

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 diversion of water upstream.

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

REMARKS.--Records computed by Matt Wong. Records fair. No diversion upstream of station.

AVERAGE DISCHARGE.--20 years (water years 1985-2004), 76.4 ft³/s (55,320 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)
Jan 1	1515	*4,430	*6.58	Mar 22	0415	3,350	5.90
Feb 27	1730	3,380	5.92				

Minimum discharge, 31 ft³/s, on several days, gage height, 1.23 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	e34	34	103	330	62	131	86	65	70	62	45	43
2	e33	33	92	201	46	71	111	64	81	76	125	42
3	e33	32	79	346	44	79	90	63	63	55	74	41
4	e32	34	320	68	59	55	63	128	62	59	49	40
5	e32	33	300	54	59	50	60	110	60	54	46	41
6	e32	37	153	51	59	55	66	269	61	52	56	40
7	e32	37	76	49	124	112	59	93	67	64	70	40
8	e36	33	78	49	50	96	58	71	66	54	48	40
9	e36	32	75	48	44	53	327	67	81	71	46	39
10	e31	33	95	47	42	51	364	78	63	52	45	40
11	60	33	55	46	41	120	168	82	66	50	46	44
12	52	32	50	46	44	53	248	68	63	52	51	44
13	47	50	69	45	44	84	109	63	57	52	48	43
14	77	48	50	91	40	327	80	62	57	54	45	51
15	91	37	61	49	42	126	75	86	57	57	44	41
16	67	49	45	45	67	77	78	103	56	56	60	42
17	65	54	73	45	44	80	79	67	54	53	46	42
18	40	114	51	44	40	58	71	62	54	49	44	41
19	37	172	45	44	40	53	99	61	54	49	43	46
20	36	48	44	43	40	81	106	66	68	48	42	42
21	35	64	43	44	39	383	76	61	57	48	43	40
22	35	43	42	43	56	907	76	59	56	47	93	39
23	35	41	54	77	62	164	95	64	56	47	64	53
24	34	40	54	63	43	74	81	61	55	47	46	44
25	34	37	44	95	76	94	77	76	57	46	44	41
26	33	36	43	68	44	65	141	59	58	46	62	39
27	33	33	41	49	378	60	88	92	55	47	45	39
28	33	109	49	45	108	84	72	100	77	53	48	39
29	32	301	41	62	65	158	68	76	69	46	43	39
30	32	85	42	53	---	233	66	159	71	46	42	47
31	33	---	42	49	---	131	---	99	---	50	42	---
TOTAL	1,272	1,764	2,409	2,389	1,902	4,165	3,237	2,634	1,871	1,642	1,645	1,262
MEAN	41.0	58.8	77.7	77.1	65.6	134	108	85.0	62.4	53.0	53.1	42.1
MAX	91	301	320	346	378	907	364	269	81	76	125	53
MIN	31	32	41	43	39	50	58	59	54	46	42	39
AC-FT	2,520	3,500	4,780	4,740	3,770	8,260	6,420	5,220	3,710	3,260	3,260	2,500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2004, BY WATER YEAR (WY)

MEAN	66.7	79.9	71.3	75.2	67.5	87.7	88.5	76.0	69.2	82.5	74.1	67.7
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)

HAWAII, ISLAND OF MAUI

16614000 WAIHEE RIVER AT DAM NEAR WAIHEE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1984 - 2004	
ANNUAL TOTAL	18,990		26,192			
ANNUAL MEAN	52.0		71.6		76.4	
HIGHEST ANNUAL MEAN					106	1994
LOWEST ANNUAL MEAN					50.6	2003
HIGHEST DAILY MEAN	417	Feb 14	907	Mar 22	1,160	Jan 28, 1988
LOWEST DAILY MEAN	28	Jun 8	31	Oct 10	22	Jan 18, 1985
ANNUAL SEVEN-DAY MINIMUM	28	Jun 5	33	Oct 1	23	Jan 18, 1985
ANNUAL RUNOFF (AC-FT)	37,670		51,950		55,320	
10 PERCENT EXCEEDS	76		107		128	
50 PERCENT EXCEEDS	40		54		54	
90 PERCENT EXCEEDS	32		37		38	

e Estimated