

Table 1. 2017 University of Maryland State Soybean Variety Trials Summary

| Group 3 | | | | | | | | | | | |
|-------------------|------------|-------------------|-------------|-------------|-------------|-------------|-------------|------------|----------|-------------|----------|
| Brand | Variety | State Average | | | Full Season | | | | | Double Crop | |
| | | All | Full Season | Double Crop | Clarksville | Clarksville | Keedysville | Queenstown | Quantico | Queenstown | Quantico |
| | | Yield | Yield | Yield | Yield | Green Stem | Yield | Yield | Yield | Yield | Yield |
| | | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac† | (0-5) | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac |
| Pioneer | 39T67R | 62.5 | 68.1 | 56.9 | 62.5 | 0 | 61.3 * | 65.6 * | 83.0 * | 48.1 | 65.6 * |
| Asgrow | AG37X8 | 60.2 | 61.9 | 58.6 | 61.5 | 0 | 61.8 * | 57.1 | 67.0 | 55.8 | 61.4 |
| Asgrow | AG38X6 | 63.7 | 63.7 | 63.8 | 66.2 | 0 | 56.5 | 59.0 | 73.0 | 63.5 | 64.1 |
| Asgrow | AG38X8 | 65.1 | 67.3 | 63.0 | 70.9 * | 0 | 60.7 * | 60.5 | 77.2 | 58.3 | 67.6 * |
| Asgrow | AG39X7 | 62.1 | 61.9 | 62.3 | 55.5 | 0 | 64.9 * | 64.7 * | 62.6 | 54.2 | 70.3 * |
| Armor | ARX3907 | 63.4 | 63.5 | 63.3 | 61.5 | 3 | 55.3 | 65.7 * | 71.3 | 60.9 | 65.6 * |
| Mid-Atlantic Seed | MAS3516 | 63.5 | 58.7 | 68.2 | 61.8 | 0 | 54.4 | 57.3 | 61.5 | 72.1 * | 64.4 |
| Mid-Atlantic Seed | MAS3674 | 67.9 | 70.5 | 65.4 | 73.1 * | 0 | 65.3 * | 71.0 * | 72.5 | 64.3 | 66.5 * |
| Mid-Atlantic Seed | MAS3817 | 63.9 | 62.0 | 65.9 | 66.1 | 0 | 49.5 | 62.2 | 70.3 | 65.0 | 66.7 * |
| Pioneer | P33T19X | 61.1 | 62.8 | 59.4 | 66.2 | 0 | 46.2 | 64.9 * | 74.0 | 53.1 | 65.8 * |
| Pioneer | P37T51PR | 63.9 | 68.5 | 59.4 | 67.8 * | 0 | 56.0 | 61.8 | 88.1 * | 52.8 | 66.0 * |
| Doebblers | RPM39X8 | 62.9 | 64.8 | 61.1 | 63.6 | 0 | 54.4 | 65.3 * | 75.7 | 57.7 | 64.4 |
| Doebblers | RPMD83517R | 62.0 | 64.0 | 59.9 | 66.4 * | 0 | 46.2 | 68.1 * | 75.2 | 52.9 | 66.9 * |
| NK Brand | S39-PSX | 63.9 | 66.3 | 61.5 | 56.9 | 0 | 60.1 * | 68.5 * | 79.8 | 57.2 | 65.8 * |
| Dyna-Gro | S39XT08 | 69.2 | 68.3 | 70.1 | 66.9 * | 0 | 60.7 * | 69.0 * | 76.7 | 72.8 * | 67.4 * |
| Dyna-Gro | S39XT08 | 62.5 | 62.4 | 62.5 | 60.6 | 0 | 56.7 | 65.9 * | 66.5 | 59.6 | 65.4 |
| TA Seed | TA3959R25 | 63.5 | 63.5 | 63.4 | 68.7 * | 0 | 54.9 | 57.1 | 73.3 | 60.9 | 66.0 * |
| UniSouth Genetics | USG73P93R | 64.8 | 68.6 | 61.1 | 66.5 * | 0 | 65.3 * | 65.7 * | 77.0 | 58.9 | 63.3 |
| Mean | | 63.7 | 64.8 | 62.5 | 64.6 | | 57.2 | 63.9 | 73.6 | 59.3 | 65.7 |
| | | CV 10.8% | | | | | 13.0% | 9.0% | 10.4% | 12.7% | 5.30% |
| | | LSD ₁₀ | | | | | 6.7 | 7.5 | 6.3 | 6.1 | 4.7 |

