

Arkansas ROW CROP VERIFICATION



2023 Arkansas Cotton Research Verification Program Weekly Update – August 18, 2023

Division of Agriculture, University of Arkansas System, Cooperative Extension Service

By: Joe McAlee, Cotton Verification Coordinator

General Information

More of the same cloudy and cooler temps we had last week have continued into this week, but that looks to be changing as we go into next week. We are still holding a very good boll load and with no decent chances of rain in the forecast, we need to make sure we don't cut our water short and hurt ourselves this late in the game. We generally plan to cut our irrigation around 500-550 DD60s. This is still a very important time for the plants water uptake to finish out those bolls and keep from a premature opening. Target spot is in most of our fields but at the current rate this will help us with defoliation and could help us avoid some boll rot in our thicker fields. Our later planted fields are becoming a hotspot for leftover plant bugs but this next week will push us past the point of needing to worry about them. Insecticide thresholds and termination timings can be easily found on our cotton quick facts sheet. This can be found at <https://www.uaex.uada.edu/farm-ranch/crops>. As pretty much all of our cotton in the state has reached cutout, extension has a very helpful tool for calculating heat units. All that is needed is the date of cutout and the county in which the field is located and this program will give you up to date heat units for making management decisions based. This can be found at <https://growdegreecalc.uada.edu/>

County	Field Name	Variety	Plants /A	DAP to First Flower/ NAWF @ FF/Current NAWF	Cutout Date/ DAP to Cutout/ DD60s after Cutout @ visit	Field Notes
Desha/Drew	Winchester	NG 3195 B3XF	35,153	51/ 9/ 0	7-23/ 78/ 640	Last field visit on 8-16. Cotton is 19 node, 36-18" tall. 2.45" of rain since last visit. Field is holding good soil moisture. No pests found in field. Bottom bolls are getting close to having the dark seed coat we look for when slicing bolls. Right now we are just waiting to mature out so we can defoliate
Poinsett	Judd Hill (Crop Intensification)	DP 2127 B3XF	19,105	56/ 10/ 0	7-29/ 85/ 378	Last field visit on 8-17. Cotton is 19-20 node, 36-38" tall. .3" of rain since last visit. Field is holding good soil moisture. Spider mite pressure has grown a bit since last week but still not enough to warrant an application. Currently about 25% of plants are infested but damage is pretty light. Target spot remains about the same, <10% of plants, few leaves dropping but not a lot yet.

Poinsett	Judd Hill (Cover Crop)	DP 2127 B3XF	39,356	58/ 9/ 0	7-30/ 86/ 354	Last field visit on 8-17. Cotton is 19-20 node, 40-42" tall. .3" of rain since last visit. Field is holding good soil moisture. Spider mite pressure has grown a bit since last week but still not enough to warrant an application. Target spot has gotten thick in this field, it is on the bottom 1/3 of the canopy and we are sitting around 10% defoliation.
Poinsett	Judd Hill (Conventional till, No cover)	DP 2127 B3XF	39,738	56/ 9/ 0	7-30/ 86/ 354	Last field visit on 8-17. Cotton is 19-20 node, 38-40" tall. .3" of rain since last visit. Field is holding good soil moisture. Spider mite pressure has grown a bit since last week but still not enough to warrant an application. Target spot has gotten thick in this field, it is on the bottom 1/3 of the canopy and we are sitting around 10% defoliation.
Lee	Lee (cover)	PHY 360 W3FE	40,502	52/ 9/ 0	7-24/ 72/ 526	Last field visit on 8-15. 18-19 node cotton, 38" tall. .12" of rain since last visit. Field was irrigated on Monday of this week just to give it one more flush. Spider mite populations were killed out from last week's application. Now it's down to a waiting game to see this crop mature out and be ready for harvest aids.
Lee	Lee (no cover)	PHY 360 W3FE	37,153	53/ 8/ 0	7-26/ 74/ 484	Last field visit on 8-15. 18-19 node cotton, 36" tall. .12" of rain since last visit. Field was being irrigated on the day of this visit. Spider mite populations were killed out from last week's application. Now it's down to a waiting game to see this crop mature out and be ready for harvest aids.
Jackson	Kent	PHY 411 W3FE	38,974	66/ 11/ 4.2	8-15/ 94/ -	Last field visit on 8-17. 22 node cotton, 38-48" tall. .4" of rain since last visit. TPB were found to be at threshold. A again this week and will be sprayed soon. This field reached NAWF=5 on the 15 th to finish out our fields on cutout. This field being as late as it is has really created a haven for insect pressure with the other crops around it already drying down. We are going to have to make sure to stay on top of this field to hold what fruit we have and to get this field finished out.