

Table A-10. 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 - 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)
Pioneer P45Z75E	E3	63 A	10.7 A-E	124 AB	37 A-D	1.0
Great Heart GT4538XFS	RR/LL-Synchrony	63 AB	10.4 C-F	125 A	39 A-C	1.0
Dyna-Gro S41EN72	E3	62 AB	10.5 B-F	122 D	32 G-L	1.0
Dyna-Gro S45EN25	E3	60 AB	10.5 B-F	123 BC	34 D-I	1.0
USG 7435XFS	XFS	60 A-C	11.2 AB	123 BC	35 C-I	1.0
Innvictis A4564XF	XF	59 A-D	10.7 A-E	124 AB	40 AB	1.0
Pioneer P43Z44SE	E3S	58 A-E	10.8 A-E	121 DE	31 H-L	1.0
MO S20-2227	Conv	57 A-F	11.2 A	120 EF	34 D-J	1.0
Revere 44-F44	XF	57 A-F	10.0 FG	125 A	35 C-H	1.0
Pioneer P41Z80BLX	E3S-Bolt	57 A-F	10.2 E-G	121 DE	41 A	1.0
Asgrow AG44XF4	XFS	56 A-F	10.3 C-F	124 AB	30 J-L	1.0
Xitavo XO 4255E	E3	56 B-F	10.3 C-F	122 CD	28 L	1.0
Asgrow AG42XF4	XF	56 B-F	10.0 FG	123 BC	37 A-E	1.0
MO S20-15411GT	RR	53 C-G	10.3 D-F	125 A	36 A-F	1.0
Innvictis A4102XF	XF	52 D-H	10.7 A-F	124 AB	33 D-K	1.0
Xitavo XO 4364E	E3	52 D-H	11.0 A-C	120 F	32 F-L	1.0
Dyna-Gro S43XF85S	XFS	52 D-H	11.2 A	124 AB	32 F-L	1.0
Xitavo XO 4405E	E3	52 E-H	10.2 EF	124 AB	31 I-L	1.0
Benson Hill N44D923S	Conv	51 F-H	11.0 A-C	120 EF	34 D-J	1.0
Benson Hill BH43Q207	Conv	51 F-H	10.6 A-F	120 EF	32 E-L	1.0
Benson Hill C44H054S	Conv	50 F-H	10.5 C-F	123 BC	29 KL	1.0
MO S20-14129GT	RR	48 GH	9.5 G	124 AB	35 D-I	1.0
Innvictis A4411XF	XF	48 GH	10.9 A-D	124 AB	36 B-G	1.0
MO S20-5669	Conv	45 H	10.3 D-F	124 AB	29 KL	1.0
Average		55	10.5	123	34	1.0
Standard Error		3	0.2	0	2	-
L.S.D._{.05}		7	0.7	1	5	-
C.V.		8	4	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.