Table A-8-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 West Tennessee AgResearch and Education Center in Jackson, 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
Asgrow AG38XF1	XF	66 A	55 A	59 A	11 A	11 A	11 B	39 A	34 A	34 B	2.0 A	1.5 A	1.3 A	128 A	128 A	126 B
Asgrow AG39XF3	XF	64 A			11 A			40 A			1.7 A			131 A		
USG 7394XFS	XFS	63 A			11 A			41 A			1.3 A			129 A		
Perdue Agribusiness P30ILO22	Conv	58 A			11 A			35 A			1.0 A			123 B		
Dyna-Gro S38XF22S*	XF	54 A	54 A		11 A	11 A		39 A	35 A		1.0 A	1.0 A		130 A	130 A	
Xitavo 3803E	E3	52 A			11 A			38 A			1.7 A			129 A		
Innvictis A3992XF	XF	50 A			11 A			40 A			2.3 A			128 A		
Revere 3908XFS*	XFS	50 A	49 A	55 A	12 A	12 A	12 A	41 A	37 A	39 A	1.3 A	1.2 A	1.1 A	129 A	129 A	128 A
Perdue Agribusiness P29ILO22	Conv	50 A			11 A			31 A			2.0 A			117 C		
Average		56	53	57	11.2	11.4	11.3	38	36	36	1.6	1.2	1.2	127	129	127
Standard Error		6	5	6	0.3	0.2	0.3	3	4	2	0.6	0.3	0.2	1	1	2
L.S.D.$_{.05}$		N.S.	N.S.	N.S.	N.S.	N.S.	1.0	N.S.	N.S.	2	N.S.	N.S.	N.S.	4	N.S.	2
C.V.		17	17	13	5	4	9	11	6	6	-	-	-	2	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 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-8-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 West Tennessee AgResearch and Education Center in Jackson, Tennessee during 2023.

Variety	Herbicide Pkg†	Avg. Yield§ (bu/ac)	SDS DI†† (%)	SDS DS†† (1-9)	SDS DX†† (DI x DS/9)	Frogeye‡‡ (%)
		1 yr	1 yr	1 yr	1 yr	1 yr
Asgrow AG38XF1	XF	66 A	0	1.0	0	3.3 A
Asgrow AG39XF3	XF	64 A	0	1.0	0	4.0 A
USG 7394XFS	XFS	63 A	0	1.0	0	3.3 A
Perdue Agribusiness P30ILO22	Conv	58 A	2	1.0	0	1.7 A
Dyna-Gro S38XF22S*	XF	54 A	0	1.0	0	4.3 A
Xitavo 3803E	E3	52 A	0	1.0	0	4.3 A
Innvictis A3992XF	XF	50 A	0	1.0	0	3.7 A
Revere 3908XFS*	XFS	50 A	0	1.0	0	5.0 A
Perdue Agribusiness P29ILO22	Conv	50 A	0	1.0	0	3.0 A
Average		56	1	1.0	1	3.6
Standard Error		6	0	0	0	1.2
$L.S.D._{.05}$		N.S.	N.E.	N.E.	N.E.	N.S.
C.V.		17	-	-	-	-

† 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.