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NWS FORM E-5 U.S. DEPARTMENT OF COMMERCE HYDROLOGIC SERVICE AREA:
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE **SAN JOAQUIN VALLEY - HANFORD , CA**

REPORT FOR:

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

MONTH: **SEPTEMBER** YEAR: **2010**

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: October 12, 2010

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.

The month of September was slightly warmer than normal, despite a couple of cold frontal passages, and it was rather uneventful from a hydrologic perspective. Unlike most Septembers, there were no deep influxes of monsoonal moisture into the central California interior, even though a humid and unseasonably warm airmass settled into the HSA by the end of the month. As one might hypothesize, the weather pattern was dominated by a ridge of high pressure aloft . There were only two occasions when the ridge was pushed out by deep upper level troughs venturing in from the Pacific. The first upper level trough moved across the state on the 7th and 8th accompanied by only a few light showers in the Sierra Nevada and adjacent foothills. Prior to its arrival, temperatures averaged well above normal during the first 6 days of the month with triple digit heat common to the San Joaquin Valley. In its wake, afternoon temperatures in the San Joaquin Valley were no higher than the 70s on the 7th and 8th. The second upper level trough moved through the HSA on the 22nd with a similarly cool airmass behind it. A day to day warming trend began on the 23rd and continued through the 27th, by which time maximum temperatures again peaked around the century mark in the San Joaquin Valley with triple digit heat finishing out the remaining days of the month. The higher than normal humidity at month's end fueled the development of isolated thunderstorms in the Kern County mountains. A southeasterly flow aloft brought a couple of these thunderstorms into the south end of the San Joaquin Valley during the afternoon of the 30th with brief, locally heavy rain and small hail.

NO HYDROLOGIC PRODUCTS ISSUED THIS MONTH

cc:

W/OH12x1
W/WR2
CNRFC
WFO HNX
WFO STO