

HAWAII, ISLAND OF MAUI

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 Matt Wong. Records fair. No diversion upstream of station.

AVERAGE DISCHARGE.--92 years (water years 1912-2003), 4.77 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)
	Dec 10	1715	*534	*3.48		Feb 14	1045	414	3.32

Minimum discharge, 0.35 ft³/s, June 11, gage height, 0.45 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.88	0.91	0.60	1.4	1.3	3.5	1.1	1.8	0.51	0.82	3.1	8.9
2	1.0	0.91	0.52	1.3	1.3	3.1	0.95	1.7	0.51	0.73	1.5	3.7
3	0.82	1.1	1.4	1.3	0.96	2.8	0.90	1.6	0.51	0.55	1.6	2.8
4	0.85	0.96	0.66	1.2	0.90	2.6	0.90	1.5	0.65	0.51	1.3	3.0
5	1.9	0.83	0.53	1.1	0.89	2.5	0.85	1.4	0.58	0.51	1.2	2.9
6	0.86	0.80	0.51	1.1	0.83	2.3	0.80	1.3	0.48	0.51	1.1	2.9
7	0.97	0.75	9.4	1.1	0.87	2.2	0.80	1.3	0.43	5.0	1.0	3.6
8	1.6	0.70	1.2	1.0	0.77	2.3	0.75	1.3	0.43	9.3	1.6	3.1
9	2.4	0.70	0.88	1.0	0.70	2.1	0.80	1.4	0.43	8.2	3.5	2.3
10	0.95	0.70	45	0.97	0.70	2.0	1.8	2.2	0.43	2.2	3.2	2.2
11	0.85	0.69	9.3	12	0.70	1.9	1.1	1.5	0.40	1.9	1.6	2.0
12	1.2	0.71	3.2	2.0	0.70	1.8	0.93	1.2	1.1	5.9	2.4	2.0
13	0.89	0.72	2.4	1.5	0.70	1.7	0.92	1.1	0.62	11	2.7	1.9
14	0.76	1.2	2.0	1.4	97	1.6	0.75	1.1	0.46	2.9	7.5	1.9
15	3.8	0.81	1.9	1.5	15	1.5	0.70	1.1	0.43	2.5	3.1	1.7
16	16	0.75	1.7	1.3	8.1	1.5	0.97	0.94	0.47	2.3	47	1.6
17	2.1	0.65	1.6	1.1	5.7	1.4	1.8	0.94	0.92	2.1	8.6	1.5
18	1.5	0.62	1.5	1.1	4.6	1.3	1.1	0.90	2.3	1.9	7.1	1.5
19	1.3	0.60	1.3	1.1	4.9	1.3	1.3	0.94	2.0	4.3	10	1.3
20	1.2	0.67	1.3	1.1	5.3	1.3	8.8	0.98	0.76	3.7	6.1	1.3
21	1.2	0.55	1.2	1.0	9.4	1.3	4.0	0.82	0.65	2.2	5.8	1.3
22	1.1	0.53	1.6	0.93	4.3	1.5	8.6	1.6	0.54	2.0	4.8	1.2
23	1.4	0.52	3.4	0.90	5.5	1.2	2.9	0.93	0.60	2.1	4.7	1.1
24	1.8	0.51	1.3	0.90	6.0	1.0	7.7	0.86	1.5	1.9	5.4	1.1
25	1.5	0.51	1.1	0.95	4.1	0.96	3.2	0.76	2.2	1.7	3.9	1.1
26	1.1	0.51	2.1	1.4	3.8	0.90	2.6	0.70	0.73	1.7	3.5	1.0
27	1.00	0.47	5.8	0.91	3.6	1.0	2.5	0.67	0.58	1.5	3.3	0.96
28	0.90	0.43	3.0	0.85	4.7	8.9	2.2	0.62	0.64	1.5	3.1	0.90
29	0.90	3.2	2.4	0.80	---	6.2	2.0	0.60	0.52	1.4	2.9	0.90
30	0.90	0.80	1.7	2.3	---	1.5	1.9	0.57	0.80	1.3	2.7	0.90
31	0.90	---	1.4	6.2	---	1.2	---	0.56	---	1.3	2.7	---
TOTAL	54.53	23.81	111.90	52.71	193.32	66.36	65.62	34.89	23.18	85.43	158.0	62.56
MEAN	1.76	0.79	3.61	1.70	6.90	2.14	2.19	1.13	0.77	2.76	5.10	2.09
MAX	16	3.2	45	12	97	8.9	8.8	2.2	2.3	11	47	8.9
MIN	0.76	0.43	0.51	0.80	0.70	0.90	0.70	0.56	0.40	0.51	1.0	0.90
AC-FT	108	47	222	105	383	132	130	69	46	169	313	124

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2003, BY WATER YEAR (WY)

MEAN	2.75	5.44	6.10	5.45	5.21	7.12	7.42	4.95	2.72	3.55	3.96	2.58
(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 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1912 - 2003
ANNUAL TOTAL	1,239.44	932.31	
ANNUAL MEAN	3.40	2.55	4.77
HIGHEST ANNUAL MEAN			9.88
LOWEST ANNUAL MEAN			1.73
HIGHEST DAILY MEAN	79	Mar 17	305
LOWEST DAILY MEAN	0.43	Nov 28	Apr 7, 1989
ANNUAL SEVEN-DAY MINIMUM	0.50	Nov 22	Oct 27, 1984
ANNUAL RUNOFF (AC-FT)	2,460	1,850	Oct 26, 1984
10 PERCENT EXCEEDS	5.4	4.7	9.9
50 PERCENT EXCEEDS	1.8	1.3	2.4
90 PERCENT EXCEEDS	0.76	0.60	0.74

