Table A-4-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 Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2023.

Variety	Herbicide Pkg[†]	Avg. Yield[§] (bu/ac)			Moisture at Harvest (%)			Plant Height (in.)			Lodging[ǁ] (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 AG39XF3	XF	91 A			13 AB			38 A			1.0			134 A		
Revere 3908XFS*	XFS	85 AB	57 A	49 A	13 B-D	12 A	12 A	37 A	31 AB	29 A	1.0	1.0	1.0	133 A	133 A	131 A
Asgrow AG38XF1	XF	84 AB	57 A	47 A	13 A-C	12 A	12 A	36 A	32 A	28 A	1.0	1.0	1.0	131 A	131 A	130 A
Xitavo 3803E	E3	81 BC			13 A			35 A			1.0			135 A		
USG 7394XFS	XFS	76 CD			13 B-D			37 A			1.0	1.0	1.0	133 A		
Innvictis A3992XF	XF	71 DE			13 B-D			33 A			1.0			133 A		
Dyna-Gro S38XF22S*	XF	69 EF	47 B		13 D	12 A		34 A	29 B		1.0	1.0		134 A	132 A	
Perdue Agribusiness P29ILO22	Conv	65 EF			13 CD			33 A			1.0			125 B		
Perdue Agribusiness P30ILO22	Conv	63 F			13 AB			30 A			1.0			127 B		
Average		76	54	48	13.0	11.7	12.4	35	31	29	1.0	1.0	1.0	132	132	131
Standard Error		2	26	18	0.1	1.2	1.0	2	5	4	0.0	0.0	0.0	1	1	1
L.S.D..05		7	8	N.S.	0.2	N.S.	N.S.	N.S.	2	N.S.	N.E.	N.E.	N.E.	4	N.S.	N.S.
C.V.		5	12	18	1	1	1	8	6	10	-	-	-	2	2	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 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.
ǁ 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-4-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 Highland Rim AgResearch and Education Center in Springfield, Tennessee during 2023.

Variety	Herbicide Pkg[†]	Avg. Yield[§] (bu/ac) 1 yr	SDS DI[††] (%) 1 yr	SDS DS[††] (1-9) 1 yr	SDS DX[††] (DI x DS/9) 1 yr	Frogeye[‡‡,T] (%) 1 yr	Leaf Holding[‖] (1-5) 1 yr
Asgrow AG39XF3	XF	91 A	8 A	1.3 A	1 A	1.3 A	1.0
Revere 3908XFS*	XFS	85 AB	3 A	1.0 A	0 A	1.0 A	1.0
Asgrow AG38XF1	XF	84 AB	5 A	1.3 A	1 A	1.0 A	1.0
Xitavo 3803E	E3	81 BC	2 A	1.0 A	0 A	1.3 A	1.0
USG 7394XFS	XFS	76 CD	2 A	1.0 A	0 A	1.3 A	1.0
Innvictis A3992XF	XF	71 DE	7 A	1.7 A	1 A	3.0 A	1.0
Dyna-Gro S38XF22S*	XF	69 EF	12 A	1.3 A	2 A	2.7 A	1.0
Perdue Agribusiness P29ILO22	Conv	65 EF	0 A	1.0 A	0 A	1.0 A	1.0
Perdue Agribusiness P30ILO22	Conv	63 F	0 A	1.0 A	0 A	1.0 A	1.0
Average		76	4	1.2	1	1.5	1.0
Standard Error		2	4	0.2	1	0.1	0.0
L.S.D..05		7	N.S.	N.S.	N.S.	N.S.	N.E.
C.V.		5	-	-	-	-	-

† 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.