16614000 Waihee River above Waihee Ditch intake near Waihee, Maui, HI

LOCATION.--Lat 20°56'09.1", long 156°32'48.6" referenced to North American Datum of 1983, Maui County, HI, Hydrologic Unit 20020000, On right bank 150 ft above Waihee Ditch intake, and 2.7 mi southwest from Waihee Point, and 4.3 mi northwest from Wailuku Post Office.

DRAINAGE AREA.--4.27 mi^2, from automated delineation using 10-meter National Elevation Dataset digital elevation model data dated September 2006 and Watershed Boundary Dataset dated May 2008, using UTM Zone 4 projection, NAD 83 horizontal datum.

SURFACE-WATER RECORDS

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 relocated 500 ft downstream at a different datum in September 2005. Previous location published as "at dam near Waihee".

REVISED RECORDS.--WDR HI-2006-1: 1995(m), 1995. WDR HI-10-1: Drainage Area. WDR HI-11-1: 2010(P).

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above mean sea level (from topographic map).

REMARKS.--Records computed by James W Nelson and Casey J Rita. Records fair. No diversion upstream of station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--28 years (water years 1985-2012), 70.4 ft^3/s (50,970 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,660 ft^3/s, January 28, 1988, gage height, 8.95 ft, site and datum then in use, from rating curve extended above 280 ft^3/s on basis of slope-area measurements at gage heights 6.70 ft and 8.95 ft; minimum, 22 ft^3/s January 18-22, 24-25, 1985.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 8	1230	3,200	5.60
Mar 9	0200	*3,290	*5.66
Mar 25	0515	2,070	4.67

Minimum discharge, 28 ft^3/s, Mar. 16, 17.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 16614000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/16614000.2012.pdf

16614000 Waihee River above Waihee Ditch intake near Waihee, Maui, HI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	48	40	40	e33	31	36	39	44	89	48	45	42
2	35	34	56	e31	32	126	38	45	42	43	44	57
3	34	36	37	e32	31	84	39	68	38	79	43	42
4	42	80	36	e33	30	76	39	122	52	48	43	40
5	33	32	44	e31	30	53	39	55	58	60	53	73
6	36	31	35	e30	30	50	57	68	48	57	49	89
7	33	31	43	e31	60	181	55	72	40	67	41	67
8	40	41	37	e32	34	911	46	70	68	107	55	211
9	38	58	44	e33	31	284	103	42	40	51	82	50
10	33	75	84	e34	32	57	104	41	48	46	46	43
11	34	146	175	35	32	46	81	38	37	42	59	43
12	35	214	67	34	68	225	44	37	118	70	50	57
13	33	45	59	34	46	46	41	36	88	101	47	47
14	64	36	55	33	32	37	40	36	42	45	50	48
15	194	33	45	35	31	30	43	35	37	57	43	68
16	54	32	40	38	32	29	40	35	37	68	49	47
17	35	33	65	33	33	29	40	37	36	96	49	48
18	33	32	52	33	46	44	40	36	35	58	49	53
19	32	33	69	33	52	43	40	36	128	64	91	61
20	31	35	269	33	33	29	55	63	402	44	167	60
21	32	32	113	33	35	71	43	39	98	42	52	42
22	45	43	112	33	40	40	50	36	58	65	55	49
23	39	69	68	33	70	35	136	38	210	45	143	275
24	32	34	77	32	37	235	44	42	52	57	46	192
25	33	32	48	32	47	605	47	43	85	44	42	57
26	32	140	44	32	42	81	54	54	63	41	43	82
27	32	62	45	32	39	55	123	87	63	81	84	71
28	33	34	41	32	61	41	54	41	224	90	76	59
29	63	41	48	38	62	39	47	39	58	163	82	52
30	38	35	37	32	---	41	47	43	46	149	56	45
31	172	---	36	33	---	39	---	65	---	55	45	---
Total	1,468	1,619	2,021	1,023	1,179	3,698	1,668	1,543	2,440	2,083	1,879	2,170
Mean	47.4	54.0	65.2	33.0	40.7	119	55.6	49.8	81.3	67.2	60.6	72.3
Max	194	214	269	38	70	911	136	122	402	163	167	275
Min	31	31	35	30	30	29	38	35	35	41	41	40
Med	35	35	48	33	34	46	45	42	55	57	49	55
Ac-ft	2,910	3,210	4,010	2,030	2,340	7,330	3,310	3,060	4,840	4,130	3,730	4,300

