



Index of Surface-Water Records to December 31, 1963 Hawaii and Other Pacific Areas

**GEOLOGICAL SURVEY
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Index of Surface-Water Records to December 31, 1963 Hawaii and Other Pacific Areas

By H. P. Eisenhuth



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Index of Surface-Water Records to December 31, 1963

Hawaii and Other Pacific Areas

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INTRODUCTION

This report lists the streamflow stations in Hawaii and other Pacific areas for which records have been or are to be published in reports of the Geological Survey for periods through December 31, 1963. It supersedes Geological Survey Circular 395.

Basic data on surface-water supply of the United States prior to 1961 have been published in an annual series of water-supply papers consisting of several volumes, one of which was for Hawaii. Water-Supply Paper 1751, entitled "Surface Water Supply of Mariana, Caroline and Samoa Islands through June 1960" published data for other Pacific areas.

Beginning in 1961, the annual series of water-supply papers on surface-water supply was changed to a 5-year series. Records for the period 1961-65 will be published in a water-supply paper entitled "Surface Water Supply of Hawaii and other Pacific Areas." In order to meet interim requirements, beginning July 1, 1960, the Hawaii district issues reports annually containing streamflow records for Hawaii and other Pacific areas.

In addition to the continuous-record gaging stations, this index includes crest-stage and low-flow partial-record stations. A continuous-record station is a gaging station on a stream or reservoir for which the discharge, stage, or contents is published on a daily, weekly, or monthly basis for a continuous period of time. A crest-stage partial-record station is a streamflow station for which only the annual maximum discharge is published over a period of years for use in floodflow analyses. A low-flow partial-record station is a streamflow station for which only discharge measurements made at base flow, when streamflow is primarily from ground-water storage, are published. Measurements are generally collected over a period of five years or more for use in low-flow analyses. Discharge measurements have been made at many sites and published as miscellaneous measurements. Such measurements are not included in this index except those made in earlier years at sites now classified as low-flow partial-record stations.

An alphabetical list of streams is given on pages 21-24.

DOWNSTREAM ORDER

The stations in this index are listed in the downstream order used in the series of water-supply papers on surface-water supply of Hawaii since 1951. Starting at the headwater of each stream all stations are listed in a downstream direction. Tributary streams are indicated by indentation and are inserted between main-stem stations in the order in which they enter the main stream. To indicate the rank of any tributary on which a record is available and the stream to which it is immediately tributary, each indentation in the listing of stations represents one rank. A stream name, only, is inserted where necessary for the purpose of showing the proper rank or order of tributaries.

STATION NAMES

Station names are given in their most recently published form. Parentheses around part of a station name indicate that the enclosed word or words were used in an earlier published name of the station or as an alternate name. Parenthetical explanations are also used to indicate that a stream of a different name is the head of the main stream by use of "(head of _____ River)" and that the name of the main stream has changed by use of "(continuation of _____ River)".

STATION NUMBER

As an added means of identification, each continuous- and partial-record station has been assigned a station number. The numbers have been assigned in the same downstream order used in this index. In assigning station numbers, gaps were left to allow for new stations that may be established; hence the numbers are not consecutive. The first two digits of the complete number for each station identify the area, they are 40 for all stations in this report. The number given consists of only the essential digits of the complete number. For example, for a station with the complete number 40-0950.00, the station number shown in this index is 950.

DRAINAGE AREA

The drainage area, in square miles, is the latest figure published or otherwise available at this time.

PERIODS OF RECORD

Under "Periods of record" are three columns. The first column, "Daily or monthly figures," shows the periods of record for continuous-record gaging stations. The dates given are the calendar years in which records began or ended; breaks of less than a year are not shown. For example, if a record began in October 1923, ended in April 1932, began again in March 1933, and ended in September 1944, the period of record would be shown as 1923-44.

The second column, "Annual peaks," shows the period of record for crest-stage partial-record stations. The dates given are fiscal years for which the annual maximum is available. The fiscal year begins July 1 and ends June 30. In listing the fiscal year, only one date is shown; for example, 1952 stands for the fiscal year July 1, 1951, to June 30, 1952.

The third column "Low-flow measurements," shows the period of record for low-flow partial-record stations, the dates given are the fiscal years in which base-flow measurements were made at low-flow partial-record stations; breaks of less than two years are not shown. Prior to the 1958 water year, such measurements were published in tables headed "Miscellaneous discharge measurements" or "Discharge measurements at sites other than gaging stations." Many discharge measurements have been made at miscellaneous sites which are not listed in this index because the data collected were not sufficient to qualify the site as a low-flow partial-record station.

A date followed by only a dash shows that the station was continued in operation beyond December 31, 1963. A date followed by a period indicates discontinuance. A date followed by a semicolon indicates a break in the collection of records.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
<u>Hawaii</u>	40-				
<u>Island of Kauai</u>					
Kawaikoi Stream (head of Waimea River) near Waimea	100	a4.1	1909-16;1919-		
Waiahoali Stream near Waimea.....	110	a1.7	1909-10;1912*;1919-25..	.....	1914-18;1961-
Kauaikinana Stream near Waimea.....	120	1.17	1919-25.....	.....	1912-17;1961-
Poomau Stream (continuation of Kawaikoi Stream):					
Mohihi Stream at altitude 3,420 ft (3,500 ft), near Waimea (near Waimea).	130	a1.6	1920-26;1936-		
Kokee ditch near Waimea.....	140	-	1926-		
Mohihi Stream near Waimea.....	150	a2.2	1909-10;1911-17b.		
Waimea River at altitude 840 ft (890 ft), near Waimea (Waiahulu Stream near Waimea).	160	20.0	1916;1917;1925-		
Koae Stream at altitude 3,770 ft (3,700 ft), near Waimea.	170	3.33	1919-32;1954-		
Koae Stream near Waimea.....	180	11.7	1916-18.....	1962-.....	1916;1920-21; 1954-55;1962-
Waialae Stream (River) at altitude 3,700 ft, near Waimea.	190	a2.5	1920-32;1952-		
Waialae Stream (River) near Waimea.....	200	a3.5	1910-16.		
Waialae Stream (River) at altitude 800 ft, near Waimea.	210	8.75	1916-21.		
Kekaha ditch at Camp 1 (at intake) (at Flume No. 4), near Waimea (near Waimea).	220	-	1908-		
Kekaha ditch at siphon near Waimea.....	240	-	1910-12*.		
Kekaha ditch at Flume No. 2 (No. 3), near Waimea	250	-	1910-12*.		
Kekaha ditch below (at) tunnel 12, near Waimea..	270	-	1908-14;1916-34.		
Waimea River below Kekaha ditch intake, near Waimea.	280	45.0	1921-55.....	1956-	
Waimea ditch near Waimea.....	290	-	1911-13;1916-21.		
Waimea ditch below wasteway, near Waimea.....	291	-	1960-		
Mokihana Stream near Waimea.....	295	4.77	.....	1962-.....	1962-
Waimea River near Waimea.....	310	57.8	1910-19;1943-		
Olokele River (head of Makaweli River):					
Olokele ditch at tunnel 12, near Makaweli.....	320	-	1910-17.		
Olokele ditch at weir, near Makaweli.....	330	-	1912-17.		
Olokele River near Waimea.....	340	a4.9	1915-16.		
Halekua Stream near Waimea.....	350	a.6	1913.		
Makaweli River near Waimea.....	360	a25	1943-		
Poowaiomahaihai ditch near Waimea.....	370	-	1911-13.		
Makaweli River below Poowaiomahaihai ditch, near Waimea (near Waimea).	371	a25	1911-17.		
Waimea River at Waimea.....	380	88.0	1943-61*c.....	1943-	
Hanapepe River:					
Hiloa ditch (at Hanapepe Falls) near Eleele....	390	-	1911-12;1914-15.		
East Branch Hanapepe River at Hanapepe Falls, near Eleele.	410	-	1911-12*.		
Hanapepe ditch at Hanapepe Falls, near Eleele...	420	-	1911-12;1914-15.		
Hanapepe ditch below intake, near Eleele.....	430	-	1930-38.		
Hanapepe ditch at Koula, near Eleele.....	440	-	1910-21;1927-49.		

