

## Corn and Grain Sorghum Weekly Update – July 18, 2025

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

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### General Information

As seen in Table 1 below, heat units, crop stage, and projected irrigation date along with a few notes about field activities are listed for each location. We utilize AgSense telemetry units with soil moisture sensors placed at 6, 12, 18, and 30 inches to collect soil moisture data. We input this data into the AR Soil Calc app to initiate irrigations by determining how much soil moisture is available to the crop. These tools also allow us to accurately terminate irrigation. With sufficient soil moisture to finish the crop, irrigation has been terminated in the Drew County field near Tillar. A few fields need less than 2-3 inches of soil water to be added through rainfall or irrigation to finish out the crop.

We will begin to take stalk nitrate samples in fields as they reach the R6 growth stage (black layer).

**Table 1.**

County	Heat Units	Crop Stage	Irrigation Date	Field Notes
Arkansas	2401	R5 25% starch	7/25	The field was irrigated for just the second time starting 7/13. The field is 212 acres and takes about 3 days to irrigate in 3 24-hour sets. The field only needs about 1.5-1.6" more water to finish the crop.
Cross	2252	R5 10% starch	7/23	The field has remained clean following the fungicide application. It will require 2 more irrigations if it does not receive any rainfall.
Drew	2711	R5 80% starch	terminated	We have terminated irrigation on this field. We will collect corn stalk nitrate samples once the field reaches black layer next week.
Jefferson	2310	R5 10% starch	7/25	The disease pressure of the Diplodia and Southern rust has been stopped with the fungicide application.
Lonoke	2111	R4	7/19	The Southern rust pressure picked up quite a bit the past week, but the plan not to treat was made with the field being close to R5.
Mississippi	2120	R4	7/20	The field has received significant rainfall and has only been irrigated once. Southern rust is present but light pressure.
Monroe	2241	R5	7/19	Southern rust did not spread significantly in the field last week, so the decision not to treat was correct and saved \$20-25 an acre.
Phillips	2289	R5	7/24	Southern rust did not spread significantly in the field last week, so the decision not to treat was correct and saved \$20-25 an acre.
Poinsett	2198	R5	7/24	Southern rust did not spread significantly in the field last week, so the decision not to treat was correct and saved \$20-25 an acre.
Woodruff	2545	R5 60% Starch	7/21	The field was about 60% starch line Tuesday and has 1" water available in the soil profile. With this information, we know that the field only needs 0.5" more of soil available water to finish the crop.