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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: Glyphosate

Date seeded: 5/21/2014

Date harvested: 10/10/2014

Table 1. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 0 at South Shore, SD).

| Variety Information | | | Agronomic Performance | | |
|----------------------|--------------|-----------------|-----------------------|------------|----------------------|
| Brand | Variety | Maturity Rating | Yield (bu/ac@13%) | Moisture % | Lodging Score (1-5)* |
| Wensman | 3090NR2 | 0.8 | 68.7 | 10.1 | 1.0 |
| Prairie Brand | PB-1234R2 | 0.9 | 68.2 | 10.5 | 1.0 |
| Legacy Seeds | LS0833 NRR2 | 0.8 | 68.1 | 10.3 | 1.3 |
| Peterson Farms Seed | 14R09N | 0.9 | 67.6 | 10.3 | 1.0 |
| Dairyland Seeds | DSR-0904/R2Y | 0.9 | 67.3 | 10.2 | 1.0 |
| Dairyland Seeds | DSR-0711/R2Y | 0.7 | 66.8 | 10.4 | 1.0 |
| Peterson Farms Seed | 13R08N | 0.8 | 66.7 | 10.2 | 1.0 |
| Nuseed | 2093 RR2YN | 0.9 | 66.6 | 10.4 | 1.3 |
| Federal Hybrids | F084NRR2Y | 0.8 | 66.4 | 10.4 | 1.3 |
| Prairie Brand | PB-0777R2 | 0.7 | 66.3 | 10.3 | 1.0 |
| Wensman | 3076R2 | 0.7 | 65.7 | 10.1 | 1.0 |
| Check | Check | 1.7 | 65.6 | 10.2 | 1.0 |
| Prairie Brand | PB-0863R2 | 0.8 | 65.4 | 10.2 | 1.0 |
| Sodak Genetics | SD2091R2Y | 0.9 | 63.8 | 10.0 | 1.0 |
| Nuseed | 2074 RR2YN | 0.7 | 61.0 | 10.2 | 1.0 |
| Nutech/G2 Genetics | 6084R2 | 0.8 | 60.8 | 10.2 | 1.0 |
| Prairie Brand | PB-1147R2 | 0.9 | 58.7 | 10.7 | 2.0 |
| Trial Average | | | 65.5 | 10.3 | 1.1 |
| LSD (0.05)† | | | 3.1 | 0.2 | 0.4 |
| C.V.‡ | | | 3.0 | 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.

Table 2a. Glyphosate-resistant soybean variety performance results (average of 3 replications) - Maturity Group 1 at South Shore, SD).

| Variety Information | | | Agronomic Performance | | |
|----------------------|--------------|-----------------|-----------------------|------------|----------------------|
| Brand | Variety | Maturity Rating | Yield (bu/ac@13%) | Moisture % | Lodging Score (1-5)* |
| Peterson Farms Seed | 14R13 | 1.3 | 69.7 | 10.0 | 1.0 |
| Stine | 10RD03 | 1.0 | 69.7 | 9.9 | 1.3 |
| NK Brand | S14-J7 | 1.4 | 68.7 | 10.2 | 1.0 |
| NK Brand | S12-H2 | 1.2 | 68.2 | 10.0 | 1.0 |
| NK Brand | S10-P9 | 1.0 | 68.0 | 10.0 | 1.0 |
| Wensman | W 3128R2 | 1.2 | 68.0 | 10.1 | 1.0 |
| Wensman | W 3160NR2 | 1.6 | 67.3 | 10.4 | 1.0 |
| Nutech/G2 Genetics | 6112 | 1.1 | 67.2 | 10.1 | 1.0 |
| Proseed | 30-12 | 1.2 | 67.0 | 10.4 | 1.3 |
| Dairyland Seeds | DSR-1340/R2Y | 1.3 | 66.9 | 10.2 | 1.0 |
| Prairie Brand | PB-1611R2 | 1.6 | 66.8 | 11.4 | 1.0 |
| Proseed | 30-11 | 1.1 | 66.5 | 10.2 | 1.0 |
| Pioneer | P10T02R | 1.0 | 66.3 | 10.2 | 2.0 |
| Peterson Farms Seed | 15R14N | 1.4 | 66.3 | 10.0 | 1.0 |
| Wensman | W 3102NR2 | 1.0 | 66.2 | 10.2 | 1.3 |
| Peterson Farms Seed | 14R11N | 1.1 | 66.2 | 10.1 | 1.3 |
| Wensman | W 3158NR2 | 1.5 | 66.2 | 10.1 | 1.0 |
| REA Hybrids | 71G14 | 1.1 | 66.2 | 10.6 | 1.7 |
| Sodak Genetics | SD2172R2Y | 1.7 | 66.1 | 9.9 | 1.0 |
| Nuseed | 2122 RR2YN | 1.2 | 66.1 | 10.4 | 1.0 |
| Nutech/G2 Genetics | 7104 | 1.0 | 65.9 | 10.1 | 2.0 |
| Proseed | PX411N | 1.0 | 65.7 | 10.5 | 1.3 |
| Channel | 1207R2 | 1.2 | 65.5 | 10.2 | 2.0 |
| Legacy Seeds | LS1314 NRR2 | 1.3 | 65.5 | 10.3 | 1.0 |
| Hefty | EXP H15R5 | 1.5 | 65.4 | 10.2 | 1.0 |
| Prairie Brand | PB-1566R2 | 1.5 | 65.2 | 10.8 | 1.0 |
| Prairie Brand | PB-1947R2 | 1.9 | 65.1 | 11.1 | 2.3 |
| Check | Check | 1.7 | 65.0 | 9.9 | 1.0 |
| Titan Pro | 15M22 | 1.5 | 64.7 | 10.5 | 1.0 |
| Dairyland Seeds | DSR-1515/R2Y | 1.5 | 64.6 | 10.0 | 1.0 |
| Trial Average | | | 64.4 | 10.4 | 1.4 |
| LSD (0.05)† | | | 3.0 | 0.7 | 0.7 |
| C.V.‡ | | | 2.9 | 4.2 | |

