

Heat Units After Planting							
Planted:	15-Feb	1-Mar	15-Mar	1-Apr	15-Apr	1-May	
2021:	3082	2982	2886	2714	2482	2254	
Normal:	3000	2910	2758	2585	2412	2170	
+/-Norm:	3	3	4	5	2	3	Days
2020:	2939	2825	2698	2572	2419	2139	
Water Use:	2.18	2.21	2.21	2.21	2.21	2.21	"/wk

Temperature & Heat Units								
Last Week					This Week			
	Max	Min	HUs	Rain		Max	Min	HUs
Actual	108	79	205	0.00	2020	111	74	195
Normal	106	76	201		Normal	107	75	198

Cotton Heat Stress						
Date						
7/26	7/27	7/28	7/29	7/30	7/31	8/1
L1	L1	L2	L2	L1	L1	L2

NS: No Stress; L1: Level 1; L2: Level 2

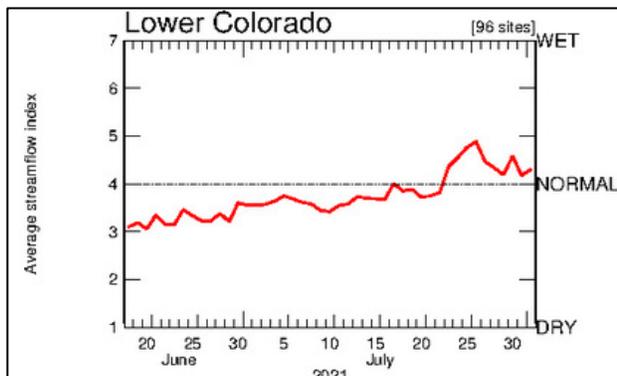
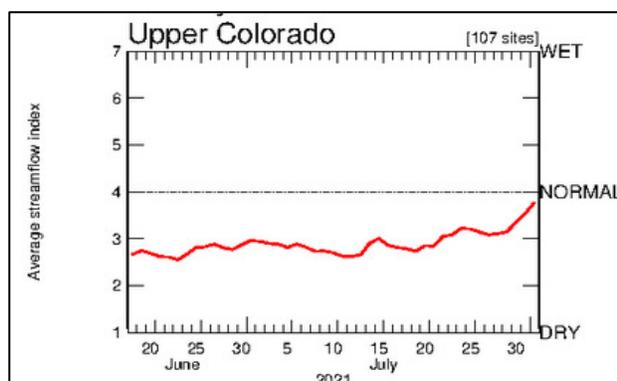
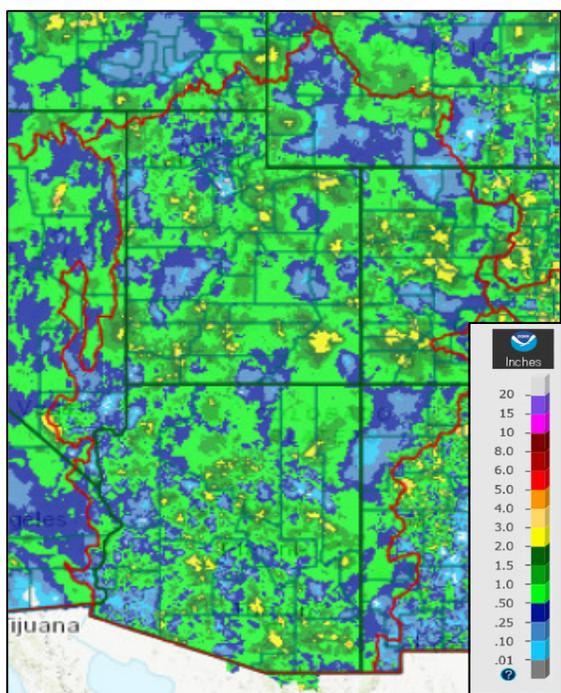
#### Weather Forecast

Monsoon activity is expected to greatly diminish this week as high pressure develops over NV & western AZ. Expect rising temperatures & lower humidity levels, particularly across western AZ where daytime temperatures are expected to approach 115F. Precipitation will be limited & confined to the higher elevation areas of eastern AZ. The location of the high pressure system will adjust to more favorable position for monsoon activity late in the week, resulting in slightly cooler temperatures, increased moisture & improved chances for precipitation by the weekend.

### Agronomy Update

We are experiencing a significant monsoon season & most AZ production areas are experiencing increased humidity, heat, & some rains. Like everything, the monsoon season comes as a "package deal" & it is important to watch out for several key aspects in the field. Monsoon conditions are commonly quite conducive to weed growth & the development of some plant diseases & insect populations (both harmful & beneficial). Excessive vegetative growth and/or a possible drop in fruit retention can be experienced. Rains can generate questions on irrigation management & it is good to check soil moisture directly in the field. Cotton plants will begin to experience water stress at ~ 55-60% plant-available water (PAW) in the soil, which is when most soil textures feel almost (but not quite) dry to the touch. Fields should be irrigated so that depletion does not exceed 55-60% PAW. Rains can also push salts that have accumulated on the soil surface into the root zone & create an apparent "water-stress" effect on the plants. In that case, additional irrigation water can further leach the salts from the root zone.

### Water Supply Update



Last week's active monsoon pattern generated significant levels of precipitation across much of the Colorado Basin (left). Streamflow in the Upper Basin (upper right) increased but remains slightly below normal. Streamflow in the Lower Basin (lower right) continues to run slightly above normal. Sources: NOAA/NWS Advanced Hydrological Prediction Service and USGS Water Watch.