Yields followed by an asterisk " * " are not significantly different from the leading line.

| Group 4 Early | | | | | | | | | | | |
|---------------------------|------------|-------------------|-------------|-------------|-------------|-------------|-------------|------------|----------|-------------|----------|
| Brand | Variety | State Average | | | Full Season | | | | | Double Crop | |
| | | All | Full Season | Double Crop | Clarksville | Clarksville | Keedysville | Queenstown | Quantico | Queenstown | Quantico |
| | | Yield | Yield | Yield | Yield | Green Stem | Yield | Yield | Yield | Yield | Yield |
| | | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac† | (0-5) | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac |
| Armor Seed | 44D51 | 69.1 | 72.4 | 65.8 | 62.9 | 2 | 64.7 | 79.5 * | 82.6 | 60.5 | 71.1 * |
| Asgrow | AG4135 | 64.3 | 70.8 | 57.7 | 72.0 * | 1 | 58.7 | 79.7 * | 73.0 | 57.7 | 57.6 |
| Asgrow | AG41X8 | 61.7 | 68.7 | 54.8 | 66.9 | 4 | 64.0 | 74.1 | 69.7 | 52.3 | 57.2 |
| Asgrow | AG43X7 | 66.6 | 69.0 | 64.2 | 55.8 | 3 | 64.5 | 70.2 | 85.7 * | 58.8 | 69.7 * |
| Asgrow | AG43X8 | 69.3 | 73.8 | 64.7 | 61.4 | 3 | 72.9 * | 77.7 | 83.3 * | 66.1 * | 63.3 |
| Asgrow | AG44X6 | 68.9 | 71.1 | 66.8 | 65.0 | 2 | 59.5 | 78.9 * | 80.9 | 67.6 * | 66.0 |
| Armor | ARX4207 | 68.3 | 72.1 | 64.6 | 70.5 * | 3 | 64.0 | 71.3 | 82.5 | 63.5 | 65.7 |
| Armor | ARX4407 | 64.2 | 69.2 | 59.3 | 61.7 | 2 | 68.8 * | 72.5 | 73.9 | 59.0 | 59.5 |
| Bayer | CZ4181RY | 63.1 | 67.2 | 59.0 | 63.5 | 4 | 55.8 | 71.8 | 77.9 | 55.0 | 63.1 |
| Hubner Seed | H42-13R2 | 66.4 | 71.8 | 61.0 | 67.2 * | 2 | 69.0 * | 70.2 | 80.8 | 57.6 | 64.5 |
| Hi-Soy | HS43X70 | 68.1 | 73.4 | 62.8 | 70.8 * | 2 | 65.8 * | 79.6 * | 77.6 | 58.1 | 67.6 |
| Hi-Soy | HS44T60 | 64.3 | 70.0 | 58.7 | 57.8 | 1 | 61.7 | 75.5 | 84.9 * | 49.7 | 67.6 |
| Mid-Atlantic Seed | MAS4355 | 63.7 | 67.9 | 59.4 | 67.1 * | 1 | 64.8 | 62.8 | 77.0 | 53.3 | 65.4 |
| Maryland Crop Improvement | MDEXP84301 | 57.3 | 63.2 | 51.4 | 55.0 | 2 | 53.1 | 68.6 | 76.1 | 50.1 | 52.6 |
| Pioneer | P40T84X | 65.1 | 70.1 | 60.0 | 70.0 * | 2 | 58.5 | 73.3 | 78.8 | 52.6 | 67.4 |
| Pioneer | P41T65PR | 59.6 | 64.1 | 55.1 | 63.2 | 5 | 54.9 | 65.7 | 72.8 | 50.9 | 59.4 |
| Pioneer | P42T71PR | 63.3 | 68.2 | 58.3 | 61.9 | 4 | 57.3 | 73.0 | 80.5 | 55.4 | 61.3 |
| Doebblers | RPM42X8 | 64.0 | 69.9 | 58.1 | 64.9 | 2 | 63.7 | 73.8 | 77.0 | 50.7 | 65.4 |
| Dyna-Gro | S43RY95 | 67.8 | 71.4 | 64.1 | 66.9 | 2 | 61.9 | 74.4 | 82.6 | 64.1 | 64.1 |
| NK Brand | S43-V3X | 69.0 | 76.6 | 61.5 | 70.2 * | 2 | 69.2 * | 78.0 | 88.9 * | 58.0 | 65.0 |
| Dyna-Gro | S43XS27 | 73.9 | 75.6 | 72.2 | 68.8 * | 4 | 65.8 * | 79.5 * | 88.1 * | 70.2 * | 74.2 * |
| Unisouth Genetics | USG7427XTS | 60.8 | 61.2 | 60.4 | 59.3 | 3 | 51.0 | 63.6 | 70.8 | 59.7 | 61.0 |
| Unisouth Genetics | USG7447XTS | 71.5 | 77.3 | 65.8 | 77.5 * | 1 | 62.3 | 85.0 * | 84.3 * | 62.3 | 69.3 * |
| Mean | | 65.7 | 70.2 | 61.1 | 62.2 | | 62.3 | 73.5 | 79.5 | 58.0 | 64.3 |
| | | CV 12.90% | | | | | 12.20% | 8.9% | 8.0% | 11.7% | 9.5% |
| | | LSD ₁₀ | | | | | 10.4 | 7.8 | 6.2 | 5.9 | 5.4 |

