

16226000 NORTH HALAWA STREAM NEAR AIEA

LOCATION.--Lat 21°23'46", long 157°53'37", Old Hawaiian Datum, Hydrologic Unit 20060000, on left bank 2.7 mi upstream from confluence with South Halawa Stream, and 2.7 mi northeast of Aiea Post Office.

DRAINAGE AREA.--3.45 mi².

PERIOD OF RECORD.--August 1929 to June 1933, July 1953 to current year. Monthly discharge only May, June 1931, published in WSP 1319.

REVISED RECORDS.--WSP 1319: Drainage area. WSP 1719: 1954-55(P), 1956, 1957(P), 1958-59.

GAGE.--Water-stage recorder. Elevation of gage is 320 ft above mean sea level (from topographic map).

REMARKS.--Records computed by S.T.M. Young. Records fair. Recording rain gage located at station.

AVERAGE DISCHARGE.--54 years (water years 1930-32, 1954-2004), 5.15 ft³/s (3,730 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,650 ft³/s, February 28, 1932, gage height, 13.36 ft, from rating curve extended above 420 ft³/s; maximum gage height, 13.46 ft, May 14, 1963; no flow at times each year.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 430 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Nov 29	2130	1,150	10.40
Dec 1	1145	599	8.93
Dec 5	1715	536	8.72
Dec 7	1600	513	8.64
Jan 2	1545	494	8.57
Feb 27	1445	949	9.92
Aug 4	0630	*1,260	*10.64

Minimum discharge, 0.00 ft³/s, on many days, gage height, 3.99 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	83	34	4.9	13	8.4	0.39	0.11	1.7	0.02	0.57
2	0.00	0.09	13	158	2.1	21	6.8	0.29	0.50	1.3	10	1.2
3	0.33	0.10	6.4	70	1.2	7.3	19	0.35	0.54	0.76	25	0.72
4	0.04	0.07	39	12	1.7	4.6	10	2.4	0.31	0.40	204	0.20
5	0.00	0.07	127	5.0	3.0	2.4	5.3	2.9	0.12	0.52	16	0.37
6	0.36	0.00	40	2.4	12	1.1	2.9	4.1	0.18	0.52	5.1	1.5
7	0.63	0.42	137	1.3	71	1.9	1.9	7.9	0.24	0.43	14	0.44
8	1.1	0.07	68	0.86	20	5.7	1.3	1.8	0.19	0.66	4.2	0.11
9	0.34	0.00	16	0.58	5.0	3.1	1.4	0.65	0.83	2.2	2.3	0.30
10	0.14	0.26	25	0.39	2.3	1.6	14	0.34	6.5	0.52	1.4	0.11
11	1.9	0.06	36	0.27	1.1	0.84	7.1	28	3.1	5.4	1.9	0.10
12	2.8	0.00	9.4	0.32	0.61	2.8	20	18	1.6	4.8	1.7	0.70
13	0.52	0.33	5.9	0.17	0.37	11	10	4.4	1.5	3.0	1.2	0.05
14	0.94	0.40	3.2	2.4	0.25	14	4.5	2.4	0.64	1.2	0.67	0.47
15	0.79	0.25	2.2	0.78	0.17	4.4	28	34	0.34	0.54	0.27	0.38
16	0.23	0.30	1.5	0.19	0.10	1.5	20	15	0.34	0.29	0.12	0.10
17	0.36	0.28	1.3	0.10	0.06	0.70	8.4	5.2	1.5	0.21	0.23	0.15
18	0.11	0.49	0.86	0.06	0.04	0.33	4.0	2.5	0.69	0.12	0.05	0.19
19	0.04	0.25	0.56	0.21	0.03	0.19	3.1	1.5	0.36	0.06	0.03	4.5
20	0.00	0.03	0.40	0.66	0.03	3.5	12	1.2	2.6	0.00	0.01	0.66
21	0.00	0.07	0.31	0.59	0.02	146	12	0.69	1.8	0.00	2.1	0.49
22	0.00	0.10	0.20	6.8	0.01	113	4.2	0.50	4.5	0.00	0.78	2.3
23	0.00	0.30	0.17	12	0.03	69	2.4	0.62	6.5	0.00	0.57	4.8
24	0.00	0.07	0.15	1.9	0.01	27	1.5	0.39	7.0	0.00	2.9	4.5
25	0.00	0.16	0.09	10	0.01	23	0.97	0.63	2.2	0.48	2.2	2.5
26	0.00	0.01	0.07	9.1	28	22	24	0.26	0.94	0.40	18	1.3
27	0.00	0.00	0.05	10	197	19	6.2	0.49	0.62	0.03	7.1	0.71
28	0.05	0.03	0.26	2.9	43	9.9	2.0	0.37	0.83	2.5	3.0	0.33
29	0.01	207	0.05	1.7	13	19	0.93	0.19	1.3	0.16	2.3	0.78
30	0.00	73	0.98	2.2	---	71	0.58	0.47	1.1	0.04	1.5	0.45
31	0.00	---	23	4.3	---	17	---	0.35	---	0.15	1.1	---
TOTAL	10.69	284.21	641.05	351.18	407.04	636.86	242.88	138.28	48.98	28.39	329.75	30.98
MEAN	0.34	9.47	20.7	11.3	14.0	20.5	8.10	4.46	1.63	0.92	10.6	1.03
MAX	2.8	207	137	158	197	146	28	34	7.0	5.4	204	4.8
MIN	0.00	0.00	0.05	0.06	0.01	0.19	0.58	0.19	0.11	0.00	0.01	0.05
AC-FT	21	564	1,270	697	807	1,260	482	274	97	56	654	61

HAWAII, ISLAND OF OAHU

16226000 NORTH HALAWA STREAM NEAR AIEA—Continued

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)												
MEAN	3.28	7.54	7.49	6.61	7.43	7.82	6.78	4.59	1.77	3.39	3.56	2.12
MAX	16.3	50.6	35.0	26.0	76.3	37.8	33.3	30.1	7.86	23.0	21.6	17.1
(WY)	(1959)	(1966)	(1930)	(1988)	(1932)	(1968)	(1932)	(1965)	(1932)	(1954)	(1982)	(1931)
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1933)	(1954)	(1990)	(1977)	(1931)	(1931)	(1931)	(1931)	(1931)	(1953)	(1962)	(1953)
SUMMARY STATISTICS												
	FOR 2003 CALENDAR YEAR					FOR 2004 WATER YEAR			WATER YEARS 1929 - 2004			
ANNUAL TOTAL	1,477.56					3,150.29						
ANNUAL MEAN	4.05					8.61			5.15			
HIGHEST ANNUAL MEAN									15.7			
LOWEST ANNUAL MEAN									1.41			
HIGHEST DAILY MEAN	207					207			956			
LOWEST DAILY MEAN	0.00					0.00			0.00			
ANNUAL SEVEN-DAY MINIMUM	0.00					0.00			0.00			
ANNUAL RUNOFF (AC-FT)	2,930					6,250			3,730			
10 PERCENT EXCEEDS	3.1					19			11			
50 PERCENT EXCEEDS	0.06					0.83			0.35			
90 PERCENT EXCEEDS	0.00					0.03			0.00			