

HAWAII, ISLAND OF MAUI

16614000 WAIHEE RIVER AT DAM NEAR WAIHEE

LOCATION.--Lat 20° 56'21", long 156° 32'59", Old Hawaiian Datum, Hydrologic Unit 20020000, on right bank at dam 8 ft upstream from the abandoned Waihee canal intake, 2.6 mi southwest from Waihee Point, and 4.4 mi northwest from Wailuku Post Office.

DRAINAGE AREA.--4.20 mi².

PERIOD OF RECORD.--November 1910 to December 1913, November 1983 to current year. Low-flow records not equivalent prior to December 31, 1913, due to Waihee canal diverted water upstream.

GAGE.--Water-stage recorder. Elevation of gage is 605 ft above mean sea level (from topographic map).

REMARKS.--Records computed by Phillip Teeters. Records fair. No diversion upstream of station.

AVERAGE DISCHARGE.--19 years (water years 1985-2003), 76.6 ft³/s (55,510 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,660 ft³/s, January 28, 1988, gage height, 8.95 ft, from rating curve extended above 280 ft³/s on basis of slope-area measurements at gage heights 6.70 ft and 8.95 ft; minimum, 14 ft³/s, July 13, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)		Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Oct 15	0600	*6,040	*7.44		Apr 10	1530	2,200	5.02

Minimum discharge, 28 ft³/s, on several days, gage height, 1.25 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	38	46	e39	37	42	42	37	36	29	37	78	86
2	42	49	e38	36	39	41	38	35	29	33	52	48
3	37	57	e38	36	37	39	36	34	29	30	59	42
4	48	46	e37	36	36	38	36	34	30	29	49	e47
5	61	48	e37	35	35	40	45	34	29	38	63	e50
6	39	44	36	35	36	38	37	35	29	31	48	e67
7	45	e41	120	35	36	37	38	34	29	111	40	e99
8	45	e40	45	34	35	43	38	71	28	126	60	e68
9	58	e39	48	34	34	38	66	63	28	101	70	e51
10	38	e38	195	34	34	36	297	77	28	42	61	e54
11	42	44	143	84	36	36	52	39	28	62	42	e51
12	45	65	50	39	35	36	46	42	44	154	47	e48
13	38	51	41	36	35	35	41	41	35	149	71	e46
14	37	59	41	35	417	35	39	50	30	47	64	e50
15	238	46	41	71	197	35	38	46	30	48	46	e46
16	122	51	42	39	52	57	41	35	37	43	126	e42
17	78	43	40	36	43	38	44	38	46	39	46	e41
18	49	46	38	35	40	35	41	32	67	37	47	e41
19	e44	45	37	35	49	35	46	39	58	57	55	e40
20	e40	48	37	59	71	36	74	44	33	51	51	e38
21	e38	43	36	36	120	36	47	31	32	40	48	e38
22	e43	42	54	35	59	49	64	49	29	38	48	e37
23	48	47	72	34	54	38	42	33	44	39	55	e40
24	63	45	39	45	52	36	69	36	49	43	92	e37
25	52	40	37	64	75	35	50	33	47	90	43	e37
26	47	e38	74	55	68	34	40	30	32	80	41	e36
27	e42	40	123	38	47	36	38	30	31	46	56	e35
28	e40	48	42	36	57	137	37	30	52	44	47	e35
29	e39	140	42	35	---	137	36	30	31	38	43	e34
30	46	e42	46	58	---	45	36	30	32	38	60	e33
31	56	---	38	168	---	39	---	29	---	39	48	---
TOTAL	1,698	1,471	1,746	1,425	1,871	1,392	1,589	1,220	1,075	1,800	1,756	1,417
MEAN	54.8	49.0	56.3	46.0	66.8	44.9	53.0	39.4	35.8	58.1	56.6	47.2
MAX	238	140	195	168	417	137	297	77	67	154	126	99
MIN	37	38	36	34	34	34	36	29	28	29	40	33
AC-FT	3,370	2,920	3,460	2,830	3,710	2,760	3,150	2,420	2,130	3,570	3,480	2,810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2003, BY WATER YEAR (WY)

MEAN	68.0	80.9	71.0	75.1	67.6	85.3	87.5	75.5	69.5	84.0	75.1	69.0
MAX	91.7	150	109	186	106	179	276	143	118	136	99.6	160
(WY)	(1986)	(1991)	(1988)	(1988)	(1988)	(1994)	(1989)	(1987)	(1987)	(1994)	(1991)	(1992)
MIN	27.4	36.8	31.3	29.4	42.2	43.7	36.6	39.4	35.8	52.3	46.1	32.9
(WY)	(1985)	(1985)	(1985)	(1985)	(1993)	(1992)	(1992)	(2003)	(2003)	(2001)	(1984)	(1984)

16614000 WAIHEE RIVER AT DAM NEAR WAIHEE—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1984 - 2003
ANNUAL TOTAL	26,802	18,460	
ANNUAL MEAN	73.4	50.6	
HIGHEST ANNUAL MEAN			76.6
LOWEST ANNUAL MEAN			106
HIGHEST DAILY MEAN	748	Jan 26	1994
LOWEST DAILY MEAN	36	Dec 6	2003
ANNUAL SEVEN-DAY MINIMUM	38	Nov 30	
ANNUAL RUNOFF (AC-FT)	53,160	36,620	1,160
10 PERCENT EXCEEDS	122	71	Jan 28, 1988
50 PERCENT EXCEEDS	56	41	22
90 PERCENT EXCEEDS	41	34	23
			55,510
			130
			54
			38

e Estimated

