16248950 Kahawai Stream at Waimanalo, Oahu, HI

LOCATION.--Lat 21°20'51.3", long 157°43'24.2" referenced to North American Datum of 1983, Honolulu County, HI, Hydrologic Unit 20060000, (Koko Head quadrangle, 1983, 1:24000), located 150 ft. upstream from Kalanianaole Highway bridge, 1.9 mi Northwest of Waimanalo Post Office, and 0.75 mi Southwest of Bellows Air Force Station Radio Towers.

DRAINAGE AREA.--1.13 mi^2, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated September 2006 and Watershed Boundary Dataset dated May 2008, using UTM Zone 4 projection, NAD 83 horizontal datum.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--1998 to current year.

REVISED RECORDS.--WDR HI-12-1: Drainage Area.

GAGE.--Crest-stage gage. Altitude of gage is 19 feet above mean sea level, from topographic map.

REMARKS.--As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low- or flood-flow analyses, depending on the type of data collected.

Prior to 1973, crest-stage partial-record station records for the State of Hawaii were published in an annual progress report entitled An Investigation of Floods in Hawaii. The following table contains the annual maximum discharge for this station. A crest-stage station is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for the current year is given. Information on some lower floods may have been obtained but is not published here. The years given in the period of record represent water years for which the annual maximum has been obtained.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, unknown, March 31, 2006, gage height 12.34 ft. Maximum known discharge, 400 ft^3/s, December 11, 2008, gage-height 10.33 ft.

MAXIMUM PEAK DISCHARGE
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

Date	Discharge, in ft^3/s	Gage height, in ft
Mar 6, 2012	320	10.18

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 16248950, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/16248950.2012.pdf