

Table A-22. 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 Milan AgResearch and Education Center - Irrigated Trial in Milan, Tennessee during 2024.

Variety	Herbicide Pkg [†]	Avg. Yield [§] (bu/ac)	Moisture at Harvest (%)	Maturity (DAP)	Plant Height (in.)	Lodging ^{††} (1-5)
Pioneer P45Z75E	E3	82 A	10.2 A-E	133 F-I	40 CD	1.7
Dyna-Gro S41EN72	E3	78 AB	10.6 A-C	133 F-I	36 E-H	4.0
Innvictis A4564XF	XF	74 A-C	10.1 B-F	138 B-D	45 A	3.7
Xitavo XO 4364E	E3	73 A-C	10.2 B-F	132 H-K	35 F-I	1.0
Xitavo XO 4405E	E3	72 B-D	10.1 B-F	140 A-C	37 C-F	1.0
Revere 44-F44	XF	71 B-E	11.0 A	142 AB	41 BC	1.0
Pioneer P41Z80BLX	E3S-Bolt	71 B-E	10.8 AB	128 KL	44 AB	1.3
Benson Hill C44H054S	Conv	69 C-F	10.1 B-F	136 C-H	32 I	1.0
Pioneer P43Z44SE	E3S	69 C-F	9.9 C-F	131 I-L	33 HI	1.0
Innvictis A4411XF	XF	68 C-F	10.6 A-C	143 A	39 C-E	2.0
USG 7435XFS	XFS	68 C-F	10.2 B-F	138 C-E	39 C-E	1.3
Asgrow AG44XF4	XFS	68 C-F	9.7 EF	138 C-E	37 D-G	2.0
Asgrow AG42XF4	XF	67 C-F	10.0 C-F	134 E-I	41 BC	1.0
Great Heart GT4538XFS	RR/LL-Synchrony	67 C-F	9.9 C-F	135 D-I	46 A	2.3
Xitavo XO 4255E	E3	67 C-F	10.2 B-F	133 G-J	33 G-I	1.0
Dyna-Gro S45EN25	E3	67 C-F	10.2 A-E	133 G-J	38 C-F	2.0
MO S20-15411GT	RR	66 C-F	11.0 A	143 A	35 F-I	1.0
MO S20-5669	Conv	66 C-F	10.4 A-E	136 C-G	36 E-H	1.0
Dyna-Gro S43XF85S	XFS	66 C-F	10.0 C-F	137 C-F	38 C-F	1.0
Benson Hill N44D923S	Conv	66 C-F	10.0 C-F	128 KL	39 C-F	1.3
Innvictis A4102XF	XF	65 C-F	9.4 F	136 C-H	41 BC	3.7
MO S20-14129GT	RR	63 D-F	10.1 B-F	136 C-G	37 C-F	2.3
MO S20-2227	Conv	62 EF	10.5 A-D	129 J-L	37 D-G	1.0
Benson Hill BH43Q207	Conv	61 F	9.8 D-F	127 L	36 E-H	1.0
Average		69	10.2	135	38	1.7
Standard Error		4	0.3	1	1	0.4
L.S.D._{.05}		9	0.8	4	4	-
C.V.		8	5	2	6	-

† 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).