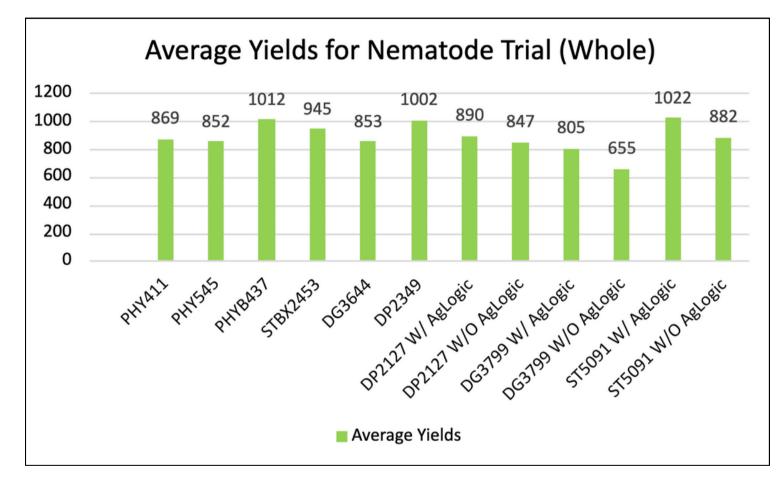
Cotton Trial Results: Effingham/Screven Counties

Screven County Nematode Trial Results '23



Overall Trial Details:

Plant Date: May 16th/17th Harvest Date: Oct. 18th

- Four Rows/Variety, replicated four times across the field
- On average: 920-1900 row ft were harvested
- Non-nematode cotton (ST5091) was planted year before with 5lbs AgLogic

Management Plan

2 tons of litter in March 60 units of N just before bloom 100 pounds of kmag (21units) 2 shots of pix(12,16) No fungicides Burndown: paraquat After planting: warrant and diuron 1st Post- Liberty/dual, 2nd Post- Liberty/warrant Layby: dual, diuron, roundup

Zone Sample Study Details:

Using a method similar to zone sampling and the management zone recommendations in the cotton production guide, the added element to this year's trial was to look at the varieties at different pressures to see what the effect on yields would be. The study was implemented within rep 3 of the trial as a whole. using GPS coordinates, nematode samples were taken in three 100ft zones per variety/treatment in May after planting and again in September. Before the harvest of the full trial, 10ft of row was randomly selected from each zone and hand picked to interpret the yields.

RKN Counts May and Sept.

Screven County Nematode Trial Results '23

	the country may		
	5/30/2023	9/27/2023	
	36	3	
PHY411	6	0	
	12	0	
РНҮ454	7	0	
	48	0	
	17	0	
РНУВ437	11	129	
	2	76	
	3	0	
STBX2453	8	23	
	5	4	
	21	37	
DG3644	4	13	
	11	26	
	33	0	
	9	30	
DP2349	2	7	
	32	1	
DP2127 W/AgLogic	19	528	
	28	711	
	62	421	
DP2127 W/O AGLOGIC	8	333	
	2	597	
	6	654	
DG3799 W/ AGLOGIC	2	994	
	6	1307	
	3	1128	
DG3799 W/O AGLOGIC	1	1455	
	2	1372	
	5	1064	
ST5091 W/ AGLOGIC	10	7	
	14	18	
	1	129	
ST5091 W/O AGLOGIC	5	151	
	24	210	
	32	120	

Variety	avg % Change in RK Counts
PHY411	-97
PHY454	-100
PHYB437	1558
STBX2453	81
DG3644	87
DP2349	129
DP2127 W/AgLogic	1899
DP2127 W/O AgLogic	14871
DG3799 W/ AGLOGIC	36261
DG3799 W/O AGLOGIC	78360
ST5091 W/ AGLOGIC	4266
ST5091 W/O AGLOGIC	1323

Connecting Letter	s	Rep	ort	AV	'G Yield/10FT OF ROW
Level				Mea	in
PHYB437	А		365.	9133	33
STBX2453	А		333.	4566	57
DP2349	А		330.	3300	00
DP2127 W/O AgLogic	А	В	302.	7933	33
PHY411	А	В	283.	5966	57
ST5091 W/O AgLogic	А	В	279.	8600	00
ST5091 W/ AgLogic	А	В	270.	7000	00
DP2127 W/ AgLogic	А	В	269.	6600	00
PHY545	А	В	268.	6133	33
DG3644	А	В	255.	3433	33
DG3799 W/O AgLogic	А	В	245.	1666	57
DG3799 W/ AgLogic		В	188.	0733	33
Levels not connected by same letter are significantly different.					

*DG3799 W/ AgLogic was seen to have a large amount of boll lock during the hand harvesting



-100 AgLogic, PHYB437 (475), and DP2349 were not statistically 1558 different and yielded the highest. When viewing the Zone Results, vou can see that the yields of 129 PHYB437 and DP2349 were again 1899 at the top along with STBX2453. 14871 Though it is worth noting that 36261 statistically DG3799 only W/AgLogic was different than the 78360 top yielders. 4266

Conclusions:

In the overall trial ST5091 W/

The biggest takeaway from the zone trial work would be the nematode populations at the end of the season. Samples were taken after planting and showed minimal numbers in the zones, but by September the nematode populations were significantly higher in some treatments than others. Some populations can be tied to the yields seen as well as other in field stress that was observed. Timing of samples, variety selection, and management strategies should not be after thoughts. These may not result in yield differences this year, but nematode population management is key to sustainable production year after year.