

**Table 7. 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 nine AgResearch and Education Center locations in 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	58 A	10.8 G-K	128 H-J	37 BC	1.1
Innvictis A4564XF	XF	56 AB	11.2 C-G	130 C-F	41 A	1.8
Great Heart GT4538XFS	RR/LL-Synchrony	56 AB	11.1 D-J	131 B-E	41 A	1.4
Dyna-Gro S41EN72	E3	56 A-C	11.3 B-F	128 I-K	33 G-J	1.5
Pioneer P43Z44SE	E3S	55 A-D	10.9 F-K	127 JK	31 KL	1.0
Revere 44-F44	XF	55 A-E	10.7 J-L	132 B	36 B-E	1.0
Asgrow AG42XF4	XF	54 A-F	10.7 J-L	129 F-I	37 B-D	1.0
Asgrow AG44XF4	XFS	53 B-G	10.4 L	130 D-G	33 H-J	1.1
Innvictis A4102XF	XF	53 B-G	10.9 E-K	129 E-H	36 C-E	1.7
Xitavo XO 4405E	E3	53 B-G	10.6 KL	132 BC	33 H-J	1.1
USG 7435XFS	XFS	53 B-G	11.4 A-D	131 B-D	35 E-G	1.1
Dyna-Gro S43XF85S	XFS	53 B-G	11.3 B-E	131 B-D	34 F-H	1.0
Dyna-Gro S45EN25	E3	52 B-G	11.1 D-I	128 H-K	36 B-E	1.4
Xitavo XO 4364E	E3	52 C-G	10.9 E-K	126 KL	32 JK	1.0
Innvictis A4411XF	XF	51 D-H	11.7 AB	132 B	37 B	1.2
Pioneer P41Z80BLX	E3S-Bolt	51 E-H	10.9 F-K	125 LM	41 A	1.2
MO S20-2227	Conv	51 E-H	11.4 A-D	125 LM	34 F-H	1.0
MO S20-15411GT	RR	50 F-H	11.7 A	134 A	36 C-F	1.2
Xitavo XO 4255E	E3	50 F-H	10.6 KL	127 JK	30 L	1.0
Benson Hill N44D923S	Conv	50 F-H	11.6 A-C	124 M	35 D-F	1.0
MO S20-5669	Conv	50 GH	11.2 C-H	131 B-D	32 I-K	1.0
Benson Hill C44H054S	Conv	50 GH	10.7 I-L	129 G-I	30 L	1.0
MO S20-14129GT	RR	49 GH	10.8 H-L	131 B-D	36 C-F	1.3
Benson Hill BH43Q207	Conv	47 H	10.9 E-K	124 M	34 G-I	1.0
<b>Average</b>		52	11.0	129	35	1.2
<b>Standard Error</b>		7	0.5	2	2	0.1
<b>L.S.D.<sub>.05</sub></b>		4	0.4	2	1	-
<b>C.V.</b>		13	6	2	7	-
<b>Site-Years</b>		7	7	7	7	7

† 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.

‡ 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.

†† Lodging was evaluated on a scale of 1 (no lodging) to 5 (complete lodging).