

Corn and Grain Sorghum Weekly Update – July, 2 2021

2021 Update

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

As seen in Table 1 below, available moisture in soil profile in inches (according to Soil Moisture Calc app), 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. We are using 6, 12, 18, and 30 inch soil moisture sensors connected to an AgSense telemetry unit to allow us a real time look at what soil moisture content is in the fields. The soil moisture and irrigation date data in Table 1 are from Thursday 7/1/21.

A small amount of common rust, Northern corn leaf blight (NCLB), and Curvularia leaf spot have been found in a couple of the older fields but very light occurrence for all diseases.

Table 1.

County	Soil Moisture	Days to Irrigation	Heat Units	Crop Stage	Field Notes
Ashley	0.26	0.2	2099	R4	Irrigated 6/30. We cannot make soil moisture sensors move much with irrigations. Irrigation studies on this farm have shown the same results last few years. Very shallow and compact soil. Very light common rust, NCLB, and Curvularia leaf spot.
Desha	1.40	4.4	1826	R2	Irrigated 6/28. Very light common rust and Curvularia leaf spot.
Desha	2.56	10	2148	R4	Was irrigated 6/26 for only the second time to make it to dough stage. Very light common rust, NCLB, and Curvularia leaf spot.
Drew	0.26	0.2	1578	R1	Irrigation planned to start on 7/1. Very light common rust and Curvularia leaf spot.
Lonoke	0.96	2.7	1701	R3	Very light common rust, NCLB, and Curvularia leaf spot.
Mississippi	3.06	9.2	1621	R1	Irrigated 6/30. Deep clay soil works well with irrigation allowing us to zero out all the soil moisture sensors. Very light common rust, NCLB, and Curvularia leaf spot.
Monroe	0.83	2.2	1652	R2	Irrigated 6/29. We are using a surge valve but still having difficulty with water infiltration similar to Ashley County. First year with this field, so we may look at tillage options this

					fall to help with water infiltration. Very light common rust and Curvularia leaf spot.
Poinsett	0.58	0.9	1464	VT	Irrigated 6/25. Very light common rust and Curvularia leaf spot.
Prairie	0.95	2.2	1677	R1	Irrigated 6-25. Very light common rust, and Curvularia leaf spot.