

**Table 16. Yields of 18 Maturity Group IV Early (4.0-4.5) Enlist tolerant soybean varieties in 10 County Standard Tests and in small plot trials at 3 locations in Tennessee during 2023**

Summary from County Tests			Summary from Small Plot Research															
MS	Variety	Avg. Yield (bu/ac)	On-farm Location in Jackson (JAX)					Research & Education Center at Milan (RECM)					West TN Research & Education Center (WTREC)					Soybean Cyst Nematode
			Yield (bu/ac)		Frogeye leaf spot	Target spot	Brown spot	Yield (bu/ac)		Frogeye leaf spot	Target spot	Brown spot	Yield (bu/ac)		Frogeye leaf spot	Target spot	Brown spot	
			*Treated	Non-treated				*Treated	Non-treated				*Treated	Non-treated				
A	NK 42A6E3S	74.1	68.1	59.7	NONE	NONE	MOD	58.2	55.2	NONE	NONE	MOD	61.0	56.2	LOW	LOW	MOD	S
AB	Pioneer P42A84E	71.1	68.6	60.7	NONE	NONE	MOD	56.0	53.0	NONE	NONE	MOD	55.5	57.1	LOW	NONE	MOD	S
ABC	Dyna-Gro S41EN72	70.6	60.8	56.0	NONE	-	MOD	53.2	49.8	NONE	NONE	MOD	58.3	59.9	LOW	LOW	MOD	MR
ABC	Pioneer P45A81E	70.6	64.9	57.2	NONE	NONE	MOD	51.7	51.2	NONE	NONE	HIGH	57.9	55.4	LOW	LOW	LOW	S
ABC	NK 44-Q5E3S	69.7	65.0	56.9	LOW	NONE	MOD	51.8	50.8	NONE	NONE	MOD	55.7	49.0	LOW	NONE	LOW	S
ABC	Revere Inn. 4233E3S	69.7	63.2	53.3	HIGH	NONE	HIGH	54.1	51.7	MOD	NONE	HIGH	59.0	55.5	LOW	LOW	LOW	MS
ABCD	Pioneer P48A14E	69.5	70.7	58.1	MOD	NONE	MOD	55.5	50.2	LOW	NONE	LOW	57.0	57.0	LOW	NONE	HIGH	S
BCDE	Merschman Austin 20 <sup>4</sup>	68.6	62.1	53.6	NONE	-	MOD	54.8	53.7	LOW	NONE	MOD	61.8	60.6	LOW	NONE	LOW	MS
BCDE	NK 52-D6E3	68.0	69.4	63.5	LOW	MOD	-	59.8	49.8	LOW	LOW	MOD	-	-	-	-	-	S
BCDE	Merschman Dallas 23 <sup>4</sup>	67.8	65.0	56.3	MOD	NONE	MOD	59.4	53.0	LOW	NONE	MOD	57.4	49.3	NONE	NONE	MOD	S
BCDE	Dyna-Gro S48EN73	67.4	65.4	54.2	LOW	NONE	MOD	55.6	51.2	LOW	NONE	MOD	48.5	45.2	LOW	NONE	MOD	MS
BCDE	Dyna-Gro S45ES10S	67.0	61.0	53.3	MOD	NONE	MOD	58.3	54.6	LOW	NONE	MOD	59.1	59.0	LOW	NONE	MOD	MS
BCDE	Merschman Truman 2 <sup>1</sup>	66.1	58.2	52.1	NONE	-	MOD	61.7	54.5	NONE	NONE	MOD	-	-	-	-	-	MS
BCDE	Merschman Kennedy <sup>1</sup>	65.9	55.4	50.6	NONE	-	MOD	61.4	52.2	LOW	NONE	MOD	-	-	-	-	-	MS
BCDE	Merschman Memphis <sup>1</sup>	65.9	66.1	57.9	LOW	NONE	MOD	58.9	54.5	LOW	NONE	LOW	51.0	47.4	LOW	NONE	MOD	S
CDE	Merschman Atlanta 24	65.5	59.5	52.7	NONE	NONE	HIGH	49.1	48.0	NONE	NONE	MOD	59.4	57.6	LOW	NONE	LOW	MS
DE	Pioneer P40A36E	64.3	57.1	52.0	NONE	-	MOD	52.1	48.4	NONE	NONE	HIGH	56.2	59.8	LOW	NONE	LOW	MS
E	Merschman Eisenhow	63.7	59.9	55.0	NONE	-	HIGH	60.1	52.4	NONE	LOW	HIGH	-	-	-	-	-	MS
<b>Average</b>		<b>68.1</b>	<b>63.4</b>	<b>55.7</b>				<b>56.2</b>	<b>51.9</b>				<b>57.0</b>	<b>54.9</b>				

Yield adjusted to 13.5% moisture

MS= Varieties that have any MS letter in common are not statistically different in yield (based on 95% confidence)

\*Treated plots sprayed with Miravis Top @13.7 fl oz/a + 0.25% Induce @ R3 growth stage

JAX varieties planted May 19, sprayed Aug. 1, and harvested Oct. 10

RECM varieties planted May 24, sprayed Aug. 7, and harvested Oct. 18

NONE, LOW, MOD, and HIGH is a relative ranking of disease severity at each location.

Soybean Cyst Nematode rated as Resistant (R), Moderately Resistant (MR), Moderately Susceptible (MS), Susceptible (S), or High Susceptible (HS) to HG Type 1.2.5.7/Race 2

Disease ratings at JAX: Frogeye leaf spot ranged from 3 - 11%, averaged 6%; Target spot from 0 - 2%, averaged 0.2%; Brown spot from 29 - 44%, averaged 36%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 12%, averaged 4%; Target spot was not observed; Brown spot from 16 - 27%, averaged 20%

Disease ratings & yield data compiled by Dr. Heather Kelly and Wesley Crowder from replicated plots at 3 locations

County data provided by Ryan Blair, Ext. Area Specialist, and County Extension agents

Soybean Cyst Nematode data provided by Dr. Lesley Schumacher and Tara Sydboten, USDA Research Plant Pathologist Unit