

**Table A-31-a. Mean<sup>†</sup> 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 AgResearch and Education Center at Milan in Milan, Tennessee during 2023.**

Variety	Herbicide Pkg <sup>†</sup>	Avg. Yield <sup>§</sup> (bu/ac)		Moisture at Harvest (%)		Plant Height (in.)		Lodging <sup>  </sup> (1-5)		Maturity (DAP)	
		1 yr	2 yr	1 yr	2 yr	1 yr	2 yr	1 yr	2 yr	1 yr	2 yr
Revere 5029XF	XF	70 A	68 A	12 A-C	12 A	50 A	44 A	1.0	1.0	148 BC	145 A
Progeny 5056XFS	XFS	70 A	66 AB	12 A-D	12 A	47 A	42 AB	1.0	1.0	148 BC	145 A
USG 7503XF	XF	69 AB		12 A-E		48 A		1.0		141 E	
NK 52-D6E3*	E3	67 A-C	59 BC	12 A-D	11 B	47 A	40 B	1.3	1.3	146 CD	145 A
Innvictis A5503XF	XF	64 A-C		11 E		47 A		1.0		152 AB	
USG 7543XF	XF	63 A-C		11 E		48 A		1.0		148 A-C	
Innvictis A5003XF	XF	62 A-C		12 A-E		45 AB		1.0		142 DE	
Asgrow AG53XF2	XF	61 BC	54 CD	12 C-E	11 B	49 A	43 AB	1.0	1.0	150 A-C	145 A
MO S18-6013	Conv	60 C		12 A		38 CD		1.0		152 AB	
Innvictis A5813XF	XF	59 CD		12 DE		41 BC		1.0		152 AB	
MO S18-6328	Conv	51 DE	48 D	12 B-E	11 AB	36 D	32 C	2.3	1.7	153 A	148 A
USG 7534GT	GT	45 E		12 AB		46 AB		1.0		150 A-C	
Average		62	59	11.9	11.5	45	40	1.1	1.2	148	146
Standard Error		3	5	0.2	0.5	2	6	0.0	0.1	2	3
L.S.D. <sub>.05</sub>		8	8	0.6	0.4	5	3	N.E.	N.E.	5	N.S.
C.V.		8	11	3	3	7	6	-	-	2	2

<sup>†</sup> 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.

<sup>‡</sup> 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.

<sup>§</sup> All yields are adjusted to 13% moisture.

<sup>||</sup> Lodging was evaluated on a scale of 1 (no lodging) to 5 (complete lodging).

<sup>T</sup> 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-31-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 AgResearch and Education Center at Milan in Milan, Tennessee during 2023.**

Variety	Herbicide Pkg <sup>†</sup>	Avg. Yield <sup>§</sup>	SDS DI <sup>††</sup>	SDS DS <sup>††</sup>	SDS DX <sup>††</sup>	Frogeye <sup>‡‡</sup>
		(bu/ac)	(%)	(1-9)	(DI x DS/9)	(%)
		1 yr	1 yr	1 yr	1 yr	1 yr
Revere 5029XF	XF		3 D	1.3 BC	1 DE	1.7 A
Progeny 5056XFS	XFS		0 D	1.0 C	0 E	1.7 A
USG 7503XF	XF		22 BC	2.3 AB	5 B-D	1.7 A
NK 52-D6E3*	E3		8 CD	1.7 BC	2 DE	1.0 A
Innvictis A5503XF	XF		12 CD	2.0 A-C	2 DE	1.7 A
USG 7543XF	XF		37 AB	3.0 A	12 A	1.3 A
Innvictis A5003XF	XF		40 A	1.7 BC	8 AB	1.3 A
Asgrow AG53XF2	XF		15 CD	1.7 BC	3 C-E	1.3 A
MO S18-6013	Conv		3 D	1.7 BC	1 DE	1.3 A
Innvictis A5813XF	XF		17 CD	2.0 A-C	4 B-E	1.0 A
MO S18-6328	Conv		2 D	1.0 C	0 E	1.7 A
USG 7534GT	GT		37 AB	1.7 BC	7 BC	1.7 A
Average			16	1.8	4	1.4
Standard Error			6	0.3	2	0.4
L.S.D. <sub>.05</sub>			17	1.0	5	N.S.
C.V.			-	-	-	-

<sup>†</sup> 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.

<sup>†</sup> For a full description of abbreviated biotech traits, see table 29.

<sup>§</sup> All yields are adjusted to 13% moisture.

<sup>††</sup> 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.

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

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

<sup>T</sup> 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.