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2017 South Dakota Soybean Variety Trial Results - South Shore

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Location: 8.5 miles west of South Shore (57263) in Codington County, SD
(GPS: 43.046221, -96.901055)

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: 32 oz Roundup (glyphosate)

Insecticide: None

Date seeded: 5/26/2017

Date harvested: 10/18/2017

Table 1. Glyphosate-resistant soybean variety performance results (average of 4 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)* |
| Prairie Brand | PB-0987R2 | 0.9 | 70.0 | 10.5 | 1.0 |
| Federal Hybrids | F087N RR2Y | 0.8 | 69.9 | 10.6 | 1.0 |
| Check | CHECK | 1.4 | 67.7 | 10.5 | 1.0 |
| Dairyland Seed | DSR-0988/R2Y | 0.9 | 67.1 | 10.6 | 1.0 |
| Wensman | W1060NRX | 0.6 | 66.8 | 10.5 | 1.0 |
| Renk | RS096NR2 | 0.9 | 66.8 | 10.6 | 1.0 |
| Thunder Seed | SB8805N | 0.5 | 66.6 | 10.2 | 1.0 |
| Legacy Seeds | LS-0836N RR2X | 0.8 | 66.5 | 10.8 | 1.0 |
| Legacy Seeds | LS-0935N RR2 | 0.9 | 66.0 | 10.7 | 1.0 |
| Titan Pro | TP-08X17 | 0.8 | 65.9 | 10.5 | 1.0 |
| Dairyland Seed | DSR-0807/R2Y | 0.8 | 65.9 | 10.2 | 1.0 |
| Prairie Brand | PB-0777R2 | 0.7 | 65.9 | 10.6 | 1.0 |
| Renk | RS078NX | 0.7 | 65.3 | 10.5 | 1.0 |
| Federal Hybrids | F0880N R2X | 0.8 | 65.2 | 10.3 | 1.0 |
| Peterson Farms Seed | 17X09N | 0.9 | 65.1 | 10.7 | 1.0 |
| Peterson Farms Seed | 18X08N | 0.8 | 64.6 | 10.6 | 1.0 |
| Thunder Seed | 3408 R2YN | 0.8 | 64.3 | 10.7 | 1.0 |
| Wensman | W1086NRX | 0.8 | 63.2 | 10.6 | 1.0 |
| Wensman | W1074NRX | 0.7 | 62.9 | 10.3 | 1.0 |
| Thunder Seed | 3606 R2YN | 0.6 | 62.1 | 10.6 | 1.0 |
| Titan Pro | TP-06X57 | 0.6 | 61.5 | 10.4 | 1.0 |
| Thunder Seed | SB8703 | 0.3 | 59.4 | 10.3 | 1.5 |
| Thunder Seed | SB8807N | 0.7 | 57.6 | 10.5 | 1.0 |
| Trial Average | | | 65.1 | 10.5 | 1.0 |
| LSD (0.05)† | | | 2.5 | 0.2 | 0.2 |
| C.V.‡ | | | 2.8 | 1.7 | - |

* 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. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ 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 4 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)* |
| Federal Hybrids | F154N RR2Y | 1.5 | 72.2 | 10.3 | 1.0 |
| Federal Hybrids | F147N RR2Y | 1.4 | 70.4 | 10.2 | 1.5 |
| Dairyland Seed | DSR-1526/R2Y | 1.5 | 69.9 | 10.3 | 1.0 |
| Check | CHECK | 1.4 | 69.4 | 10.1 | 1.0 |
| Prairie Brand | PB-1257R2 | 1.2 | 68.8 | 10.3 | 1.8 |
| Titan Pro | TP-14X27 | 1.4 | 68.0 | 10.5 | 1.0 |
| Federal Hybrids | F1680N R2X | 1.6 | 68.0 | 10.3 | 1.0 |
| Prairie Brand | PB-1566R2 | 1.5 | 67.8 | 10.2 | 1.0 |
| Titan Pro | TP-18X97 | 1.8 | 67.8 | 11.1 | 1.5 |
| Wensman | W1129NRX | 1.2 | 67.8 | 10.2 | 1.3 |
| Dairyland Seed | DSR-1120/R2Y | 1.1 | 67.5 | 10.1 | 1.3 |
| Renk | RS118NX | 1.1 | 67.4 | 10.4 | 1.0 |
| Wensman | W1140NRX | 1.4 | 67.3 | 10.2 | 1.3 |
| Federal Hybrids | F1480N R2X | 1.4 | 67.2 | 10.4 | 1.0 |
| Prairie Brand | PB-1376R2 | 1.3 | 67.2 | 10.2 | 1.3 |
| Thunder Seed | SB8811N | 1.1 | 67.1 | 10.5 | 1.0 |
| Legacy Seeds | LS-1335N RR2 | 1.3 | 67.1 | 10.2 | 1.3 |
| Legacy Seeds | LS-1638N RR2X | 1.6 | 67.0 | 10.4 | 1.0 |
| Dairyland Seed | DSR-1313/R2Y | 1.3 | 66.9 | 10.2 | 1.8 |
| Wensman | W1165NRX | 1.6 | 66.7 | 10.5 | 1.0 |
| Legacy Seeds | LS-1134N RR2 | 1.1 | 66.5 | 10.5 | 1.5 |
| Titan Pro | TP-16X77 | 1.6 | 66.5 | 10.6 | 1.3 |
| Dairyland Seed | DSR-1475/R2Y | 1.4 | 66.5 | 10.2 | 1.0 |
| Legacy Seeds | LS-1338N RR2X | 1.3 | 66.4 | 10.1 | 1.0 |
| Peterson Farms Seed | 18X11N | 1.1 | 66.4 | 10.4 | 1.3 |
| Trial Average | | | 66.9 | 10.4 | 1.2 |
| LSD (0.05)† | | | 2.6 | 0.2 | 0.5 |
| C.V.‡ | | | 2.8 | 1.4 | - |

* 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. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ 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 4 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)* |
| Prairie Brand | PB-1787R2 | 1.7 | 66.3 | 10.4 | 1.5 |
| Thunder Seed | 3614 R2YN | 1.4 | 66.1 | 10.2 | 1.5 |
| Prairie Brand | PB-1947R2 | 1.9 | 65.7 | 10.6 | 1.3 |
| Wensman | W1121NRX | 1.2 | 65.6 | 10.5 | 1.0 |
| Titan Pro | TP-11X37 | 1.1 | 65.5 | 10.6 | 1.3 |
| Federal Hybrids | F1180N R2X | 1.1 | 64.9 | 10.5 | 1.0 |
| Legacy Seeds | LS-1138N RR2X | 1.1 | 64.4 | 10.2 | 1.0 |
| Legacy Seeds | LS-1136N RR2X | 1.1 | 63.8 | 10.5 | 1.0 |
| Wensman | W1106NRX | 1.0 | 62.2 | 10.4 | 1.0 |
| Thunder Seed | SB8710N | 1.0 | 61.2 | 10.4 | 1.0 |
| Trial Average | | | 66.9 | 10.4 | 1.2 |
| LSD (0.05)† | | | 2.6 | 0.2 | 0.5 |
| C.V.‡ | | | 2.8 | 1.4 | - |

* 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. Yield values statistically similar to the overall trial winner are shown in **boldface**.

‡ C.V. is a measure of variability or experimental error, 15% or less is acceptable.