

## HAWAII, ISLAND OF MAUI

## 16508000 HANAWI STREAM NEAR NAHIKU

LOCATION.--Lat 20° 48'37", long 156° 07'00", Old Hawaiian Datum, Hydrologic Unit 20020000, on left bank 200 ft upstream from Koolau Ditch intake and trail, 1.9 mi southwest of Nahiku, and 4.5 mi southeast of Keanae.

DRAINAGE AREA.--3.49 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1914 to January 1916, November 1921 to current year. Monthly discharge only April to June 1915, published in WSP 1319.

REVISED RECORDS.--WSP 1045: 1922-43(M). WSP 1569: Drainage area. WSP 1719: 1915(M), 1922, 1924-25, 1927, 1930-35, 1937, 1939-40, 1942-43.

GAGE.--Water-stage recorder. Datum of gage is 1,318 ft above mean sea level (by vertical angles). Prior to November 1, 1921, at site 50 ft downstream at datum 0.12 ft lower.

REMARKS.--Records computed by Matt Wong. Records good except discharges above 1,300 ft<sup>3</sup>/s which are fair. No diversion upstream of station.

AVERAGE DISCHARGE.--81 years (water years 1923-2003), 23.7 ft<sup>3</sup>/s (17,190 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 5,570 ft<sup>3</sup>/s, January 18, 1916, gage height, 11.6 ft, present site and datum, from rating curve extended above 814 ft<sup>3</sup>/s by physical model of station site; minimum, 0.90 ft<sup>3</sup>/s, October 28 to November 1, 1984.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,700 ft<sup>3</sup>/s and maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
	Feb 14	0900	*2,070	*7.15
No other peaks greater than base discharge.				

Minimum discharge, 1.6 ft<sup>3</sup>/s, Feb. 12, 13, 14, gage height, 0.11 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	3.5	2.9	2.7	3.1	3.3	5.0	3.9	3.6	2.7	7.2	22	125
2	3.4	2.9	2.4	2.9	2.8	3.5	3.1	3.4	2.7	4.8	13	17
3	3.0	2.7	2.5	2.7	2.6	3.0	2.7	3.2	2.6	3.9	19	10
4	3.0	2.7	2.3	2.6	2.2	2.7	2.5	3.1	2.6	4.8	8.0	11
5	11	2.7	2.2	2.5	2.0	2.8	2.4	3.0	2.5	4.7	6.3	13
6	4.5	2.6	2.1	2.4	2.0	2.5	2.3	3.0	2.5	6.1	5.9	12
7	3.9	2.5	33	2.3	2.0	2.4	2.2	3.0	2.4	61	4.4	20
8	4.6	2.4	4.3	2.3	1.9	2.5	2.2	3.0	2.4	77	11	12
9	6.6	2.4	2.9	2.2	1.9	2.3	2.2	3.3	2.3	136	30	8.8
10	4.1	2.3	99	2.1	1.9	2.2	88	5.7	2.3	16	20	7.4
11	3.6	2.3	32	25	1.9	2.2	24	4.3	2.2	11	8.8	6.7
12	5.2	2.3	7.4	5.5	1.8	2.1	11	3.8	15	25	15	6.3
13	4.8	2.2	4.4	3.2	1.6	2.1	10	3.5	5.3	39	30	5.9
14	3.7	2.4	3.6	2.8	517	2.0	4.0	3.6	2.9	8.5	63	6.7
15	38	2.2	3.2	2.6	394	2.0	3.4	5.3	3.1	6.0	21	6.2
16	29	2.2	3.0	2.4	24	2.0	6.3	3.8	4.7	4.8	129	5.3
17	6.2	2.2	2.9	2.3	6.7	2.2	28	4.8	5.2	4.2	24	5.0
18	4.5	2.2	2.7	2.3	4.5	1.9	25	4.2	24	3.8	99	4.9
19	3.9	2.2	2.6	2.2	5.1	1.9	19	4.2	13	33	38	4.7
20	3.6	2.3	2.5	2.2	13	1.9	91	4.4	4.6	13	24	4.6
21	3.8	2.1	2.4	2.1	75	1.9	49	3.6	3.3	6.7	16	4.4
22	4.1	2.0	2.6	2.1	7.4	3.8	80	4.1	3.0	5.2	12	4.2
23	4.0	2.0	22	2.0	12	3.7	21	3.7	3.5	5.1	12	4.1
24	13	2.0	3.4	2.0	22	2.2	37	3.5	9.4	4.3	15	4.0
25	7.6	1.9	2.7	2.1	5.3	2.0	14	3.3	15	3.8	8.7	3.9
26	4.3	1.9	4.5	2.2	4.7	2.0	8.5	3.1	4.6	3.5	7.6	3.8
27	3.6	1.9	56	2.0	3.6	1.9	9.0	3.0	3.8	3.3	8.5	3.7
28	3.3	1.9	12	1.9	5.4	123	5.6	2.9	3.4	3.2	7.5	3.6
29	3.1	42	16	1.9	---	36	4.4	2.9	3.2	3.0	7.0	3.5
30	3.0	4.3	5.3	2.0	---	5.3	3.9	2.8	11	3.1	6.9	3.4
31	2.9	---	3.7	11	---	3.5	---	2.8	---	3.5	8.1	---
TOTAL	202.8	110.6	348.3	106.9	1,127.6	234.5	565.6	111.9	165.2	514.5	700.7	331.1
MEAN	6.54	3.69	11.2	3.45	40.3	7.56	18.9	3.61	5.51	16.6	22.6	11.0
MAX	38	42	99	25	517	123	91	5.7	24	136	129	125
MIN	2.9	1.9	2.1	1.9	1.6	1.9	2.2	2.8	2.2	3.0	4.4	3.4
AC-FT	402	219	691	212	2,240	465	1,120	222	328	1,020	1,390	657

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2003, BY WATER YEAR (WY)

MEAN	15.1	29.6	32.1	30.3	30.8	40.3	35.7	19.7	11.0	16.0	16.9	11.5
MAX	101	110	129	123	182	235	161	68.2	61.2	62.0	66.2	52.3
(WY)	(1942)	(1991)	(1947)	(1979)	(1969)	(1980)	(1989)	(1987)	(1997)	(1997)	(1957)	(1914)
MIN	1.15	2.99	2.71	1.87	2.25	2.10	2.75	2.82	2.16	2.42	2.40	1.88
(WY)	(1985)	(1990)	(1981)	(1977)	(1983)	(1983)	(1992)	(1945)	(1981)	(1926)	(1973)	(1974)

## 16508000 HANAWI STREAM NEAR NAHIKU—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1914 - 2003
ANNUAL TOTAL	6,595.6	4,519.7	
ANNUAL MEAN	18.1	12.4	
HIGHEST ANNUAL MEAN			23.7
LOWEST ANNUAL MEAN			52.6
HIGHEST DAILY MEAN	559	Jan 29	7.59
LOWEST DAILY MEAN	1.9	Nov 25	1969
ANNUAL SEVEN-DAY MINIMUM	1.9	Nov 22	1926
ANNUAL RUNOFF (AC-FT)	13,080	8,960	1,610
10 PERCENT EXCEEDS	24	24	50
50 PERCENT EXCEEDS	5.4	3.7	7.0
90 PERCENT EXCEEDS	2.6	2.1	2.8

