

Arkansas ROW CROP VERIFICATION



2023 Arkansas Cotton Research Verification Program Weekly Update – July 28, 2023

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

By: Joe McAlee, Cotton Verification Coordinator

General Information

Hot and dry this week as some of our fields are reaching cutout. Plant bugs continue to be an issue with corn drying down. Counts have gone up across the state and will continue for a bit as the rest of our corn finishes maturing. Spider mites could flare back up with the weather we have in the forecast. We also need to stay on top of our PGR applications to make sure we are keeping our fields from getting to rank and to help us shut down and reach cutout. As some of our fields are reaching cutout in the state, 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. This can be found at <https://growdegrecalc.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/ 4.8	7-23/ 78/ -	Last field visit on 7-25 Cotton is 18-19 node, 34-36" tall. .1" of rain since last visit. Field is holding good soil moisture. TPB were found to be at threshold and the recommendation to spray was made again this week. Field was sprayed that day.
Poinsett	Judd Hill (Crop Intensification)	DP 2127 B3XF	19,105	56/ 10/ 5.4	-/-/-	Last field visit on 7-27 Cotton is 18-19 node, 33-35" tall. .9" of rain since last visit. Field is holding good soil moisture. TPB were found to be at threshold and the recommendation to spray was made again this week as corn in adjacent fields is starting to dry down and TPB keep moving into the cotton.
Poinsett	Judd Hill (Cover Crop)	DP 2127 B3XF	39,356	58/ 9/ 5.6	-/-/-	Last field visit on 7-27 Cotton is 18-19 node, 33-35" tall. .9" of rain since last visit. Field is holding good soil moisture. TPB were found to be at threshold and the recommendation to spray was made again this week as corn in adjacent fields is starting to dry down and TPB keep moving into the cotton. Target spot has started to show up in this field, <10% infection currently and very few dropped leaves.

Poinsett	Judd Hill (Conventional till, No cover)	DP 2127 B3XF	39,738	56/ 9/ 5.6	-/-/	Last field visit on 7-27 Cotton is 18-19 node, 33-35" tall. .9" of rain since last visit. Field is holding good soil moisture. TPB were found to be at threshold and the recommendation to spray was made again this week as corn in adjacent fields is starting to dry down and TPB keep moving into the cotton. Target spot is spreading across this field from the patches we saw last week. Still <10% infected but we are starting to see some defoliation.
Lee	Lee (cover)	PHY 360 W3FE	40,502	52/ 9/ 4.6	7-24/ 72/ -	Last field visit on 7-26. 17 node cotton, 34-36" tall. .1" of rain since last visit. TPB were found to be at threshold and the recommendation to spray was made. Patches of spider mites are showing back up in this field as well. This field has missed some of the big rains in the last few weeks which has allowed the mites to come back. Field was irrigated on 7-24 as soil moisture sensors were showing us starting to dry out.
Lee	Lee (no cover)	PHY 360 W3FE	37,153	53/ 8/ 5	7-26/ 74/ -	Last field visit on 7-26. 17 node cotton, 34-36" tall. .1" of rain since last visit. TPB were found to be at threshold and the recommendation to spray was made. Patches of spider mites are showing back up in this field as well. This field has missed some of the big rains in the last few weeks which has allowed the mites to come back. Field was irrigated on 7-22 as soil moisture sensors were showing us starting to dry out. We are also seeing a few leaves with target spot, however very few and far between.
Jackson	Kent	PHY 411 W3FE	38,974	66/ 11/ 7.8	-/-/	Last field visit on 7-27. 19-20 node cotton, 44-46" tall. 1.5" of rain since last visit. TPB were found to be below threshold. This field is in need of a heavy shot of pix to slow down growth, after having such a slow start this field is taking off quick and getting rank. This field will most likely be cutout by calendar date as late as it has been running this year.