

## Corn and Grain Sorghum Weekly Update – June 23, 2023

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

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### General Information

As seen in Table 1 below, heat units and 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.

All fields received rainfall this past week along with some receiving hail damage late last week after I made field visits. Mississippi County, White County, and Jefferson County fields received enough damage from hail defoliation and/or lodging from wind to effect yield. I have kept the following information in again for this week in case some are waiting on reports from crop insurance. Dr. Jason Kelley, Professor Wheat and Feed Grains Extension Agronomist, provided some valuable information about estimating yield loss due to hail damage, and I have attached the link below. The link below has some information about hail damage on corn, and specifically Table 3 provides an estimated yield loss by corn growth stage X leaf area lost. The most detrimental time for hail is at tassel/silking.

<https://www.extension.purdue.edu/extmedia/nch/nch-1.html>

Tattered or split leaves will look rough but will still function if they are green a couple days after the hail event. Waiting 3 days after the hail event to access damage may give you a better indication of how much damage there really is.

**Table 1.**

County	Heat Units	Crop Stage	Field Notes
Clark	1287	V14	The field suffered lodging this past week from severe thunderstorm.
Clay	1501	V17	The field was very close to tassel Monday (6/19).
Drew	1753	R2	The field has reached blister (R2) this week, and it is scheduled to be irrigated 6/22 or 23.
Faulkner	1431	V17	The field was very close to tassel on 6/20.
Independence	1401	V16	Pre-tassel nitrogen fertilizer was applied last week.
Jefferson	1552	R1	The field had some lodging and some defoliation from hail.
Lonoke	1389	V16	Pre-tassel nitrogen fertilizer was applied last week.
Mississippi	1582	R1	Defoliation will be greater than 10% but will not know for sure for another few days of final number.
White	1384	V16	6000 plants per acre suffered lodging or the top of plants being broken off this past week from severe thunderstorm.