

SAN JOAQUIN VALLEY - HANFORD, CA

REPORT FOR:

MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

MONTH: **AUGUST** YEAR: **2019**

TO: Hydrometeorological Information Center, W/OH12x1
National Weather Service/Office of Hydrology
1325 East-West Highway #7116
Silver Spring, MD 20910

SIGNATURE:

Kevin Durfee
(In Charge of Hydrologic Service Area)

DATE: September 3, 2019

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).

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| **X** | An **X** inside this box indicates that no flooding occurred for the month
+---+ within this hydrologic service area.

August, 2019 was typically dry. A brief influx of mid-level moisture associated with the remnants of tropical cyclone Ivo produced isolated afternoon and early evening thunderstorms near the Sierra crest on the 26th and 27th. Local rain amounts of up to a quarter of an inch fell from these thunderstorms over the highest elevations of Madera County and Fresno County. The remaining 29 days of the month were arid and dusty as a strong upper level ridge of high pressure dominated the pattern. August precipitation was rather sparse over much of the Golden State as well. Nonetheless, much of California was still carrying a surplus of precipitation for the water year which began October 1st, 2018. Graphical images of statewide departures and percentages of normal precipitation are included below this summary.

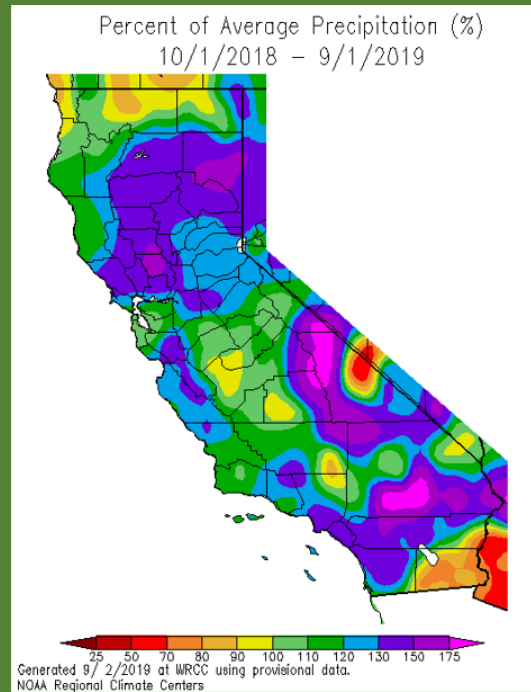
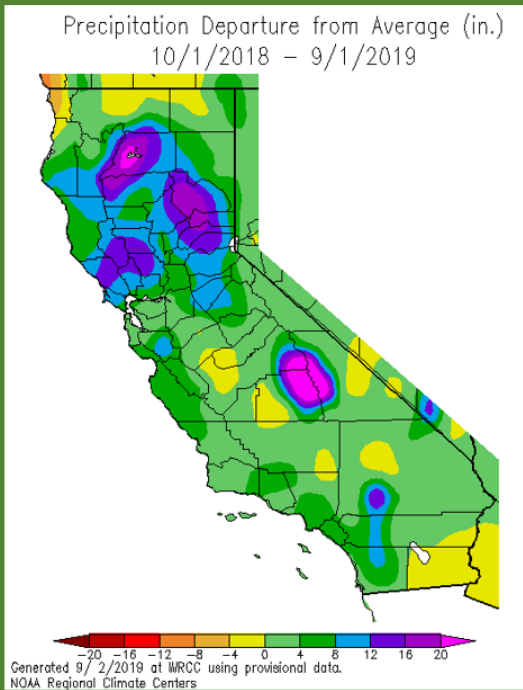
The high pressure ridge that dominated the weather pattern spent much of the month parked over the Four Corners region. At times, this ridge would retrograde into California and bring widespread triple digit heat into the San Joaquin Valley, lower foothills and the Kern County desert. Bakersfield recorded fifteen days at or above 100 degrees during the month. Fresno and Hanford each had 18 days of triple digit heat. There were three notable stretches of triple digit heat; August 3rd through the 7th, August 13th through the 17th and again between the 23rd and 29th. So it's no wonder that August, 2019 ended up as the third warmest August on record in Fresno. Bakersfield tied other years as the ninth warmest August on record.

These miniature heat waves were separated by invasions of relatively cool air into the HSA and were carried inland by moderately strong onshore winds. Marine intrusions into the San Joaquin Valley kept high temperatures in the upper 80s to mid 90s from the 8th through the 12th and again from the 18th until the 22nd. During these periods, the Four Corners ridge was temporarily kicked into the Plains states by eastward moving upper level troughs through the Pacific Northwest.

Rivers throughout the HSA continued to recede during the month as water releases from the reservoirs dwindled. Water levels lowered in the reservoirs as well. By the start of September, the percentage of water capacity in the reservoirs averaged about 53 percent of normal. Friant Dam and Exchequer Dam had the highest percentage of normal water capacity at 78 percent and 85 percent, respectively.

NO HYDROLOGIC PRODUCTS WERE ISSUED THIS MONTH.

Water Year Precipitation in California through August , 2019



CC:

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