Water-Data Report 2013

11193031 Kern River at Rio Bravo Powerplant, near Bakersfield, CA

Buena Vista Lake Basin

LOCATION.--Lat 35°25′49″, long 118°49′18″ referenced to North American Datum of 1927, in NE ¼ SW ¼ SW ¼ sec.1, T.29 S., R.29 E., Kern County, CA, Hydrologic Unit 18030012, on left bank, at diversion to Rio Bravo Powerplant, and 15.5 mi northeast of Bakersfield.

DRAINAGE AREA.--Not determined.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1989 to current year.

GAGE.--Water-stage recorder and broad-crested weir; water-stage recorder, Parshall flume and drain gate. Elevation of gage is 678.17 ft above NGVD of 1929.

COOPERATION.--Records, including diversion through Rio Bravo Powerplant (station 11193010), provided by Rio Bravo Hydro Project, under the general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 4129.

REMARKS.--Records for Water Year 2013 have not been furnished for review. Flow regulated by Isabella Lake, capacity, 570,000 acre-ft. Flow at this station has three components which are combined for publication: flow over a broad-crested weir (station 11193020), flow through a Parshall flume (station 11193030) and bypass flow through a sand ejector and drain gate in dam (station 11193032). Water is diverted upstream from weir through a channel to Rio Bravo Powerplant, returning to Kern River about 1.5 mi downstream. See schematic diagram of Kern River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (combined), 5,160 ft^3/s, Feb. 23, 1998; minimum daily, 46 ft^3/s, Feb. 22, 1996.