* Gage heights, or gage heights and discharge measurements only.

a Approximately.

b Fragmentary.

c In files of district office.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued	40-				
Island of Kauai--Continued					
Hanapepe River--Continued					
Hanapepe ditch below makai siphon, near Eleele..	450	-	1929-32.		
Hanapepe ditch at weir, near Hanapepe.....	460	-	1912-13;1915-17.		
Hanapepe River at Koula, near Eleele.....	470	12.6	1910-16.		
Manuahi Stream at Koula, near Eleele.....	480	5.44	1917-20.		
Hanapepe River below Manuahi Stream (at Koula), near Eleele.	490	18.8	1917-21;1926-		
"G" ditch at makai siphon, near Eleele.....	500	-	1929-32.		
Hanapepe River at makai siphon, near Eleele.....	510	20.5	1929-32.		
Hanapepe River at Hanapepe.....	520	26.9	1949-60*c.....	1961-	
Lawai Stream near Koloa.....	525	6.60	1963-.....	1962-63.	
Kamooloa Stream (head of Huleia Stream) near Koloa	530	a1.3	1939-41.		
Papuaa Stream:					
Upper Haiku ditch near Puh1.....	534	-	1963-		
Lower Haiku ditch near Puh1.....	536	-	1963-		
Kamooloa Stream near Puh1.....	538	5.94	1963-		
Kula Stream near Koloa.....	540	a.4	1939-41.		
Koloe ditch near Koloe.....	542	-	1963-		
Kula Stream near Puh1.....	545	5.04	1963-		
Huleia Stream (River) near Lihue.....	550	17.6	1912-15.....	1962-	
Hanamaulu Stream (River) at Kapaia, near Lihue....	560	6.41	1911-13.		
Waiahi Stream (head of Wailua River):					
Waiahi-Kula aqueduct (Koloe ditch) near Puh1....	568	-	1963-		
Lihue ditch near Lihue.....	570	-	1910-19.		
South Fork Wailua River (continuation of Waiahi Stream):					
Hanamaulu ditch near Lihue.....	580	-	1910-19.		
South Fork Wailua River (above Waiehue Falls) near Lihue.	600	22.4	1911-		
North Fork Wailua River:					
North Wailua ditch near Lihue.....	610	-	1932-		
Stable storm ditch near Lihue.....	620	-	1936-		
North Fork Wailua River at altitude 650 ft, near Lihue.	630	a6.6	1914-		
Kanaha ditch near Lihue.....	640	-	1910-11*;1912-55.		
Uhau Oile Stream at elevation 750 ft, near Lihue	650	1.21	1912*.		
Keahua Stream at elevation 750 ft, near Lihue	660	-	1912*.		
Kawi Stream at elevation 750 ft, near Lihue.	670	.71	1912*.		
East Branch of North Fork Wailua River near Lihue.	680	a6.2	1912-		
North Fork Wailua River near Lihue.....	687	14.6	1910-14.		
Wailua ditch near Kapaa.....	690	-	1936-		
North Fork Wailua River near Kapaa.....	710	18.7	1952-		
Opaikaa Stream:					
Left Branch Opaikaa Stream near Kapaa.....	715	a.7	1960-		
Opaikaa Stream near Kapaa.....	717	6.40	.....	1962-	
Wailua River near Kapaa.....	718	52.2	.....	1962-	
Konohiki Stream at Makakuaalele (mauka) weir, near Kapaa.	720	.61	1911-13.		
Konohiki Stream at Makakuaalele (makai) weir, near Kapaa.	730	.89	1912.		
Konohiki Stream near Kapaa.....	735	2.81	.....	1962-	

North Fork Kaehulua Stream at Kainahola weir, near Kapaa.	740	-	1911-13.	
South Fork Kaehulua Stream at Wainamunamu weir, near Kapaa.	750	-	1911-13.	
Kaehulua Stream at Kuhinoa weir, near Kapaa.....	760	-	1911-13.	
Kapaa Stream:				
Makaleha Stream:				
Makaleha ditch near Kealia.....	770	-	1936-	
Kapaa Stream (River) near Kealia.....	780	3.05	1910-20.	
Kapahi ditch near Kealia.....	790	-	1909-14;1915-	
Tunnel ditch at Kapahi, near Kapaa.....	792	-	1909-11.	
Pipe ditch at Kapahi, near Kapaa.....	794	-	1909-11.	
Kapaa ditch at Kapahi, near Kapaa.....	796	-	1909-11.	
Kapaa Stream (River) at Kapahi ditch intake, near Kapaa.	800	a3.3	1936.	
Akulikuli Spring at weir, near Kapaa.....	810	-	1911-13.	
Kealia Stream:				
Kaneha ditch (at Kaneha) (at weir) near Kealia	820	-	1909-13.	
Kapaa Stream at old highway crossing, near Kealia.	845	13.2	.....	1962-
Anahola River at elevation 1,140 ft, near Kealia..	859	-	1912*.	
Anahola ditch above wasteway (Kaneha Reservoir), near Kealia.	860	-	1915-21.	
Anahola ditch wasteway near Kealia.....	870	-	1936-	
Anahola ditch above Kaneha Reservoir, near Kealia.	880	-	1922-	
Anahola Stream (River above dam at Kiokala) near Kealia.	890	a5.5	1910b;1912-	
Lower Anahola (Anahola) ditch at Kiokala, near Kealia.	900	-	1909-14.	
Lower Anahola ditch near Kealia.....	910	-	1936-	
Lower Anahola (Anahola) ditch at makai weir, near Kealia.	920	-	1909-10.	
Anahola Stream (River above dam) at Kiokala Dam, near Kealia.	930	a5.5	1910-11;1912*.	
Anahola Stream at Anahola.....	932	9.89	.....	1962-
Puu Ka Ele Stream (head of Kilauea Stream):				
Ka Loko ditch near Kilauea.....	942	-	1932-	
Puu Ka Ele ditch near Kilauea.....	950	-	1932-	
Ross ditch near Kilauea.....	952	-	1956-	
Pohakuhonu Stream (head of Kahiliholo Stream):				
Kalihiwai ditch above wasteway, near Kilauea....	959	-	1960-	
Kalihiwai ditch near Kilauea.....	960	-	1934-	
Pohakuhonu Stream near Kilauea.....	970	a1.8	1957-	
Halaulani Stream near Kilauea.....	973	.15	1922-25.	
Halaulani Stream at altitude 400 ft, near Kilauea.	975	a1.1	1957-	
Kalihiwai River near Hanalei.....	980	3.34	1914-23.	
Kalihiwai River near Kilauea.....	990	3.92	1912-13.	
Hanalei ditch near Kilauea.....	995	-	1956-62.	
Hanalei River:				
Hanalei tunnel outlet near Lihue.....	1000	-	1932-	
Hanalei River at altitude 625 ft, near Hanalei....	1010	a7.4	1914-55.	
China ditch near Hanalei.....	1020	-	1912-19.	
Hanalei River near Hanalei.....	1030	19.1	1912-19;1962-.....	1962.
Kuna ditch near Hanalei.....	1040	-	1912-13;1916-19.	

