

**Table A-18. Mean<sup>†</sup> yield and agronomic traits of 24 Maturity Group IV Early (4.0 - 4.5) soybean varieties evaluated in small plot replicated trials at the Middle Tennessee AgResearch and Education Center - Non-Irrigated Trial in Spring Hill, Tennessee during 2024.**

Variety	Herbicide Pkg <sup>†</sup>	Avg. Yield <sup>§</sup> (bu/ac)	Moisture at Harvest (%)	Maturity (DAP)	Plant Height (in.)	Lodging <sup>††</sup> (1-5)
Pioneer P45Z75E	E3	60 A	10.5 B-E	132 C-F	34 AB	1.0
Innvictis A4102XF	XF	58 AB	10.1 D-F	134 A-C	34 A-C	1.0
MO S20-14129GT	RR	57 A-C	10.3 C-F	134 AB	34 AB	1.0
Great Heart GT4538XFS	RR/LL-Synchrony	56 A-C	10.2 C-F	133 A-D	33 A-E	1.0
Xitavo XO 4405E	E3	55 A-D	10.6 B-E	135 A	29 F-I	1.0
Pioneer P43Z44SE	E3S	54 A-E	9.8 EF	132 B-F	29 F-I	1.0
USG 7435XFS	XFS	52 A-F	10.2 C-F	133 B-D	29 E-I	1.0
Dyna-Gro S41EN72	E3	52 A-F	10.2 C-F	129 HI	30 C-I	1.0
Innvictis A4564XF	XF	52 A-F	11.6 A	131 D-G	35 AB	1.0
Revere 44-F44	XF	51 A-F	10.0 D-F	132 B-E	31 B-G	1.0
Asgrow AG42XF4	XF	50 A-F	10.4 B-E	130 E-H	35 A	1.0
Innvictis A4411XF	XF	49 A-G	10.6 B-E	132 B-F	33 A-E	1.0
Dyna-Gro S45EN25	E3	47 B-G	10.2 C-F	130 F-H	30 C-I	1.0
MO S20-5669	Conv	45 C-H	10.5 B-E	134 AB	30 D-I	1.0
Dyna-Gro S43XF85S	XFS	45 C-H	10.6 B-E	133 A-D	30 C-I	1.0
Xitavo XO 4255E	E3	45 C-H	10.2 C-F	129 HI	27 I	1.0
Asgrow AG44XF4	XFS	43 D-H	9.5 F	129 GH	28 G-I	1.0
MO S20-2227	Conv	43 D-H	11.1 AB	125 J	29 F-I	1.0
Benson Hill N44D923S	Conv	42 E-H	11.0 A-C	127 IJ	33 A-F	1.0
MO S20-15411GT	RR	42 F-H	10.5 B-E	133 A-D	27 HI	1.0
Benson Hill BH43Q207	Conv	41 F-H	10.5 B-E	126 J	31 B-H	1.0
Pioneer P41Z80BLX	E3S-Bolt	37 GH	10.2 C-F	126 J	33 A-D	1.0
Benson Hill C44H054S	Conv	37 GH	10.3 B-F	130 F-H	28 G-I	1.0
Xitavo XO 4364E	E3	34 H	10.7 A-D	126 J	27 HI	1.0
<b>Average</b>		<b>48</b>	<b>10.4</b>	<b>131</b>	<b>31</b>	<b>1.0</b>
<b>Standard Error</b>		<b>5</b>	<b>0.4</b>	<b>1</b>	<b>1</b>	<b>-</b>
<b>L.S.D.<sub>.05</sub></b>		<b>12</b>	<b>0.9</b>	<b>2</b>	<b>4</b>	<b>-</b>
<b>C.V.</b>		<b>16</b>	<b>5</b>	<b>1</b>	<b>8</b>	<b>-</b>

† Varieties that have any MS letter in common are not significantly different at the 5% level of probability.

- Values highlighted in orange are above average, values highlighted in dark orange are in the upper 25%. 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 significant at P<0.05. Variables in which minimal variation was observed were not subjected to ANOVA and are reported as N.S.

- 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.

‡ For a full description of abbreviated biotech traits, see table 23.

\* Asterisks after a name indicate the number of preceding consecutive years in the top-performing "A" group.

§ All yields are adjusted to 13% moisture.