**Table A-22-a. Mean† yield and agronomic traits of 30 Maturity Group IV Late (4.5 - 4.9) soybean varieties evaluated in small plot replicated trials with irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2023.**

| Variety | Herbicide Pkg‡ | Avg. Yield§ (bu/ac) | | | Moisture at Harvest (%) | | | Plant Height (in.) | | | Lodging‖ (1-5) | | | Maturity (DAP) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 yr | 2 yr | 3 yr | 1 yr | 2 yr | 3 yr | 1 yr | 2 yr | 3 yr | 1 yr | 2 yr | 3 yr | 1 yr | 2 yr | 3 yr |
| Revere 4727XF | XF | 84 A | 75 A-D | | 10 A | 11 A | | 41 J-L | 40 H | | 1.0 E | 1.2 A | | 136 L | 138 E-G | |
| Revere 4795XS**** | R2XS | 83 AB | 78 A | 77 A | 10 A | 12 A | 12 C | 45 F-H | 45 C-F | 43 B | 1.0 E | 1.2 A | 1.1 A | 145 B-F | 141 C-E | 141 B |
| Revere 4826XF* | XF | 80 A-C | 78 AB | | 10 A | 12 A | | 45 F-I | 44 D-G | | 1.0 E | 1.2 A | | 137 KL | 137 E-G | |
| Asgrow AG48XF3 | XF | 79 A-D | | | 11 A | | | 49 A-D | | | 1.0 E | | | 144 C-H | | |
| USG 7461XFS** | XFS | 78 A-D | 76 A-C | 74 A | 10 A | 12 A | 12 BC | 51 A | 50 A | 47 A | 1.3 DE | 1.2 A | 1.1 A | 144 C-G | 141 B-E | 140 B |
| Progeny 4691XFS* | XFS | 77 A-E | 72 A-D | | 11 A | 12 A | | 49 A-C | 48 AB | | 2.0 B-D | 1.8 A | | 139 G-L | 138 E-G | |
| Progeny 4798XF | XF | 77 A-E | 73 A-D | | 10 A | 12 A | | 45 F-H | 45 C-E | | 1.0 E | 1.5 A | | 148 A-D | 144 A-C | |
| Dyna-Gro S47XF23S | XFS | 77 A-E | 74 A-D | | 12 A | 12 A | | 44 F-J | 43 E-G | | 1.0 E | 1.2 A | | 137 KL | 136 G | |
| USG 7474XFS | XFS | 76 A-E | | | 10 A | | | 46 C-G | | | 1.3 DE | | | 142 E-K | | |
| Progeny 4604XFS** | XFS | 75 A-F | 73 A-D | 73 A | 10 A | 12 A | 12 C | 49 A-C | 48 AB | 46 A | 1.3 DE | 1.3 A | 1.3 A | 146 B-F | 143 A-D | 141 B |
| Don Mario DM48F53 | XF | 75 A-F | | | 11 A | | | 41 J-L | | | 1.3 DE | | | 143 C-I | | |
| Asgrow AG49XF3 | XF | 75 A-F | | | 10 A | | | 50 AB | | | 1.0 E | | | 149 A-C | | |
| Xitavo 4894E | E3 | 74 A-G | | | 10 A | | | 45 F-H | | | 1.3 DE | | | 143 D-J | | |
| Dyna-Gro S48EN73 | E3 | 73 A-G | 72 A-D | | 10 A | 12 A | | 43 H-K | 42 F-H | | 1.0 E | 1.7 A | | 139 G-L | 140 D-F | |
