

Table 26. Yields and disease ratings of 8 Maturity Group V (5.0 - 5.5) Xtend Flex soybean varieties in 6 County Standard Tests and in small plot trials at 2 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)					Soybean Cyst Nematode
			Yield (bu/ac)	Frogeye leaf spot	Brown spot	Yield (bu/ac)	Frogeye leaf spot	Target spot	Brown spot			
			*Treated	Non-treated			*Treated	Non-treated				
A	NK 54J9XFS	63.4	62.5	56.8	LOW	HIGH	64.5	57.4	NONE	NONE	MOD	MS
A	Revere 5029XF	59.9	60.3	55.7	MOD	MOD	57.7	52.7	LOW	NONE	MOD	MS
A	Pioneer P50A08LX	58.0	57.8	54.5	LOW	MOD	53.1	51.4	LOW	LOW	MOD	MS
A	Asgrow 53XF2	57.6	66.0	57.9	LOW	MOD	59.6	51.8	LOW	LOW	LOW	MR
A	USG 7543XF	57.6	60.2	57.9	LOW	HIGH	63.5	54.9	NONE	LOW	MOD	MS
A	Dyna-Gro S51XF84S	57.3	63.9	50.3	HIGH	HIGH	55.5	50.0	MOD	NONE	MOD	MS
A	Progeny 5056XFS	57.3	64.5	55.5	MOD	HIGH	57.1	50.6	LOW	NONE	HIGH	MS
A	NK 52-V1XF	56.1	64.9	55.4	MOD	MOD	58.3	49.7	LOW	LOW	MOD	S
Average		58.4	62.5	55.5			58.7	52.3				

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 19, sprayed Aug. 1, and harvested Oct. 10

RECM varieties planted May 24, sprayed Aug. 7, and harvested Oct. 18

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 0.2 - 28%, averaged 6%; Target spot was not observed; Brown spot from 10 - 25%, averaged 18%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 14%, averaged 3%; Target spot from 0 - 4%, averaged 1%; Brown spot from 10 - 23%, averaged 16%

Disease ratings & yield data compiled by Dr. Heather Kelly and Wesley Crowder from replicated plots at 2 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