

## Corn and Grain Sorghum Weekly Update – July 19, 2024

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

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### General Information

As seen in Table 1 below, the next irrigation date, 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. With sufficient soil moisture and crop stage, irrigation has been terminated in Phillips, Clay, White (most likely), Drew, Jefferson, and Arkansas County fields.

Southern rust has been found in the Drew, Phillips, Mississippi, White, and Clay County fields. All fields have reached R5 growth stage or beyond. More information on corn diseases and treatment recommendations can be found here <https://www.uaex.uada.edu/farm-ranch/pest-management/plant-disease/corn.aspx>.

**Table 1.**

| County      | Next irrigation date | Heat Units | Crop Stage    | Field Notes   |
|-------------|----------------------|------------|---------------|---|
| Arkansas    | Terminated           | 2506       | R5 60% starch | Common rust, NCLB, Curvularia leaf spot. Soil moisture is good, and irrigation has been terminated.   |
| Clark       |                      |            |               |   |
| Clay        | Terminated           | 2369       | R5 40% starch | Southern rust, common rust, NCLB, Curvularia leaf spot. With the field being 40% starch on Monday (over 50% by 7/19) and adequate soil moisture to finish the crop, irrigation has been terminated. |
| Drew        | Terminated           | 2644       | R5 75% starch | Southern rust, common rust, NCLB, Curvularia leaf spot. The field received final irrigation on 7/11 to finish out the crop.   |
| Jefferson   | Terminated           | 2518       | R5 50% starch | Common rust, NCLB, Curvularia leaf spot, gray leaf spot. The field received final irrigation on 7/13 to finish the crop.  |
| Lonoke      | 7/23                 | 2174       | R4            | Common rust, gray leaf spot, Curvularia leaf spot. Corn needs approx. 7.5 inches of water to finish the crop.   |
| Mississippi | 7/24                 | 2420       | R5 30% starch | Southern rust, common rust, NCLB, gray leaf spot. Crop needs about 2.2" of water to finish the crop. 0.7" of rain or a quick 1" irrigation would finish water needs of the crop.                    |
| Phillips    | Terminated           | 2669       | R5 60% starch | Southern rust, common rust, NCLB, Curvularia leaf spot. The field is center pivot irrigated & with pivot irrigation Tuesday (7/16), irrigation will be terminated.                                  |
| White       | Terminated           | 2363       | R5 40% starch | Southern rust, common rust, NCLB. With irrigation on 7/16, irrigation is most likely terminated.  |