

Corn and Grain Sorghum Weekly Update – July 26, 2019

2019 Update

Corn and Grain Sorghum Research Verification – Chuck Capps (Corn & GS Verification Coordinator)

Irrigation is back in full swing with the exception of the White County field that received 2.2 inches of rain. The irrigation started earlier this week at the Prairie County field may be the final irrigation with five more fields needing one possibly two more irrigations depending on rainfall. Dr. Jason Kelley, Extension Agronomist – Wheat and Feed Grains, wrote a newsletter that addresses irrigation termination for Arkansas Row Crops, which can be found at www.arkansascrops.com with direct link <http://www.arkansas-crops.com/2019/07/22/corn-irrigation-terminated/>. Dr. Chris Henry, University of Arkansas Irrigation Specialist, has put together a fact sheet to help predict final irrigation using soil moisture sensors, which can be found at <https://www.uaex.edu/environment-nature/water/Irrigation%20Termination%20Factsheet%20July%202018.pdf>.

We found two leaves on two plants with Southern rust in White County Verification Field just north of Griffithville. This field is at a stage where Southern rust could affect yield, but we are not applying a fungicide at this point because it is not very active in the field. I also found about a half dozen leaves in Desha County Verification Field at Pickens, but this field is less than two weeks from black layer.

Table 1.

County	Heat Units	Crop Stage	Crop Notes
Arkansas	2320	R5	This field is around 14 days to black layer, so only needs around 2.2" of water to finish out the year. Chicot, Clay, Desha, & Jefferson are all within two days on either side of maturity with Arkansas County field.
Chicot	2441	R5	See Arkansas County.
Clay	2404	R5	See Arkansas County.
Desha	2381	R5	Very small amount of Southern rust. See Arkansas County.
Jefferson	2345	R5	See Arkansas County.
Lawrence	2381	R5	This field is just a couple days behind the above five fields.
Mississippi	2127	R4	This field has kernels starting to dent on bottom half of ear.
Monroe	1833	R1/R2	This is the latest field maturity wise in the Corn & Grain Sorghum Verification program.
Prairie	2601	R5	We are around 60% starch, so this may be the final irrigation this week.
White	1815	R3	We had pollination issues on 5 - 10% of kernels. Looking back on weather data, we had 2 significant rainstorms and average high of 97 and low of 75 during the week around pollination.

			We looked at sensor data and irrigation scheduler data, and no irrigations were missed. Other fields within a mile or so and planted within a day or two of the Verification field have very similar pollination problems. Very small amount of Southern rust.
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