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	63.1	74.9	68.0	67.7	64.5	81.4	79.1	68.5	64.1	75.3	69.1	63.6
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	38.6	38.2	29.1	36.7	35.8	42.1	42.8	32.9
(WY)	(1985)	(1985)	(1985)	(1985)	(2011)	(2011)	(2011)	(2007)	(2003)	(2008)	(2008)	(1984)

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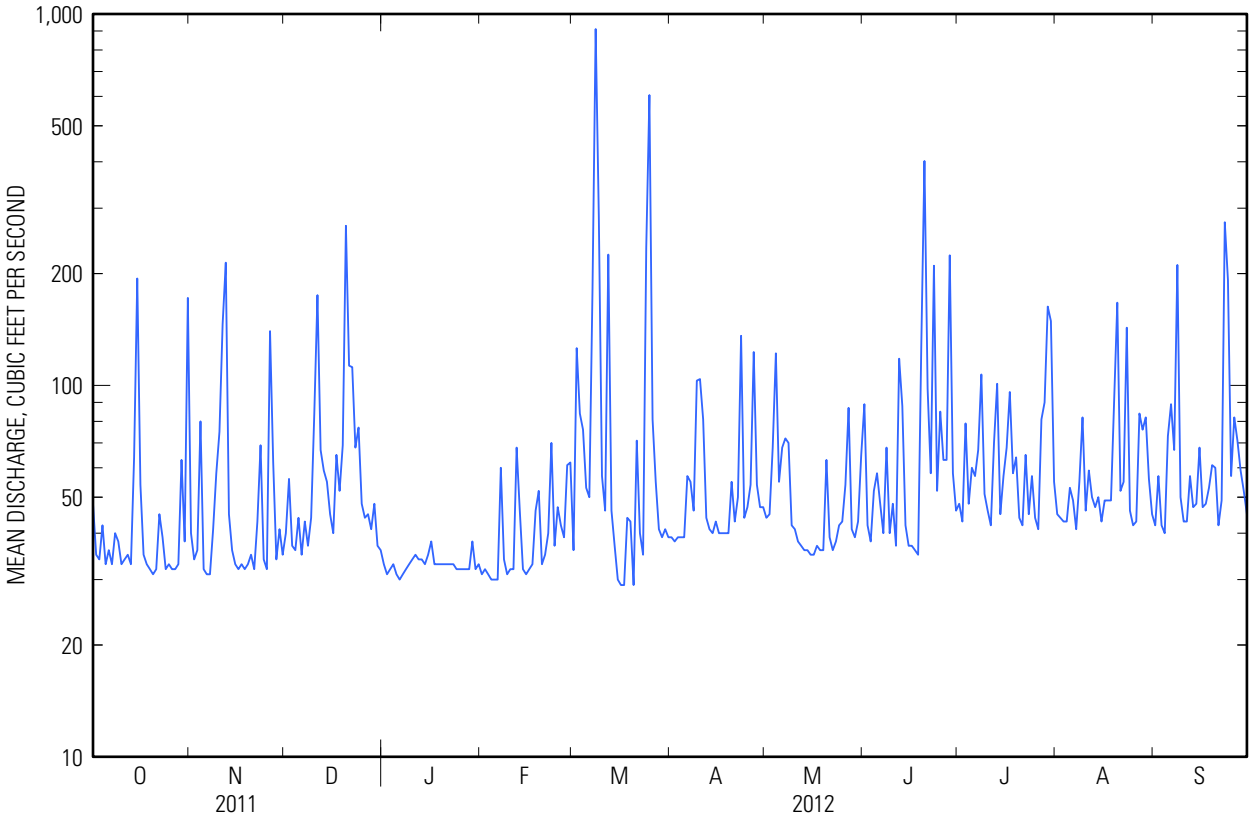
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1984 - 2012	
Annual total	17,455		22,791			
Annual mean	47.8		62.3		70.4	
Highest annual mean					106	1994
Lowest annual mean					48.6	2007
Highest daily mean	275	Jun 4	911	Mar 8	1,160	Jan 28, 1988
Lowest daily mean	27	Apr 13	29	Mar 16	22	Jan 18, 1985
Annual seven-day minimum	27	Apr 16	31	Jan 31	23	Jan 18, 1985
Annual runoff (ac-ft)	34,620		45,210		50,970	
10 percent exceeds	74		97		117	
50 percent exceeds	36		44		51	
90 percent exceeds	29		32		35