| Xitavo 4653E | E3 | 73 A-G | | | 10 A | | | 44 F-J | | | 1.0 E | | | 139 G-L | | |
| USG 7463XF | XF | 72 A-H | 69 C-E | | 10 A | 12 A | | 46 D-H | 46 B-D | | 1.0 E | 1.2 A | | 139 G-L | 139 E-G | |
| Progeny 4806XFS | XFS | 71 B-H | 70 B-D | 71 A | 10 A | 12 A | 13 AB | 46 E-H | 44 D-F | 43 B | 1.0 E | 1.2 A | 1.1 A | 150 A-D | 145 A | 144 A |
| USG 7494ETS | E3S | 70 C-I | | | 10 A | | | 46 E-H | | | 1.3 DE | | | 147 A-F | | |
| Revere 4934XF | XF | 70 C-I | | | 10 A | | | 42 I-L | | | 1.3 DE | | | 148 A-E | | |
| Dyna-Gro S49XF43S | XFS | 69 C-I | 68 C-E | | 10 A | 12 A | | 40 L | 40 H | | 1.3 DE | 1.5 A | | 145 B-F | 144 A-D | |
| Innvictis A4862XF | XF | 69 C-I | 71 A-D | | 11 A | 12 A | | 45 E-H | 44 D-G | | 2.0 B-D | 1.5 A | | 148 A-D | 145 AB | |
| USG 7496XTS** | R2XS | 69 C-I | 70 B-D | 69 A | 12 A | 12 A | 13 A | 48 A-E | 48 AB | 46 A | 1.7 C-E | 1.7 A | 1.4 A | 148 A-D | 146 A | 146 A |
| Innvictis B4903E | E3 | 67 D-I | | | 10 A | | | 45 F-I | | | 2.3 BC | | | 145 B-F | | |
| Asgrow AG47XF2 | XF | 65 E-I | 67 DE | | 11 A | 12 A | | 43 H-K | 42 GH | | 1.0 E | 1.2 A | | 141 F-L | 138 E-G | |
| Progeny 4775E3S | E3S | 63 F-I | 62 E | | 11 A | 12 A | | 47 B-F | 47 BC | | 1.3 DE | 1.3 A | | 138 H-L | 137 FG | |
| Perdue Agribusiness P48MO21 | Conv | 62 G-I | | | 11 A | | | 39 LM | | | 1.3 DE | | | 151 AB | | |
| Revere 4731XF | XF | 59 H-J | | | 12 A | | | 41 KL | | | 2.7 AB | | | 141 F-L | | |
| Innvictis B4603E | E3 | 57 IJ | | | 10 A | | | 44 G-K | | | 2.7 AB | | | 137 J-L | | |
| MO S18-17644 | Conv | 57 IJ | | | 11 A | | | 36 M | | | 3.3 A | | | 138 I-L | | |
| TN Exp TN18-4110b | Conv. | 47 J | | | 10 A | | | 32 N | | | 1.3 DE | | | 153 A | | |
| Average | | 71 | 72 | 73 | 10.6 | 11.9 | 12.5 | 44 | 45 | 45 | 1.4 | 1.4 | 1.2 | 143 | 141 | 143 |
| Standard Error | | 5 | 3 | 2 | 0.5 | 1.3 | 1.0 | 1 | 1 | 2 | 0.3 | 0.2 | 0.1 | 2 | 2 | 2 |
| L.S.D.$_{.05}$ | | 13 | 8 | N.S. | N.S. | N.S. | 0.7 | 3 | 3 | 2 | 0.8 | N.S. | N.S. | 6 | 4 | 2 |
| C.V. | | 11 | 9 | 8 | 8 | 6 | 6 | 4 | 5 | 5 | - | - | - | 2 | 2 | 2 |

