

Corn and Grain Sorghum Weekly Update – June 14, 2024

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

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General Information

As seen in Table 1 below, average moisture sensor readings averaged across all 4 depth sensors (measured in centibars), next projected irrigation dates, heat units, crop stage along with a few notes about field activities are listed for each location. Weather data is collected at the weather station placed at each individual field. We are utilizing AgSense telemetry units with soil moisture sensors placed at 6, 12, 18, and 30 inch to collect soil moisture data. We input this data to the AR Soil Calc app to initiate irrigations.

Rainfall has dried up this week, and all fields will be irrigated by the weekend. All fields except Lonoke County will be at reproductive stage by the weekend. 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	Avg. moisture Sensor reading (in cb)	Heat Units	Crop Stage	Field Notes
Arkansas	9.7	1512	VT	First irrigation began 6/11. 0.18" rainfall last week.
Clark		1425	V17	Field has been too wet to plant so far this year.
Clay	8.2	1424	V17	Pre-tassel nitrogen application made on 6-8. 1.55" rainfall last week.
Drew	80	1637	R1	Still waiting for the electric company to run new line for new electric well. Grower is using old well this week for first irrigation. 0.05" rainfall last week.
Jefferson	25.5	1519	VT	Pre-tassel application was made on 6-6 and first irrigation started 6-10. 0.04" rainfall last week.
Lonoke	23.8	1171	V14	Pre-tassel nitrogen application planned for 6/14 followed by irrigation. 0.76" rainfall last week.
Mississippi	11.3	1440	V17	Pre-tassel nitrogen application made on 6-5. First irrigation initiated 6-11. 1.32" rainfall last week.
Phillips	81	1684	R1	First pivot irrigation hopefully to begin soon and delayed a few days with pivot issues. 0.49" rainfall last week.
White	28	1377	V16	Pre-tassel nitrogen application made on 6-9. 0.19" rainfall last week.