* Gage heights, or gage heights and discharge measurements only.

a Approximately.

b Fragmentary.

c In files of district office.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued					
Island of Kauai--Continued					
Hanalei River at Belt Road Bridge, near Hanalei...	1042	21.0	.....	1962-	
Waioli Stream near Hanalei.....	1050	a1.5	1914-32.		
Lumaha'i River near Hanalei.....	1060	a7.5	1914-17;1920-33.		
Lumaha'i River near Wainiha.....	1070	-	1912*.		
Wainiha River near Hanalei.....	1080	10.2	1952-56;1957-		
Wainiha River above intake near Hanalei (near Wainiha).	1090	11.4	1914-16.		
Wainiha Canal at intake, near Wainiha.....	1100	-	1910-16.		
Wainiha Canal at tunnel 18, near Wainiha.....	1110	-	1911.		
Wainiha Canal at tailrace, near Wainiha.....	1120	-	1911.		
Wainiha River near Wainiha.....	1130	14.7	1912-16.		
Hanakapia'i Stream near Hanalei.....	1150	a2.6	1931-52.		
Hanakoa Stream near Hanalei.....	1160	a1.1	1931-52.		
Kalalau Stream near Hanalei.....	1170	a1.6	1931-55.		
Nahomalu Stream near Mana.....	1300	3.74	1963-.....	1962-63.	
Hoea Stream near Kekaha.....	1400	7.58	.....	1962-	
Island of Oahu					
Left Branch of North Fork Kaukonahua Stream near Wahiawa.	2000	1.38	1913-53;1960-		
Right Branch of North Fork Kaukonahua Stream near Wahiawa.	2010	a1.2	1913-53.....	.....	1960-
North Fork Kaukonahua Stream:					
Mauka (Kaukonahua) ditch near Wahiawa.....	2030	-	1947-		
North Fork Kaukonahua Stream near Wahiawa.....	2040	4.86	1946-		
South Fork Kaukonahua Stream near Wahiawa (above United States Army reservoir).	2060	1.93	1913-17;1944-57.		
Koolau (United States Army) ditch at reservoir, near Wahiawa.	2065	-	1914-15.		
South Fork Kaukonahua Stream below United States Army reservoir, near Wahiawa.	2070	a4.0	1914-17.		
South Fork Kaukonahua Stream at East Pump Reservoir, near Wahiawa.	2080	4.04	1957-		
Right Branch of South Fork Kaukonahua Stream near Wahiawa.	2085	.86	1957-		
South Fork Kaukonahua Stream above Wahiawa Reservoir, near Wahiawa.	2090	a5.2	1946-58.		
Poamoho Stream:					
Poamoho tunnel near Wahiawa.....	2109	-	1958-		
Poamoho Stream near Wahiawa.....	2110	1.79	1947-		
Makaleha Stream near Waialua.....	2113	4.24	.....	1958-	
Makua Stream at Makua.....	2115	4.07	.....	1958-	
Makaha Stream near Makaha.....	2116	2.13	1959-		
Kaupuni Stream at altitude 374 ft (360 ft), near Waianae.	2118	3.27	1960-		
Puea mauka ditch near Waianae.....	2118.5	-	1960-		
Kaupuni Stream near Waianae.....	2119	4.39	.....	1958-60.	
Puhawai Stream at Lualualei, near Waianae.....	2120	a.6	1930-44.		
Maililili Stream near Waianae (at Lualualei Naval Reservation).	2122	1.76	.....	1958-	
Awanui Stream near Barbers Point Naval Air Station	2124	1.16	.....	1958.	
Awanui Stream at Gilbert, near Barbers Point Lighthouse.	2124.01	2.64	.....	1959-	

Drain "A" at Campbell Industrial Park, at Barbers Point Lighthouse.	2124.09	.23	.....	1961-
Honouliuli Stream near Waipahu.....	2125	11.0	.....	1955-
Waikele Stream at Schofield Barracks.....	2126	5.05	.....	1958-
Waikele Stream at Wheeler Field.....	2126.01	5.93	.....	1958-
Waikakalaua Stream near Wahiawa.....	2127	7.14	.....	1958-
Kipapa Stream near Wahiawa.....	2128	4.29	1957-	
Waikele Stream at Waipahu.....	2130	45.7	1951b;1952-	
Pearl Harbor Springs at Waiawa, near Pearl City...	2140	-	1931-34;1937-	
Morikone Pond Outlet at Pearl City.....	2150	-	1951-60.	
Waiawa Stream near Pearl City.....	2160	26.4	1952-	
Waimano flood channel at Pearl City.....	2165	2.59	.....	1955-
Pearl Harbor Springs at Puukapu, near Pearl City..	2170	-	1931-48.	
Pearl Harbor Springs at Loko Kukona, near Pearl City.	2180	-	1931-45.	
Pearl Harbor Springs at Kaluaoopu, near Pearl City	2185	-	1931-37;1952-53.	
Hawaiian Electric Co. tunnel at Waiiau, near Pearl City.	2190	-	1939-45;1952-	
Pearl Harbor Springs at Waiiau, near Pearl City....	2220	-	1931-39;1943-46.	
Waimalu Stream near Aiea.....	2230	6.07	1952-	
Pearl Harbor Springs at Kalauao, near Aiea.....	2240	-	1931-	
Kalauao Stream at Moanalua Road, at Aiea.....	2245	2.59	1957-	
Kalauao Stream at Aiea.....	2250	2.61	1953-57.	
North Halawa Stream (head of Halawa Stream) near Aiea.	2260	3.45	1929-33;1953-	
Halawa Stream near Aiea.....	2270	8.78	1953-62.	
Moanalua Stream near Honolulu.....	2280	2.73	1926-	
Moanalua Stream at altitude 100 ft., near Honolulu.	2285	4.16	.....	1958-
Kalihi Stream near Honolulu.....	2290	2.61	1913-	
Kalihi Stream at Kalihi.....	2293	5.24	1962-.....	1962-
Nuuanu Stream:				
Lulumahu Stream:				
Lulumahu ditch at upper Nuuanu Reservoir, near Honolulu.	2300	-	1911-13.	
(Nuuanu Stream at) Luakaha weir in upper Nuuanu Valley, near Honolulu.	2310	-	1910-13.	
Moole Stream:				
Moole ditch, mauka station, near Honolulu.....	2315	-	1917-20.	
Moole ditch, makai station, near Honolulu.....	2317	-	1918-23.	
Nuuanu Stream below reservoir 2 wasteway, near Honolulu.	2320	3.35	1913-	
Nuuanu Stream at Kuakini Street, near Honolulu....	2350	4.39	1911-12.	
Nuuanu Stream above Waolani Stream (confluence), at Honolulu.	2351	4.48	.....	1961-
Waolani Stream at Honolulu.....	2354	1.28	.....	1958-
Waolani Stream at mouth, at Honolulu.....	2356	1.70	.....	1961-
Pauoa Stream:				
Kahuawai Spring near Honolulu (at upper Pauoa Valley).	2360	-	1912-14.	
Pauoa Stream at upper Pauoa Valley, near Honolulu	2370	.79	1911-13.	
Pauoa Stream at Lusitana Street, at Honolulu....	2375	1.52	.....	1958-
East Branch Manoa Stream:				
East Manoa ditch near Honolulu.....	2380	-	1915-16;1918-21;1925-39.	
East Branch Manoa Stream near Honolulu.....	2390	1.06	1913-21;1925-	
West Branch Manoa Stream near Honolulu.....	2400	1.14	1913-21;1925-	

* Gage heights, or gage heights and discharge measurements only.

a Approximately.

