

HAWAII, ISLAND OF MAUI

1

16587000 HONOPOU STREAM NEAR HUELO

LOCATION.--Lat 20°53'20", long 156°15'20", Old Hawaiian Datum, Hydrologic Unit 20020000, on left bank 75 ft upstream from Wailoa Ditch intake, 2.2 mi southwest of Huelo, and 2.5 mi west of Kailua.

DRAINAGE AREA.--0.64 mi².

PERIOD OF RECORD.--December 1910 to current year. Monthly discharge only for some periods, published in WSP 1319.

REVISED RECORDS.--WSP 1219: 1914(M), 1916-50(M). WSP 1249: 1948-50(P). WSP 1569: Drainage area.

GAGE.--Water-stage recorders and steel weir plate. Datum of gage is 1,208 ft above mean sea level (by vertical angles). Prior to June 19, 1914, nonrecording gage at same site and datum.

REMARKS.--Records computed by Phillip Teeters. Records fair. No diversion upstream of station.

AVERAGE DISCHARGE.--94 years (water years 1912-2005), 4.78 ft³/s (3,460 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,710 ft³/s, November 18, 1930, gage height, 7.28 ft from rating curve extended above 110 ft³/s by test of physical model of station site; minimum, 0.02 ft³/s, several days in 1933, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Nov 14	2130	381	3.27		Sep 15	0020	*1,000	*4.00
	Mar 10	0735	471	3.40					

Minimum discharge, 0.29 ft³/s, Oct. 16-18, 28, 29, Nov. 2-5, 12-14, gage height, 0.43 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	0.40	5.6	1.4	1.1	1.2	21	2.2	0.74	1.6	2.7	4.6
2	3.2	0.31	2.6	2.5	3.5	1.1	19	2.0	0.66	1.6	2.6	1.9
3	0.69	0.29	2.2	1.4	2.6	1.1	23	1.9	0.66	1.5	2.4	1.8
4	0.51	0.29	2.8	1.0	1.7	1.0	14	1.8	0.62	1.4	2.8	1.8
5	0.50	0.29	2.2	0.97	1.2	1.0	12	1.7	1.1	1.5	2.2	1.9
6	0.47	2.2	4.6	0.90	1.1	1.0	11	1.6	0.94	1.3	2.4	2.0
7	0.43	0.58	9.2	0.90	1.0	0.98	15	1.5	2.1	1.2	2.2	3.3
8	0.43	0.43	4.3	0.83	1.0	0.90	13	1.4	0.90	7.3	13	2.4
9	0.38	0.37	5.9	2.3	1.0	27	30	1.6	0.84	7.4	4.3	2.1
10	0.39	0.35	4.6	1.9	0.96	110	15	1.2	2.7	5.1	3.2	2.6
11	0.43	0.35	3.4	0.98	1.4	18	15	1.1	2.7	3.9	3.1	1.6
12	0.36	0.31	3.2	0.87	6.8	10	13	1.1	9.0	14	2.8	1.7
13	0.69	0.29	3.0	0.77	4.1	7.3	17	1.3	1.7	6.7	2.6	13
14	0.54	78	2.8	0.73	1.8	5.9	12	1.3	1.3	5.1	2.5	57
15	0.37	29	2.6	0.70	1.6	5.2	12	0.99	1.2	13	2.4	125
16	0.32	37	2.5	0.70	1.5	4.4	9.6	0.91	1.1	7.3	2.5	19
17	0.29	7.8	2.3	0.63	1.5	3.9	8.2	0.90	1.3	6.4	2.1	13
18	0.40	8.6	2.2	0.60	1.3	3.5	7.2	0.90	1.0	7.5	2.1	11
19	1.0	5.2	2.0	0.60	1.3	3.2	6.3	2.0	1.1	5.5	16	8.4
20	1.3	4.4	1.9	0.60	1.3	3.1	5.6	2.4	3.5	5.1	4.6	7.1
21	0.45	3.9	1.8	0.82	1.2	2.9	5.0	3.5	4.9	5.6	3.0	6.2
22	0.39	3.4	1.7	0.75	1.1	2.8	4.5	1.2	2.3	4.8	2.7	5.9
23	0.38	3.1	1.6	0.56	1.2	2.5	4.1	0.98	2.0	4.1	2.6	5.5
24	0.39	2.8	1.5	0.51	1.1	2.2	3.8	0.92	1.8	3.7	2.5	4.5
25	0.36	2.6	1.4	0.51	1.5	3.0	3.3	0.87	1.6	3.4	3.1	4.0
26	0.40	2.4	1.3	0.51	2.0	51	3.1	0.80	2.2	3.2	2.3	3.9
27	0.35	2.3	1.3	18	3.3	32	2.9	0.89	3.0	3.1	2.2	3.4
28	0.32	2.3	1.3	1.8	1.7	70	2.9	0.75	1.8	4.0	2.0	3.4
29	0.33	2.5	1.1	1.3	---	84	2.6	0.70	1.6	5.2	1.9	3.6
30	0.41	3.3	1.1	1.1	---	30	2.4	0.70	1.8	3.3	1.8	21
31	0.47	---	1.0	1.0	---	19	---	0.70	---	3.2	1.8	---
TOTAL	18.15	205.06	85.0	48.14	50.86	509.18	313.5	41.81	58.16	148.0	104.4	342.6
MEAN	0.59	6.84	2.74	1.55	1.82	16.4	10.4	1.35	1.94	4.77	3.37	11.4
MAX	3.2	78	9.2	18	6.8	110	30	3.5	9.0	14	16	125
MIN	0.29	0.29	1.0	0.51	0.96	0.90	2.4	0.70	0.62	1.2	1.8	1.6
AC-FT	36	407	169	95	101	1,010	622	83	115	294	207	680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2005, BY WATER YEAR (WY)

MEAN	2.71	5.43	6.09	5.38	5.14	7.36	7.52	4.93	2.71	3.54	3.92	2.65
MAX	15.9	21.4	20.0	20.9	24.5	33.0	43.4	24.3	9.97	14.6	18.1	14.6
(WY)	(1942)	(1991)	(1947)	(1921)	(1969)	(1942)	(1989)	(1916)	(1914)	(1997)	(1982)	(1992)
MIN	0.15	0.25	1.04	0.57	0.62	0.79	0.58	0.84	0.37	0.41	0.40	0.25
(WY)	(1985)	(1963)	(1981)	(2001)	(1983)	(1992)	(1992)	(1933)	(2000)	(1981)	(1973)	(1984)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1912 - 2005
ANNUAL TOTAL	1,865.29	1,924.86	
ANNUAL MEAN	5.10	5.27	4.78
HIGHEST ANNUAL MEAN			9.88
LOWEST ANNUAL MEAN			1.73
HIGHEST DAILY MEAN	299	Mar 22	305 Apr 7, 1989
LOWEST DAILY MEAN	0.29	Oct 17	0.11 Oct 27, 1984
ANNUAL SEVEN-DAY MINIMUM	0.35	Oct 30	0.11 Oct 26, 1984
ANNUAL RUNOFF (AC-FT)	3,700	3,820	3,460
10 PERCENT EXCEEDS	9.6	12	9.9
50 PERCENT EXCEEDS	1.8	2.1	2.4
90 PERCENT EXCEEDS	0.44	0.51	0.72