

## 16587000 HONOPOU STREAM NEAR HUELO

LOCATION.--Lat 20°53'20", long 156°15'20", 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 mi<sup>2</sup>.

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 good except for discharges above 100 ft<sup>3</sup>/s, which are fair. No diversion upstream of station.

AVERAGE DISCHARGE.--91 years (water years 1912-2002), 4.79 ft<sup>3</sup>/s (3,470 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,710 ft<sup>3</sup>/s, November 18, 1930, gage height, 7.28 ft from rating curve extended above 110 ft<sup>3</sup>/s by test of physical model of station site; minimum, 0.02 ft<sup>3</sup>/s, several days in 1933, 1934.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 270 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Mar 6	0215	*340	*3.20	Mar 17	1330	290	3.11

Minimum discharge, 0.51 ft<sup>3</sup>/s, May 2, 3, gage height, 0.47 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	6.1	3.0	2.8	3.8	4.0	2.5	0.60	1.4	3.7	3.0	1.5
2	1.0	5.1	2.6	2.6	4.0	3.6	2.1	0.59	1.4	2.2	2.7	1.4
3	0.84	5.7	5.9	2.5	3.2	4.0	1.9	0.58	1.3	1.7	2.6	1.4
4	2.1	13	6.1	2.2	2.9	5.3	1.8	1.4	1.2	2.1	4.8	1.3
5	2.0	13	4.2	2.0	2.8	49	1.7	1.3	1.1	1.8	3.3	1.2
6	1.3	9.8	3.0	2.0	2.6	52	1.5	16	1.1	1.4	2.8	1.2
7	12	19	3.0	2.4	2.5	10	1.7	3.9	1.1	2.2	5.5	1.8
8	3.1	18	12	1.8	8.4	7.8	1.5	5.6	1.0	3.4	2.8	5.3
9	3.0	17	8.7	1.7	3.1	6.6	1.3	2.0	0.96	3.9	3.8	2.3
10	4.4	11	6.5	3.5	2.7	5.7	1.2	2.1	1.1	2.9	2.6	1.6
11	7.2	9.4	6.0	1.7	3.2	13	1.1	1.9	1.0	2.6	2.4	1.5
12	3.2	7.9	12	1.5	3.4	5.3	1.1	1.5	0.98	2.0	2.2	1.4
13	4.1	7.1	40	1.4	26	4.7	1.0	13	0.88	1.9	2.2	1.3
14	3.0	6.4	20	1.3	20	4.3	1.0	2.9	0.91	1.8	2.2	1.3
15	3.2	5.7	12	1.3	7.0	4.4	0.95	2.0	1.5	1.7	2.0	1.8
16	3.1	5.1	9.2	1.2	5.5	5.0	1.0	2.0	1.2	1.8	1.9	1.8
17	2.5	4.6	18	1.6	4.7	79	2.2	1.8	2.3	1.8	1.8	1.8
18	2.5	4.2	14	4.5	4.2	28	1.0	7.0	1.3	1.8	1.9	1.6
19	2.3	3.9	16	3.7	4.0	9.0	0.90	11	1.2	2.7	1.8	1.3
20	2.2	3.6	10	25	4.4	7.1	0.81	3.3	0.88	1.7	1.8	1.2
21	3.1	3.4	8.7	4.7	3.5	6.0	0.81	2.9	0.94	4.4	1.6	1.1
22	2.3	3.2	7.3	3.3	3.1	5.2	1.0	2.6	1.2	8.6	1.5	1.1
23	1.9	2.9	6.5	2.6	3.5	4.6	0.75	2.4	0.87	3.7	1.7	1.0
24	1.8	2.8	5.7	2.4	14	4.2	0.73	2.3	0.75	2.7	1.9	1.0
25	1.7	2.6	5.0	2.2	7.5	3.7	0.70	2.1	0.72	3.4	1.6	0.96
26	1.5	2.5	4.7	4.7	9.0	3.4	0.66	2.0	0.96	26	1.3	0.90
27	2.0	6.1	4.1	3.3	4.9	3.1	0.68	1.9	2.6	6.4	2.3	0.90
28	31	4.0	3.7	2.4	4.3	2.9	0.70	1.7	1.3	4.4	3.4	0.86
29	6.7	2.7	3.4	20	---	2.6	0.86	1.7	0.86	3.9	3.9	0.84
30	5.0	2.4	3.2	4.4	---	2.7	0.76	1.6	2.2	3.4	2.2	0.85
31	5.1	---	3.1	4.4	---	2.5	---	1.5	---	3.2	1.7	---
TOTAL	126.94	208.2	267.6	121.1	168.2	348.7	35.91	103.17	36.21	115.2	77.2	43.51
MEAN	4.09	6.94	8.63	3.91	6.01	11.2	1.20	3.33	1.21	3.72	2.49	1.45
MAX	31	19	40	25	26	79	2.5	16	2.6	26	5.5	5.3
MIN	0.84	2.4	2.6	1.2	2.5	2.5	0.66	0.58	0.72	1.4	1.3	0.84
AC-FT	252	413	531	240	334	692	71	205	72	228	153	86

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1912 - 2002, BY WATER YEAR (WY)

MEAN	2.76	5.49	6.13	5.49	5.19	7.17	7.47	4.99	2.74	3.56	3.95	2.58
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

## HAWAII, ISLAND OF MAUI

## 16587000 HONOPOU STREAM NEAR HUELO--Continued

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1912 - 2002
ANNUAL TOTAL	1175.73	1651.94	
ANNUAL MEAN	3.22	4.53	4.79
HIGHEST ANNUAL MEAN			9.88
LOWEST ANNUAL MEAN			1.73
HIGHEST DAILY MEAN	40 Dec 13	79 Mar 17	305 Apr 7 1989
LOWEST DAILY MEAN	0.35 Jan 20	0.58 May 3	0.11 Oct 27 1984
ANNUAL SEVEN-DAY MINIMUM	0.40 Jan 16	0.68 Apr 27	0.11 Oct 26 1984
ANNUAL RUNOFF (AC-FT)	2330	3280	3470
10 PERCENT EXCEEDS	6.9	9.0	9.9
50 PERCENT EXCEEDS	1.9	2.6	2.4
90 PERCENT EXCEEDS	0.51	1.0	0.74

