

Table 12. Yields of 25 Maturity Group 4 (4.0-4.9) & 1 MG 5 Enlist 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			
CDEF	Beck's 4320 E3	44.9	50.4	46.4	NONE	TRACE	MOD	54.9	48.6	LOW	HIGH	47.3	46.4	LOW	MOD	MR
BCDEF	Dyna-Gro S41EN72	44.9	52.5	50.2	NONE	NONE	MOD	53.5	54.8	NONE	LOW	49.7	55.9	NONE	MOD	MS
ABCDEF	Dyna-Gro S45EN25	47.6	49.0	48.0	NONE	NONE	MOD	49.0	50.3	NONE	LOW	52.8	52.7	NONE	MOD	MR
BCDEF	Dyna-Gro S48EN73	45.1	51.4	46.5	LOW	NONE	HIGH	55.6	51.4	LOW	HIGH	49.5	50.6	LOW	MOD	MS
ABC	Merschman Austin 2040E	51.3	51.6	47.8	NONE	NONE	MOD	54.5	51.3	NONE	MOD	48.0	44.5	NONE	MOD	MS
ABCDE	Merschman Dallas 2348E	47.4	48.4	47.4	LOW	NONE	HIGH	51.6	49.7	LOW	HIGH	53.3	50.1	LOW	MOD	MS
F	Merschman Denver 2442E	39.8	49.6	45.6	LOW	NONE	HIGH	55.1	49.0	HIGH	HIGH	42.8	44.3	HIGH	HIGH	MR
ABCDE	Merschman Memphis 2346E	48.1	53.4	49.0	LOW	NONE	MOD	52.0	46.9	LOW	MOD	43.9	47.2	LOW	LOW	MS
DEF	Merschman Savannah 2545E	43.5	58.9	51.8	LOW	NONE	HIGH	-	-	-	-	-	-	-	-	-
BCDEF	Merschman Truman 2338E	44.0	49.1	43.8	NONE	NONE	MOD	55.2	50.4	NONE	HIGH	49.3	50.0	NONE	MOD	MR
ABCDE	NK 42A6E3S	47.2	48.7	48.3	NONE	NONE	MOD	62.9	58.3	NONE	MOD	48.9	53.2	NONE	LOW	MR
ABCDE	NK 47-G5E3S	46.9	52.4	45.3	LOW	NONE	MOD	50.1	49.5	LOW	LOW	45.7	45.1	LOW	MOD	MR
BCDE	NK 49-U9E3S	46.5	55.7	56.4	NONE	NONE	HIGH	54.7	55.2	NONE	MOD	48.8	51.3	NONE	LOW	R
ABCDE	Pioneer P43Z44SE	48.1	54.0	44.8	LOW	NONE	MOD	53.9	49.9	LOW	MOD	49.5	50.4	LOW	LOW	R
ABCDE	Pioneer P45Z75E	47.4	56.0	53.5	NONE	NONE	MOD	59.6	57.7	NONE	LOW	52.4	54.1	NONE	MOD	R
AB	Pioneer P47Z15BE	51.5	48.9	45.7	NONE	NONE	HIGH	55.6	52.9	NONE	HIGH	51.2	48.0	NONE	HIGH	R
ABCD	Pioneer P49Z02E	50.1	54.8	50.2	LOW	NONE	HIGH	50.2	50.7	LOW	MOD	49.1	51.1	LOW	HIGH	R
A	Pioneer P50Z95E	53.5	53.2	49.4	NONE	NONE	HIGH	49.2	48.0	NONE	HIGH	-	-	-	-	MR
ABCDE	Progeny 4775E3S	47.6	46.4	41.7	LOW	NONE	MOD	51.2	44.9	LOW	MOD	41.6	40.4	LOW	HIGH	MS
ABCDE	Progeny 4999E3S	48.4	46.8	39.1	LOW	NONE	HIGH	50.7	45.4	LOW	HIGH	51.1	48.7	MOD	HIGH	MS
DEF	Stine 42EG23E3	43.5	49.0	46.6	NONE	TRACE	HIGH	49.7	48.5	LOW	MOD	47.3	47.0	NONE	HIGH	MS
EF	Stine 43EG29E3	42.2	53.1	45.3	HIGH	NONE	HIGH	56.0	51.0	MOD	HIGH	46.0	48.3	HIGH	MOD	MS
EF	Stine 46EE20	42.5	48.4	45.1	LOW	NONE	MOD	49.6	48.9	LOW	HIGH	47.0	46.2	LOW	MOD	MS
BCDEF	Stine 46EG92	45.2	53.0	45.3	NONE	NONE	HIGH	50.9	48.2	NONE	HIGH	49.4	49.3	NONE	HIGH	MS
ABCDE	Stine 48EE20	47.1	48.7	44.2	LOW	NONE	HIGH	49.4	45.5	LOW	HIGH	44.9	46.1	LOW	MOD	MR
BCDEF	Stine 49EG92	45.4	42.6	38.4	MOD	NONE	HIGH	48.5	45.4	LOW	HIGH	49.1	46.2	MOD	HIGH	MS
	Average	46.5	51.0	46.8				52.9	50.1			48.3	48.6			

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, 4E sprayed July 30 & 4L sprayed Aug 1, and harvested Oct 10

RECM varieties planted May 29, 4E sprayed July 30 & 4L sprayed Aug 6, 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 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 - 14%, averaged 3%; Target spot only observed at trace levels; Brown spot from 12 - 20%, averaged 16%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 10%, averaged 4%; Target spot was not observed; Brown spot from 8 - 18%, averaged 14%

Disease ratings at WTREC: Frogeye leaf spot ranged from 0 - 21%, averaged 4%; Target spot was not observed; Brown spot from 7 - 21%, averaged 14%

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