

Table 9. Yields and disease ratings of 5 Maturity Group III (3.6 - 3.9) Xtend Flex soybean varieties in 5 County Standard Tests and 6 varieties 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 (JAX)				Research & Education Center at Milan (RECM)					Soybean Cyst Nematode
		*Treated	Non-treated	Frogeye leaf spot	Brown spot	*Treated	Non-treated	Frogeye leaf spot	Target spot	Brown spot		
A	Asgrow 39XF3	79.5	61.2	56.0	MOD	HIGH	66.6	53.1	LOW	MOD	MOD	MR
A	NK 39-M8XF	76.9	59.3	51.8	LOW	HIGH	58.3	51.4	LOW	LOW	MOD	S
A	Asgrow 38XF1	73.5	60.4	54.5	LOW	HIGH	61.5	49.7	NONE	MOD	MOD	MS
A	Dyna-Gro S38XF22S	73.1	59.7	50.5	MOD	HIGH	60.8	49.4	LOW	HIGH	MOD	MS
A	Revere 3908XFS	73.0	65.0	55.0	NONE	HIGH	63.2	56.3	LOW	NONE	MOD	MR
Average		75.2	61.1	53.6			62.1	52.0				

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

On-farm location in Jackson (JAX) varieties planted May 19, sprayed July 25, and harvested Sept. 28

RECM varieties planted May 24, sprayed July 25, and harvested Oct. 3

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 On-farm Location: Frogeye leaf spot ranged from 0 - 8%, averaged 2%

Disease ratings at RECM: Frogeye leaf spot ranged from 0 - 3%, averaged 1%; Target spot from 0 - 18%, averaged 7%; Brown spot from 12 - 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