Table 1. continued

| Group 4 Late | | | | | | | | | | | |
|---------------------------|-------------------|---------------|-------------|-------------|-------------|-------------|-------------|------------|----------|-------------|----------|
| Brand | Variety | State Average | | | Full Season | | | | | Double Crop | |
| | | All | Full Season | Double Crop | Clarksville | Clarksville | Keedysville | Queenstown | Quantico | Queenstown | Quantico |
| | | Yield | Yield | Yield | Yield | Green Stem | Yield | Yield | Yield | Yield | Yield |
| | | Bu/Ac | Bu/Ac | Bu/Ac | Bu/Ac | (0-5) | Bu/Ac | Bu/Ac | Bu/Ac† | Bu/Ac | Bu/Ac |
| Armor Seed | 46D08 | 67.9 | 70.1 | 65.6 | 65.8 | 1 | 68.1 * | 69.9 | 76.7 | 58.7 | 72.5 |
| Asgrow | AG45X6 | 67.8 | 69.6 | 65.9 | 58.6 | 2 | 62.1 | 82.7 * | 75.1 | 61.2 | 70.6 |
| Asgrow | AG46X6 | 72.7 | 77.5 | 67.9 | 71.8 * | 3 | 65.4 * | 81.2 * | 91.4 * | 64.2 * | 71.5 |
| Asgrow | AG46X8 | 71.7 | 78.1 | 65.3 | 71.0 * | 2 | 70.0 * | 76.1 * | 95.3 * | 66.6 * | 64.0 |
| Asgrow | AG47X6 | 66.2 | 69.1 | 63.2 | 65.3 | 2 | 56.0 | 75.0 * | 80.0 | 56.5 | 70.0 |
| Asgrow | AG4835 | 69.8 | 72.7 | 66.8 | 72.0 * | 3 | 67.1 * | 76.2 * | 75.7 | 59.4 | 74.2 |
| Asgrow | AG48X7 | 68.3 | 70.2 | 66.3 | 68.0 | 2 | 67.1 * | 73.0 | 72.6 | 61.1 | 71.5 |
| Armor Seed | ARX4607 | 71.0 | 73.2 | 68.9 | 68.2 | 1 | 59.6 | 75.9 * | 89.0 * | 67.4 * | 70.4 |
| Bayer | CZ4590RY | 65.6 | 73.7 | 57.4 | 66.8 | 2 | 70.4 * | 71.2 | 86.6 * | 52.9 | 61.9 |
| Hubner Seed | H48-13R2/STS | 70.4 | 71.8 | 69.0 | 71.8 * | 3 | 66.0 * | 68.2 | 80.9 | 66.0 * | 72.1 |
| Hi-Soy | HS46X60 | 66.1 | 67.3 | 64.9 | 71.3 * | 2 | 50.7 | 71.9 | 75.3 | 61.7 | 68.0 |
| Hi-Soy | HS48X70 | 69.0 | 71.6 | 66.4 | 65.4 | 2 | 71.9 * | 75.4 * | 73.7 | 62.2 | 70.6 |
| Maryland Crop Improvement | MD4901DGT | 57.4 | 55.5 | 59.4 | 53.3 | 2 | 38.5 | 63.3 | 66.8 | 59.6 | 59.1 |
| Doebler's | RPM45R8 | 67.1 | 71.6 | 62.7 | 65.6 | 2 | 61.8 | 71.1 | 87.7 * | 59.2 | 66.2 |
| Doebler's | RPM48R8 | 77.4 | 79.2 | 75.7 | 80.6 * | 2 | 68.1 * | 76.9 * | 91.1 * | 69.6 * | 81.7 * |