b Fragmentary.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued	40-				
Island of Oahu--Continued					
Manoa Stream at upper Manoa Valley, near Honolulu.	2410	2.62	1910-13.		
Manoa Stream at College of Hawaii, near Honolulu..	2420	4.99	1909-10;1912-18.		
Manoa Stream at Wai'alae Road, near Honolulu.....	2430	-	1910-12.		
Pukele Stream (head of Palolo Stream) near Honolulu.	2440	1.18	1926-		
Waiomao Stream at upper Palolo Valley, (at 950-foot elevation, 900-foot elevation), near Honolulu.	2450	.35	1911-13.		
Waiomao Stream above Pukele Stream, near Honolulu.	2460	1.04	1911-12;1926-		
Palolo Stream near Honolulu.....	2470	3.63	1952-		
Waialaenui Gulch at Honolulu.....	2472	1.75	.....	1958-	
Wailupe Gulch at Aina Haina.....	2475	2.35	.....	1958-	
Kuliouou Stream at Kuliouou.....	2479	1.21	.....	1959-62.	
Pump ditch near Waimanalo.....	2480	-	1912*.		
Unnamed Stream (tributary to Pacific Ocean) at Waimanalo.	2488	1.21	.....	1958-	
Waimanalo Stream:					
Waimanalo ditch below main reservoir, near Waimanalo.	2490	-	1912-13.		
Maunawili (Kaimi) Stream near Waimanalo.....	2492	1.28	1912-16.		
Makawao Stream:					
Main Spring near Kailua.....	2494	-	1914-16.		
Makawao Spring near Kailua.....	2496	-	1914-16.		
Makawao ditch (flume) near Kailua (Waimanalo).	2498	-	1912*;1913-15.		
Maunawili ditch near Waimanalo.....	2500	-	1954-		
Makawao Stream near Kailua.....	2540	2.04	1912-16;1958-		
Omao Stream:					
Kamakalepo Stream near Kailua (Waimanalo)....	2560	.82	1912*;1913-16.		
Pohakea Stream near Kailua (Waimanalo).....	2570	.21	1912-14.		
Maunawili (Kailua) Stream above Wong Leong's ditch, near Kailua.	2580	a4.6	1922-23.		
Maunawili (Kailua) Stream near Kailua (Waimanalo).	2600	a4.6	1912*;1913-16.		
Maunawili Stream above Kailua Road, near Kailua...	2605	5.62	.....	1958-.....	1960-
North Branch Kahanaiki Stream near Kailua.....	2610	.34	1913-14.		
South Branch Kahanaiki Stream in Kailua Valley, near Kailua.	2620	-	1913-14.		
Kahanaiki Stream near Kailua (Waimanalo).....	2630	.58	1912*;1914-16.		
Kahanaiki Stream at Kailua Road, near Kailua....	2641	1.45	.....	.....	1960-
Kawainui Swamp drainage canal at Kailua Road, at Kailua.	2644	-	.....	1962-	
Kawainui Swamp drainage canal at Wanaao Road, at Kailua.	2645	-	.....	1962-	
Kaelepulu Stream:					
Kaelepulu Stream tributary at Kailua.....	2646	.16	.....	1963-	
Kaelepulu Stream at Lihiwai Road, at Lanikai....	2647	-	.....	1962.	
Kawainui Canal at Kailua.....	2648	-	.....	1962-	
Kawa Stream near Kaneohe.....	2650	1.13	1914-16.		
Kamooalii (Kaneohe) Stream near Kaneohe.....	2660	1.48	1914-16.		
Hooileinaiva Stream near Kaneohe.....	2670	.61	1914-16.		
Piho Stream near Kaneohe.....	2680	.43	1914-16.		
Kuou ditch near Kaneohe.....	2690	-	1914-16.		
Kuou Stream near Kaneohe.....	2700	.37	1914-16.		

Luluku Stream at altitude 220 ft (200 ft), near Kaneohe.	2709	.45	.....	.....	1960-
North Luluku ditch near Kaneohe.....	2710	-	1914-16.		
Luluku Stream near Kaneohe.....	2720	.46	1914-16.		
Young Mau ditch near Kaneohe.....	2730	-	1914-16.		
Kamooalii Stream at Kaneohe.....	2739	4.38	1959-		
Ahlo ditch near Kaneohe.....	2740	-	1914-16.		
Keaahala Stream at Kamehameha Highway, at Kaneohe.	2744.99	.59	.....	1958-.....	1961-
Keaahala Stream at Kaneohe.....	2745	.79	.....	1958.	
Haiku Stream (head of Heeia Stream) near Heeia....	2750	.97	1914-19;1939-		
Reservoir ditch near Heeia.....	2760	-	1914-16.		
Waipio ditch near Heeia.....	2770	-	1914-16.		
Iolekaa Stream mauka near Heeia.....	2780	.28	1940-		
Iolekaa Stream near Heeia.....	2790	.52	1914-16.		
Heeia Stream:					
Wing Wo Tai ditch near Heeia.....	2800	-	1914-16.		
Hop Tuck ditch near Heeia.....	2810	-	1914-16.		
Lee ditch near Heeia.....	2820	-	1914-16.		
Kahaluu Stream:					
Ahuimanu Stream near Kahaluu.....	2825	2.25	.....	.....	1960-
Kahaluu Stream near Heeia.....	2830	.28	1935-		
Kahaluu Stream left bank tributary near Kahaluu.	2831	.12	.....	.....	1960-
Kahaluu Stream near Kahaluu.....	2834	1.36	.....	.....	1962-
Kahaluu Stream at Kahaluu.....	2835	3.70	.....	1960-62.	
South Fork Waihee Stream near Heeia.....	2836	.03	1962-		
North Fork Waihee Stream near Heeia.....	2837	.03	1962-		
Waihee Stream at altitude 260 ft (280 ft), near Heeia.	2838	.31	1961-		
Waihee Stream near Heeia.....	2840	.93	1935-		
Waihee Stream above Kahaluu Stream, near Kahaluu	2845	2.24	.....	.....	1960-
Waiahole tunnel at Waianu, near Waiahole.....	2850	-	1950-		
Waiahole tunnel wasteway at intake 31, near Waiahole.	2860	-	1951-		
Waiahole tunnel at north portal, near Waiahole....	2870	-	1951-		
Waiahole tunnel at adit 8, near Waipahu.....	2872	-	1916-55d;1956-		
Halona Stream near Waikane.....	2880	-	1911.		
Waihi Stream near Waikane.....	2890	-	1911.		
Waiahole Stream below powerhouse, near Waiahole...	2900	.46	1914*;1915;1916*.		
Waiahole Stream at altitude 250 ft, near Waiahole.	2910	.99	1955-		
Waiahole Stream near Waiahole (at Manianiaula, near Waikane).	2920	1.22	1911-16.		
Waianu Stream near Waikane.....	2930	-	1911.		
Waianu Stream at Waiahole.....	2931	1.65	.....	.....	1959-
Waiahole Stream at Waiahole, near Waikane.....	2940	a3.6	1911-12.		
Waikane Stream at altitude 75 ft, near Waikane....	2949	2.22	1959-		
Waikane Stream near Waikane.....	2950	-	1912*.		
Waikane Stream at Waikane.....	2952	2.60	.....	1958-60.	
Makaua Stream at Kaaawa.....	2959	.53	.....	1958-62.	
Kahana Stream at mauka trail crossing, near Kahana	2959.95	3.21	.....	.....	1960-
Kahana Stream near Kahana.....	2960	-	1914-17.		
Kahana Stream at altitude 30 ft, near Kahana.....	2965	3.74	1958-		
East Branch Kahana Stream near Kahana.....	2970	a1.8	1914-17.		
Punaluu Stream near Hauula.....	2980	-	1906-7.		
Punaluu Stream at elevation 539 ft, near Punaluu..	2990	.98	1915-18.		
Waihoi Stream near Punaluu.....	3000	a.5	1915-17.		

* Gage heights, or gage heights and discharge measurements only.

a Approximately.

