

Table A-32-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 East Tennessee AgResearch and Education Center in Knoxville, 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
NK 52-D6E3*	E3	66 A	62 A	12.5 B	11.9 B	45 A	39 B	1.3 A	1.7 A	145 B	144 A
Progeny 5056XFS	XFS	56 B	58 AB	13.8 A	13.2 A	48 A	46 A	1.3 A	1.2 A	146 B	145 A
MO S18-6013	Conv	55 B		14.0 A		38 B-D		1.0 A		150 A	
Innvictis A5503XF	XF	52 BC		12.5 B		42 AB		1.0 A		145 BC	
Asgrow AG53XF2	XF	51 BC	48 C	13.1 AB	12.3 B	43 AB	41 B	1.0 A	1.0 A	146 B	143 A
USG 7503XF	XF	51 BC		13.1 AB		44 AB		1.0 A		141 C	
Revere 5029XF	XF	51 BC	53 A-C	13.7 A	13.1 A	47 A	44 AB	1.3 A	1.2 A	148 AB	146 A
USG 7534GT	GT	45 CD		13.4 AB		45 A		2.0 A		146 B	
Innvictis A5003XF	XF	44 CD		12.6 B		39 BC		2.7 A		147 AB	
USG 7543XF	XF	42 D		12.5 B		47 A		2.3 A		145 BC	
MO S18-6328	Conv	41 D	51 BC	13.6 A	12.5 AB	33 D	34 C	2.7 A	2.0 A	150 A	147 A
Innvictis A5813XF	XF	39 D		13.7 A		36 CD		1.3 A		148 AB	
Average		49	54	13.2	12.6	42	41	1.6	1.4	146	145
Standard Error		3	3	0.3	0.8	2	3	0.5	0.3	2	2
L.S.D. _{.05}		8	9	1.0	0.7	6	5	N.S.	N.S.	4	N.S.
C.V.		9	14	4	5	8	10	-	-	1	2

[†] 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-32-b. Mean yield and quality of 12 Maturity Group V Early (5.0 - 5.4) soybean varieties evaluated in small plot replicated trials without irrigation at the West Tennessee AgResearch and Education Center in Jackson, 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
NK 52-D6E3*	E3	66 A	2 A	1.3 A	0 A	1.3 B	1.0 D
Progeny 5056XFS	XFS	56 B	3 A	1.3 A	1 A	2.7 B	0.7 D
MO S18-6013	Conv	55 B	17 A	1.3 A	2 A	1.3 B	2.7 AB
Innictis A5503XF	XF	52 BC	30 A	2.7 A	13 A	2.7 B	1.0 D
Asgrow AG53XF2	XF	51 BC	28 A	4.0 A	14 A	3.0 AB	1.0 D
USG 7503XF	XF	51 BC	22 A	2.7 A	6 A	2.0 B	1.0 D
Revere 5029XF	XF	51 BC	18 A	2.7 A	6 A	2.7 B	1.3 CD
USG 7534GT	GT	45 CD	38 A	2.3 A	10 A	1.3 B	2.0 BC
Innictis A5003XF	XF	44 CD	38 A	2.7 A	11 A	1.3 B	1.3 CD
USG 7543XF	XF	42 D	33 A	2.7 A	10 A	2.0 B	1.3 CD
MO S18-6328	Conv	41 D	5 A	2.0 A	1 A	1.7 B	3.3 A
Innictis A5813XF	XF	39 D	22 A	1.7 A	4 A	4.7 A	3.3 A
Average		49	21	2.3	7	2.2	1.7
Standard Error		3	10	0.6	4	0.6	0.3
L.S.D. _{.05}		8	N.S.	N.S.	N.S.	1.7	0.9
C.V.		9	-	-	-	-	-

† 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.