

HAWAII, ISLAND OF OAHU

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16295300 HAKIPUU STREAM NEAR WAIKANE

LOCATION.--Lat 21°30'42", long 157°51'27", Old Hawaiian Datum, Hydrologic Unit 20060000, on right bank, 100 ft downstream of Kamehameha Highway bridge, 1.7 mi north of Waiahole Elementary School, and 1.0 mi southwest of Kualoa Regional Park.

DRAINAGE AREA.--0.85 mi².

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 30 ft above mean sea level (from topographic map).

REMARKS.--Records computed by H.A. Jeppesen. Records fair. Small diversion upstream of gage for diversified agriculture.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 906 ft³/s, May 6, 2002, gage height, 5.11 ft, from highwater profile past gage, by slope-area computation; minimum, 0.20 ft³/s, September 6, 2005.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 80 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Feb 1	1800	105	1.97		Sep 23	1830	697	3.72
	Feb 12	1300	*786	*3.94					

Minimum discharge, 0.20 ft³/s, Sept. 6, gage height, 0.62 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	0.95	1.5	1.5	2.3	9.4	2.6	3.3	0.98	0.85	0.69	0.56	0.44
2	0.99	1.2	1.4	3.2	6.1	2.4	2.7	1.00	0.80	0.64	0.53	0.39
3	0.93	1.2	1.4	1.5	4.5	2.3	2.7	0.99	0.89	0.64	0.55	0.37
4	1.00	1.2	1.3	1.4	13	2.5	2.7	0.97	0.81	0.60	0.55	0.35
5	0.90	2.6	1.3	1.3	3.5	2.3	2.5	0.94	0.79	0.62	0.53	0.35
6	0.87	2.7	1.3	1.3	2.8	2.2	2.2	0.92	0.78	0.64	0.51	0.33
7	0.90	3.5	1.4	1.3	2.7	2.4	2.1	0.90	0.85	0.61	0.51	0.33
8	0.85	2.0	1.3	1.2	2.6	2.8	2.2	0.93	0.78	0.68	0.50	0.35
9	0.83	1.7	1.4	2.6	2.4	3.8	2.0	0.96	0.79	0.72	0.50	0.35
10	0.85	1.5	1.2	1.4	2.3	3.5	1.9	0.92	0.84	0.73	0.47	0.38
11	0.92	1.5	1.2	1.3	44	2.7	1.8	0.90	0.76	0.84	0.49	0.42
12	0.92	1.4	1.2	1.3	44	3.3	1.6	0.91	0.75	0.88	0.46	0.43
13	1.0	1.4	1.1	1.5	7.5	2.7	1.4	0.88	0.74	0.74	0.47	0.76
14	0.87	1.7	1.1	1.3	6.9	2.4	1.3	0.89	0.75	0.72	0.45	0.66
15	0.88	1.5	1.1	1.3	6.4	2.4	1.3	0.86	0.76	0.74	0.44	0.67
16	0.86	2.6	1.1	1.2	4.8	2.3	1.3	0.83	0.76	0.77	0.44	0.64
17	0.86	2.4	1.1	1.3	4.0	2.1	1.2	0.88	0.75	0.71	0.44	0.56
18	0.85	1.8	1.1	1.3	4.1	2.0	1.2	0.92	0.71	0.66	0.45	0.54
19	0.88	1.6	1.1	1.2	3.8	1.9	1.1	1.0	0.84	0.63	0.44	0.53
20	0.83	1.5	1.1	1.2	3.3	1.9	1.1	0.87	0.81	0.61	0.48	0.50
21	0.81	1.5	1.1	1.2	3.0	1.8	1.1	1.4	0.83	0.64	0.45	0.51
22	0.79	1.6	3.0	1.1	2.8	1.6	1.1	1.4	0.75	0.71	0.43	0.51
23	0.82	2.3	1.6	1.1	2.9	1.7	1.1	0.95	0.78	0.76	0.44	32
24	1.2	1.6	1.3	1.2	3.2	1.7	1.1	0.88	0.78	0.61	0.43	5.6
25	1.3	1.5	1.2	1.7	2.9	2.4	1.0	0.87	0.74	0.63	0.54	2.4
26	7.2	1.4	1.2	1.2	3.0	8.6	1.0	0.91	0.72	0.61	0.48	2.1
27	1.9	1.4	3.0	1.1	2.9	3.4	1.0	0.91	0.72	0.63	0.46	1.6
28	1.2	1.9	1.8	1.0	2.6	2.7	1.0	0.89	0.70	0.88	0.45	1.4
29	1.1	1.6	1.5	2.8	---	3.1	1.0	0.84	0.74	0.66	0.44	1.2
30	1.2	1.4	1.4	1.2	---	2.8	1.00	0.81	0.73	0.60	0.45	1.4
31	3.9	---	1.3	1.3	---	2.8	---	0.82	---	0.58	0.43	---
TOTAL	39.36	52.7	43.1	45.3	201.4	83.1	48.00	29.13	23.30	21.18	14.77	58.07
MEAN	1.27	1.76	1.39	1.46	7.19	2.68	1.60	0.94	0.78	0.68	0.48	1.94
MAX	7.2	3.5	3.0	3.2	44	8.6	3.3	1.4	0.89	0.88	0.56	32
MIN	0.79	1.2	1.1	1.0	2.3	1.6	1.0	0.81	0.70	0.58	0.43	0.33
AC-FT	78	105	85	90	399	165	95	58	46	42	29	115

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	0.79	1.43	2.08	1.93	4.35	3.20	2.27	2.14	0.99	0.80	1.66	1.30
(WY)	(2005)	(2004)	(2004)	(2004)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)
MIN	0.41	0.65	0.61	0.64	2.37	1.00	1.60	0.78	0.49	0.58	0.47	0.81
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2002 - 2005
ANNUAL TOTAL	1,025.96	659.41	
ANNUAL MEAN	2.80	1.81	1.90
HIGHEST ANNUAL MEAN			2.98
LOWEST ANNUAL MEAN			0.91
HIGHEST DAILY MEAN	64	Aug 4	64 Aug 4, 2004
LOWEST DAILY MEAN	0.79	Oct 22	0.29 Nov 5, 2003
ANNUAL SEVEN-DAY MINIMUM	0.83	Oct 17	0.31 Nov 15, 2003
ANNUAL RUNOFF (AC-FT)	2,030	1,310	1,380
10 PERCENT EXCEEDS	4.5	2.8	3.3
50 PERCENT EXCEEDS	1.8	1.1	1.0
90 PERCENT EXCEEDS	1.0	0.51	0.45