

Table 21. Yields and disease ratings of 17 Maturity Group 4 Late (4.6-4.9) Glyphosate / Dicamba tolerant soybean varieties in 13 County Standard Tests and 18 varieties 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														
A	Pioneer P47A64X	71.8	73.3	63.1	LOW	NONE	MOD	60.3	57.7	LOW	NONE	MOD	54.6	56.1	LOW	NONE	HIGH	S
AB	NK 46-B4XFS	69.8	70.5	56.2	HIGH	NONE	MOD	58.7	51.0	MOD	NONE	HIGH	54.3	47.1	LOW	NONE	HIGH	S
ABC	Revere 4826XFS	68.8	68.6	52.4	LOW	NONE	HIGH	49.5	49.0	LOW	NONE	MOD	53.9	49.2	LOW	LOW	MOD	S
ABCD	Dyna-Gro S49XF43S	67.6	68.5	57.8	NONE	LOW	HIGH	59.4	56.0	NONE	NONE	MOD	58.9	53.2	NONE	NONE	HIGH	MS
ABCD	USG 7474XFS	66.4	68.6	53.4	LOW	NONE	HIGH	53.9	48.7	LOW	NONE	MOD	53.8	55.5	LOW	NONE	MOD	MS
BCD	Asgrow 48XF3	66.2	66.9	51.2	MOD	NONE	HIGH	53.0	50.9	MOD	NONE	MOD	59.9	58.1	LOW	NONE	HIGH	MS
BCD	Revere 4806XS	66.2	67.4	50.8	LOW	NONE	HIGH	52.8	48.9	LOW	NONE	HIGH	53.7	51.5	LOW	LOW	HIGH	MS
BCD	NK 48-A8XF	65.9	64.0	49.4	HIGH	NONE	MOD	56.2	51.0	HIGH	NONE	MOD	58.9	58.5	LOW	NONE	MOD	S
BCD	Armor 46-F76	65.6	64.4	51.4	HIGH	NONE	HIGH	53.8	51.3	HIGH	NONE	MOD	58.5	58.1	LOW	NONE	HIGH	MS
BCD	Pioneer P46A90LX	65.5	66.5	57.7	NONE	NONE	HIGH	57.9	55.7	NONE	NONE	MOD	52.5	44.9	NONE	NONE	MOD	MS
BCD	Asgrow 49XF3	65.3	65.4	56.2	MOD	LOW	MOD	59.6	52.1	MOD	LOW	LOW	60.9	55.9	LOW	MOD	MOD	MS
BCD	Progeny 4691XFS	64.5	67.8	56.2	HIGH	NONE	HIGH	55.8	51.8	MOD	NONE	MOD	53.9	53.7	LOW	LOW	MOD	MS
BCD	USG 7463XF	64.4	66.8	57.2	MOD	NONE	HIGH	55.4	49.8	LOW	NONE	HIGH	59.4	55.6	NONE	LOW	HIGH	MS
CD	Armor 46-F96	64.0	64.3	59.3	MOD	NONE	HIGH	54.1	53.3	LOW	LOW	HIGH	52.1	41.5	NONE	NONE	MOD	S
D	Asgrow 47XF2	63.4	61.8	54.5	NONE	NONE	HIGH	50.0	49.6	NONE	NONE	MOD	51.7	53.0	NONE	LOW	MOD	MS
D	USG 7461XFS	63.3	65.8	57.3	MOD	NONE	MOD	50.7	51.7	LOW	NONE	MOD	53.9	52.5	LOW	NONE	MOD	MS
D	Dyna-Gro S47XF23S	63.1	63.7	52.7	LOW	NONE	HIGH	47.0	45.4	LOW	NONE	MOD	58.1	55.4	LOW	NONE	MOD	MS
Average		66.0	66.7	55.1				54.6	51.4				55.8	52.9				

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. 9

RECM varieties planted May 24, sprayed Aug. 7, and harvested Oct. 12

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 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 - 60%, averaged 12%; Target spot from 0 - 6%, averaged 0.3%; Brown spot from 20 - 40%, averaged 29%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 18%, averaged 5%; Target spot from 0 - 2%, averaged 0.2%; Brown spot from 9 - 27%, averaged 19%

Disease ratings at WTREC: Frogeye leaf spot ranged from 0 - 2%, averaged 0.4%; Target spot from 0 - 8%, averaged 0.7%; Brown spot from 14 - 28%, averaged 21%

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