Table A-17-a. Mean 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 ^{II} (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 AG49XF3	XF	119 A			8.1 B-E			49 A			2.3 E-G			152 A		
Progeny 4691XFS*	XFS	118 AB	89 <mark>A</mark>		8.1 B-E	10.8 AB		48 AB	46 AB		2.3 E-G	1.7 B-D		152 A	143 A	
USG 7461XFS**	XFS	116 A-C	87 <mark>A</mark>	88 A	7.8 F-I	10.5 CD	10.8 C	48 <mark>A-D</mark>	45 A-D	44 A	2.5 EF	2.0 A	2.0 A	151 A	143 A	-
Don Mario DM48F53	XF	111 A-D			7.9 E-I			40 FG			2.3 E-G			153 A		
Revere 4795XS****	R2XS	111 A-E	82 <mark>A</mark>	82 <mark>A</mark>	8.0 C-G	10.8 AB	11.0 AB	48 AB	44 A-F	42 AB	2.2 F-H	1.6 CD	1.6 BC	155 A	145 A	-
Progeny 4775E3S	E3S	110 A-F	87 A		8.1 B-F	10.8 AB		48 A-C	46 A		2.5 EF	1.8 A-C		154 A	144 A	
Revere 4826XF*	XF	107 A-G	84 A		8.2 A-D	10.8 AB		45 B-E	43 C-F		2.0 GH	1.6 CD		155 A	144 A	
Revere 4727XF	XF	105 A-H	80 A		7.5 J	10.3 D		44 C-F	42 EF		1.8 H	1.4 D		155 A	144 A	
Progeny 4604XFS**	XFS	105 A-H	85 A	88 A	7.9 E-I	10.5 B-D	10.8 BC	48 A-D	45 A-E	44 A	2.5 EF	1.9 AB	2.0 A	152 A	143 A	-
Dyna-Gro S47XF23S	XFS	103 B-H	80 A		8.3 A-C	10.7 A-C		45 B-E	41 F		2.2 F-H	1.6 CD		157 A	145 A	
USG 7463XF	XF	103 B-H	82 A		8.0 B-G	10.6 A-D		46 A-E	44 A-F		2.2 F-H	1.6 CD		148 A	141 A	
USG 7496XTS**	R2XS	101 C-I	81 A	85 A	8.2 B-E	10.9 A	11.1 A	48 A-D	45 A-C	44 A	2.0 GH	1.7 B-D	1.9 AB	153 A	143 A	
Revere 4934XF	XF	101 C-I			8.2 A-D			40 FG			2.7 DE			157 A		
Progeny 4806XFS	XFS	101 D-I	79 A	79 A	7.7 H-J	10.4 CD	10.7 C	45 A-E	43 B-F	40 B	2.0 GH	1.5 D	1.4 C	151 A	143 A	-
Dyna-Gro S48EN73	E3	100 D-J	76 A		8.3 A-C	10.9 A		44 C-F	41 F		2.0 GH	1.5 D		151 A	142 A	
USG 7494ETS	E3S	100 D-J			8.2 A-D			47 A-D			2.3 E-G			153 A		
Progeny 4798XF	XF	100 D-J	80 A		8.0 D-H	10.5 B-D		43 E-G	41 F		2.7 DE	1.8 A-C		154 A	144 A	
Asgrow AG47XF2	XF	97 D-J	78 A		8.2 A-D	10.6 A-D		46 A-E	43 B-F		2.7 DE	1.8 A-C		154 A	144 A	
USG 7474XFS	XFS	96 E-J			8.2 A-D			44 D-G			2.0 GH			154 A		
Asgrow AG48XF3	XF	95 F-J			8.0 B-G			46 A-E			1.8 H			158 A		
Innvictis A4862XF	XF	95 F-J	76 A		8.1 B-F	10.7 A-C		45 A-E	42 D-F		2.7 DE	1.8 A-C		154 A	144 A	
Xitavo 4653E	E3	92 G-J			7.8 F-I			45 B-E			2.0 GH			151 A		
Innvictis B4903E	E3	92 G-J			7.8 G-J			43 E-G			2.3 E-G			152 A		
Revere 4731XF	XF	91 H-J			8.2 A-D			44 C-F			3.0 CD			154 A		
Dyna-Gro S49XF43S	XFS	91 H-J	78 A		8.0 C-G	10.5 B-D		40 G	38 G		2.0 GH	1.5 D		154 A	144 A	
Xitavo 4894E	E3	87 IJ			8.3 AB			44 B-E			2.2 F-H			150 A		
Innvictis B4603E	E3	85 J			7.7 IJ			45 A-E			3.3 C			155 A		
MO S18-17644	Conv	61 K			8.5 A			49 A			4.3 A			155 A		
Perdue Agribusiness P48N	MO21Conv	56 K			8.0 C-G			46 A-E			3.8 B			159 A		
TN Exp TN18-4110b	Conv.	54 K			7.7 IJ			47 <mark>A-D</mark>			4.2 AB			159 A		
Average		97	81	84	8.0	10.6	10.9	45	43	43	2.5	1.7	1.8	154	143	-
Standard Error		5	23	14	0.1	2.6	1.6	1			0.2	0.6	0.3	3		-
L.S.D. _{.05}		16	N.S.	N.S.	0.3	0.3	0.2	4	3	3	0.5	0.3	0.3	N.S.	N.S.	-
C.V.		10	12	12	2	3	2	5	6	6	-		-	3	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 T varieties that have any who steller in common are not significantly dimerent at the 5% level of probability. Values highlighted in light orange are above average for a given that, 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 triatis, see table 29.

