

# Arkansas ROW CROP VERIFICATION



## 2022 Arkansas Cotton Research Verification Program Weekly Update – July 22, 2022

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

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### General Information

This week we received a much needed rain across the state but did not get any relief from these sweltering temperatures. This week with most of our fields flowering we were able to see some of the effects of these high temps on our flowers and on seed set. There are no practices that can help with this, all we can do is hope for cooler weather. Moving forward we need to make sure we're staying on time with our irrigations and insecticide applications to keep the plants from stressing any more than they already are.

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	-/-	10.2/ 88.5%	Last field visit on 7-21. 17-18 node cotton, 28" tall. Field received 1.51" of rain. A few tarnished plant bugs nymphs were found while scouting but not to threshold yet. This field is slow coming into flowering however all fields of the same variety that saw the same herbicide injury are all having the same reaction. This field is still at <50% flowering plants. This field is going to reach our target of 9-10 NAWF at first flower it is just going to be later than expected.
Poinsett	Judd Hill (Cover Crop)	DP 2038 B3XF 5-13	29,231	-/-	10.3/ 87.6%	Last field visit on 7-21. 17-18 node cotton, 28" tall. Field received 1.51" of rain. No pests found during scouting. This field is slow coming into flowering however all fields of the same variety that saw the same herbicide injury are all having the same reaction. This field is still at <50% flowering

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Poinsett	Judd Hill (Conventional till, No cover)	DP 2038 B3XF 5-13	30,759	-/-	10.1/ 86.6%	Last field visit on 7-21. 17-18 node cotton, 30" tall. Field received 1.51" of rain. No pests found during scouting. This field is slow coming into flowering however all fields of the same variety that saw the same herbicide injury are all having the same reaction. This field is still at <50% flowering plants. This field is going to reach our target of 9-10 NAWF at first flower it is just going to be later than expected.
Poinsett	Lepanto	DP 2127 B3XF 5-12	30,950	68/ 10	11.1/ 95.4%	Last field visit on 7-21. 17-18 node cotton, 36-38" tall. Field was sprayed for plant bugs on 7/15. No pests found during this week's scouting. Field received 1.4" of rain since the last visit, still holding good moisture. First flower was on 7-18, current NAWF is 9.4
Lee	Lee (cover)	PHY 360 W3FE 5-4	24,072	58/ 10	10.5/ 96.4%	Last field visit on 7-19. 16-17 node cotton, 36-38" tall. Field received 1.4" of rain since last visit. 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. First flower was on 7-1 and this visit current NAWF is 4.6. This field reached cut out on 7-18, 79 DAP.
Lee	Lee (no cover)	PHY 360 W3FE 5-4	24,263	58/ 10	10.8/ 97.8%	Last field visit on 7-19. 16-17 node cotton, 32-34" tall. Field received 1.4" of rain since last visit. 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. First flower was on 7-1 and this visit current NAWF is 5. This field reached cut out on the day of the field visit 7-19, 80 DAP.
Demo	BCI/US Trust Protocol (cover)	DP 1646 B2XF 5-19	11,463	-/-	5.8/ 86.2%	Last field visit on 7-21. 13-14 node cotton, 16-18" tall. Field received 1.5" of rain since the last visit and it shows. This has perked the cotton back up, making them look a lot less stressed. Some areas of the field that were more drought stressed have already flowered but most of the field has not. This field has begun to run more parallel with the target development curve after this rain. No pests found while scouting. This rain also helped ease soil compaction as well.

Demo	BCI/US Trust Protocol (no cover)	DP 1646 B2XF 5-19	28,658	-/-	5.6/ 83.9%	Last field visit on 7-21. 13-14 node cotton, 18" tall. Field received 1.5" of rain since the last visit and it shows. This has perked the cotton back up, making them look a lot less stressed. Some areas of the field that were more drought stressed have already flowered but most of the field has not. This field has begun to run more parallel with the target development curve after this rain. A few plant bugs were found while scouting but not to threshold yet. This rain also helped ease soil compaction as well.
Demo	ASHA (cover)	PHY 411 W3FE 5-13	9,648	59/ 9	9.7/ 94.6%	Last field visit on 7-21. 18 node cotton, 32" tall. Few TPB found while scouting but not to threshold, also finding aphids in spots through field. Field received 1.25" of rain. This field a lot of this cotton has fallen over from the wind from that storm. First flower was on 7-11. Current NAWF is 7.2. This field is looking to be on track for the time being.