

16756100 KOHAKOHAU STREAM ABOVE DWS INTAKE, NEAR KAMUELA

LOCATION.--Lat 20°02'58", long 155°41'05", Old Hawaiian Datum, Hydrologic Unit 20010000, on right bank 200 ft upstream of Dept. of Water Supply dam and intake, 0.85 mi west of Puu Ohu, and 1.85 mi northwest of junction of Highways 19 and 190.

DRAINAGE AREA.--2.40 mi².

PERIOD OF RECORD.--June 1998 to current year.

GAGE.--Water-stage recorder. Datum of gage is 3,470 ft above mean sea level (from topographic map).

REMARKS.--Records computed by Dale Nishimoto. Records fair. Parker Ranch diverts water from Kohakohau Stream at an altitude of 4,250 ft through a 4-inch pipeline. Hawaii Dept. of Water Supply diverts water at dam 200 ft downstream for domestic use in the Kamuela and Kawaihae areas since August 20, 1973.

AVERAGE DISCHARGE.--7 years (water years 1998-2004), 11.7 ft³/s (8440 acrs-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft³/s, March 14, 2004, gage height, 8.86 ft from rating curve developed using flow-over-dam computations and high water marks at gage; minimum, 0.14 ft³/s, February 10, 2003.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 28	0215	787	6.06				
Mar 14	1230	*1,860	*8.86	Apr 10	2245	690	5.88
Mar 23	1330	618	5.62				

Minimum discharge, 0.20 ft³/s, Nov. 10, gage height, 1.38 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	0.43	0.25	3.1	0.86	9.2	21	17	2.1	3.5	1.8	0.58	0.83
2	0.39	0.24	9.5	0.70	14	33	5.3	1.8	6.6	15	2.6	0.66
3	0.37	0.24	5.7	1.1	8.4	33	4.8	3.0	3.9	5.4	20	0.55
4	0.36	0.27	16	39	3.2	12	3.0	70	6.4	2.3	3.3	0.49
5	0.38	0.24	5.4	4.3	6.3	3.5	3.5	57	15	1.9	1.5	0.52
6	0.36	0.22	2.8	2.0	12	2.2	2.7	14	4.1	1.7	1.7	0.44
7	0.35	0.22	1.8	1.4	24	2.0	2.1	54	3.7	1.5	3.9	0.40
8	0.37	0.22	19	1.1	13	40	2.5	20	14	1.3	1.6	0.38
9	0.37	0.22	19	0.92	3.5	13	2.8	3.9	14	1.2	1.2	0.36
10	0.34	0.21	9.0	0.78	2.1	3.2	192	2.5	9.8	1.2	0.91	0.36
11	0.34	0.24	9.2	0.70	1.6	1.9	376	2.0	3.6	1.5	0.74	0.41
12	0.33	0.23	3.1	0.63	1.3	1.5	271	1.8	3.3	1.2	0.62	0.37
13	0.32	0.25	4.1	0.59	1.2	21	86	1.6	2.3	1.1	0.60	0.34
14	0.34	0.40	2.8	0.73	1.0	486	13	1.7	1.9	3.4	0.62	0.36
15	0.48	0.79	2.3	0.59	0.89	89	8.4	1.5	2.0	2.4	0.53	0.33
16	7.1	19	2.0	0.51	0.95	13	6.2	34	2.0	1.6	2.8	0.34
17	7.8	5.9	2.1	0.45	1.3	7.3	136	4.0	1.7	1.3	2.7	0.36
18	1.9	4.9	9.2	0.40	0.96	3.8	88	2.1	1.6	1.2	1.2	0.43
19	1.1	47	4.1	0.35	0.79	2.6	17	1.8	1.7	1.0	0.81	0.42
20	0.85	13	2.3	0.33	0.72	2.0	12	1.6	6.7	0.87	0.68	0.36
21	0.66	4.6	1.6	0.30	0.69	1.8	4.7	1.4	7.6	0.76	1.3	0.33
22	0.55	2.8	1.3	0.29	0.61	83	3.1	1.3	18	0.76	8.4	0.31
23	0.47	1.7	1.1	3.8	0.57	166	2.7	1.3	3.8	0.66	40	0.30
24	0.42	1.2	0.96	2.4	0.56	146	3.0	1.2	3.0	0.61	2.7	0.29
25	0.37	1.1	0.87	1.9	0.57	90	5.9	2.1	2.4	0.56	1.5	0.28
26	0.33	28	0.74	25	0.50	49	45	14	1.9	0.55	1.2	0.28
27	0.31	3.6	0.66	12	0.49	7.3	24	11	1.7	0.56	1.1	0.26
28	0.29	1.8	1.1	3.9	196	6.8	4.4	9.6	2.7	0.90	0.95	0.25
29	0.28	1.3	1.8	120	7.3	18	2.6	43	3.4	1.3	1.5	0.25
30	0.26	1.4	1.7	14	---	127	2.2	15	2.3	0.80	2.1	0.25
31	0.25	---	1.1	21	---	90	---	7.4	---	0.62	1.1	---
TOTAL	28.47	141.54	145.43	262.03	313.70	1,575.9	1,346.9	387.7	154.6	56.95	110.44	11.51
MEAN	0.92	4.72	4.69	8.45	10.8	50.8	44.9	12.5	5.15	1.84	3.56	0.38
MAX	7.8	47	19	120	196	486	376	70	18	15	40	0.83
MIN	0.25	0.21	0.66	0.29	0.49	1.5	2.1	1.2	1.6	0.55	0.53	0.25
AC-FT	56	281	288	520	622	3,130	2,670	769	307	113	219	23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2004, BY WATER YEAR (WY)

MEAN	10.2	12.4	11.7	10.4	18.6	21.1	13.8	4.98	5.19	13.4	13.9	9.02
(WY)	(1999)	(2000)	(2002)	(2000)	(2002)	(1999)	(2004)	(2004)	(2002)	(2002)	(2001)	(1998)
MAX	24.6	21.5	31.3	25.4	39.8	54.8	44.9	12.5	11.7	30.5	23.8	21.7
(WY)	(2004)	(2003)	(2001)	(2001)	(2000)	(2003)	(2002)	(1999)	(1999)	(2004)	(2004)	(2004)
MIN	0.92	0.30	1.32	0.38	0.52	1.27	1.46	0.50	2.01	1.84	3.56	0.38

HAWAII, ISLAND OF HAWAII

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR	FOR 2004 WATER YEAR	WATER YEARS 1998 - 2004
ANNUAL TOTAL	2,553.85	4,535.17	
ANNUAL MEAN	7.00	12.4	
HIGHEST ANNUAL MEAN			11.7
LOWEST ANNUAL MEAN			16.4
HIGHEST DAILY MEAN	285	Sep 1	6.71
LOWEST DAILY MEAN	0.15	Feb 8	2002
ANNUAL SEVEN-DAY MINIMUM	0.16	Feb 7	Feb 8, 2003
ANNUAL RUNOFF (AC-FT)	5,070	9,000	Feb 7, 2003
10 PERCENT EXCEEDS	18	20	8,440
50 PERCENT EXCEEDS	1.6	1.8	28
90 PERCENT EXCEEDS	0.26	0.34	0.15
			2.4
			0.16
			0.37