



Water-Data Report 2010

16607000 Iao Stream at Wailuku, Maui, HI

LOCATION.--Lat 20°53'25.8", long 156°30'17.7" referenced to North American Datum of 1983, Maui County, HI, Hydrologic Unit 20020000, (Wailuku quadrangle, 1983, 1:24,000) on right bank 520 feet upstream from Kahekili Highway 33 (Market Street bridge) and 0.3 miles northwest of Wailuku Post Office.

DRAINAGE AREA.--8.11 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Operated as a continuous surface water gage in 1951 and a crest-stage gage from 1952 to current year.

REVISED RECORDS.--WDR HI-10-1: Drainage Area.

GAGE.--Crest-stage gage. Altitude of gage is 250 ft. (from topographic map).

REMARKS.--As the number of streams on which stream flow information is likely to be desired far exceeds the number of stream-gagging stations feasible to operate at one time, the U.S. Geological Survey collects limited stream flow data at sites other than stream-gagging 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 and gage height, 7,540 ft³/s, 6.21 ft., December 3, 1950.

REVISIONS.--Drainage Area was revised based on USGS 10-meter Digital Elevation Model (DEM).

MAXIMUM PEAK DISCHARGE WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010

Date	Discharge, in ft ³ /s	Discharge qualification code	Gage height, in ft
Dec 4, 2009	656	2	6.98

Discharge qualification code:

2 - Discharge is an estimate