* 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.

Table 2b. Glyphosate-resistant soybean variety performance results, continued (average of 3 replications) - Maturity Group 1 at South Shore, SD).

| Variety Information | | | Agronomic Performance | | |
|----------------------|--------------|-----------------|-----------------------|------------|----------------------|
| Brand | Variety | Maturity Rating | Yield (bu/ac@13%) | Moisture % | Lodging Score (1-5)* |
| Hefty | EXP H13R5 | 1.3 | 64.6 | 10.5 | 2.0 |
| Great Lakes Hybrids | 1441R2 | 1.4 | 64.5 | 10.1 | 1.0 |
| Pioneer | P13T99R | 1.3 | 64.5 | 10.4 | 1.0 |
| Wensman | W 3121NR2 | 1.2 | 64.3 | 10.1 | 1.0 |
| REA Hybrids | R1215 | 1.2 | 64.2 | 10.2 | 2.0 |
| Channel | 1308R2 | 1.3 | 64.0 | 10.2 | 1.7 |
| Great Lakes Hybrids | 1829R2 | 1.8 | 63.9 | 11.7 | 2.0 |
| Nutech/G2 Genetics | 7157 | 1.5 | 63.8 | 9.9 | 1.0 |
| Pioneer | P19T60R | 1.9 | 63.7 | 10.3 | 1.3 |
| Prairie Brand | PB-1466R2 | 1.4 | 63.6 | 10.5 | 2.0 |
| Dairyland Seeds | DSR-1120/R2Y | 1.1 | 63.5 | 10.2 | 1.3 |
| Sodak Genetics | SD2101R2Y | 1.0 | 63.5 | 10.0 | 1.0 |
| NK Brand | S15-P1 | 1.5 | 63.3 | 11.0 | 2.3 |
| REA Hybrids | 71G20 | 1.1 | 63.2 | 10.3 | 2.7 |
| Peterson Farms Seed | 12R12 | 1.1 | 63.1 | 10.2 | 1.0 |
| Prairie Brand | PB-1956R2 | 1.9 | 62.7 | 12.2 | 1.7 |
| Prairie Brand | PB-1822R2 | 1.8 | 62.7 | 11.2 | 1.3 |
| Hefty | EXP H16R5 | 1.6 | 62.5 | 10.5 | 1.0 |
| Stine | 14RF06 | 1.4 | 62.5 | 10.5 | 1.7 |
| Channel | 1508R2 | 1.2 | 62.0 | 10.4 | 1.7 |
| Nutech/G2 Genetics | 6143 | 1.4 | 61.7 | 10.1 | 1.3 |
| REA Hybrids | R1515 | 1.5 | 61.6 | 10.9 | 2.0 |
| Pioneer | P16T04R | 1.6 | 61.4 | 10.5 | 1.0 |
| Prairie Brand | PB-1794R2 | 1.7 | 61.3 | 13.0 | 2.0 |
| Federal Hybrids | F143RR2Y | 1.4 | 61.3 | 10.4 | 2.0 |
| Channel | 1108R2 | 1.1 | 61.2 | 10.3 | 2.3 |
| Proseed | 30-18 | 1.8 | 61.1 | 10.9 | 1.0 |
| REA Hybrids | 75G12 | 1.5 | 60.1 | 10.1 | 1.0 |
| Legacy Seeds | LS1134 NRR2 | 1.1 | 58.0 | 10.5 | 2.7 |
| Federal Hybrids | F115NRR2Y | 1.1 | 57.8 | 10.4 | 2.3 |
| Hefty | EXP H11R5 | 1.1 | 57.1 | 10.4 | 2.7 |
| Trial Average | | | 64.4 | 10.4 | 1.4 |
| LSD (0.05)† | | | 3.0 | 0.7 | 0.7 |
| C.V.‡ | | | 2.9 | 4.2 | |

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† Yield or moisture value required (\geq LSD) to determine if varieties are significantly different from one another.

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