† Varieties that have any MS letter in common are not significantly different at the 5% level of probability. Values highlighted in light orange are above average for a given trait, MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.
C.V. is only reported for variables evaluated on a ratio scale.
L.S.D. values are given for ANOVA that were signficant at P<0.05. Variables in which minimal variation was observed were not subjected to ANOVA and are reported as N.E.
‡ For a full description of abbreviated biotech traits, see table 29.
* Asterisks after a name indicate the number of preceding consecutive years in the top-performing "A" group.
§ All yields are adjusted to 13% moisture.
‖ Lodging was evaluated on a a scale of 1 (no lodging) to 5 (complete lodging).
T Indicate data that were log transformed to meet assumptions of normality, raw means are reported and mean separation letters are given. L.S.D values are not reported as these would be relative to transformed mean values.

**Table A-22-b. Mean† yield and agronomic traits of 30 Maturity Group IV Late (4.5 - 4.9) soybean varieties evaluated in small plot replicated trials with irrigation at the AgResearch and Education Center at Milan in Milan, Tennessee during 2023.**

| Variety | Herbicide Pkg† | Avg. Yield§ (bu/ac) | | SDS DI†† (%) | | SDS DS†† (1-9) | | SDS DX†† (DI x DS/9) | | Frogeye‡‡ (%) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 yr | | 1 yr | | 1 yr | | 1 yr | | 1 yr | |
| Revere 4727XF | XF | 84 | A | 7 | A | 2.0 | A | 2 | A | 1.0 | D |
| Revere 4795XS**** | R2XS | 83 | AB | 5 | A | 1.0 | A | 1 | A | 1.7 | B-D |
| Revere 4826XF* | XF | 80 | A-C | 2 | A | 1.7 | A | 1 | A | 2.3 | B |
| Asgrow AG48XF3 | XF | 79 | A-D | 3 | A | 1.7 | A | 1 | A | 1.3 | CD |
| USG 7461XFS** | XFS | 78 | A-D | 7 | A | 1.3 | A | 1 | A | 1.3 | CD |
| Progeny 4691XFS* | XFS | 77 | A-E | 2 | A | 2.0 | A | 1 | A | 1.7 | B-D |
| Progeny 4798XF | XF | 77 | A-E | 3 | A | 1.0 | A | 0 | A | 1.7 | B-D |
| Dyna-Gro S47XF23S | XFS | 77 | A-E | 0 | A | 1.0 | A | 0 | A | 1.0 | D |
| USG 7474XFS | XFS | 76 | A-E | 2 | A | 1.0 | A | 0 | A | 1.3 | CD |
| Progeny 4604XFS** | XFS | 75 | A-F | 3 | A | 1.3 | A | 1 | A | 1.0 | D |
| Don Mario DM48F53 | XF | 75 | A-F | 5 | A | 2.3 | A | 2 | A | 1.3 | CD |
| Asgrow AG49XF3 | XF | 75 | A-F | 3 | A | 1.0 | A | 0 | A | 1.3 | CD |
| Xitavo 4894E | E3 | 74 | A-G | 3 | A | 1.0 | A | 0 | A | 3.7 | A |
| Dyna-Gro S48EN73 | E3 | 73 | A-G | 0 | A | 1.0 | A | 0 | A | 1.7 | B-D |
| Xitavo 4653E | E3 | 73 | A-G | 5 | A | 1.3 | A | 1 | A | 1.7 | B-D |
| USG 7463XF | XF | 72 | A-H | 10 | A | 1.0 | A | 1 | A | 1.3 | CD |
| Progeny 4806XFS | XFS | 71 | B-H | 3 | A | 1.0 | A | 0 | A | 1.3 | CD |
| USG 7494ETS | E3S | 70 | C-I | 3 | A | 1.7 | A | 1 | A | 1.3 | CD |
| Revere 4934XF | XF | 70 | C-I | 5 | A | 1.0 | A | 1 | A | 1.0 | D |
| Dyna-Gro S49XF43S | XFS | 69 | C-I | 0 | A | 1.0 | A | 0 | A | 2.0 | BC |
| Innvictis A4862XF | XF | 69 | C-I | 5 | A | 1.7 | A | 1 | A | 2.3 | B |
| USG 7496XTS** | R2XS | 69 | C-I | 5 | A | 1.0 | A | 1 | A | 1.0 | D |
| Innvictis B4903E | E3 | 67 | D-I | 8 | A | 2.7 | A | 4 | A | 1.0 | D |
| Asgrow AG47XF2 | XF | 65 | E-I | 3 | A | 1.3 | A | 1 | A | 1.7 | B-D |
| Progeny 4775E3S | E3S | 63 | F-I | 0 | A | 1.0 | A | 0 | A | 1.0 | D |
| Perdue Agribusiness P48MO21 | Conv | 62 | G-I | 7 | A | 2.3 | A | 3 | A | 1.0 | D |
| Revere 4731XF | XF | 59 | H-J | 2 | A | 1.3 | A | 0 | A | 1.3 | CD |
| Innvictis B4603E | E3 | 57 | IJ | 3 | A | 1.3 | A | 1 | A | 1.0 | D |
| MO S18-17644 | Conv | 57 | IJ | 12 | A | 1.7 | A | 4 | A | 1.7 | B-D |
| TN Exp TN18-4110b | Conv. | 47 | J | 8 | A | 1.3 | A | 1 | A | 1.3 | CD |
| Average | | 71 | | 4 | | 1.4 | | 1 | | 1.5 | |
| Standard Error | | 5 | | 4 | | 0.5 | | 1 | | 0.3 | |
| L.S.D.$_{.05}$ | | 13 | | N.S. | | N.S. | | N.S. | | 1.0 | |
| C.V. | | 11 | | - | | - | | - | | - | |

† Varieties that have any MS letter in common are not significantly different at the 5% level of probability. Values highlighted in light orange are above average for a given trait, MS letters highlighted in dark orange are in the "A group", indicating no statistical difference from the top-performing variety, for a given trait.
C.V. is only reported for variables evaluated on a ratio scale.
L.S.D. values are given for ANOVA that were signficant at P<0.05. Variables in which minimal variation was observed were not subjected to ANOVA and are reported as N.E.
* Asterisks after a name indicate the number of preceding consecutive years in the top-performing "A" group.
‡ For a full description of abbreviated biotech traits, see table 29.
§ All yields are adjusted to 13% moisture.
†† SDS was evaluated as disease incidence (percentage), disease severity (1 to 9, with 1 indicating no disease), and disease index (DI x DS/9). Evaluated in mid-September.
‡‡ Frogeye was evaluated using a 1 to 9 scale, with 1 indicating no disease. Evaluated in mid-September.
|| Leaf holding was evaluated visually at harvest using a 1 to 5 scale, with 1 indicating no leaves at maturity..
T Indicate data that were log transformed to meet assumptions of normality, raw means are reported and mean separation letters are given. L.S.D values are not reported as these would be relative to transformed mean values.