

Table A-14. Mean[†] yield and agronomic traits of 24 Maturity Group IV Early (4.0 - 4.5) soybean varieties evaluated in small plot replicated trials at the Highland Rim AgResearch and Education Center - Non-Irrigated Trial in Springfield, Tennessee during 2024.

Variety	Herbicide Pkg [†]	Avg. Yield [§] (bu/ac)	Moisture at Harvest (%)	Maturity (DAP)	Plant Height (in.)	Lodging ^{††} (1-5)
Innvictis A4564XF	XF	26 A	12.0 E-I	128 AB	34 AB	1.0
Asgrow AG42XF4	XF	26 AB	11.7 F-I	123 D-H	29 D-H	1.0
Benson Hill BH43Q207	Conv	24 A-C	12.7 A-G	121 H	27 F-I	1.0
Revere 44-F44	XF	24 A-C	12.1 D-I	126 BC	28 F-I	1.0
Dyna-Gro S43XF85S	XFS	23 A-C	13.5 A-C	126 BC	29 D-H	1.0
MO S20-2227	Conv	23 A-C	13.0 A-E	123 D-H	29 D-G	1.0
Pioneer P41Z80BLX	E3S-Bolt	23 A-C	12.4 C-H	124 C-G	36 A	1.0
Xitavo XO 4255E	E3	22 A-C	11.5 HI	121 H	27 G-J	1.0
Innvictis A4102XF	XF	22 A-C	12.8 A-F	122 F-H	29 D-H	1.0
Great Heart GT4538XFS	RR/LL-Synchrony	22 A-C	13.0 A-E	128 A	33 A-C	1.0
USG 7435XFS	XFS	22 A-C	13.7 A	124 C-G	29 D-G	1.0
Pioneer P43Z44SE	E3S	22 A-C	12.4 C-H	122 F-H	24 J	1.0
Xitavo XO 4405E	E3	21 B-D	11.7 F-I	123 E-H	26 G-J	1.0
MO S20-15411GT	RR	20 B-E	13.2 A-E	128 A	36 A	1.0
MO S20-5669	Conv	20 C-E	12.8 A-F	124 C-H	27 G-J	1.0
Pioneer P45Z75E	E3	20 C-E	11.4 HI	124 C-F	31 B-E	1.0
Dyna-Gro S41EN72	E3	20 C-E	13.3 A-D	122 GH	27 G-J	1.0
Innvictis A4411XF	XF	20 C-E	13.7 AB	125 CD	32 B-D	1.0
Dyna-Gro S45EN25	E3	19 C-E	12.8 A-F	122 F-H	31 C-F	1.0
Asgrow AG44XF4	XFS	19 C-E	11.4 HI	121 H	28 E-I	1.0
Benson Hill N44D923S	Conv	19 C-E	13.8 A	121 H	28 E-I	1.0
Xitavo XO 4364E	E3	19 C-E	11.1 I	121 H	26 H-J	1.0
Benson Hill C44H054S	Conv	16 DE	12.5 B-H	122 F-H	25 IJ	1.0
MO S20-14129GT	RR	15 E	11.6 G-I	125 C-E	28 E-I	1.0
Average		21	12.5	124	29	1.0
Standard Error		2	0.4	1	1	-
L.S.D._{.05}		5	1.2	2	4	-
C.V.		15	6	1	8	-

† 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 highted 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 a scale of 1 (no lodging) to 5 (complete lodging).