

Table A-19-a. Mean[†] yield and agronomic traits of 37 Maturity Group IV Late (4.5 - 4.9) soybean varieties evaluated in small plot replicated trials with irrigation at the East Tennessee AgResearch and Education Center in Knoxville, Tennessee during 2022. Analysis included variety performance over a 1 yr (2022), 2 yr (2021-2022), and 3 yr (2020-2022) period.

Variety	Herbicide Pkg [†]	Avg. Yield [§] (bu/ac)			Moisture at Harvest (%)			Plant Height (in.)			Lodging (1-5)		
		1 yr	2 yr	3 yr	1 yr	2 yr	3 yr	1 yr	2 yr	3 yr	1 yr	2 yr	3 yr
Dyna-Gro S46XF31S*	XFS	72 A	77 A		12.9 B	13.7 A		48 B-E	43 AB		1.8 B-F	1.8 B	
Progeny 4604XFS*	XFS	71 AB	73 A-C		11.8 C-G	13.1 A-C		49 A-D	42 AB		1.8 B-F	1.8 B	
USG 7496XTS*	RXS	69 AB	77 A	83 A	13.7 A	13.7 A	14.3 A	49 A-D	42 AB	40 A	2.2 B-D	1.8 B	1.8 AB
Innvictis A4742XF	XF	69 A-C			11.4 G			43 H-M			1.2 FG		
Revere 4826XF	XF	69 A-C			12.0 C-G			46 D-H			1.5 D-G		
Progeny 4844XFS	XFS	69 A-C			11.5 FG			44 F-K			1.3 E-G		
Revere 4795XS***	RXS	69 A-C	78 A	81 A	11.4 G	12.1 D	13.4 A	44 G-L	38 DE	37 A	1.5 D-G	1.5 B	1.5 B
Revere 4925XFS	XFS	68 A-D			13.0 AB			51 AB			1.8 B-F		
Revere 4727XF	XF	68 A-D			11.4 G			45 E-I			1.5 D-G		
Progeny 4798XF	XF	67 A-D			11.4 G			44 F-K			1.7 C-G		
Progeny 4691XFS	XFS	67 A-D			12.4 B-E			49 A-D			1.5 D-G		
Asgrow AG47XF2	XF	67 A-E			12.5 B-E			42 I-M			2.2 B-D		
Progeny 4732XF	XF	66 A-E			11.9 C-G			45 E-J			1.8 B-F		
Dyna-Gro S49XF43S	XFS	65 A-E			12.3 B-F			41 K-N			1.8 B-F		
Dyna-Gro S46ES91	E3S	65 A-E	74 A-C		12.2 B-F	13.0 A-C		52 A	44 A		1.7 C-G	1.6 B	
USG 7461XFS*	XFS	64 A-F	75 AB		11.8 D-G	12.7 B-D		47 C-G	41 BC		1.7 C-G	1.6 B	
Revere 4606XFS*	XFS	64 A-G	72 A-C		11.9 C-G	12.3 CD		49 A-D	42 A-C		2.0 B-E	1.8 B	
Dyna-Gro S47XF23S	XFS	64 A-G			12.0 C-G			44 F-K			1.5 D-G		
Revere 4806XS*	RXS	64 A-G	74 A-C		11.8 D-G	12.8 B-D		47 C-F	40 B-D		1.5 D-G	1.6 B	
Innvictis A4862XF	XF	64 A-G			12.1 C-G			44 F-K			1.8 B-F		
USG 7463XF	XFS	63 A-G			12.1 C-G			46 D-H			2.0 B-E		
Progeny 4775E3S	E3S	63 A-G			12.3 B-F			50 A-C			1.7 C-G		
Progeny 4821RX	RX	62 B-G	67 C	73 B	12.6 BC	13.3 AB	13.8 A	46 D-G	40 B-D	37 A	1.7 C-G	1.7 B	1.9 A
Progeny 4951XFS	XFS	62 B-G			12.0 C-G			42 I-M			1.8 B-F		
Dyna-Gro S48EN73	E3	62 B-H			11.7 E-G			40 M-O			2.0 B-E		
Innvictis A4662XF	XF	61 B-H			12.0 C-G			47 C-F			1.5 D-G		
Innvictis A4642XF	XF	61 B-H			12.4 B-E			40 L-O			1.8 B-F		
Asgrow AG48XF2	XF	61 B-H			11.9 C-G			45 E-I			1.5 D-G		
Dyna-Gro S49XF82S	XFS	60 C-H			12.3 B-F			45 E-J			1.3 E-G		
Dyna-Gro S49EN12	E3	59 D-H	69 BC		12.0 C-G	13.0 A-C		46 D-H	39 C-E		2.0 B-E	1.6 B	
Progeny 4806XFS	XFS	58 E-I	69 BC		11.7 E-G	12.5 B-D		42 J-N	37 E		1.2 FG	1.3 B	
NK Seed NK47-Z1XF	XF	55 F-I			11.8 D-G			44 G-L			1.0 G		
AR R18-14502	Conv	55 G-I			12.5 B-D			51 AB			3.7 A		
USG 7493ETS	E3S	53 H-J			12.6 B-D			52 A			2.3 BC		
USG 7481XF	XF	50 IJ	58 D		12.3 B-E	13.3 AB		44 F-K	39 C-E		3.8 A	2.8 A	
MO S17-2066C	Conv	49 IJ			12.6 B-D			38 NO			2.5 B		
Progeny 4932E3	E3	44 J			11.9 C-G			37 O			2.2 B-D		
Average		63	72	79	12.1	13.0	13.8	45	41	38	1.8	1.7	1.7
Standard Error		3	9	7	0.3	0.8	0.9	1	6	4	0.3	0.2	0.1
L.S.D. _{.05}		9	7	6	0.8	0.9	N.S.	3	3	N.S.	0.8	0.5	0.3
C.V.		9	8	8	4	6	8	5	5	6	27	25	18

† 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.

* 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 31.

§ All yields are adjusted to 13% moisture.

|| Lodging was evaluated on a scale of 1 (no lodging) to 5 (complete lodging). If not reported, no differences in lodging were observed.

C.V. is not reported for traits measured on a ratio scale.