Table A-1-a. Mean† yield and agronomic traits of 9 Maturity Group III (3.0 - 3.9) 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	3 yr	1 yr	2 yr	3 yr	1 yr	2 yr	3 yr	1 yr	2 yr	3 yr	1 yr	2 yr	3 yr
Revere 3908XFS*	XFS	108 A	84 A	78 A	8.5 B	11.2 A	11.9 A	40 AB	41 A	40 A	2.0 EF	1.5 B	1.4 A	138 BC	129 A	-
USG 7394XFS	XFS	105 AB			8.8 A			43 A			3.0 BC			139 AB		
Innvictis A3992XF	XF	103 AB			8.4 BC			39 B			2.8 BC			140 A		
Asgrow AG38XF1	XF	99 AB	84 A	77 A	8.4 BC	11.3 A	12.0 A	40 AB	42 A	39 A	2.2 D-F	1.6 B	1.4 A	139 AB	130 A	-
Dyna-Gro S38XF22S*	XF	99 AB	79 A		8.3 BC	11.2 A		44 A	41 A		2.5 C-E	1.9 A		139 AB	130 A	-
Xitavo 3803E	E3	93 BC			8.4 BC			39 B			2.7 CD			138 A-C		
Asgrow AG39XF3	XF	83 C			8.5 B			41 AB			3.3 AB			138 BC		-
Perdue Agribusiness P30ILO22	Conv	63 D			8.2 C			31 C			1.7 F			134 D		
Perdue Agribusiness P29ILO22	Conv	50 E			7.7 D			34 C			3.7 A			137 C		
Average		89	82	77	8.4	11.3	11.9	39	41	40	2.6	1.7	1.4	138	129	-
Standard Error		4	20	13	0.1	2.8	1.8	1	2	2	0.2	0.6	0.4	1	9	-
L.S.D.$_{.05}$		12	N.S.	N.S.	0.3	N.S.	N.S.	4	N.S.	N.S.	0.6	0.3	N.S.	2	N.S.	-
C.V.		7	13	15	2	3	3	5	9	8	-	-	-	1	0	-

† 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 signficant 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 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-1-b. Mean† yield and agronomic traits of 9 Maturity Group III (3.0 - 3.9) 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)	SDS DI†† (%)	SDS DS†† (1-9)	SDS DX†† (DI x DS/9)	Frogeye‡‡ (%)	Leaf Holding‖ (1-5)
		1 yr	1 yr	1 yr	1 yr	1 yr	1 yr
Revere 3908XFS*	XFS	108 A	0.0	1.0	0.0	1.3 A	1.7
USG 7394XFS	XFS	93 BC	3.3	1.0	0.4	1.3 A	1.5
Innvictis A3992XF	XF	83 C	0.0	1.0	0.0	2.0 A	1.5
Asgrow AG38XF1	XF	99 AB	0.0	1.0	0.0	1.0 A	1.5
Dyna-Gro S38XF22S*	XF	105 AB	0.0	1.0	0.0	1.3 A	1.5
Xitavo 3803E	E3	63 D	0.0	1.0	0.0	2.0 A	1.5
Asgrow AG39XF3	XF	99 AB	0.0	1.0	0.0	1.7 A	1.5
Perdue Agribusiness P30ILO22	Conv	50 E	0.0	1.0	0.0	2.0 A	1.5
Perdue Agribusiness P29ILO22	Conv	103 AB	0.0	1.0	0.0	1.0 A	1.5
Average		89	0	1.0	0	1.5	2
Standard Error		4	0	0.0	0	0.4	0
L.S.D.$_{.05}$		12	N.E.	N.E.	N.E.	N.S.	N.E.
C.V.		7	-	-	-	-	-

† 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 signficant 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.