

Table A-19. Mean[†] yield and agronomic traits of 40 Maturity Group IV Late (4.6 - 4.9) soybean varieties evaluated in small plot replicated trials at the Middle Tennessee AgResearch and Education Center - Non-Irrigated Trial in Spring Hill, Tennessee during 2024.

Variety	Herbicide Pkg [†]	Avg. Yield [§] (bu/ac)	Moisture at Harvest (%)	Maturity (DAP)	Plant Height (in.)	Lodging ^{††} (1-5)
Innictis A4862XF	XF	55 A	10.9 F-M	135 D-H	30 F-K	1.0
Progeny 4947XFS	XFS	53 AB	11.0 E-M	139 A	35 AB	1.2
Donmario DM48F53	XF	53 AB	11.2 C-M	136 C-G	29 G-K	1.0
Progeny 4775E3S	E3S	53 A-C	11.5 B-I	134 H-L	34 A-C	1.0
Pioneer P48Z70BLX	E3S-Bolt	53 A-E	11.8 B-G	135 D-H	36 A	1.0
Asgrow AG49XF4	XFS	52 A-D	10.8 G-M	135 D-H	34 A-E	1.0
Progeny 4798XF	XF	51 A-E	10.3 MN	136 B-F	31 C-K	1.3
Pioneer P49Z02E	E3	51 A-E	11.0 E-M	136 C-G	31 C-J	1.0
Progeny 4623XF	XF	50 A-F	11.3 C-K	134 F-J	33 A-G	1.0
CNI Integra XF4875S	XF	50 A-G	11.4 C-K	138 AB	33 A-G	1.3
Dyna-Gro S49XF43S	XFS	49 A-G	10.4 L-N	139 A	29 G-K	1.0
USG 7494ETS	E3S	48 A-G	11.8 B-E	132 L	32 B-I	1.0
Dyna-Gro S47XF23S	XFS	48 A-G	11.6 B-I	134 G-K	33 A-F	1.0
Great Heart GT4756XF	RR/LL	48 A-G	11.1 D-M	135 E-I	28 I-K	1.0
Dyna-Gro S48XF35	XF	48 A-G	10.7 H-M	137 B-E	29 G-K	1.0
Revere 49-F36	XF	47 A-H	11.1 D-M	139 A	33 A-H	1.2
USG 7474XFS	XFS	47 A-I	11.2 C-L	137 B-D	30 F-K	1.0
Progeny 4691XFS	XFS	46 A-J	12.1 A-C	133 J-L	34 A-D	1.0
Innictis A4924XF	XF	46 A-J	11.0 E-M	137 B-D	30 F-K	1.0
Pioneer P47Z15BE	E3S-Bolt	46 A-J	10.5 K-M	134 G-K	31 C-J	1.0
USG 7461XFS	XFS	46 A-J	11.1 D-M	135 E-I	33 A-H	1.0
Revere 47-F77	XF	45 B-J	11.2 C-L	134 F-J	32 A-I	1.0
Donmario DM46F54S	XF	45 B-J	11.9 B-D	133 I-L	32 A-I	1.2
MO S20-7117	Conv	45 B-J	11.9 B-E	134 G-K	31 C-J	1.0
Xitavo XO 4894E	E3	44 B-J	12.4 AB	133 J-L	27 JK	1.0
Pioneer P46A90LX	RR2X/LL	44 C-J	11.8 B-F	132 L	30 C-K	1.0
Progeny 4806XFS	XFS	43 D-J	11.1 D-M	137 B-D	29 G-K	1.0
Progeny 4604XFS	XFS	43 E-J	10.6 J-M	137 B-D	33 A-G	1.0
Innictis A4814XF	XF	42 E-J	10.5 K-M	137 B-E	28 JK	1.0
USG 7495XFS	XFS	42 F-J	9.5 N	138 AB	33 A-G	1.5
CNI Integra XF4634S	XF	42 F-J	11.4 C-K	135 F-I	33 A-F	1.0
Xitavo XO 4772E	E3	42 F-J	11.6 B-H	135 D-H	27 K	1.0
USG 7463XF	XF	41 F-J	11.3 C-L	132 L	31 C-J	1.0
Innictis A4664XF	XF	41 F-J	10.7 I-M	132 L	30 E-K	1.0
USG 7485ETS	E3S	41 E-J	10.8 F-M	133 H-L	29 D-K	1.0
Progeny 4999E3S	E3S	41 G-J	11.5 C-J	134 G-K	29 H-K	1.0
Revere 4826XFS	XFS	40 F-J	11.1 C-M	138 A-C	27 JK	1.0
CNI Fortus 4655ES	E3	38 H-J	12.9 A	132 KL	28 I-K	1.0
Progeny 4848XF	XF	37 IJ	10.3 MN	134 F-J	27 JK	1.0
Pioneer P46Z53E	E3	37 J	11.2 C-L	132 KL	27 JK	1.0
Average		46	11.2	135	31	1.0
Standard Error		4	0.4	1	2	0.1
L.S.D. _{.05}		9	0.9	2	4	0.2
C.V.		13	5	1	8	10

[†] 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.

- † Indicate data that were log transformed to meet assumptions of normality, raw means are reported and mean separation letters are given. L.S.D values are not reported as these would be relative to transformed mean values.

‡ 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.