

REPORT FOR:
**MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS**

MONTH: **AUGUST** YEAR: **2010**

TO: Hydrometeorological Information Center, W/OH12x1 **SIGNATURE:**
National Weather Service/Office of Hydrology
1325 East-West Highway #7116 Kevin Durfee
Silver Spring, MD 20910 (In Charge of Hydrologic Service Area)

DATE: September 3, 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).

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

August was characteristically dry with temperatures averaging close to normal. A southwesterly flow aloft prevailed over the HSA during most of the month as the central California interior remained situated between an upper level trough over the eastern Pacific and a ridge of high pressure anchored over Arizona and New Mexico. On a few occasions, the high pressure ridge built westward into California and brought brief spells of triple digit heat into the San Joaquin Valley, lower foothills and the Kern County desert. The most intense day of heat occurred on the 25th when afternoon temperatures peaked around 110 degrees in the San Joaquin Valley and the Kern County desert. However, for a majority of the month, the upper level trough off the California coast dominated the pattern and produced an onshore flow with shallow intrusions of marine air frequenting the San Joaquin Valley and lower foothills. During the last weekend of the month, upper level disturbances trekking southeastward from the Gulf of Alaska deepened this trough and brought an unseasonably cool airmass into the central California interior. Afternoon temperatures on the 29th stayed primarily in the 70s in the San Joaquin Valley and were no higher than the 40s at the 9000 foot elevation. Additionally, this trough produced a wintery mix of precipitation over the highest elevations of the Sierra in Yosemite National Park during the early morning hours of the 30th.

Although monsoonal moisture remained well to the south and east of the HSA for most of the month, it did make a brief appearance on the 25th and 26th. Its presence fueled the development of isolated afternoon and evening thunderstorms in the Kern County mountains and desert during the period and prompted issuances of Flash Flood Warnings by the NWS. Fortunately, there were no reports of flash flooding even though thunderstorms produced locally heavy rain.

HYDROLOGIC PRODUCTS ISSUED THIS MONTH

Flash Flood Warning for the Kern County mountains	0019Z	26-AUG
Flash Flood Warning for the Kern County mountains	2029Z	26-AUG
Flash Flood Warning for the Kern County desert	2221Z	26-AUG

cc:
W/OH12x1
W/WR2
CNRFC
WFO HNX

WFO STO