BUCKEYE COTTON DEVELOPMENT ADVISORY  
JUL 28, 2019

HEAT UNITS

Heat Unit (HU) accumulation since Jan 1 = 2897; Last year = 3263
HUs since Jan 1 are running about 6 days behind normal. HU last week = 207

HISTORICAL STATISTICS

Last Week : JUL 21 - JUL 27
High Low Dewpt HUs Rain
Normal 104  79  62  204    ----
Recorded 106  80  67  207  0.30

This Week : JUL 28 - AUG 3
High Low Dewpt HUs
Normal 104  77  60  200
2018  108  82  61  213

ESTIMATED WATER USE

Planting date :  3/15  4/1  4/15  5/1  5/15
Water Use (last week):  2.33"  2.33"  2.33"  2.22"  1.86"

HEAT STRESS LEVELS

Date  7/21  7/22  7/23  7/24  7/25  7/26  7/27
Stress L2  L2  L1  L1  L2  L2  L2
Key : ns = no stress;  L1 = Level 1 Stress;  L2 = Level 2 Stress

WEATHER UPDATE

--The high pressure system that regulates monsoon activity is forecast to move to the
Four Corners Monday, resulting in increased moisture & a flow regime more supportive
of precipitation. Expect increased humidity levels, cooler temperatures & increased
chances for afternoon/evening showers & thunderstorms through mid-week.
Monsoon activity will lessen late this week as the flow regime becomes less optimal.
--Heat stress develops when high temperatures combine with elevated humidity levels
to increase crop temperatures above optimal levels for reproductive development.

Growers can obtain daily updates on heat stress at:
https://www.ag.arizona.edu/azmet/cot-HSrpt.htm.