



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2022 South Dakota Conventional Soybean Variety Trial Results Brookings

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Location: 3 miles north of Brookings (57006) in Brookings County, SD
44.362513°, -96.790418°

Cooperator: SDSU Felt Family Research Farm

Soil Type: Vienna-Brookings complex, 0-2% slopes

Fertilizer: none

Previous crop: corn

Tillage: conventional

Row spacing: 30 inches

Seeding Rate: **150,000/acre**

Herbicide: Pre: 1 pt/acre Dual II Magnum
Post: 12 oz/acre Volunteer + 1 pt/acre Ultra Blazer

Insecticide: none

Date seeded: 5/27/2022

Date harvested: 10/13/2022

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Table 1. Conventional soybean 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)* |
| Viking Seed | 0821N | 0.8 | 67.7 | 8.2 | 2.5 |
| Check | AG15XF2 | 1.5 | 65.0 | 8.3 | 1.5 |
| Richland IFC | MK808CN | 0.8 | 63.7 | 8.3 | 4.0 |
| MN AES | M13-250056 | 0.8 | 62.2 | 8.1 | 2.8 |
| Sevita International | FINCH | 0.9 | 62.1 | 8.1 | 1.0 |
| Sevita International | SVX21TOS15 | 0.7 | 58.8 | 8.1 | 1.3 |
| Richland IFC | MK0603 | 0.6 | 54.6 | 8.4 | 4.8 |
| Sevita International | DUNHAM | 0.7 | 54.4 | 8.2 | 1.5 |
| SD AES | CODINGTON | 0.9 | 54.4 | 8.2 | 1.5 |
| Trial Average | | | 60.3 | 8.2 | 2.3 |
| LSD (0.05)† | | | 3.3 | 0.3 | - |
| C.V.‡ | | | 3.7 | - | - |

* 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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Table 2. Conventional soybean performance results (average of 4 replications - **Maturity Group I**) at Brookings, SD.

| Variety Information | | Agronomic Performance | | | |
|----------------------|------------|-----------------------|-----------------------|--------------|-------------------------|
| Brand | Variety | Maturity Rating | Yield (bu/ ac@13%) | Moisture (%) | Lodging Score (1-5)* |
| Viking Seed | 1223N | 1.2 | 69.8 | 8.1 | 1.5 |
| Viking Seed | O.1718N | 1.7 | 66.5 | 8.1 | 1.0 |
| Virtue | V1323 S | 1.3 | 66.4 | 8.2 | 1.3 |
| Miller Hybrids | 1598 | 1.5 | 65.6 | 8.2 | 1.0 |
| SD AES | BROOKINGS | 1.7 | 65.0 | 8.4 | 2.5 |
| Virtue | V1621 | 1.6 | 64.5 | 8.0 | 1.0 |
| Virtue | V1821 | 1.8 | 64.1 | 8.1 | 1.3 |
| Miller Hybrids | 1968 | 1.9 | 63.9 | 8.3 | 2.3 |
| MN AES | M13-250046 | 1.5 | 63.1 | 8.0 | 3.8 |
| MN AES | MN1510HO | 1.5 | 62.9 | 8.1 | 1.8 |
| MN AES | MN1901CN | 1.9 | 62.7 | 8.1 | 3.5 |
| Sevita International | ODESSA | 1.1 | 62.6 | 8.2 | 2.3 |
| Check | AG15XF2 | 1.5 | 62.6 | 8.0 | 1.0 |
| Sevita International | SVX4005-P1 | 1.5 | 62.5 | 8.0 | 1.5 |
| Viking Seed | 1518N | 1.5 | 62.1 | 8.5 | 1.3 |
| Sevita International | BARTON | 1.4 | 61.5 | 8.6 | 3.3 |
| MN AES | M07-297007 | 1.8 | 61.4 | 8.2 | 1.8 |
| Brushvale Seed | BS1146 | 1.2 | 61.4 | 7.8 | 1.3 |
| Sevita International | CANDOR | 1.9 | 61.0 | 8.4 | 2.3 |
| Brushvale Seed | BS1512 | 1.5 | 60.8 | 8.0 | 2.3 |
| MN AES | MN1807CN | 1.8 | 60.0 | 8.1 | 1.3 |
| Richland IFC | MK41 | 1.1 | 59.9 | 8.2 | 4.3 |
| Sevita International | SKYLINE | 1.1 | 57.0 | 8.2 | 3.5 |
| Richland IFC | MK1016 | 1.0 | 55.7 | 8.6 | 4.0 |
| Richland IFC | MK9101 | 1.1 | 54.1 | 8.3 | 2.0 |
| Richland IFC | MK1423 | 1.4 | 54.0 | 8.8 | 2.3 |
| Richland IFC | MK1023 | 1.0 | 53.7 | 8.5 | 2.0 |
| Trial Average | | | 61.7 | 8.2 | 2.1 |
| LSD (0.05)† | | | 2.1 | 0.3 | - |
| C.V.‡ | | | 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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Table 3. Conventional soybean performance results (average of 4 replications - **Maturity Group II**) at Brookings, SD.

| Variety Information | | Agronomic Performance | | | |
|----------------------|------------|-----------------------|-----------------------|--------------|-------------------------|
| Brand | Variety | Maturity Rating | Yield (bu/ ac@13%) | Moisture (%) | Lodging Score (1-5)* |
| Viking Seed | 2022N | 2.0 | 69.5 | 8.3 | 1.0 |
| Miller Hybrids | 2368 | 2.3 | 62.1 | 8.3 | 2.8 |
| Check | AG15XF2 | 1.5 | 61.4 | 8.4 | 1.0 |
| Richland IFC | MK373 | 2.0 | 59.6 | 8.6 | 1.8 |
| Viking Seed | 2155N | 2.1 | 57.8 | 8.9 | 1.3 |
| Sevita International | SVX21T2S27 | 2.0 | 54.8 | 8.3 | 1.0 |
| Viking Seed | 2418N | 2.4 | 54.0 | 8.4 | 1.0 |
| Trial Average | | | 59.9 | 8.4 | 1.4 |
| LSD (0.05)† | | | 2.7 | 0.3 | - |
| C.V.‡ | | | 3.0 | - | - |

* 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.