| Univeristy of Missouri | S14-15146R | 58.8 | 60.7 | 56.8 | 60.2 | 2 | 52.8 | 61.5 | 68.2 | 53.6 | 60.0 |
| Univeristy of Missouri | S14-9051R | 62.4 | 63.9 | 60.8 | 66.6 | 2 | 53.1 | 65.2 | 70.8 | 52.2 | 69.4 |
| NK Brand | S45-K5X | 66.0 | 69.8 | 62.2 | 65.5 | 2 | 56.5 | 75.4 * | 81.9 | 55.6 | 68.8 |
| Dyna-Gro | S46XS87 | 67.8 | 71.0 | 64.7 | 64.4 | 3 | 62.7 * | 78.5 * | 78.2 | 56.9 | 72.6 |
| Dyna-Gro | S48XS78 | 65.8 | 68.5 | 63.1 | 65.2 | 2 | 60.4 | 67.7 | 80.7 | 57.6 | 68.5 |
| Dyna-Gro | S48XT56 | 68.5 | 73.8 | 63.1 | 64.9 | 2 | 65.7 * | 81.0 * | 83.8 | 56.4 | 69.7 |
| Dyna-Gro | S49XS76 | 66.4 | 71.6 | 61.3 | 74.8 * | 3 | 60.0 | 69.9 | 81.6 | 52.8 | 69.8 |
| Dyna-Gro | USG7458XT | 64.3 | 67.0 | 61.6 | 58.9 | 2 | 62.3 * | 73.5 | 73.3 | 55.8 | 67.4 |
| Unisouth Genetics | USG7478GT | 65.1 | 68.4 | 61.9 | 62.2 | 2 | 65.1 * | 70.5 | 75.6 | 58.7 | 65.0 |
| Unisouth Genetics | USG7478XTS | 65.7 | 69.0 | 62.5 | 62.8 | 2 | 59.7 | 75.7 * | 77.8 | 59.6 | 65.3 |
| Unisouth Genetics | USG7496XTS | 65.6 | 70.2 | 60.9 | 72.1 * | 2 | 61.5 | 66.6 | 80.7 | 50.4 | 71.4 |
| Unisouth Genetics | USG74K95T | 68.9 | 68.7 | 69.2 | 73.8 * | 1 | 54.0 | 76.3 * | 70.5 | 63.3 | 75.1 |
| | Mean | 67.1 | 70.1 | 64.1 | 66.9 | | 62.3 | 73.0 | 79.3 | 59.2 | 69.2 |
| | CV | | | | 12.7% | | 13.7% | 9.9% | 11.9% | 10.0% | 8.3% |
| | LSD ₁₀ | | | | 9.8 | | 9.6 | 8.0 | 9.9 | 5.6 | 4.1 |

| Group 5 | | | | | | | | | | | |
|------------------------|-------------------|------|------|------|--|--|--|--------|---|--------|--------|
| Bayer | CZ5375RY | 56.1 | 56.2 | 56.0 | | | | 56.2 | ‡ | 49.3 * | 54.9 |
| Doebler's | RPM50X8 | 61.7 | 58.8 | 64.5 | | | | 58.8 | | 46.6 | 63.8 * |
| Univeristy of Missouri | S14-9017R | 70.9 | 75.0 | 66.8 | | | | 75.0 * | | 54.8 * | 64.9 * |
| NK Brand | S52-Y7X | 66.4 | 69.4 | 63.3 | | | | 69.4 * | | 49.6 * | 59.8 * |
| | Mean | 63.8 | 64.9 | 62.6 | | | | 64.9 | | 64.4 | 59.2 |
| | CV | | | | | | | 16.9% | | 7.8% | 10.2% |
| | LSD ₁₀ | | | | | | | 8.5 | | 6.3 | 5.3 |

Yields followed by an asterisk " * " are not significantly different from the leading line.

