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Location: SDSU (57007) Brookings County, SD  
(GPS: 44.319737, -96.771296)

Cooperator: SDSU Research Farm - Jack Ingemansen, manager

Soil Type: Barnes clay loam, 0-2% slopes

Fertilizer: None

Previous crop: Corn

Tillage: Conventional

Row spacing: 30 inches

Seeding Rate: 165,000/acre

Herbicide: Pre: 1 pt Dual II Magnum (metolachlor)  
Post: 32 oz Roundup Power Max (glyphosate)

Insecticide: None

Date seeded: 5/31/2017

Date harvested: 10/13/2017 (Group 0&1), 10/19/2017 (Group 2)

| Table 1. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 0 at Brookings, SD). |               |                 |                       |            |                      |
|---|---------------|-----------------|-----------------------|------------|----------------------|
| Variety Information   |               |                 | Agronomic Performance |            |                      |
| Brand   | Variety       | Maturity Rating | Yield (bu/ac@13%)     | Moisture % | Lodging Score (1-5)* |
| Check   | CHECK         | 1.4             | 64.9                  | 10.2       | 1.0                  |
| Legacy Seeds  | LS-0935N RR2  | 0.9             | <b>64.5</b>           | 10.4       | 1.0                  |
| Legacy Seeds  | LS-0836N RR2X | 0.8             | <b>64.4</b>           | 10.3       | 1.0                  |
| Thunder Seed  | 3408 R2YN     | 0.8             | <b>63.3</b>           | 10.3       | 1.0                  |
| Thunder Seed  | SB8807N       | 0.7             | 59.2                  | 10.3       | 1.0                  |
| Thunder Seed  | SB8805N       | 0.5             | 57.4                  | 9.9        | 1.0                  |
| Thunder Seed  | SB8703        | 0.3             | 56.9                  | 10.0       | 2.5                  |
| Thunder Seed  | 3606 R2YN     | 0.6             | 54.5                  | 10.2       | 1.0                  |
| <b>Trial Average</b>  |               |                 | 60.7                  | 10.2       | 1.2                  |
| <b>LSD (0.05)†</b>  |               |                 | 2.7                   | 0.2        | 0.3                  |
| <b>C.V.‡</b>  |               |                 | 3.1                   | 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. 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 Brookings, SD).

| Variety Information  |               | Agronomic Performance |                   |            |                      |
|----------------------|---------------|-----------------------|-------------------|------------|----------------------|
| Brand                | Variety       | Maturity Rating       | Yield (bu/ac@13%) | Moisture % | Lodging Score (1-5)* |
| Stine                | 19BA23        | 1.9                   | <b>72.6</b>       | 11.0       | 1.0                  |
| Wensman              | W1184NRX      | 1.8                   | <b>70.4</b>       | 10.5       | 1.5                  |
| Prairie Brand        | PB-1787R2     | 1.7                   | <b>69.9</b>       | 9.8        | 1.3                  |
| Prairie Brand        | PB-1956R2     | 1.9                   | 69.0              | 11.1       | 1.8                  |
| Stine                | 18XB32        | 1.8                   | 68.9              | 10.5       | 1.3                  |
| Federal Hybrids      | F154N RR2Y    | 1.5                   | 68.6              | 9.8        | 1.0                  |
| Prairie Brand        | PB-1566R2     | 1.5                   | 68.4              | 10.1       | 1.0                  |
| Renk                 | RS188NX       | 1.8                   | 68.0              | 10.2       | 1.0                  |
| Dairyland Seed       | DSR-1721/R2Y  | 1.7                   | 68.0              | 10.1       | 1.8                  |
| Federal Hybrids      | F1880N R2X    | 1.8                   | 67.6              | 10.4       | 1.3                  |
| Dairyland Seed       | DSR-1870/R2Y  | 1.8                   | 67.6              | 10.3       | 1.0                  |
| Prairie Brand        | PB-1822R2     | 1.8                   | 67.2              | 10.0       | 1.0                  |
| Prairie Brand        | PB-1947R2     | 1.9                   | 67.1              | 10.1       | 1.3                  |
| Federal Hybrids      | F1680N R2X    | 1.6                   | 67.0              | 10.1       | 1.5                  |
| Titan Pro            | TP-14X27      | 1.4                   | 66.9              | 10.0       | 1.0                  |
| Titan Pro            | TP-18X97      | 1.8                   | 66.7              | 10.6       | 1.0                  |
| Check                | CHECK         | 1.4                   | 66.4              | 9.7        | 1.3                  |
| Titan Pro            | TP-16X77      | 1.6                   | 66.2              | 10.1       | 1.3                  |
| Peterson Farms Seed  | 18X14N        | 1.4                   | 66.2              | 10.0       | 1.0                  |
| Peterson Farms Seed  | 18X11N        | 1.1                   | 66.2              | 10.0       | 1.0                  |
| Thunder Seed         | SB8710N       | 1.0                   | 66.0              | 9.9        | 1.0                  |
| Wensman              | W1140NRX      | 1.4                   | 66.0              | 9.7        | 1.0                  |
| Legacy Seeds         | LS-1335N RR2  | 1.3                   | 65.9              | 9.6        | 1.0                  |
| Dairyland Seed       | DSR-1950/R2Y  | 1.9                   | 65.8              | 10.0       | 1.3                  |
| Thunder Seed         | SB8811N       | 1.1                   | 65.6              | 9.8        | 1.0                  |
| Legacy Seeds         | LS-1338N RR2X | 1.3                   | 65.2              | 9.8        | 1.0                  |
| Peterson Farms Seed  | 17X18N        | 1.8                   | 65.2              | 9.9        | 1.0                  |
| Wensman              | W1165NRX      | 1.6                   | 65.0              | 10.0       | 1.3                  |
| Legacy Seeds         | LS-1138N RR2X | 1.1                   | 65.0              | 9.8        | 1.0                  |
| Renk                 | RS147NR2      | 1.4                   | 64.9              | 9.8        | 1.3                  |
| <b>Trial Average</b> |               |                       | 66.2              | 10.0       | 1.2                  |
| <b>LSD (0.05)†</b>   |               |                       | 2.8               | 0.4        | 0.5                  |
| <b>C.V.‡</b>         |               |                       | 3.0               | 2.8        | -                    |