d In files of Waiahole Water Co.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued					
Island of Oahu--Continued					
Punaluu Stream at elevation 250 ft, near Punaluu..	3010	2.78	1914-18.		
Punaluu ditch near Punaluu.....	3020	-	1953-		
Punaluu Stream near Punaluu.....	3030	2.78	1953-		
Kaluuanui Stream near Hauula.....	3040	a.5	1915-17.		
Kaluuanui Stream at altitude 30 ft, near Hauula....	3045	2.12	.....	1958-	
Kaipapau Stream near Hauula.....	3050	-	1906-7.		
Koloa Gulch (Stream) near Laie.....	3060	a.9	1914-18.		
Wailele Gulch (Stream) near Laie.....	3070	a.5	1914-15;1916-18.		
East Branch Kahawainui Stream near Laie.....	3080	.53	1914-18.		
Malaekahana Stream near Laie.....	3089.9	.64	1963-		
East Branch Malaekahana Stream near Kahuku.....	3090	1.66	1914-18.		
Middle Branch Malaekahana Stream near Kahuku....	3100	.69	1914-18.		
Malaekahana Stream at altitude 70 ft, near Kahuku.	3105	2.94	.....	1958.	
Malaekahana Stream at altitude 30 ft, near Kahuku.	3105.01	3.80	.....	1959-	
Oio Stream near Kahuku.....	3110	2.22	.....	1958-	
Waimea Stream:					
Kamananui Stream at Pupukea Military Road, near Maunawai.	3250	3.13	1963-.....	.....	1960-63.
Kamananui Stream at Maunawai.....	3300	9.79	1958-		
Kawainui Stream above Kamananui ditch, near Wahiawa.	3350	4.74	.....	.....	1961-
Anahulu River near Haleiwa.....	3400	11.9	.....	1958-	
Paukauila Stream:					
Opaeula Stream near Wahiawa.....	3450	2.98	1959-		
Opaeula Stream near Haleiwa.....	3500	5.96	.....	1958-	
Island of Molokai					
Halawa Stream near Halawa.....	4000	4.62	1917-32;1937-		
Papalaua Stream near Pukoo.....	4010	a2.0	1919-29.		
Pulena Stream (head of Wailau Stream) near Wailau.	4020	4.38	1919-28;1937-57.		
Waiakeakua Stream near Wailau.....	4030	1.41	1919-29;1937-57.		
Pelekunu Stream near Pelekunu.....	4040	2.62	1919-29;1937-57.		
Lanipuni Stream near Pelekunu.....	4050	1.09	1919-29;1937-57.		
Waikolu Stream at altitude 900 ft, near Kalaupapa.	4055	1.99	1956-61;1962-		
Waikolu Stream at elevation 650 ft, near Kalaupapa	4060	2.99	1920-23.		
Waikolu Stream below (at) pipeline crossing, near Kalaupapa.	4080	3.68	1919-32;1937-		
Waihanau Stream near Kalaupapa.....	4090	1.18	1930-32.		
Keolewa Stream near Kalae.....	4100	.18	1940-44.		
Waialala Springs near Kalae.....	4110	-	1940-60.		
Kakaako Gulch at Highway 46, near Mauna Loa.....	4113	.55	.....	1963-	
Kakaako Gulch above Kamakahi Gulch, near Mauna Loa	4113.2	1.40	.....	1963-	
Kakaako Gulch near Mauna Loa.....	4114	5.34	1963-		
Kaunalu Gulch near Mauna Loa.....	4116	.28	.....	1963-	
Kaluapeelua Gulch at Hoolehua.....	4118	1.46	.....	1963-	
Kaluapeelua Gulch tributary near Molokai Airport	4119	1.56	.....	1963-	
Manawainui Gulch:					
Waikalae Gulch:					
Waianui Gulch:					
Mokomoko Gulch (Makaeleele Stream) near Kalae.	4120	.23	1940-45.		
Kapuna Stream near Kalae.....	4130	.18	1940-49.		
Kaunakakai Gulch (Stream) at Kaunakakai.....	4140	6.57	1949-		

Kawela Gulch:				
(Right Branch of) East Fork Kawela Gulch	4150	.45	1946-	
(Stream) near Kamalo.				
Wawai Gulch at Kamalo.....	4154	2.12	.....	1963-
Punaula Gulch (Stream) near Pukoo.....	4160	.24	1947-	
Pohakupili Gulch near Halawa.....	4190	.48	.....	1963-
Papio Gulch at Halawa.....	4195	.94	1963-	
<u>Island of Maui</u>				
Kepuni Gulch near Kahikinui House.....	5001	1.91	1963-	
Kukuiula Gulch near Kipahulu.....	5008	.76	.....	1963-
Palikea Stream (head of Oheo Gulch) below diversion dam (Oheo Stream at elevation 1,550 ft, below diversion dam), near Kipahulu.	5010	6.29	1927-29; 1931-	
Hahalawe Gulch (Right Branch Hahalawe Stream, Kahalawe Stream) near Kipahulu.	5020	.43	1927-	
Pukuilua Gulch near Hana.....	5024	.48	.....	1963-
Moomoonui Gulch at Hana.....	5028	.90	.....	1963-
Hana flume:				
Kaeleku flume near Kaeleku.....	5030	-	1940-45.	
Hana flume near Hana.....	5040	-	1940-45.	
Makapipi Stream:				
Makapipi ditch near Nahiku.....	5060	-	1948-	
West Makapipi Spring near Nahiku.....	5065	-	1932-45.	
Makapipi Stream near Nahiku.....	5070	1.93	1932-45.	
Hanawi Stream near Nahiku.....	5080	3.49	1914-16; 1921-	
Hanawi Stream below Government Road, near Nahiku..	5090	5.03	1932-47.	
Kapaula Gulch (Stream) near Nahiku.....	5100	.69	1921-63.	
Kapaula Gulch (Stream) below Government Road, near Nahiku.	5110	.93	1932-47.	
Koolau ditch at Nahiku weir, near Nahiku.....	5120	-	1919-	
Waiaaka Stream near Nahiku.....	5130	.10	1932-47.	
Paakea Gulch (Stream) near Nahiku.....	5140	.34	1932-47.	
Walohue Gulch (Stream) near Nahiku.....	5150	.32	1921-63.	
(West) Kopiliula Stream near Keanae.....	5160	4.31	1914-17; 1921-	
East Wailuaiki Stream near Keanae.....	5170	3.11	1913-17; 1921*; 1922-58.	
West Wailuaiki Stream near Keanae.....	5180	3.66	1914-17; 1921-	
West Wailuanui Stream near Keanae.....	5190	1.93	1913-17; 1922-57.	
East Wailuanui Stream near Keanae.....	5200	.51	1914-17; 1921-58.	
Wailuanui Stream near Keanae.....	5210	2.51	1932-36; 1938-47.	
Palauhulu Stream:				
Taro patch feeder ditch at Keanae.....	5220	-	1934-	
Koolau ditch near Keanae.....	5230	-	1910-12; 1917-	
Honomanu Stream at Haiku-uka boundary, near Kailiili.	5240	2.54	1919-27; 1932-34; 1962-	
Seventh Branch Honomanu Stream at Haiku-uka boundary, near Kailiili.	5250	a.3	1932-33.	
Fourth Branch Honomanu Stream at Haiku-uka boundary, near Kailiili.	5260	a.1	1932-33.	
Honomanu Stream near Keanae.....	5270	3.17	1913-	
Spreckels ditch at station 1, near Huelo.....	5280	-	1910-13.	
Spreckels ditch at station 2, near Huelo.....	5290	-	1911-13.	
Spreckels ditch at station 3, near Huelo.....	5300	-	1910-13.	
Haipuaena Stream:				
Kula diversion from Haipuaena Stream, near Olinda.	5310	-	1945-	

* Gage heights, or gage heights and discharge measurements only.
a Approximately.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued	40-				
Island of Maui--Continued					
Haipuaena Stream at Kula pipeline intake, near Olinda.	5311	0.26	1946b;1947-		
Haipuaena Stream at Haiku-uka boundary, near Kailiili.	5320	.61	1919-27;1932-34.....	.....	1962-
Thrd Branch Haipuaena Stream at Haiku-uka boundary, near Kailiili.	5330	.06	1932-33.		
First Branch Haipuaena Stream at Haiku-uka boundary, near Kailiili.	5340	.05	1932-33.		
Haipuaena diversion ditch at Kolea Gulch, near Keanae.	5350	-	1938-60.		
Haipuaena Stream above Spreckels ditch, near Huelo (near Huelo).	5360	1.16	1913-		
Haipuaena Stream near Huelo.....	5370	a1.1	1910-13.		
Spreckels ditch at Haipuaena weir (Haipuaena), near Huelo.	5380	-	1922-		
Spreckels ditch at station 4, near Huelo.....	5390	-	1910-13.		
Koolau ditch at Haipuaena, near Huelo.....	5410	-	1932-		
Manuel Luis ditch at Puohokamoa Gulch, near Huelo.	5415	-	1917-		
Puohokamoa Stream:					
East Branch Puohokamoa Stream at Haiku-uka boundary, near Kailiili.	5420	.14	1919-27;1932-33.....	.....	1963-
Middle Branch Puohokamoa Stream at Haiku-uka boundary, near Kailiili.	5430	.48	1919-27;1932-34;1962-		
West Branch Puohokamoa Stream at Haiku-uka boundary, near Kailiili.	5440	.50	1919-28;1932-34.....	.....	1962-
Puohokamoa Stream above Spreckels ditch, near Huelo (near Huelo).	5450	2.35	1913-		
Puohokamoa Stream near Huelo.....	5460	a2.6	1910-13.		
Puohokamoa intake of Koolau ditch, near Huelo...	5470	-	1922-30.		
Koolau ditch at Wahinepee, near Huelo.....	5510	-	1922-29.		
Spreckels ditch at Wahinepee, near Huelo.....	5520	-	1928-38.		
Spreckels ditch at station 5, near Huelo.....	5522	-	1911-13.		
Manuel Luis ditch west of Puohokamoa Stream, near Huelo.	5525	-	1930-35.		
Waikamoi (Waiakamoi) Stream above reservoir, at Kula pipeline intake, near Olinda.	5528	2.50	1953-		
(West Branch) Waikamoi Stream at Haiku-uka boundary, near Kailiili.	5540	3.46	1918-28;1932-34.....	.....	1963-
East Branch Waikamoi Stream at Haiku-uka boundary, near Kailiili.	5545	.07	1918-28;1932-33.....	.....	1962-
Waikamoi (Waiakamoi) Stream above Wailoa ditch, near Huelo.	5550	3.93	1922-57.		
Waikamoi Stream near Huelo.....	5560	3.98	1910-22.		
Alo Stream near Huelo.....	5570	.47	1910-57.		
Koolau ditch at Alo diversion weir, near Huelo....	5580	-	1908-11.		
Spreckels ditch at station 6, near Huelo.....	5600	-	1911-13.		
Center ditch below Kolea Reservoir, near Huelo (at Waikamoi, near Huelo).	5610	-	1918-30.		
Center ditch near Huelo.....	5620	-	1910-12.		
Kaaiea Gulch (Stream) near Huelo.....	5650	.64	1921-62.		
Spreckels ditch below Kaaiea Gulch, near Huelo....	5655	-	1917-30.		
Oopuola Stream near Huelo.....	5660	a.2	1930-57.		

