

Table A-25-a. Mean[†] yield and agronomic traits of 12 Maturity Group V Early (5.0 - 5.4) soybean varieties evaluated in small plot replicated trials without irrigation at the Northeast Tennessee AgResearch and Education Center in Greeneville, Tennessee during 2023.

Variety	Herbicide Pkg [†]	Avg. Yield [§] (bu/ac)		Moisture at Harvest (%)		Plant Height (in.)		Lodging (1-5)		Maturity (DAP)	
		1 yr	2 yr	1 yr	2 yr	1 yr	2 yr	1 yr	2 yr	1 yr	2 yr
USG 7503XF	XF	112 A		8.3 AB		44 D-F		2.5 C-E		163 A	
Innvictis A5503XF	XF	111 AB		8.5 A		49 AB		2.2 DE		160 A	
Revere 5029XF	XF	99 A-C	77 A	8.1 B-D	10.6 A	49 A-C	49 A	2.8 BC	2.4 B	161 A	153 A
USG 7534GT	GT	98 A-C		8.2 A-C		51 A		2.7 B-D		159 A	
NK 52-D6E3*	E3	95 A-C	76 A	7.8 D	10.2 A	43 D-F	42 B	2.0 E	1.5 D	161 A	152 A
Innvictis A5003XF	XF	92 A-C		7.9 CD		42 F		2.5 C-E		159 A	
Asgrow AG53XF2	XF	91 A-C	74 A	8.3 AB	10.4 A	46 C-E	46 A	2.0 E	1.8 CD	160 A	152 A
Progeny 5056XFS	XFS	89 B-D	74 A	8.0 B-D	10.6 A	48 A-C	48 A	2.8 BC	2.3 BC	160 A	152 A
Innvictis A5813XF	XF	79 C-E		8.3 AB		45 D-F		2.7 B-D		160 A	
USG 7543XF	XF	69 DE		8.2 A-C		46 B-D		3.2 B		163 A	
MO S18-6013	Conv	67 DE		8.2 A-C		43 EF		3.8 A		161 A	
MO S18-6328	Conv	64 E	52 B	7.9 CD	10.6 A	42 F	39 B	4.0 A	3.7 A	161 A	153 A
Average		89	70	8.2	10.5	46	45	2.8	2.3	161	152
Standard Error		8	18	0.1	2.4	1	1	0.2	0.4	1	8
L.S.D. _{.05}		22	13	0.3	N.S.	3	3	0.5	0.5	N.S.	N.S.
C.V.		15	15	2	3	4	6	-	-	1	1

[†] Varieties that have any MS letter in common are not significantly different at the 5% level of probability. Values highlighted in light orange are above average for a given trait, 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.E.

[‡] For a full description of abbreviated biotech traits, see table 29.

* 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).

^T 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.

Table A-25-b. Mean yield and agronomic traits of 12 Maturity Group V Early (5.0 - 5.4) soybean varieties evaluated in small plot replicated trials without irrigation at the Northeast Tennessee AgResearch and Education Center in Greeneville, Tennessee during 2023.

Variety	Herbicide Pkg [†]	Avg. Yield [§]	SDS DI ^{††}	SDS DS ^{††}	SDS DX ^{††}	Frogeye ^{‡‡}	Leaf Holding
		(bu/ac)	(%)	(1-9)	(DI x DS/9)	(%)	(1-5)
		1 yr	1 yr	1 yr	1 yr	1 yr	1 yr
USG 7503XF	XF	112 A	5	2.3	2	1.3	1.5 A
Innvictis A5503XF	XF	111 AB	0	1.0	0	1.0	1.5 A
Revere 5029XF	XF	99 A-C	0	1.0	0	1.0	1.5 A
USG 7534GT	GT	98 A-C	0	1.0	0	1.0	1.5 A
NK 52-D6E3*	E3	95 A-C	0	1.0	0	1.0	1.5 A
Innvictis A5003XF	XF	92 A-C	0	1.0	0	1.0	1.5 A
Asgrow AG53XF2	XF	91 A-C	0	1.0	0	1.0	1.5 A
Progeny 5056XFS	XFS	89 B-D	0	1.0	0	1.0	1.5 A
Innvictis A5813XF	XF	79 C-E	0	1.0	0	1.0	1.5 A
USG 7543XF	XF	69 DE	0	1.0	0	1.0	1.5 A
MO S18-6013	Conv	67 DE	0	1.0	0	1.0	1.7 A
MO S18-6328	Conv	64 E	0	1.0	0	1.0	1.5 A
Average		89	0	1.1	0	1.0	1.5
Standard Error		8	1	0.0	0	0.0	0.0
L.S.D. _{.05}		22	2	N.E.	N.E.	N.E.	N.S.
C.V.		15	-	-	-	-	-

† Varieties that have any MS letter in common are not significantly different at the 5% level of probability. Values highlighted in light orange are above average for a given trait, 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.E.

* Asterisks after a name indicate the number of preceding consecutive years in the top-performing "A" group.

‡ For a full description of abbreviated biotech traits, see table 29.

§ All yields are adjusted to 13% moisture.

†† SDS was evaluated as disease incidence (percentage), disease severity (1 to 9, with 1 indicating no disease), and disease index (DI x DS/9). Evaluated in mid-September.

‡‡ Frogeye was evaluated using a 1 to 9 scale, with 1 indicating no disease. Evaluated in mid-September.

|| Leaf holding was evaluated visually at harvest using a 1 to 5 scale, with 1 indicating no leaves at maturity..

T 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.