

Corn and Grain Sorghum Weekly Update – June 13, 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, average soil moisture sensor reading, and projected irrigation date along with a few notes about field activities are listed for each location. Weather data is collected at a weather station located at each individual field. 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. Irrigation projections do not consider anticipated rainfall. With the telemetry units, we can see how the rainfall affects the soil moisture. Growers are informed of how much soil water the corn crop is using per day per growth stage at that time.

We have kept up with growth stages of the verification fields in timing our herbicide and fertilizer applications through weekly field scouting. Another useful tool for timing applications can be found by using the Corn DD50 program found here <https://corndd50.uada.edu/>

Table 1.

County	Heat Units	Crop Stage	Sensor avg	Irrigation Date	Field Notes
Arkansas	1369	V17	59	6/13	The field received 1.19" of rain last week. Projected to get enough rain to move the irrigation date 3-4 days.
Cross	1209	V14	35	6/16	The field received 2.21" of rain last week. Pre-tassel application of 100 lbs/acre of urea was applied on 6/11.
Drew	1687	R2	78	6/11	The second irrigation was made on 6/11. Being at the R2 growth stage, it was difficult to delay irrigation beyond 8 days based on 50% chance of rain.
Jefferson	1285	V16	24	6/16	The field received 1.05" of rain last week. Projected to get enough rain to move the irrigation date into late next week.
Lonoke	1076	V12	56	6/14	The field received 1.28" of rain last week. Windstorms caused a lot of damage to cause stalks to be bent significantly (20%) and some green snap.
Mississippi	1112	V12	49	6/14	The field received 1.03" of rain last week. Projected to get enough rain to move the irrigation date 3-4 days.
Monroe	1221	V15	54	6/14	The field received 1.71" of rain last week. Projected to get enough rain to move the irrigation date 3-4 days.
Phillips	1287	V16	28	6/16	The field received 1.21" of rain last week. Pre-tassel application of 100 lbs/acre urea was applied on 6/5.
Poinsett	1175	V13	44	6/15	The field received 1.52" of rain last week. Pre-tassel application of 100 lbs/acre of urea is planned for 6/12.
Woodruff	1545	R1	60	6/13	The field received 2.27" of rain last week. Rainfall came over a very short amount of time resulting in a lot of run-off, so soil moisture sensors were not zeroed out or lowered as expected.