Opuola Stream above Spreckels ditch crossing, near Huelo (near Huelo).	5670	.58	1910-15.		
Spreckels ditch at station 7, near Huelo.....	5675	-	1911-12.		
Spreckels ditch at station 8, near Huelo.....	5680	-	1911-13.		
Naillilihaele Stream:					
Second Branch Naillilihaele Stream at Haiku- uka boundary, near Kaillili.	5690	a.2	1932-33.		
Naillilihaele Stream near Kaillili.....	5691	.11	.....	.....	1963-
Naillilihaele Stream near Huelo.....	5700	3.58	1910-11;1913-18;1919-		
Naillilihaele Stream below New Hamakua ditch, near Huelo.	5710	a3.6	1912*.		
New Hamakua ditch at Naillilihaele weir, near Huelo	5720	-	1910-12.		
New Hamakua ditch at station No. 1, near Huelo....	5730	-	1912*.		
Kailua Stream at Haiku-uka boundary, near Kaillili	5740	a.8	1918-28;1932-34.		
Kailua Stream near Kaillili.....	5745	1.01	1963-		
Tenth Branch Kailua Stream at Haiku-uka boundary, near Kaillili.	5750	a.1	1932-33.		
Ninth Branch Kailua Stream at Haiku-uka boundary, near Kaillili.	5760	a.2	1932-33.		
East Branch Kailua Stream near Kaillili.....	5762	.35	.....	.....	1963-
Kailua Stream near Huelo.....	5770	2.41	1910-11b;1913-18;1919-58.		
New Hamakua ditch at station No. 2, near Huelo....	5780	-	1912*.		
New Hamakua ditch at station No. 3, near Huelo....	5790	-	1912*.		
New Hamakua ditch at station No. 4, near Huelo....	5795	-	1912*.		
Kailua Stream:					
Oanui Stream near Huelo.....	5800	a.9	1910-11;1913-16.		
New Hamakua ditch at station No. 5, near Huelo....	5820	-	1912*.		
Old Hamakua ditch at Kailua, near Huelo.....	5830	-	1919-22.		
Kailua Stream near Huelo (station is downstream from New Hamakua ditch crossing).	5840	-	1912*.		
Hoolawanui Stream near Huelo.....	5850	1.34	1910-		
Hoolawailili Stream near Huelo.....	5860	.55	1912-57.		
Honopou Stream near Huelo.....	5870	.64	1910-		
Wailoa ditch at Honopou, near Huelo.....	5880	-	1922-		
New Hamakua ditch at Honopou, near Huelo.....	5890	-	1918-		
Old Hamakua ditch at Honopou, near Huelo.....	5900	-	1918-22;1936-		
Honopou Stream at Lowrie ditch siphon, near Huelo.	5910	a2.0	1932-47.		
Lowrie ditch at Honopou Gulch (Opana weir), near Huelo.	5920	-	1910-27;1930-		
Honopou Stream above Haiku ditch, near Huelo.....	5930	a2.2	1932-47.		
Haiku ditch at Honopou Gulch (at Peahi weir, at Manawai Gulch, at Kapalalaea Gulch), near Kailua.	5940	-	1910-28;1930-		
Honopou Stream below Haiku ditch, near Huelo.....	5950	a2.3	1932-47.		
New Hamakua ditch at Halehaku weir, near Huelo....	5960	-	1910-23.		
Halehaku Gulch weir at New Hamakua ditch, near Huelo.	5970	-	1910-12.		
Halehaku Gulch (East Branch Opana Stream) near Huelo.	5980	a1.4	1911;1912*.		
East Branch Opana Gulch (Stream) at Haiku-uka boundary, near Kaillili.	5990	a.6	1932-33.		
Opana ditch near Huelo.....	6000	-	1910-12.		
Opana Stream near Huelo.....	6010	-	1910-12*.		
Kauhikoa ditch (Old Hamakua ditch) at Opana weir, near Huelo.	6020	-	1910-28.		
Kaluanui ditch at Puuomalei, near Hamakuapoko.....	6030	-	1910-12.		

* Gage heights, or gage heights and discharge measurements only.

a Approximately.

b Fragmentary.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued	40-				
Island of Maui--Continued					
Unnamed Gulch near Maliko Bay.....	6033	0.43	.....	1963-	
Kaluapulani Gulch tributary near Pukalani.....	6038	.45	.....	1963-	
Iao Stream near Wailuku.....	6040	a6.0	1910-15.		
Maniania ditch near Wailuku.....	6050	-	1910-13.		
Iao Stream at Wailuku.....	6070	8.24	.....	1952-	
North Waiehu Stream near Wailuku.....	6080	.90	1912-15.		
North Waiehu ditch near Wailuku.....	6090	-	1910-11;1916-17.		
North Waiehu Stream below North Waiehu ditch, near Wailuku (near Wailuku).	6095	a.9	1911.		
South Waiehu Stream near Wailuku.....	6100	a.7	1910-11;1913-17.		
South Waiehu ditch near Wailuku.....	6110	-	1913.		
Waihee River (Stream) near Waihee.....	6120	a3.9	1913-17.		
Waihee Canal near Waihee.....	6130	-	1910-11;1912*.		
Waihee Canal at Waiale weir, near Wailuku.....	6135	-	1911-12.		
Waihee River (Stream) at dam, near Waihee.....	6140	a3.9	1910-12.		
Spreckels ditch near Waihee.....	6150	-	1910-13.		
Spreckels ditch at Waiale weir, near Wailuku.....	6160	-	1910-11.		
Unnamed Gulch at Maluhia Camp.....	6165	.12	.....	1963-	
Left Branch Makamakaole Stream, near Waihee.....	6170	a.4	1939-52.		
Kahakuloa Stream at altitude 1,380 ft, near Honokohau (near Honokohau).	6177	a1.5	1913;1914.		
Kahakuloa Stream near Honokohau.....	6180	3.47	1939-43;1947-		
Kahakuloa Stream at Kahakuloa, near Waihee.....	6190	a4.0	1912-13.		
Honokohau Stream near Honokohau.....	6200	4.09	1911e;1913-20;1922-		
Honokohau ditch at intake, near Honokohau.....	6210	-	1907-13.		
Honokohau ditch above Honolulu Stream, near Honokohau.	6220	-	1910-11.		
Honolulu Stream near Honokohau.....	6230	a2.9	1913-17.		
Honokeana Gulch near Honokahua.....	6234	.59	.....	1963-	
Honokohau ditch at Honokowai weir, near Lahaina...	6240	-	1910-12.		
Honolulu ditch near Honokohau.....	6250	-	1911-12*.		
Honolulu Stream at Honolulu Ranch, near Honokohau...	6260	-	1911*.		
Kapaloa (Honokawai) Stream at weir 1, near Lahaina	6270	a1.0	1901		
Kapaloa (Honokawai) Stream near Lahaina.....	6280	a1.0	1911.		
Honokowai ditch near Lahaina.....	6290	-	1912-		
Honokowai Stream near Lahaina.....	6300	a1.1	1913-17.		
Kahoma Stream at weir 1, near Lahaina.....	6310	-	1901.		
Kahoma Stream at weir 2, near Lahaina.....	6320	-	1901.		
Kahoma development tunnel (Kahoma ditch at weir) near Lahaina.	6330	-	1911-17.		
Kahoma Stream near Lahaina.....	6340	1.19	1911-12*;1913-17.		
Lahainaluna weir 1 near Lahaina.....	6350	-	1901.		
Lahainaluna weir 2 near Lahaina.....	6355	-	1901.		
Kanaha (Lahainaluna) Stream above pipeline intake, near Lahaina.	6360	1.51	1916-32.		
Lahainaluna ditch near Lahaina.....	6370	-	1913-14.		
Kanaha (Lahainaluna) Stream near Lahaina.....	6380	1.83	1911-16.		
Kahoma Stream at Lahaina.....	6385	5.22	1962-		
North Fork Kauaula Stream at weir 1, near Lahaina.	6390	-	1901.		
South Fork Kauaula Stream at weir 2, near Lahaina	6400	-	1901.		
Kauaula Stream near Lahaina.....	6410	1.84	1901;1912*;1914-17.		
Kauaula ditch near Lahaina.....	6430	-	1912-17.		

