

Arkansas ROW CROP VERIFICATION



2022 Arkansas Cotton Research Verification Program Weekly Update – September 2, 2022

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

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General Information

A fairly uneventful week across the state however we are still moving forward with this season. Driving this week, we saw a handful of fields that have gotten their first shot of harvest aids and we have a couple fields in the program that won't be far behind. We are seeing some target spot in fields however, this time of year that is not a bad thing for us as it will help with any boll rot that is trying to occur. We are past our plant bug insecticide termination point based on heat units (250 DD60s) in all of our fields now so that is one less thing we will have to worry about. Now it is a matter of choosing when to terminate irrigation and have enough moisture left to finish out our boll fill. As always we need to keep up with our heat units to make sure we are staying on target for our different termination points as well as our harvest aid application timing to ensure the highest fiber quality we can when this crop makes it into the module.

The Extension service has a useful tool for finding out how may heat units have been accumulated with our DD60 calculator. It is very fast and easy to use. This resource can be found at <https://growdegreecalc.uada.edu/>

County	Field Name	Variety/ Planting date	Plants/A	Cutout Date / DAP to Cutout/ DD60s after cutout	Field Notes
Desha/Drew	Winchester	DP 2211 B3TXF 5-12	31,800	7-27/ 76/ 752	Last field visit on 8-31. 24-25 node cotton, 50-52" tall. The cotton is looking worn down, field is showing a lot of late season fertility deficiency and is setting up nicely for defoliation. There is a little boll rot and hard lock are showing up in this field, <1% Field is currently at 15-20% open boll.
Poinsett	Judd Hill (Crop Intensification)	DP 2038 B3XF 5-13	19,678	8-15*/ 94/ 269	Last field visit on 9-1. 25 node cotton, 48-50" tall. Field received .1" of rain since last week. A few TPB were found while scouting however not to threshold and the producer has decided not to clean the last of them up. The Producer has also decided to terminate irrigation if no rain is received

					this weekend. The field is showing signs of drought stress currently and if it does not catch any rain we will need to irrigate one last time.
Poinsett	Judd Hill (Cover Crop)	DP 2038 B3XF 5-13	29,231	8-15*/ 94/ 269	Last field visit on 9-1. 25 node cotton, 48-50" tall. Field received .1" of rain since last week. A few TPB were found while scouting however not to threshold and the producer has decided not to clean the last of them up. The Producer has also decided to terminate irrigation if no rain is received this weekend. The field is showing signs of drought stress currently and if it does not catch any rain we will need to irrigate one last time.
Poinsett	Judd Hill (Conventional till, No cover)	DP 2038 B3XF 5-13	30,759	8-15*/ 94/ 269	Last field visit on 9-1. 25 node cotton, 48-50" tall. Field received .1" of rain since last week. A few TPB were found while scouting however not to threshold and the producer has decided not to clean the last of them up. The Producer has also decided to terminate irrigation if no rain is received this weekend. The field is showing signs of drought stress currently and if it does not catch any rain we will need to irrigate one last time. This field is showing more drought stress and wilting than the other 2 fields at this location.
Poinsett	Lepanto	DP 2127 B3XF 5-12	30,950	8-13/ 91/ 295	Last field visit on 9-1. 25 node cotton, 50" tall. Field received .5" of rain Since last week's visit. No pest insects were found in this field. There are a few rotten bolls down at the very bottom of the plants, <1%. Target spot is helping us with that problem as we are losing leaves at the bottom of the plant. This field is currently about 10% defoliated from the target spot. This could end up helping us from having anymore boll rot by opening up the lower canopy.
Lee	Lee (cover)	PHY 360 W3FE 5-4	24,072	7-18/ 75/ 889	Last field visit on 8-31. 22 node cotton, 46" tall. Field received .12" of rain this week. This field is looking very tired as we are getting very close to defoliation. Field is at 40% boll open. This side of the field still has a slightly greener color than the NC side. There is some boll rot happening in this field, <1%. No disease present. The producer is planning or defoliating this field next week.
Lee	Lee (no cover)	PHY 360 W3FE 5-4	24,263	7-19/ 76/ 866	Last field visit on 8-31. 22 node cotton, 42-44" tall. Field received .12" of rain this week. This field is looking very tired as we are getting very close to defoliation. Field is at 40% boll open. This side of the field still has a slightly greener

					color than the NC side. There is some boll rot happening in this field, <1%. No disease present. The producer is planning or defoliating this field next week.
Demo	BCI/US Trust Protocol (cover)	DP 1646 B2XF 5-19	11,463	8-15*/ 88/ 324	Last field visit on 9-1. 29-30 node cotton, 42" tall. Field received .1" of rain since last week. This field has taken back off with node production since the herbicide injury, plant is producing squares at far outer positions as well. Still will not have enough time to turn any of these new fruiting points into bolls.
Demo	BCI/US Trust Protocol (no cover)	DP 1646 B2XF 5-19	28,658	8-15*/ 88/ 324	Last field visit on 9-1. 29-30 node cotton, 44" tall. Field received .1" of rain since last week. This field has taken back off with node production since the herbicide injury, plant is producing squares at far outer positions as well. Still will not have enough time to turn any of these new fruiting points into bolls.
Demo	ASHA (cover)	PHY 411 W3FE 5-13	9,648	8-13/ 92/ 373	Last field visit on 9-1. 24 node cotton, 44" tall. Field received .15" of rain since last week. Field was being irrigated for the last time on the day of the visit. no pests found in field, a few plants were seen with target spot on them, not at all wide spread through the field yet.