‡ Severe lodging impeded accurate yield measurements.

We gratefully acknowledge the assistance and experience of the personnel of the University of Maryland Research and Education Centers.



Table 2. Two and Three Year Averages

| Brand | Variety | Mat | 2 Year State Average | | | 3 Year State Average | | |
|-------------------|----------------|-----|----------------------|----------------|----------------|----------------------|----------------|----------------|
| | | | All | Full Season | Double Crop | All | Full Season | Double Crop |
| | | | Yield Bu/Ac | Yield Bu/Ac | Yield Bu/Ac | Yield Bu/Ac | Yield Bu/Ac | Yield Bu/Ac |
| Mid-Atlantic Seed | MAS3674 | 3 | 67.1 | 71.6 | 59.4 | - | - | - |
| Pioneer | 39T67R | 3 | 62.1 | 68.7 | 51.7 | - | - | - |
| UniSouth Genetics | USG73P93R | 3 | 63.2 | 67.3 | 57.1 | - | - | - |
| Doebler | RPM® DB3517RTM | 3 | 61.4 | 65.2 | 54.7 | - | - | - |
| Mid-Atlantic Seed | MAS3516 | 3 | 62.0 | 62.4 | 59.0 | 60.1 | 58.3 | 60.2 |
| Hubner | H42-13R2 | 4E | 66.2 | 71.4 | 58.7 | 65.2 | 69.4 | 59.3 |
| Dyna-Gro | S43XS27 | 4E | 69.5 | 72.5 | 64.4 | - | - | - |
| UniSouth Genetics | USG7427XTS | 4E | 62.3 | 62.8 | 61.6 | - | - | - |
| Credenz | CZ 4181 RY | 4E | 63.4 | 67.8 | 56.5 | - | - | - |
| Mid-Atlantic Seed | MAS4355 | 4E | 63.6 | 68.1 | 56.9 | 62.9 | 66.9 | 57.3 |
| UniSouth Genetics | USG7447XTS | 4E | 67.4 | 71.1 | 63.0 | - | - | - |
| Hi-soy | HS4T60 | 4E | 63.7 | 67.8 | 58.5 | - | - | - |
| Asgrow | AG4135 | 4E | 63.2 | 67.8 | 57.4 | - | - | - |
| Asgrow | AG44X6 | 4E | 65.3 | 67.3 | 62.2 | - | - | - |
| Asgrow | AG4835 | 4L | 67.7 | 71.7 | 61.4 | - | - | - |
| UniSouth Genetics | USG7496XTS | 4L | 65.4 | 70.4 | 57.7 | - | - | - |
| Dyna-Gro | S49XS76 | 4L | 65.7 | 69.9 | 59.9 | - | - | - |
| Dyna-Gro | S46XS87 | 4L | 66.2 | 69.5 | 61.2 | - | - | - |
| Hi-soy | HS46X60 | 4L | 65.2 | 68.2 | 59.8 | - | - | - |
| Dyna-Gro | S48XT56 | 4L | 66.3 | 70.7 | 60.2 | - | - | - |
| Hubner | H48-13R2/STS | 4L | 66.7 | 69.7 | 61.4 | 68.2 | 70.7 | 64.1 |
| UniSouth Genetics | USG74K95RS | 4L | 65.7 | 65.9 | 65.1 | - | - | - |
| Asgrow | AG47X6 | 4L | 64.2 | 68.3 | 57.4 | - | - | - |
| Credenz | CZ 4590 RY | 4L | 61.9 | 66.6 | 56.7 | - | - | - |
| Credenz | CZ 5375 RY | 5 | 53.3 | 55.1 | 51.4 | - | - | - |

We gratefully acknowledge the assistance and experience of the personnel of the University of Maryland Research and Education Centers.

