AGUILA COTTON DEVELOPMENT ADVISORY
JUL 21, 2019

PLANTING

+/- normal

DATE

3/15 2027 -3 days
4/1 1894 -3 days
4/15 1757 -4 days
5/1 1532 -5 days
5/15 1327 -5 days

Pin Sus 1st head Squ. Flowr 1" Pk. Bloom Cut-Out Terminate

Heat Units Accumulated from Planting to JUL 20

|= Heat Units on JUL 13;  S,M,F = Short, Medium, and Full Season Varieties

HEAT UNITS

Heat Unit (HU) accumulation since Jan 1 = 2193;  Last year = 2698;  Normal = 2364
HUs since Jan 1 are running about 6 days behind normal.  HU last week = 184

HISTORICAL STATISTICS

Last Week : JUL 14 - JUL 20

<table>
<thead>
<tr>
<th>HIGH</th>
<th>LOW</th>
<th>DEWPT</th>
<th>HUs</th>
<th>RAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>102</td>
<td>72</td>
<td>49</td>
<td>185</td>
</tr>
<tr>
<td>Recorded</td>
<td>105</td>
<td>70</td>
<td>44</td>
<td>184</td>
</tr>
</tbody>
</table>

This Week : JUL 21 - JUL 27

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<td>Normal</td>
<td>101</td>
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<td>Recorded</td>
<td>2018</td>
<td>108</td>
<td>75</td>
</tr>
</tbody>
</table>

ESTIMATED WATER USE

Planting date : 3/15 4/1 4/15 5/1 5/15
Water Use (last week): 2.63" 2.41" 2.18" 1.81" 1.47"

HEAT STRESS LEVELS

Date 7/14 7/15 7/16 7/17 7/18 7/19 7/20
Stress ns L1 ns ns ns ns ns
Key : ns = no stress;  L1 = Level 1 Stress;  L2 = Level 2 Stress

WEATHER UPDATE

A good monsoon flow regime Monday & Tuesday will produce afternoon showers & thunderstorms in the mountains of east AZ that should drift westerward into the low desert.  This flow regime weakens mid-week as high pressure redevelops over AZ, lowering the chances for precipitation & producing very warm temperatures.  Another uptick in monsoon activity is expected for the coming weekend.

Heat stress develops when high temperatures combine with elevated humidity levels to increase crop temperatures above optimal levels for reproductive development, resulting in fruit shed.  A summary of last week's heat stress conditions is provided above.  Growers can obtain daily updates on heat stress at:

https://www.ag.arizona.edu/azmet/cot-HSrpt.htm.