Richland IFC	MK9101	1.0	58.9	10.2	35.8	19.9	1.0
Richland IFC	MK1016	1.0	52.0	12.1	37.4	17.1	1.3
Trial Average			63.3	11.3	36.3	18.5	1.5
LSD (0.05)†			3.9	0.7	0.6	0.3	0.9
C.V.‡			3.5	3.7	0.8	0.9	-

* 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.

Volga

Location: 1.5 mile south of Volga (57101) in Brookings County, SD
(GPS: N 44°17.915' W 096°55.393')

Cooperator: SDSU Volga Research Farm - Jack Ingemansen, manager

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

Fertilizer: none

Previous crop: Spring wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Harmony GT

Date seeded: 5/19/2014

Date harvested: 10/6/2014 (Groups 0&1), 10/13/14 (Group 2)

Table 2. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Group 0 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.7	57.9	9.8	33.8	17.9	1.3
Peterson Farms Seed	L08-14§	0.8	55.0	9.1	33.2	17.7	1.0
SD-AES	SURGE	0.7	52.2	9.3	33.3	18.7	1.0
SD-AES	ROBERTS	0.6	51.0	8.7	32.4	18.6	1.3
SD-AES	CODINGTON	0.9	50.2	8.9	34.9	18.0	1.0
SDSU EXP	SD07CV-539	-	49.7	10.5	32.1	19.3	1.0
SDSU EXP	SD08CV-0015	-	48.9	8.8	32.5	17.9	1.0
SDSU EXP	SD06-415	-	47.0	9.1	31.4	19.8	1.7
Richland IFC	MK0508	0.8	41.2	8.7	31.8	16.1	3.0
Trial Average			50.3	9.2	32.8	18.2	1.4
LSD (0.05)†			4.0	1.5	0.7	0.6	0.6
C.V.‡			4.6	9.3	1.3	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.

§ Liberty Link variety

Table 3. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Groups 1 & 2 at Volga, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Check	Check	1.7	56.6	11.5	35.0	18.3	1.0
SD-AES	BROOKINGS	1.7	48.3	12.4	36.0	16.9	1.0
SD-AES	DAVISON	2.2	48.2	11.8	35.8	16.7	1.0
Peterson Farms Seed	L11-13N§	1.1	48.0	11.6	35.3	18.5	1.0
SD-AES	DEUEL	1.1	47.4	11.2	35.3	17.6	1.7
Royal	EXP-RS2101	1.9	46.1	13.4	38.4	17.1	1.0
Richland IFC	MK1016	1	42.5	11.6	35.8	16.1	1.3
Richland IFC	MK9101	1	39.5	11.6	35.0	20.3	1.0
Trial Average			45.6	12.1	36.0	17.8	1.1
LSD (0.05)†			3.8	1.6	1.1	0.9	0.8
C.V.‡			4.9	7.6	1.8	2.9	-

* 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.

§ 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: 0-100-50 preplant incorporated

Previous crop: Spring Wheat

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: Dual II
Post: Poast, Harmony SG

Date seeded: 5/21/2014

Date harvested: 10/10/2014

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

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
SDSU EXP	SD08CV-0015	-	62.1	9.8	35.4	17.3	1.3
SDSU EXP	SD07CV-539	-	61.2	10.4	32.7	18.9	1.0
Check	Check	1.7	61.1	9.5	34.3	17.5	1.0
Peterson Seed Farms	L08-14§	0.8	59.0	10.0	34.9	17.5	1.0
SD-AES	ROBERTS	0.6	59.0	9.7	34.6	18.1	1.0
SD-AES	SURGE	0.7	58.7	9.5	35.7	17.6	1.0
SD-AES	CODINGTON	0.9	57.9	9.4	35.2	17.9	1.0
SDSU EXP	SD06-415	-	55.7	9.7	34.4	18.7	1.3
Richland IFC	MK0508	0.8	50.0	9.4	33.9	15.9	3.7
Trial Average			58.3	9.7	34.6	17.7	1.4
LSD (0.05)†			2.3	0.7	0.7	0.3	0.5
C.V.‡			2.3	4.2	1.2	1.1	-

* 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.

§ Liberty Link variety

Table 5. Non-glyphosate resistant soybean variety performance results (average of 3 replications sorted by yield) - Maturity Group 1 at South Shore, SD).

Variety Information			Agronomic Performance				
Brand	Variety	Maturity Rating	Yield (bu/ac@13%)	Moisture %	Protein %	Oil %	Lodging Score (1-5)*
Royal	EXP-RS2101	1.9	64.2	11.6	38.4	16.5	2.3
Check	Check	1.7	61.9	9.4	33.9	17.4	1.3
SD-AES	DEUEL	1.1	59.8	10.5	36.2	16.9	2.0
Peterson Farms Seed	L11-13N§	1.1	59.5	10.5	35.3	17.8	1.0
SD-AES	BROOKINGS	1.7	58.9	12.3	36.5	17.3	1.3
Richland IFC	MK1016	1.0	49.0	9.2	36.4	14.9	3.0
Richland IFC	MK9101	1.0	48.9	11.3	35.4	20.0	1.0
Trial Average			55.9	11.5	36.3	17.6	1.8
LSD (0.05)†			4.5	1.3	0.8	0.7	0.6
C.V.‡			4.7	6.4	1.2	2.4	-

* 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.

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