

## HAWAII, ISLAND OF OAHU

## 16212800 KIPAPA STREAM NEAR WAHIAWA

LOCATION.--Lat  $21^{\circ} 28'13''$ , long  $157^{\circ} 57'40''$ , Old Hawaiian Datum, Hydrologic Unit 20060000, on left bank 1,700 ft downstream from forest-reserve boundary, 4.9 mi southeast of Wahiawa Post Office, and 6.3 mi northeast of Waipahu.

DRAINAGE AREA.--4.29 mi<sup>2</sup>.

PERIOD OF RECORD.--January 1957 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 690 ft above mean sea level (from topographic map).

REMARKS.--Records computed by V.E. Kunishige. Records good except for estimated period which is poor. At times, a small amount of water is diverted from the gage pool for domestic use. Recording rain gage located at station.

AVERAGE DISCHARGE.--46 years (water years 1958-2003), 10.4 ft<sup>3</sup>/s (7,560 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,370 ft<sup>3</sup>/s, March 21, 1991, gage height, 12.67 ft, from rating curve extended above 5,680 ft<sup>3</sup>/s on basis of the shape of the rating; no flow at times.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 930 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)
	Jul 25	0030	*1,830	*8.59		Jul 26	0745	980	7.00

Minimum discharge, 0.01 ft<sup>3</sup>/s, Nov. 10, gage height, 1.83 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	0.39	2.8	0.99	0.45	e5.0	e1.3	e3.5	2.6	0.20	1.2	1.6	0.26
2	0.58	0.90	0.60	0.32	e2.0	e1.0	e2.1	2.1	0.22	0.77	1.2	0.22
3	0.77	0.65	0.48	0.24	e1.0	e0.80	e1.7	1.0	0.24	0.58	1.6	0.44
4	1.2	0.43	0.38	0.21	e0.80	e0.90	e2.5	0.77	1.1	0.53	2.1	0.26
5	0.67	0.25	0.27	0.20	e0.70	e1.0	e2.5	0.67	6.1	0.43	1.0	0.21
6	0.43	0.16	0.25	0.21	e0.60	e8.0	e1.9	0.72	1.3	0.57	6.3	0.24
7	0.44	0.12	2.9	0.22	e0.70	e7.5	e10	1.5	1.7	0.59	1.5	7.2
8	0.28	0.10	1.3	0.14	e0.70	e3.0	2.8	5.4	1.3	0.51	0.81	2.6
9	0.21	0.06	0.50	0.09	e0.60	e1.7	15	3.6	0.65	0.43	0.71	0.84
10	0.13	0.02	0.28	0.08	e0.50	e1.2	63	15	0.42	0.43	0.69	4.4
11	0.13	0.05	0.23	0.12	e0.50	e1.1	27	4.3	0.32	0.26	0.68	177
12	0.11	19	12	0.13	e0.60	e1.0	27	1.9	0.28	0.23	0.70	18
13	0.13	22	3.9	0.26	e0.50	e1.0	11	1.3	0.28	0.37	0.60	13
14	0.13	3.0	1.1	0.35	e45	e1.0	5.3	1.2	0.34	0.19	0.50	5.7
15	52	25	0.57	3.4	e10	e0.90	3.7	4.9	0.39	0.25	0.84	4.9
16	3.0	40	0.36	3.2	e3.5	e6.0	3.1	3.3	0.30	0.17	0.99	3.0
17	8.1	7.7	0.30	0.78	e1.8	e13	4.4	1.3	0.35	0.24	0.72	2.2
18	2.2	3.6	0.44	0.41	e1.0	e2.8	4.3	0.97	2.4	0.50	1.2	2.1
19	1.0	2.3	0.41	0.25	e0.60	e1.6	2.5	0.83	2.3	0.20	1.7	2.6
20	0.62	1.6	0.27	1.7	e0.40	e1.1	9.6	0.65	2.3	9.2	0.93	1.4
21	0.39	1.1	0.21	1.6	e0.50	e1.1	8.2	0.54	1.4	4.4	0.74	1.6
22	0.26	0.81	0.19	e0.20	e0.70	e1.0	8.8	0.44	0.81	1.1	2.0	1.5
23	0.21	0.63	0.37	e0.30	e1.2	e0.90	5.2	0.39	0.61	0.49	2.9	1.4
24	0.36	0.52	0.54	e1.7	e0.80	e1.0	4.3	0.36	1.2	0.32	2.1	0.99
25	2.9	0.48	0.45	e0.60	e1.1	e0.90	3.0	0.34	2.8	84	1.7	0.72
26	1.4	5.6	0.44	e0.50	e1.6	e0.90	2.2	0.32	2.2	86	0.71	0.55
27	0.54	3.0	2.2	e0.60	e1.9	e8.0	1.7	0.27	1.0	16	0.43	0.48
28	0.28	1.3	18	e0.40	e1.6	e4.0	1.4	0.24	4.8	20	0.26	0.47
29	0.17	7.5	4.1	e0.30	---	e2.3	1.3	0.21	7.0	6.5	0.19	0.41
30	0.12	2.6	1.4	e0.30	---	e17	1.1	0.21	2.2	3.1	0.20	0.34
31	0.95	---	0.70	e18	---	e6.5	---	0.20	---	2.1	0.31	---
TOTAL	80.10	153.28	56.13	37.26	85.90	99.50	240.1	57.53	46.51	241.66	37.91	255.03
MEAN	2.58	5.11	1.81	1.20	3.07	3.21	8.00	1.86	1.55	7.80	1.22	8.50
MAX	52	40	18	18	45	17	63	15	7.0	86	6.3	177
MIN	0.11	0.02	0.19	0.08	0.40	0.80	1.1	0.20	0.20	0.17	0.19	0.21
AC-FT	159	304	111	74	170	197	476	114	92	479	75	506

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2003, BY WATER YEAR (WY)

MEAN	9.53	14.4	12.1	11.2	9.61	15.2	14.5	9.27	5.54	9.58	7.86	5.86
MAX	49.6	61.8	42.2	32.1	54.4	98.4	60.9	39.4	21.9	28.1	37.5	23.6
(WY)	(1982)	(1966)	(1988)	(1989)	(1969)	(1991)	(1963)	(2002)	(1978)	(1989)	(1958)	(1994)
MIN	0.84	0.23	0.83	0.17	0.19	0.021	0.33	0.39	0.16	0.47	0.30	0.49
(WY)	(1958)	(1963)	(1990)	(1977)	(1978)	(1983)	(1966)	(1992)	(1959)	(1968)	(1971)	(1998)

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## 16212800 KIPAPA STREAM NEAR WAHIAWA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1957 - 2003
ANNUAL TOTAL	3,554.53	1,390.91	
ANNUAL MEAN	9.74	3.81	
HIGHEST ANNUAL MEAN			10.4
LOWEST ANNUAL MEAN			25.2
HIGHEST DAILY MEAN	750	May 6	3.81
LOWEST DAILY MEAN	0.02	Nov 10	1982
ANNUAL SEVEN-DAY MINIMUM	0.11	Nov 5	2003
ANNUAL RUNOFF (AC-FT)	7,050	2,760	852 Apr 15, 1963
10 PERCENT EXCEEDS	16	7.3	0.00 Jun 18, 1959
50 PERCENT EXCEEDS	1.8	0.93	0.00 Jun 18, 1959
90 PERCENT EXCEEDS	0.37	0.22	0.36

e Estimated

