

**Table 15. Yields and disease ratings of 11 Maturity Group IV Early (4.0-4.5) Glyphosate / Dicamba tolerant soybean varieties in 13 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)	*Treated	Non-treated	Frogeye leaf spot	Target spot	Brown spot	*Treated	Non-treated	Frogeye leaf spot	Target spot	Brown spot	*Treated	Non-treated	Frogeye leaf spot	Target spot	Brown spot	
A	Asgrow 43XF2	74.3	70.7	61.8	MOD	LOW	HIGH	58.5	54.5	MOD	NONE	HIGH	55.1	53.6	LOW	LOW	LOW	MS
A	Pioneer P44A21X	74.1	67.9	59.8	NONE	NONE	HIGH	59.5	52.4	NONE	NONE	HIGH	54.2	54.7	LOW	LOW	LOW	S
A	Revere 4237XFS	73.5	65.4	53.2	HIGH	NONE	MOD	57.3	53.0	MOD	NONE	HIGH	60.3	55.5	LOW	LOW	LOW	MR
AB	Asgrow 45XF3	73.2	68.4	52.0	HIGH	LOW	HIGH	53.4	54.4	MOD	NONE	HIGH	64.3	55.6	LOW	LOW	LOW	MS
AB	NK 44-J4XFS	73.2	67.2	60.8	MOD	NONE	MOD	57.8	57.3	LOW	NONE	MOD	62.4	57.2	LOW	NONE	LOW	MS
AB	Progeny 4505RXS	71.9	64.9	59.5	LOW	LOW	MOD	57.2	50.4	NONE	NONE	HIGH	62.7	61.0	LOW	NONE	LOW	S
AB	NK 42-T5XF	71.6	66.2	53.1	MOD	NONE	MOD	58.5	51.9	MOD	LOW	HIGH	57.1	60.5	LOW	LOW	MOD	MS
AB	Revere 4299XS	70.5	69.0	61.6	LOW	NONE	HIGH	54.2	51.8	LOW	LOW	HIGH	60.9	59.5	LOW	LOW	LOW	MR
AB	Progeny 4200RXS	70.2	67.1	62.5	NONE	NONE	HIGH	55.7	53.2	NONE	NONE	MOD	52.3	57.3	LOW	NONE	LOW	MS
AB	Dyna-Gro S45XF02	69.3	65.9	57.2	LOW	NONE	HIGH	57.3	56.0	LOW	NONE	MOD	60.8	60.2	LOW	NONE	MOD	MS
B	Dyna-Gro S42XF93S	67.8	66.8	54.9	HIGH	LOW	MOD	59.1	59.4	MOD	LOW	MOD	53.6	56.3	LOW	NONE	LOW	MR
<b>Average</b>		<b>71.8</b>	<b>67.2</b>	<b>57.9</b>				<b>57.1</b>	<b>54.0</b>				<b>58.5</b>	<b>57.4</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. 4

RECM varieties planted May 24, sprayed Aug. 7, and harvested Oct. 11

WTREC varieties planted June 15, sprayed Aug. 17, and harvested Oct. 19

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 0 - 36%, averaged 8%; Target spot from 0 - 1%, averaged 0.1%; Brown spot from 14 - 31%, averaged 20%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 8%, averaged 3%; Target spot from 0 - 5%, averaged 0.4%; Brown spot from 12 - 29%, averaged 20%

Disease ratings at WTREC: Frogeye leaf spot ranged from 0.1 - 3%, averaged 1%; Target spot from 0 - 5%, averaged 1%; Brown spot from 6 - 18%, averaged 10%

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