# Mississippi State University Extension Service

## Soybean Seed Quality Results for MG IV Varieties from the 2018 On-Farm Variety Demonstration

Table 1. Damaged Kernels Total (DKT) Score by Individual County Location

| **Brand** | **Variety** | Bolivar\*  5-3-181  10-23-182 | Calhoun\*  5-23-18  11-20-18 | Leflore\*  5-3-18  10-5-18 | Pontotoc\*  5-10-18 10-4-18 | **DKT3 AVG** | Humphreys\*\*  5-11-18  10-8-18 | Sharkey\*\*  5-10-18  10-9-18 | Sunflower\*\*  5-2-18  10-8-18 | **DKT4 AVG** | **Overall**  **DKT5 Average** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AgriGold | G4440RX | 4.1 | 52.8 | 13.1 | 6.5 | 19.1 | 1.8 | 2.5 | 2.9 | 2.4 | 12.0 |
| AGS | GS48X18 | 5.8 | 37.1 | 14.1 | 3.2 | 15.1 | 1.5 | 6.7 | 6.3 | 4.8 | 10.7 |
| Armor | 47-D17 | 4.8 | 55.7 | 44.9 | 5.5 | 27.7 | 2.1 | 5.6 | 7.7 | 5.1 | 18.0 |
| Armor | 48-D24 | 7.9 | 48.0 | 12.0 | 2.5 | 17.6 | 2.8 | 6.5 | 4.8 | 4.7 | 12.1 |
| Asgrow | AG45X8 | 4.7 | 45.7 | 35.5 | 4.0 | 22.5 | 4.1 | 3.2 | 4.5 | 3.9 | 14.5 |
| Asgrow | AG46X6 | 8.0 | 42.1 | 23.6 | 8.0 | 20.4 | 3.6 | 3.8 | 7.3 | 4.9 | 13.8 |
| Delta Grow | DG 48X45 D | 6.3 | 33.1 | 16.7 | 2.4 | 14.6 | 2.7 | 4.8 | 5.8 | 4.4 | 10.3 |
| Dyna-Gro | S45XS66 | – | – | – | – | – | 2.3 | 3.4 | 5.2 | 3.6 | – |
| Dyna-Gro | S48XT56 | 6.5 | 30.6 | 12.9 | 2.6 | 13.2 | – | – | – | – | – |
| Local Seed | LS4677X | 5.8 | 30.8 | 17.4 | 6.8 | 15.2 | 2.9 | 4.9 | 5.6 | 4.5 | 10.6 |
| NK | S43-V3X | 5.2 | 32.1 | 26.0 | 11.2 | 18.6 | 1.0 | 2.3 | 6.8 | 3.4 | 12.1 |
| NK | S45-K5X | 3.7 | 26.2 | 25.2 | 5.7 | 15.2 | – | – | – | – | – |
| NK | S48-R2X | – | – | – | – | – | 2.7 | 3.0 | 2.2 | 2.6 | – |
| Pioneer | P48A32X | 5.9 | 27.9 | 42.4 | 4.7 | 20.2 | 3.5 | 5.6 | 3.1 | 4.0 | 13.3 |
| Pioneer | P48A60X | 5.4 | 24.4 | 10.2 | 6.4 | 11.6 | 3.1 | – | 3.2 | 3.2 | 7.5 |
| Progeny | P 4816 RX | 10.6 | 28.3 | 16.9 | 4.1 | 15.0 | 3.1 | – | 5.8 | 4.5 | 10.2 |
| Progeny | P 4851 RX | 5.3 | 24.0 | 28.7 | 3.7 | 15.4 | 1.7 | – | 5.5 | 3.7 | 10.2 |
| Terral | REV 4857X | 7.2 | 24.7 | 13.9 | 1.8 | 11.9 | 2.1 | 2.0 | 3.7 | 2.6 | 7.9 |
| Terral | REV 4927X | 6.2 | 32.3 | 25.0 | 3.1 | 16.7 | 2.9 | 2.3 | 2.0 | 2.4 | 10.5 |

\*Locations with mixed to light soil texture

\*\*Locations with clay soil texture

1Planting date.

2Harvest date.

3DKT scores were analyzed in SAS 9.4; average scores were found not to be significantly different across the varieties that were evaluated (α = 0.2307).

4DKT scores were analyzed in SAS 9.4; average scores were found not to be significantly different across the varieties that were evaluated (α = 0.2566).

5DKT scores were analyzed in SAS 9.4; average scores were found not to be significantly different across the varieties that were evaluated (α = 0.2208).

DKT scores were determined by Mid-South Grain Inspection Services, which is an official USDA-designated grain inspector agency.

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