

Table 19. Mean[†] yield and agronomic traits of eight Maturity Group V (5.0 - 5.9) soybean varieties evaluated in small plot replicated trials at nine AgResearch and Education Center locations in Tennessee during 2024.

Variety	Herbicide Pkg [†]	Avg. Yield [§] (bu/ac)	Moisture at Harvest (%)	Maturity (DAP)	Plant Height (in.)	Lodging ^{††} (1-5)
Pioneer P53Z60LX	RR2X/LL	54 A	12.4 BC	142 BC	33 D	1.2
Pioneer P50Z95E	E3	53 A	11.4 C	139 D	34 D	1.1
USG 7543XF	XF	48 B	16.8 A	145 A	38 BC	1.4
MO S20-13179LL55	LL	47 B	12.6 BC	142 BC	41 A	1.4
Progeny 5056XFS	XFS	47 B	12.7 B	142 BC	39 AB	1.4
MO S20-1492	Conv	45 BC	12.0 BC	140 CD	34 D	1.2
USG 7534GT	GT	45 BC	12.9 B	139 D	39 A-C	1.5
MO S20-4428	Conv	42 C	12.2 BC	142 B	37 C	1.1
Average		48	12.9	141	37	1.3
Standard Error		5	0.6	2	2	0.2
L.S.D._{.05}		4	1.2	2	2	-
C.V.		13	15	2	9	-
Site-Years		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).