

HAWAII, ISLAND OF HAWAII

1

16732800 LOWER HAMAKUA DITCH ABOVE MAIN WEIR

LOCATION.--Lat 20°06'52", long 155°35'06", Old Hawaiian Datum, Hydrologic Unit 20010000, on left bank 500 ft upstream from Lower Hamakua ditch Main Weir and 1 mile west of Kukuihaele County Park.

PERIOD OF RECORD.--October 2002 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 1000 ft above mean sea level (from topographic map).

COOPERATION.--State of Hawaii, Department of Agriculture.

REMARKS.--Records computed by Dale Nishimoto. Records good, except for periods of estimation and period of no record, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 31 ft³/s, November 19; minimum daily, 0.10 ft³/s, (estimated) April 5.

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	14	14	19	--	--	--	<2.9	<1.7	<1.8	11	9.6	9.8
2	14	14	26	--	--	--	<2.9	<1.7	e4.2	13	11	9.8
3	14	14	24	--	--	--	<2.9	<1.8	e2.0	13	17	9.7
4	14	14	28	--	--	--	<2.9	9.7	e6.4	11	12	9.6
5	13	14	e24	--	--	--	e0.10	10	13	11	10	9.7
6	13	14	--	--	--	--	<2.9	4.3	11	11	9.9	9.6
7	13	14	--	--	--	--	<2.9	6.4	10	11	13	12
8	13	15	--	--	--	--	<2.9	e6.0	11	10	10	16
9	13	16	--	--	--	--	<2.9	<1.8	11	10	9.5	16
10	13	15	--	--	--	--	e9.6	<1.8	12	10	9.3	16
11	13	17	--	--	--	e16	19	<1.9	10	11	9.8	16
12	13	16	--	--	--	--	19	<1.8	10	10	10	14
13	13	16	--	--	e5.2	--	14	<1.9	9.5	10	10	6.7
14	15	19	--	--	--	--	7.3	<1.9	9.4	13	10	6.7
15	18	21	--	--	--	--	3.9	<1.9	11	12	10	8.0
16	25	27	--	--	--	--	e2.1	e5.3	11	11	12	15
17	27	23	--	--	--	--	e10	e2.3	11	10	14	16
18	17	21	--	--	--	e13	10	<1.9	10	10	11	18
19	16	31	--	--	--	e10	e4.5	<1.9	11	10	10	16
20	15	25	--	--	--	<9.6	e4.0	<1.9	14	10	10	15
21	15	24	--	--	--	<9.6	<2.9	<1.9	12	9.9	11	15
22	15	21	--	--	--	e19	<2.9	<1.9	18	10	12	15
23	15	17	--	--	--	--	21	<2.9	<1.9	13	9.6	18
24	15	16	--	--	--	--	13	<2.9	<1.9	12	9.1	15
25	15	15	--	--	--	e3.6	<2.9	e2.4	11	9.1	11	15
26	14	23	--	--	--	e3.8	<4.5	e4.7	11	9.1	10	15
27	14	18	--	--	--	<2.9	e6.4	e3.5	11	9.1	10	15
28	14	16	--	--	--	<2.9	<1.7	e2.2	11	11	9.9	15
29	14	17	--	--	--	e2.4	<1.7	e3.8	13	12	10	15
30	14	26	--	--	--	e3.7	<1.7	6.4	11	9.7	11	15
31	14	--	--	--	--	e3.4	---	3.7	---	9.3	10	---
TOTAL	465	553	--	--	--	--	157.20	102.2	312.3	325.9	343.0	399.6
MEAN	15.0	18.4	--	--	--	--	5.24	3.30	10.4	10.5	11.1	13.3
MAX	27	31	--	--	--	--	19	10	18	13	18	18
MIN	13	14	--	--	--	--	0.10	1.7	1.8	9.1	9.3	6.7
AC-FT	922	1,100	--	--	--	--	312	203	619	646	680	793

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)

MEAN	7.78	9.49	0.55	0.55	0.55	18.6	11.6	10.5	14.5	14.5	13.3	11.9
MAX	15.0	18.4	0.55	0.55	0.55	18.6	17.9	17.6	18.5	18.5	15.5	13.3
(WY)	(2004)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.55	0.55	0.55	0.55	0.55	18.6	5.24	3.30	10.4	10.5	11.1	10.4
(WY)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS

WATER YEARS 2003 - 2004

ANNUAL MEAN	10.0
HIGHEST ANNUAL MEAN	10.0
LOWEST ANNUAL MEAN	10.0
HIGHEST DAILY MEAN	31 Nov 19, 2003
LOWEST DAILY MEAN	0.10 Apr 5, 2004
ANNUAL SEVEN-DAY MINIMUM	0.55 Oct 1, 2002
ANNUAL RUNOFF (AC-FT)	7,270
10 PERCENT EXCEEDS	21
50 PERCENT EXCEEDS	10
90 PERCENT EXCEEDS	0.55

e Estimated

< Actual value is known to be less than the value shown