

Arkansas ROW CROP VERIFICATION



2022 Arkansas Cotton Research Verification Program Weekly Update – July 15, 2022

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

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General Information

Another hot week with only spotty showers across part of the state with a chance of rain coming this weekend. Irrigated fields are still doing ok if they have been watered in a timely fashion, dryland fields are really taking a beating right now. Boll set and fill are a crucial time for the cotton plant and farmers have been keeping the water going to help this cotton out. Many farmers who have watered every other middle and have broadcasted fertilizer are looking at punching the dry middle to help that fertilizer become available to the plant. We don't need to plug the holes we have and move the water to the dry middle as that would require the plant to push a lot more energy into root production vs using it for boll production. As always it is important to keep up with insect scouting to prevent any added stress to the plant but also to make sure we are setting that fruit as best we can.

County	Field Name	Variety/ Planting date	Plants/A	DAP to First Flower/ NAWF @ FF	Fruiting nodes/ total retention%	Field Notes
Desha/Drew	Winchester	DP 2211 B3TXF 5-12	31,800	57/ 9	9.3/ 94.6%	Last field visit on 7-13. 14 node cotton, 28-30" tall. Field was watered on 7-11. No pests found while scouting. This field is looking very good. First flower was on 7-8, Current NAWF is 7.5. NAWF is right on track for where we want it and is tracking well with the target development curve.
Poinsett	Judd Hill (Crop Intensification)	DP 2038 B3XF 5-13	19,678	-/-	9.2/ 91.3%	Last field visit on 7-14. 15-16 node cotton, 26" tall. Field was fertilized on 7-11. It is going to need to be watered soon. This field has been irrigated on every other row so far however we are about to start on every middle to help get that fertilizer available to the plant. No pests found during insect scouting. This field has made a good come back since its herbicide burn and looks to be on target for nodes above the first white flower.
Poinsett	Judd Hill (Cover Crop)	DP 2038 B3XF 5-13	29,231	-/-	8.8/ 87.5%	Last field visit on 7-14. 15-16 node cotton, 26" tall. Field was fertilized on 7-11. It is going to need to be watered soon. This field has been irrigated on every other row so far

						however we are about to start on every middle to help get that fertilizer available to the plant. The sprayer pulled into the field while scouting and was spraying a TPB application. This field has made a good come back since its herbicide burn and looks to be on target for nodes above the first white flower.
Poinsett	Judd Hill (Conventional till, No cover)	DP 2038 B3XF 5-13	30,759	-/-	9.4/ 91.1%	Last field visit on 7-14. 15-16 node cotton, 28" tall. Field was fertilized on 7-11. It is going to need to be watered soon. This field has been irrigated on every other row so far however we are about to start on every middle to help get that fertilizer available to the plant. . The sprayer pulled into the field while scouting and was spraying a TPB application. This field has made a good come back since its herbicide burn and looks to be on target for nodes above the first white flower.
Poinsett	Lepanto	DP 2127 B3XF 5-12	30,950	-/-	8.6/ 94.2%	Last field visit on 7-14. 16 node cotton, 28" tall. Tarnished Plant Bugs were found in this field, the producer has decided to treat them and that will be done soon. Field was irrigated on 7-9, still holding good moisture. This field looks to be on target for flowering.
Lee	Lee (cover)	PHY 360 W3FE 5-4	24,072	58/ 10	10.5/ 96.4%	Last field visit on 7-13. 16 node cotton, 32-34" tall. A few Tarnished Plant Bugs were found while scouting but they were still not to threshold. A couple small pockets of spider mites were also found however not widespread through the field. This field was being irrigated during our visit. First flower was on 7-1 and this visit current NAWF is 6.2. This field looks good however its NAWF is coming down a slightly quicker than we would like.
Lee	Lee (no cover)	PHY 360 W3FE 5-4	24,263	58/ 10	10.8/ 97.8%	Last field visit on 7-13. 16 node cotton, 30" tall. A few Tarnished Plant Bugs were found while scouting but they were still not to threshold. A couple small pockets of spider mites were also found however not widespread through the field. Field was irrigated on 7-12. First flower was on 7-1 and this visit current NAWF is 7.2. This field looks to be on track to cutout in its correct window.
Demo	BCI/US Trust Protocol (cover)	DP 1646 B2XF 5-19	11,463	-/-	5.8/ 86.2%	Last field visit on 7-14. 11-12 node cotton, 14" tall. This dryland field is showing a lot of drought stress and is wilting in the heat of the day. A couple white flowers were seen walking this field, node production has slowed, if no rain is

						seen soon these plants will be cut out shortly after first flower.
Demo	BCI/US Trust Protocol (no cover)	DP 1646 B2XF 5-19	28,658	-/-	5.6/ 83.9%	Last field visit on 7-14. 11-12 node cotton, 14" tall. This dryland field is showing a lot of drought stress and is wilting in the heat of the day. More white flowers can be seen while walking this field compared to the cover side however flowering is not to 50% of plants yet. Node production has slowed, if no rain is seen soon these plants will be cut out shortly after first flower.
Demo	ASHA (cover)	PHY 411 W3FE 5-13	9,648	59/ 9	9.7/ 94.6%	Last field visit on 7-14. 14-15 node cotton, 28" tall. Few TPB found while scouting but not to threshold, also finding aphids in spots through field. This field was irrigated over the weekend. We have started NAWF in this field, first flower was on the 7-11. This field is looking to be on track for the time being.