* Asterisks after a name indicate the number of preceding consecutive years in the top-performing "A" group.

Asian a main indicate the full of the full

Table A-17-b. Mean[†] yield and agronomic traits of 30 Maturity Group IV Late (4.5 - 4.9) soybean varieties evaluated in small plot replicated trials without irrigation at the Northeast Tennessee AgResearch and Education Center in Greeneville, Tennessee during 2023.

Variation 1	Herbicide	Avg. Yield§	SDS DI ^{††}	SDS DS ^{††}	SDS DX ^{††}	Frogeye ^{‡‡}	Leaf Holding
Variety	Pkg [†]	(bu/ac)	(%)	(1-9)	(DI x DS/9)	(%)	(1-5)
		1 yr	1 yr	1 yr	1 yr	1 yr	1 yr
Asgrow AG49XF3	XF	119 A	0	1.0	0	1.0	1.5
Progeny 4691XFS*	XFS	118 AB	0	1.0	0	1.3	1.5
USG 7461XFS**	XFS	116 A-C	0	1.0	0	1.0	1.5
Don Mario DM48F53	XF	111 A-D	0	1.0	0	1.0	1.5
Revere 4795XS****	R2XS	111 A-E	0	1.0	0	1.7	1.5
Progeny 4775E3S	E3S	110 A-F	3	1.3	1	1.0	1.7
Revere 4826XF*	XF	107 A-G	0	1.0	0	1.0	1.5
Revere 4727XF	XF	105 A-H	0	1.0	0	1.7	1.8
Progeny 4604XFS**	XFS	105 A-H	0	1.0	0	1.0	1.5
Dyna-Gro S47XF23S	XFS	103 B-H	0	1.0	0	1.7	1.5
USG 7463XF	XF	103 B-H	0	1.0	0	1.0	1.5
USG 7496XTS**	R2XS	101 C-I	0	1.0	0	1.0	1.5
Revere 4934XF	XF	101 C-I	0	1.0	0	1.0	1.5
Progeny 4806XFS	XFS	101 D-I	0	1.0	0	1.0	1.5
Dyna-Gro S48EN73	E3	100 D-J	0	1.0	0	1.0	1.5
USG 7494ETS	E3S	100 D-J	0	1.0	0	1.0	1.5
Progeny 4798XF	XF	100 D-J	2	1.3	0	1.0	1.5
Asgrow AG47XF2	XF	97 D-J	0	1.0	0	1.7	1.7
USG 7474XFS	XFS	96 E-J	0	1.0	0	1.0	1.5
Asgrow AG48XF3	XF	95 F-J	3	1.3	1	1.7	1.5
Innvictis A4862XF	XF	95 F-J	0	1.0	0	1.0	1.5
Xitavo 4653E	E3	92 G-J	0	1.0	0	1.0	1.7
Innvictis B4903E	E3	92 G-J	2	1.0	0	1.0	1.5
Revere 4731XF	XF	91 H-J	0	1.0	0	1.0	1.7
Dyna-Gro S49XF43S	XFS	91 H-J	0	1.0	0	1.0	1.5
Xitavo 4894E	E3	87 IJ	0	1.0	0	1.0	1.8
Innvictis B4603E	E3	85 J	0	1.0	0	1.0	1.7
MO S18-17644	Conv	61 K	0	1.0	0	1.0	1.5
Perdue Agribusiness P48MO2	56 K	0	1.0	0	2.0	1.8	
TN Exp TN18-4110b	Conv.	54 K	2	1.0	0	1.0	2.0
Average		97	0	1.0	0	1.2	1.6
Standard Error		5	0	0.0	0	0.0	0.0
L.S.D. _{.05}		16	N.E.	N.E.	N.E.	N.E.	N.E.
C.V.		10	-		-	-	-

[†] 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.

To A group, including the statement of the propertorining 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.

^{\$\}frac{1}{2}\$ All yields are adjusted to 13% moisture. \$\frac{1}{2}\$ Constitutes \$\frac{1}{2}\$ All yields are adjusted to 13% moisture. \$\frac{1}{2}\$ The substitutes \$\frac{1}{2}\$ DS 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 to be evaluated in the seval part of th