

Table 17. Yields and disease ratings of 14 Maturity Group 4 Late (4.6-4.9) & 3 MG 4 Early Glyphosate / Dicamba tolerant soybean varieties in 7 County Standard Tests and in small plot trials at 3 locations in Tennessee during 2024.

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)				Research & Education Center at Milan (RECM)				Soybean Cyst Nematode	
			Yield (bu/ac)		Frogeye leaf spot	Target spot	Brown spot	Yield (bu/ac)		Frogeye leaf spot	Brown spot	Yield (bu/ac)		Frogeye leaf spot		Brown spot
			*Treated	Non-treated				*Treated	Non-treated			*Treated	Non-treated			
BCDEFG	Asgrow 49XF4	60.5	50.7	48.2	NONE	NONE	HIGH	54.3	50.8	NONE	MOD	45.6	44.6	NONE	HIGH	S
DEFG	Beck's 4777XF	56.7	45.4	38.1	LOW	NONE	HIGH	49.8	47.6	LOW	MOD	45.2	43.4	MOD	HIGH	MR
ABCDEFG	Beck's 4999XF	60.6	53.6	48.6	NONE	NONE	MOD	53.3	52.3	NONE	MOD	45.5	45.5	NONE	MOD	MS
CDEFG	Dyna-Gro S47XF23S	57.4	47.1	42.6	LOW	NONE	HIGH	51.3	48.8	LOW	MOD	46.6	44.8	MOD	MOD	MS
AB	Dyna-Gro S49XF43S	65.4	57.4	51.6	NONE	NONE	HIGH	63.4	57.9	NONE	HIGH	49.3	48.3	NONE	HIGH	MS
G	NK 46-B4XFS	55.2	51.8	47.6	LOW	NONE	HIGH	54.5	51.7	LOW	HIGH	47.5	45.0	MOD	HIGH	MS
BCDEFG	NK 49-C2XFS	59.8	55.9	45.7	MOD	NONE	HIGH	61.4	53.4	MOD	MOD	46.5	44.4	MOD	HIGH	MS
DEFG	Pioneer P46A90LX	56.7	46.4	39.5	NONE	NONE	HIGH	59.8	56.3	NONE	MOD	50.6	48.4	NONE	HIGH	R
ABCDE	Pioneer P48Z70BLX	62.3	49.0	47.8	LOW	NONE	HIGH	58.0	55.2	LOW	HIGH	49.9	49.1	LOW	HIGH	R
ABCDEFG	Pioneer P53Z60LX	61.0	47.4	42.4	LOW	NONE	HIGH	47.2	47.5	LOW	HIGH	-	-	-	-	MR
EFG	Progeny 4691XF	56.0	47.6	43.5	HIGH	NONE	HIGH	54.9	50.0	MOD	HIGH	44.9	44.1	HIGH	HIGH	MS
A	Progeny 4947XFS	66.8	55.7	48.7	NONE	NONE	MOD	57.9	56.1	NONE	MOD	51.3	47.9	NONE	HIGH	MR
ABCD	Progeny 5056XFS	63.1	51.8	47.4	LOW	NONE	HIGH	45.3	46.0	LOW	HIGH	-	-	-	-	MR
CDEFG	Stine 46FD29	56.7	50.0	44.1	LOW	NONE	HIGH	54.8	46.7	MOD	HIGH	43.7	41.8	MOD	MOD	MS
FG	USG 7474XFS	55.5	55.4	52.8	NONE	LOW	MOD	53.2	56.4	NONE	MOD	43.3	44.0	MOD	HIGH	S
ABCDEF	USG 7495XFS	61.6	49.7	44.8	LOW	NONE	HIGH	49.8	47.3	LOW	HIGH	48.6	47.0	NONE	HIGH	MS
ABC	USG 7543XF	63.3	-	-	NONE	NONE	MOD	49.9	50.5	NONE	HIGH	-	-	-	-	MS
	Average	59.9	50.9	45.8				54.0	51.4			47.0	45.6			

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 21, sprayed Aug 1, and harvested Oct 10 (MG5 on Oct 14)

RECM varieties planted May 29, sprayed Aug 6, and harvested Oct 16 (MG5 on Oct 20)

WTREC varieties planted June 13, sprayed Aug 21, and harvested Oct 24

NONE, TRACE, 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 - 15%, averaged 5%; Target spot from 0 - 1.3%, averaged 0.1%; ; Brown spot from 11 - 20%, averaged 17%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 10%, averaged 4%; Target spot was not observed; Brown spot from 11 - 20%, averaged 15%

Disease ratings at WTREC: Frogeye leaf spot ranged from 0 - 14%, averaged 5%; Target spot was not observed; Brown spot from 13 - 19%, averaged 17%

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, Grain and Cotton Variety Testing, and County Extension agents

Soybean Cyst Nematode data provided by Tara Sydboten, USDA Research Plant Pathologist Unit