

16604500 IAO STREAM AT KEPANIWAI PARK, NEAR WAILUKU

LOCATION.--Lat 20°53'08", long 156°32'32", Hydrologic Unit 20020000, on left bank of Maniania and Waikapu Ditch intake, 0.3 mi upstream from Kepaniwai Park, 0.5 mi downstream from Iao Valley State Park, and 2.3 mi west of Wailuku Post Office.

DRAINAGE AREA.--5.98 mi².

PERIOD OF RECORD.--May 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 780 ft above mean sea level (from topographic map).

REMARKS.--Records computed by Phillip Teeters. Records fair, above 370 cfs records poor. No appreciable diversion upstream of station.

AVERAGE DISCHARGE.--19 years (water years 1984-2002), 64.2 ft³/s (46,520 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 6,260 ft³/s, January 28, 1988, gage height, 9.0 ft, from rating curve extended above 181 ft³/s on basis of slope-area measurements at gage heights 6.48 ft and 9.0 ft; minimum, 11 ft³/s for several days in October and November 1984, May 1996, several days in October and November 1996.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge known, 7,540 ft³/s, December 3, 1950, from rating curve based on model study of site 2.3 mi downstream.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 26	1830	*4,390	*7.57	Jan 29	1145	1,360	4.39

Minimum discharge, 17 ft³/s, on several days, gage height, 0.85 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	54	60	54	109	42	25	24	19	136	43	48
2	35	36	49	60	79	37	23	23	27	94	36	30
3	31	39	40	66	56	47	22	21	23	83	33	121
4	82	103	64	43	48	59	22	24	21	54	57	89
5	63	169	67	38	44	234	21	53	18	41	63	58
6	31	107	42	37	37	252	23	e247	25	36	56	49
7	105	163	43	34	34	119	179	189	20	102	97	70
8	40	269	64	32	57	71	56	207	20	100	38	88
9	39	262	50	33	38	71	36	138	18	83	55	57
10	62	138	42	39	32	47	32	118	32	83	47	44
11	102	106	43	31	45	69	29	82	31	47	62	39
12	50	58	88	30	94	39	27	49	25	37	39	37
13	66	49	150	30	244	50	26	e237	22	33	31	35
14	37	40	85	28	159	72	24	73	25	32	29	45
15	43	35	76	27	95	79	24	47	72	39	28	71
16	79	32	63	27	65	37	30	39	31	38	27	59
17	37	30	116	58	50	223	115	33	65	65	26	43
18	38	27	87	110	44	194	37	131	71	48	43	69
19	30	25	114	90	40	89	25	152	47	84	31	35
20	40	24	76	189	39	63	25	78	28	42	30	28
21	44	23	65	118	34	51	24	45	30	146	25	26
22	31	22	45	74	32	42	49	38	62	166	24	26
23	26	22	41	52	32	36	25	35	31	111	88	25
24	22	21	38	41	122	33	32	33	41	82	76	33
25	22	20	35	55	176	33	26	28	29	70	80	35
26	21	37	33	e520	176	30	23	27	38	e204	46	22
27	119	216	32	200	69	30	40	26	81	117	43	20
28	e319	170	29	110	48	31	32	23	51	68	44	21
29	129	81	105	290	---	38	43	22	34	47	44	20
30	66	63	47	191	---	37	28	21	66	40	54	19
31	51	---	113	155	---	29	---	19	---	43	37	---
TOTAL	1942	2441	2002	2862	2098	2284	1123	2282	1103	2371	1432	1362
MEAN	62.6	81.4	64.6	92.3	74.9	73.7	37.4	73.6	36.8	76.5	46.2	45.4
MAX	319	269	150	520	244	252	179	247	81	204	97	121
MIN	21	20	29	27	32	29	21	19	18	32	24	19
AC-FT	3850	4840	3970	5680	4160	4530	2230	4530	2190	4700	2840	2700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2002, BY WATER YEAR (WY)

MEAN	51.9	70.4	63.2	69.0	56.8	76.1	80.8	62.9	57.3	69.3	60.8	48.3
MAX	103	132	103	149	108	176	230	136	110	137	97.0	133
(WY)	1984	1998	1997	1988	1994	1994	1989	1987	1998	1994	1993	1992
MIN	11.9	20.5	18.3	23.5	24.0	23.6	20.8	23.4	24.4	25.2	26.0	15.8
(WY)	1985	1985	1985	2001	2000	1998	1992	1999	1985	1984	1984	1984

HAWAII, ISLAND OF MAUI

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1983 - 2002
ANNUAL TOTAL	19465	23302	64.2
ANNUAL MEAN	53.3	63.8	93.4 41.4
HIGHEST ANNUAL MEAN			1994 1985
LOWEST ANNUAL MEAN			
HIGHEST DAILY MEAN	319	Oct 28	913 Apr 10 1986
LOWEST DAILY MEAN	16	Feb 7	11 Oct 7 1984
ANNUAL SEVEN-DAY MINIMUM	17	Jan 18	11 Oct 16 1984
ANNUAL RUNOFF (AC-FT)	38610	46220	46520
10 PERCENT EXCEEDS	105	125	132
50 PERCENT EXCEEDS	39	43	41
90 PERCENT EXCEEDS	19	24	20

e Estimated