\* 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 Brookings, SD).

| Variety Information  |               | Agronomic Performance |                   |            |                      |
|----------------------|---------------|-----------------------|-------------------|------------|----------------------|
| Brand                | Variety       | Maturity Rating       | Yield (bu/ac@13%) | Moisture % | Lodging Score (1-5)* |
| Renk                 | RS147NR2      | 1.4                   | 64.9              | 9.8        | 1.3                  |
| Peterson Farms Seed  | 18X16N        | 1.6                   | 64.7              | 10.0       | 1.8                  |
| Wensman              | W1173NRX      | 1.7                   | 64.7              | 10.0       | 1.5                  |
| Stine                | 19RF32        | 1.9                   | 64.5              | 10.0       | 1.0                  |
| Renk                 | RS168NX       | 1.6                   | 64.0              | 10.0       | 1.8                  |
| Renk                 | RS148NX       | 1.4                   | 64.0              | 9.9        | 1.0                  |
| Legacy Seeds         | LS-1134N RR2  | 1.1                   | 63.9              | 10.1       | 2.3                  |
| Thunder Seed         | 3614 R2YN     | 1.4                   | 63.5              | 9.7        | 1.0                  |
| Peterson Farms Seed  | 18X13N        | 1.3                   | 63.4              | 9.8        | 1.0                  |
| Legacy Seeds         | LS-1638N RR2X | 1.6                   | 62.9              | 10.1       | 1.3                  |
| Legacy Seeds         | LS-1136N RR2X | 1.1                   | 62.4              | 10.1       | 1.0                  |
| Stine                | 15BA30        | 1.5                   | 62.2              | 10.2       | 1.0                  |
| <b>Trial Average</b> |               |                       | 66.2              | 10.0       | 1.2                  |
| <b>LSD (0.05)†</b>   |               |                       | 2.8               | 0.4        | 0.5                  |
| <b>C.V.‡</b>         |               |                       | 3.0               | 2.8        | -                    |

\* 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. 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 3. Glyphosate-resistant soybean variety performance results (average of 4 replications) - Maturity Group 2 at Brookings, SD).

| Variety Information  |              | Agronomic Performance |                   |            |                      |
|----------------------|--------------|-----------------------|-------------------|------------|----------------------|
| Brand                | Variety      | Maturity Rating       | Yield (bu/ac@13%) | Moisture % | Lodging Score (1-5)* |
| Dairyland Seed       | DSR-2110/R2Y | 2.1                   | <b>69.8</b>       | 9.1        | 1.0                  |
| Renk                 | RS207NX      | 2.0                   | <b>68.7</b>       | 9.3        | 1.5                  |
| Wensman              | W1208NRX     | 2.0                   | <b>68.6</b>       | 9.2        | 2.5                  |
| Credenz              | CZ 2188 BGT  | 2.1                   | <b>68.1</b>       | 9.4        | 1.3                  |
| Titan Pro            | TP-21X46     | 2.1                   | <b>67.6</b>       | 9.2        | 1.5                  |
| Prairie Brand        | PB-2419R2    | 2.4                   | 66.7              | 9.2        | 1.5                  |
| Titan Pro            | TP-24X87     | 2.4                   | 66.2              | 10.2       | 1.5                  |
| Prairie Brand        | PB-2296R2    | 2.2                   | 65.9              | 9.3        | 2.3                  |
| Titan Pro            | TP-20X57     | 2.0                   | 65.8              | 9.4        | 1.0                  |
| Federal Hybrids      | F2280N R2X   | 2.2                   | 65.5              | 9.2        | 1.0                  |
| Federal Hybrids      | F2480N R2X   | 2.4                   | 65.5              | 10.0       | 1.5                  |
| Federal Hybrids      | F2170N R2X   | 2.1                   | 65.5              | 9.2        | 1.8                  |
| Wensman              | W1220NRX     | 2.2                   | 65.3              | 9.2        | 1.3                  |
| Wensman              | W1218NRX     | 2.1                   | 65.1              | 9.5        | 1.5                  |
| Check                | CHECK        | 1.4                   | 63.7              | 9.1        | 1.0                  |
| Renk                 | RS208NX      | 2.0                   | 63.1              | 9.4        | 1.0                  |
| Titan Pro            | TP-24R26     | 2.4                   | 62.8              | 9.3        | 1.3                  |
| Federal Hybrids      | F2080N R2X   | 2.0                   | 62.0              | 9.4        | 1.0                  |
| <b>Trial Average</b> |              |                       | 65.9              | 9.4        | 1.4                  |
| <b>LSD (0.05)†</b>   |              |                       | 2.6               | 0.3        | 0.6                  |
| <b>C.V.‡</b>         |              |                       | 2.8               | 2.2        | -                    |

\* 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.