

Corn and Grain Sorghum Weekly Update – July 23, 2021

2021 Update

Corn and Grain Sorghum Research Verification – Chuck Capps (Corn & GS Verification Coordinator)

As seen in Table 1 below, projected days to next irrigation (according to Soil Moisture Calc app), heat units, and crop stage along with a few notes about field activities are listed for each location. Irrigation has been terminated for two fields using the AR Soil Calc app. We have been using this tool to input soil moisture sensor data to decide when to irrigate. This app also predicts the amount of water needed to finish the crop by using current soil moisture and crop stage.

Southern rust has been found now in all our Corn Verification fields. The fields that were treated were treated at R2 or R3 growth stages. Two fields were not treated due to later crop stage (R5). Dr Travis Faske, Extension Plant Pathologist, has put together a publication to consult regarding Southern Rust on our website under corn disease management - <https://www.uaex.edu/farm-ranch/pest-management/plant-disease/field-crop-diseases/corn/diseases.aspx>

Table 1.

County	Days to Irrigation	Heat Units	Crop Stage	Field Notes
Ashley		2725	R5/85-95% starch	Irrigation was terminated last week for this field using the AR Soil Calc app. The field received an additional 2.92" of rain this past week.
Desha	8	2421	R5	2.2 of rainfall or 3.1 inches of irrigation needed assuming 70% efficiency is needed finish the crop.
Desha		2850	R6	Irrigation has been terminated for this field. The field received 6.41" of rain fall this past week.
Drew	6	2179	R5	The field was treated with Quilt XL at 14 oz/acre on 7/9 for Southern rust. 3.0 of rainfall or 4.2 inches of irrigation needed assuming 70% efficiency is needed finish the crop.
Lonoke	5	2288	R5	Southern Rust was found and treated 7/7 with Quilt XL at 14 oz/acre. 3.0 of rainfall or 4.2 inches of irrigation needed assuming 70% efficiency is needed finish the crop.
Mississippi	7	2204	R4	Southern rust was found in the field but only on one leaf. We will continue to watch the field closely at this late stage of growth.
Monroe	3	2238	R5	Field was treated 7/7 with Trivapro at 13.7 oz/acre for Southern rust. 3.7 of rain fall or 5.3 inches of irrigation needed assuming 70% efficiency is needed finish the crop.

Poinsett	1	2039	R4	Field was treated 7/15 with Trivapro at 13.7 oz/acre for Southern rust.
Prairie	6	2257	R5	Field was treated 7/9 with Quilt XL at 13.7 oz/acre for Southern rust. 3.0 of rain fall or 4.3 inches of irrigation needed assuming 70% efficiency is needed finish the crop.