Kauaula Stream at mouth, near Lahaina.....	6433	4.30	.....	1963-
Launiupoko Stream near Lahaina.....	6440	1.13	1911-17.	
Olowalu Stream:				
Olowalu ditch (ditch 1) near Olowalu.....	6450	-	1911-	
Olowalu Stream near Olowalu.....	6460	4.00	1913-16.	
Olowalu Stream at Olowalu.....	6462	4.08	1963-	
Ukumehame Gulch (Stream) near Olowalu.....	6470	3.75	1911;1912*;1913-19.	
Malalowaiaole Gulch near Maalaea.....	6475	.64	.....	1963-
Waikapu Stream:				
South Side Waikapu ditch near Waikapu.....	6480	-	1910-17.	
Palolo ditch near Waikapu.....	6490	-	1910-17.	
Waikapu Stream near Waikapu.....	6500	2.76	1910-17.	
Waikapu Stream near Kihei.....	6505	6.97	.....	1963-
Waiakoa Gulch:				
Waiakoa Gulch tributary near Waiakoa.....	6585	.98	.....	1963-
Waiakoa Gulch at Kihei.....	6590	10.1	.....	1963-
Kulanihako'i Gulch near Kihei.....	6600	14.4	1962-	
Unnamed Gulch at Keawakapu.....	6640	3.85	.....	1963-
<u>Island of Hawaii</u>				
Waiakea Stream (at middle flume house) near Mountain View.	7000	-	1930-	
Olaa flume at Kaumana, near Hilo.....	7010	-	1917-20.	
Waiakea Stream near Hilo.....	7012	f97	1957-	
Hamakua Stations at elevation 2,700 ft, near Hilo.	7020	-	1911-13.	
Wailuku River at Pukamaui, near Hilo.....	7030	97.2	1923-28;1929-40.	
Wailuku River above Hilo Boarding School ditch intake, near Hilo.	7040	125	1928-	
Hilo Boarding School ditch at intake, near Hilo.	7050	-	1931-40.	
Hilo Boarding School ditch near Hilo.....	7060	-	1918-19.	
Kapehu Stream:				
Kapehu ditch:				
Kapehu ditch diversion near Hilo.....	7070	-	1954-62.	
Kapehu ditch near Hilo.....	7080	-	1938-62.	
Kapehu Stream at Piihonua, near Hilo.....	7090	4.84	1928-37.	
Wailuku River near Hilo.....	7100	a15	1911-13;1918-19.	
Stations Nos. 1-4 at Piihonua, near Hilo.....	7120	-	1912*.	
Honolii Stream near Hilo.....	7160	a8.0	1924-32.	
Honolii Stream at Kaiwiki, near Hilo.....	7170	12.2	1911-13.	
Kalaea Stream near Hilo.....	7174	.08	.....	1962-
Kawainui Stream (River) near Pepekeo.....	7175	a9.2	1912.	
Alia Stream near Hilo.....	7176	.58	1962-	
Kapehu Stream near Pepekeo.....	7176.5	1.09	.....	1962-
Pohakupuka Stream near Papaaloa.....	7178	2.94	1962-	
Keehia Gulch near Ookala.....	7178.5	.31	.....	1962-
Ahualoa Gulch at Honokaa.....	7179.2	1.79	.....	1962-
East Fork Left Branch Honokaia Gulch near Honokaa.	7179.5	5.67	.....	1962-
Waipio River:				
Kawainui Stream at elevation 2,120 ft, near Waipio.	7210	-	1901-2.	
Branch 3 Kawainui Stream at elevation 1,700 ft, near Waipio.	7215	-	1901-2.	
Kawainui Stream at elevation 1,435 ft, near Waipio.	7220	-	1901-2.	
Branch 2 Kawainui Stream at elevation 1,405 ft, near Waipio.	7223	-	1901-2.	

* Gage heights, or gage heights and discharge measurements only.

a Approximately.

e Combined flow of stream and ditch below point of diversion.

f Approximately, 79 sq mi probably noncontributing.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Hawaii--Continued	40-				
Island of Hawaii--Continued					
Waipio River--Continued					
Kawainui Stream--Continued					
Branch 1 Kawainui Stream at elevation 1,380 ft, near Waipio.	7226	-	1901-2.		
Kawainui Stream near Waipio.....	7230	-	1911-12*.		
Kawainui Stream at elevation 775 ft, near Waipio	7240	-	1901-2.		
Alakahi Stream at elevation 1,200 ft, near Waipio	7280	-	1901-2.		
Alakahi Stream at elevation 730 ft, near Waipio.	7290	-	1901-2.		
Koiawe Stream at elevation 1,120 ft, near Waipio	7300	-	1901-2.		
Koiawe Stream at elevation 610 ft, near Waipio..	7310	-	1901-2.		
Waipio River below Koiawe Stream near Waipio.....	7320	-	1911-12*.		
Waima Stream at elevation 790 ft, near Waipio...	7321	-	1901-2.		
Waima Stream at elevation 385 ft, near Waipio...	7321.5	-	1901-2.		
Waipio River below Waima Stream, near Waipio.....	7322	-	1901-2;1911-12*.		
Wailoa Stream:					
Upper Hamakua (Hamakua) ditch at Puualala and reservoir 3 weirs (at main weir, Puualala), near Kukuihaele (Waiamea).	7323	-	1913-20.		
Lower (New) Hamakua ditch at main weir, near Kukuihaele.	7329	-	1910-20.		
Wailikahi (Waimanulii) Stream near Waimanu....	7370	a0.4	1939-60.		
Kaimu Stream near Waimanu.....	7380	.90	1939-47;1950-52.		
Punalulu Stream near Waimanu.....	7390	a1.4	1939-52.		
Waialala Stream near Waimanu.....	7400	a.2	1939-52.		
Paopao Stream near Waimanu.....	7410	a.6	1939-52.		
Kukui Stream near Waimanu.....	7420	.21	1939-52;1959-		
Awini ditch at East Honokane Iki Gulch, near Niulii.	7430	-	1927-49;1950-		
East Honokane Iki intake to Awini ditch (at East Honokane Iki Gulch) near Niulii.	7440	-	1927-38;1939-49;1951-		
Awini (published as Kohala) ditch above Honokane Gulch, near Kohala.	7450	-	1918.		
Awini (Kohala) ditch at Awini weir, near Kohala...	7455	-	1907-17;1963-		
East Branch Honokane Nui Stream at elevation 1,300 ft, near Honokane.	7470	-	1901.		
East Branch Honokane Nui Stream near Niulii.....	7475	4.96	1963-		
East Branch Honokane Nui Stream at elevation 770 ft, near Honokane.	7480	-	1901.		
West Branch Honokane Nui Stream at elevation 1,370 ft, near Honokane.	7490	-	1901.		
West Branch Honokane Nui Stream at elevation 775 ft, near Honokane.	7495	-	1901.		
Kohala ditch at Honokane weir, near Kohala.....	7500	-	1907-12.		
Kohala ditch at Honokane, near Niulii.....	7509	-	1963-		
Kohala ditch at Pololu, near Niulii.....	7510	-	1927-		
Kohala ditch at Niulii weir, near Kohala (near Kohala).	7520	-	1907-17.		
Hapahapai Gulch at Kapaa.....	7526	1.63	.....	1962-	
Hanaula Gulch at Kapaa.....	7528	.20	.....	1962-	
Kehena ditch at Honokane mauka, near North Kohala.	7540	-	1912-13.		
Kehena ditch near Kohala.....	7550	-	1917-19;1928-		
Luahine Gulch near Waiamea.....	7558	.30	.....	1962-	

