

Table A-27-a. Mean[†] yield and agronomic traits of 12 Maturity Group V Early (5.0 - 5.4) soybean varieties evaluated in small plot replicated trials with irrigation at the Highland Rlm Tennessee AgResearch and Education Center in Springfield, 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	83 A	73 A	12 A	13 A	44 A	40 A	1.3 A	1.2 A	152 C	149 BC
MO S18-6013	Conv	66 B		12 A		32 E		1.3 A		155 B	
Revere 5029XF	XF	65 B	62 B	12 A	13 A	42 A-C	40 A	1.3 A	1.2 A	152 C	149 BC
MO S18-6328	Conv	62 BC	60 B	12 A	12 A	40 A-D	36 A	1.5 A	1.3 A	155 B	151 A
Progeny 5056XFS	XFS	60 B-D	58 B	12 A	12 A	42 A-C	39 A	1.2 A	1.1 A	152 C	150 B
Innictis A5503XF	XF	57 B-E		12 A		38 B-D		1.2 A		151 CD	
USG 7503XF	XF	55 B-F		12 A		40 A-D		1.5 A		151 CD	
Asgrow AG53XF2	XF	52 B-F	55 B	12 A	13 A	36 C-E	37 A	1.0 A	1.0 A	151 CD	149 C
USG 7534GT	GT	51 C-F		12 A		41 A-D		1.3 A		150 D	
USG 7543XF	XF	47 D-F		13 A		42 AB		1.8 A		154 B	
Innictis A5003XF	XF	44 EF		12 A		36 DE		1.0 A		150 CD	
Innictis A5813XF	XF	41 F		33.6 ^a A		38 B-D		1.5 A		157 A	
Average		57	62	12.1	12.8	39	38	1.3	1.1	152	150
Standard Error		5	4	0.3	0.7	3	3	0.3	0.1	1	3
L.S.D. _{.05}		14	7	N.S.	N.S.	6	N.S.	N.S.	N.S.	2	1
C.V.		14	10	3	8	8	7	-	-	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.

^a Not included in analysis due to being an extreme outlier. All three reps had similar values, mean is reported here, but was not included in ANOVA.

Table A-27-b. Mean yield and quality of 12 Maturity Group V Early (5.0 - 5.4) soybean varieties evaluated in small plot replicated trials with irrigation at the Highland Rim Tennessee AgResearch and Education Center in Springfield, 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		2 D	1.0 E	0 A	1.0 D	0.0
MO S18-6013	Conv		7 CD	1.3 DE	1 A	1.0 D	0.0
Revere 5029XF	XF		10 B-D	1.7 DE	3 A	1.7 BC	0.5
MO S18-6328	Conv		5 D	1.3 DE	1 A	1.0 D	0.0
Progeny 5056XFS	XFS		8 CD	1.7 DE	2 A	2.3 B	0.8
Innictis A5503XF	XF		23 A-D	2.3 CD	7 A	1.0 D	0.0
USG 7503XF	XF		32 AB	4.0 AB	19 A	1.3 CD	0.2
Asgrow AG53XF2	XF		28 A-C	4.0 AB	13 A	1.0 D	0.0
USG 7534GT	GT		28 A-C	3.0 BC	12 A	1.0 D	0.0
USG 7543XF	XF		23 A-D	4.3 A	13 A	1.0 D	0.0
Innictis A5003XF	XF		43 A	3.3 A-C	21 A	1.3 CD	0.2
Innictis A5813XF	XF		23 A-D	3.3 A-C	9 A	5.0 A	1.5
Average			19	2.6	8	1.6	0.3
Standard Error			13	0.7	7	0.5	0.0
L.S.D. _{.05}			23	1.3	N.S.	Sig.	N.E.
C.V.			-	-	-	-	-

[†] 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.

[†] 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.