

Table 11. Yields and disease ratings of 9 Maturity Group 4 Early (4.0-4.5) and 1 MG 3 Glyphosate / Dicamba tolerant soybean varieties in 5 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)					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	Brown spot	
			*Treated	Non-treated				*Treated	Non-treated				*Treated	Non-treated			
	Dyna-Gro S38XF22S	63.4	49.7	48.9	MOD	TRACE	HIGH	49.0	45.5	HIGH	LOW	HIGH	45.4	47.9	LOW	HIGH	MS
A	Armor 45F65	63.0	53.9	48.8	LOW	NONE	HIGH	64.2	61.3	LOW	NONE	HIGH	49.8	48.8	LOW	MOD	MS
AB	Dyna-Gro S43XF85S	62.4	51.9	48.3	NONE	NONE	HIGH	58.3	52.2	NONE	NONE	MOD	45.3	48.1	NONE	MOD	MR
ABC	Stine 45FB02	61.5	52.8	49.6	LOW	NONE	MOD	57.4	57.7	LOW	NONE	MOD	45.2	43.2	NONE	MOD	S
ABC	Asgrow 44XF4	59.3	54.9	53.4	NONE	NONE	MOD	66.7	60.6	NONE	NONE	MOD	56.9	52.7	NONE	MOD	MR
ABCD	Beck's 4337XF	58.2	51.6	47.5	MOD	TRACE	HIGH	57.0	49.6	HIGH	NONE	HIGH	49.7	49.5	MOD	HIGH	MR
BCD	Pioneer P41Z80BLX	56.1	52.1	47.9	NONE	TRACE	HIGH	51.5	49.0	NONE	NONE	LOW	42.7	47.4	NONE	MOD	R
CD	Asgrow 42XF4	55.3	52.9	49.9	LOW	NONE	MOD	55.6	53.9	LOW	NONE	LOW	43.3	41.7	LOW	MOD	R
CD	Stine 40FD29	55.3	52.9	52.8	LOW	TRACE	HIGH	55.7	51.7	LOW	NONE	HIGH	41.9	40.3	LOW	LOW	MS
D	Dyna-Gro S41XF65	52.4	48.7	44.4	LOW	NONE	HIGH	58.6	53.4	MOD	LOW	HIGH	44.7	43.4	MOD	MOD	S
	Average	58.7	52.1	49.2				57.4	53.5				46.5	46.3			

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 July 30, and harvested Oct 10

RECM varieties planted May 29, sprayed July 30, and harvested Oct 16

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 ratings 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 - 10%, averaged 4%; Target spot from 0 - 0.8%, averaged 0.3%; Brown spot from 14 - 21%, averaged 18%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 11%, averaged 4%; Target spot from 0 - 1.5%, averaged 0.2%; Brown spot from 7 - 17%, averaged 14%

Disease ratings at WTREC: Frogeye leaf spot ranged from 0.3 - 10%, averaged 3.4%; Target spot was not observed; Brown spot from 10 - 18%, averaged 13%

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