

16302000 Punaluu Ditch near Punaluu, Oahu, HI

LOCATION.--Lat 21°33'29.8", long 157°54'01.1" referenced to North American Datum of 1983, Honolulu County, HI, Hydrologic Unit 20060000, on right bank 800 ft downstream from intake, 1.5 mi west of Kahana, and 1.7 mi southwest of Punaluu.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1953 to December 2008 (discontinued).

REVISED RECORDS.--WSP 1719: 1954-55, WDR HI-91-1: 1990 (Maximum and minimum daily discharges).

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above mean sea level (from topographic map).

REMARKS.--Records good. The ditch diverts water from Punaluu Stream for irrigation in Punaluu Valley.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--55 years (water years 1954-2008): 8.48 ft³/s (6,150 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 54 ft³/s, October 31, 1964; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge during the period October through December, 24 ft³/s, October 31, gage-height, 2.89 ft.; Minimum discharge during the period October through December, 0.09 ft³/s, October 15.

16302000 Punaluu Ditch near Punaluu, Oahu, HI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	7.1	20	11	---	---	---	---	---	---	---	---	---
2	6.1	17	10	---	---	---	---	---	---	---	---	---
3	8.0	7.1	11	---	---	---	---	---	---	---	---	---
4	8.4	5.4	11	---	---	---	---	---	---	---	---	---
5	7.2	5.3	11	---	---	---	---	---	---	---	---	---
6	7.9	6.9	11	---	---	---	---	---	---	---	---	---
7	9.3	7.1	10	---	---	---	---	---	---	---	---	---
8	8.7	6.3	11	---	---	---	---	---	---	---	---	---
9	8.5	6.4	11	---	---	---	---	---	---	---	---	---
10	9.0	7.3	11	---	---	---	---	---	---	---	---	---
11	7.5	6.9	3.2	---	---	---	---	---	---	---	---	---
12	7.7	6.6	7.6	---	---	---	---	---	---	---	---	---
13	9.6	12	9.3	---	---	---	---	---	---	---	---	---
14	8.9	14	6.8	---	---	---	---	---	---	---	---	---
15	5.8	13	9.5	---	---	---	---	---	---	---	---	---
16	8.4	13	9.7	---	---	---	---	---	---	---	---	---
17	9.0	9.9	11	---	---	---	---	---	---	---	---	---
18	7.9	6.9	10	---	---	---	---	---	---	---	---	---
19	6.7	11	9.9	---	---	---	---	---	---	---	---	---
20	6.0	9.9	8.6	---	---	---	---	---	---	---	---	---
21	5.5	9.4	8.2	---	---	---	---	---	---	---	---	---
22	5.3	7.3	8.9	---	---	---	---	---	---	---	---	---
23	8.2	8.4	8.5	---	---	---	---	---	---	---	---	---
24	9.9	11	8.1	---	---	---	---	---	---	---	---	---
25	8.9	10	8.1	---	---	---	---	---	---	---	---	---
26	9.5	9.1	7.9	---	---	---	---	---	---	---	---	---
27	11	7.7	6.3	---	---	---	---	---	---	---	---	---
28	11	9.0	8.4	---	---	---	---	---	---	---	---	---
29	9.9	9.9	8.9	---	---	---	---	---	---	---	---	---
30	7.2	9.4	6.9	---	---	---	---	---	---	---	---	---
31	18	---	---	---	---	---	---	---	---	---	---	---
Total	262.1	283.2	---	---	---	---	---	---	---	---	---	---
Mean	8.45	9.44	---	---	---	---	---	---	---	---	---	---
Max	18	20	---	---	---	---	---	---	---	---	---	---
Min	5.3	5.3	---	---	---	---	---	---	---	---	---	---
Ac-ft	520	562	---	---	---	---	---	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	9.18	7.88	6.63	6.53	6.74	7.48	8.73	9.03	9.70	10.0	10.1	10.0
Max	26.4	15.3	16.0	17.6	21.7	16.1	19.0	21.2	22.6	22.0	23.9	21.3
(WY)	(1965)	(1988)	(1988)	(1960)	(1964)	(1964)	(1961)	(1964)	(1963)	(1963)	(1958)	(1958)
Min	0.00	0.00	0.00	0.00	0.01	0.05	0.01	0.03	0.02	0.00	0.00	0.00
(WY)	(1981)	(1981)	(1981)	(1981)	(1981)	(1979)	(1979)	(1981)	(1979)	(1980)	(1974)	(1980)

16302000 Punaluu Ditch near Punaluu, Oahu, HI—Continued

SUMMARY STATISTICS

Water Years 1953 - 2009	
Annual mean	8.48
Highest annual mean	15.2 1964
Lowest annual mean	0.23 1981
Highest daily mean	54 Oct 31, 1964
Lowest daily mean	0.00 Dec 7, 1963
Annual seven-day minimum	0.00 Jan 5, 1969
Annual runoff (ac-ft)	6,150
10 percent exceeds	16
50 percent exceeds	8.4
90 percent exceeds	0.53

