

Corn and Grain Sorghum Weekly Update – August 1, 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. Irrigation has been terminated for eight fields. The Mississippi and Lonoke County fields will require another irrigation.

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	2830	R5 90% starch		The field was irrigated for the last time on 7/24.
Cross	2687	R5 80% starch		The field has 1.28" of soil water available and needs 1" of soil water to finish the crop. Irrigation is terminated.
Drew	2832	R6		We took corn nitrate stalk samples on 7/23.
Jefferson	2737	R5 80% starch		The field has 1.91" of soil water available and needs 0.91" of soil water to finish the crop. Irrigation is terminated.
Lonoke	2544	R5 50% starch	7/31	The field has 0.23" of soil water available and needs 2.7" of water to finish the crop. The field will require at least one more irrigation.
Mississippi	2554	R5 30% starch	8/4	The field has 0.99" of soil water available and needs 2.2" of water to finish the crop. The field will require at least one more irrigation.
Monroe	2668	R5 75% starch		The field has 1.34" of soil water available and needs 0.97" of soil water to finish the crop. Irrigation is terminated.
Phillips	2712	R5 90% starch		The field has 1.56" of soil water available and needs 0.52" of soil water to finish the crop. Irrigation is terminated.
Poinsett	2629	R5 75% starch		The field has 1.59" of soil water available and needs 1.0" of soil water to finish the crop. Irrigation is terminated.
Woodruff	2844	R6		The field reached R6 (Black Layer) on 7/31.