Kohakohau Stream near Kamuela.....	7560	2.34	1956-	
Kohakohau Stream at Waiaka, near Kamuela.....	7565	4.31	1963-	
Waikoloa Stream near Kamuela.....	7570	.78	1947-	
Waikoloa Stream at Marine Dam, near Kamuela.....	7580	1.18	1947-	
Hauani Stream near Kamuela.....	7590	.47	1956-	
Paiaakuli Reservoir tributary near Waimea.....	7590.4	.25	.....	1962-
Kamakoa Gulch near Waimea.....	7590.6	47.8	.....	1962-
Popoo Gulch near Kailua.....	7590.8	29.0	.....	1962-
Waiaha Stream:				
Right Branch Waiaha Stream near Holualoa.....	7592	2.50	1960-	
Waiaha Stream at Luawai, near Holualoa.....	7593	7.30	1960-	
Waiaha Stream near Holualoa.....	7595	7.68	1957-	
Kiilae Stream near Honaunau.....	7598	.67	1958-	
Waiohinu Springs, mauka station, near Naalehu....	7600	-	1917-18.	
Waiohinu Springs, makai station, near Naalehu....	7610	-	1917-18.	
Kahilipali Nui Gulch at Waiohinu.....	7612	a.1	.....	1962-
Alapai Gulch at Naalehu.....	7620	a.1	.....	1962-
Hionamoa Gulch at Pahala.....	7700	5.87	.....	1962-
Keoneelele flat tributary at Pahala.....	7702	.42	.....	1962-
Paauhu Gulch at Pahala.....	7705	1.42	1962-	
<u>Mariana Islands</u>				
<u>Island of Saipan</u>				
Donni Spring near Garapan.....	8000	-	1952-54.	
<u>Island of Guam</u>				
Agana River at Agana.....	8072	8.68	.....	1962-
Fonte River at dam, near Nimlitz Hill.....	8073	.60	.....	1962-.....
Asan Spring at Asan.....	8075	-	.....	1962-
Masso River at dam, near Piti.....	8077	.74	.....	1962-
Atantano River near Agat.....	8079	2.81	.....	1960-
Santa Rita Spring at Santa Rita.....	8080	-	.....	1962-
Faata Spring near Agat.....	8082	-	.....	1963-
Finile River at Agat.....	8083	.26	1960-	
Taleyfac River near Agat.....	8085	.46	.....	1960-
Right Branch Cetti River near Umatac.....	8092	.37	.....	1961-
Left Branch Cetti River near Umatac.....	8093	.28	.....	1961-
Cetti River near Umatac.....	8094	.72	1960-	
La Sa Fua River near Umatac.....	8096	1.10	1953-60.....	1961-.....
Sabu River at Umatac.....	8098	.038	.....	1962-
Right Branch Umatac River at Umatac.....	8100	.33	.....	1960-
Left Fork of Left Branch Umatac River near Umatac.	8120	.15	.....	1960-
Right Fork of Left Branch Umatac River:				
Piga Spring near Umatac.....	8130	-	.....	1955;1961-
Right Fork of Left Branch Umatac River at Umatac	8140	.16	.....	1960-
Umatac River at Umatac.....	8160	2.04	1952-	
Toguan River near Umatac.....	8170	.21	.....	1952;1960-
Geus River above Siligin Spring tributary, near Merizo.	8200	.20	.....	1960-
Siligin Spring near Merizo.....	8205	-	.....	1954;1961-
Geus River below Siligin Spring tributary, near Merizo.	8207	.60	.....	1962-
Geus River near Merizo.....	8210	.95	1953-	
Ajayan River near Inarajan.....	8250	1.08	.....	1962-
Agfayan River near Inarajan.....	8280	1.67	.....	1962-
Right Fork of Right Branch Inarajan River near Inarajan.	8300	.62	.....	1960-

* Gage heights, or gage heights and discharge measurements only.
a Approximately.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Mariana Islands--Continued	40-				
Island of Guam--Continued					
Right Fork of Right Branch Inarajan River--Continued					
Left Fork of Right Branch Inarajan River near Inarajan.	8310	0.44	.....	.....	1960-
Right Fork of Left Branch Inarajan River near Inarajan.	8330	.27	.....	.....	1960-
Left Fork of Left Branch Inarajan River near Inarajan.	8340	.17	.....	.....	1960-
Inarajan River near Inarajan.....	8350	4.49	1952-		
Pauliluc River near Inarajan.....	8400	1.86	1952-		
Asalonso River near Talofoyo.....	8420	1.50	.....	.....	1952;1961-
Tolaeyuus River (head of Talofoyo River) near Agat	8450	a6.5	1951-60.....	.....	1961-
Tolaeyuus River at mouth, near Agat.....	8460	7.42	.....	.....	1962-
Imong River (head of Fena River) near Agat.....	8470	1.93	1960-		
Almagosa Springs near Agat.....	8480	g.74	1951-		
Fena Dam spillway near Agat.....	8490	5.81	1951-		
Maagas River (continuation of Tolaeyuus River): Talofoyo River (continuation of Maagas River) near Talofoyo.	8500	16.2	1951-62.....	1962-.....	1962-
Sarasa River near Talofoyo.....	8520	.42	.....	.....	1960-
Left Branch Ugum River near Talofoyo.....	8540	2.96	.....	.....	1961-
Right Branch Ugum River near Talofoyo.....	8545	2.70	.....	.....	1961-
Ugum River near Talofoyo.....	8550	6.96	1952-		
Ylig River near Yona.....	8580	6.58	1952-		
Left Branch Ylig River above pumping station, near Yona.	8590	1.98	.....	.....	1960-
Lonfit River (head of Pago River) near Ordof.....	8620	a3.1	1951-60.....	.....	1961-
Sigua River near Ordof.....	8630	a3.1	.....	.....	1960-
Pago River near Ordof.....	8650	6.18	1951-		
Janum Spring near Yigo.....	8670	-	.....	.....	1961-
Santa Rosa Spring near Yigo.....	8680	-	.....	.....	1962-
Chunge Spring near Yigo.....	8690	-	.....	.....	1962-
<u>Caroline Islands</u>					
<u>Truk Islands</u>					
Island of Moen:					
Wichen River at Peniesence.....	8920	165 acres	1955-56.		
Island of Tol:					
Imor Stream at Fasan.....	8940	29 acres	1955-57.		
Echapachik Stream at Fasan.....	8950	80 acres	1955-57.		
Island of Dublon:					
Fansinifo Stream at Roro.....	8970	38 acres	1955-57.		
<u>Samoa Islands</u>					
<u>Island of Tutuila</u>					
Vailoa Stream at Tula (Village).....	9000	.06	.....	.....	1958-
Vaisa Stream:					
Left Fork Vaisa Stream at Onenoa (Village).....	9010	.09	.....	.....	1958-
Right Fork Vaisa Stream at Onenoa (Village)...	9020	.03	.....	.....	1958-
Afimua Stream at Onenoa (Village).....	9030	.07	.....	.....	1958-
Laoulu Stream at Aoa (Village).....	9040	.03	.....	.....	1958-
Lepa Stream at Aoa (Village).....	9050	.06	.....	.....	1958-
Vaitolu Stream at Aoa.....	9060	.22	1958-		
Panota Stream at Masausi (Village).....	9070	.05	.....	.....	1958-
Vaipito Stream at Masausi (Village).....	9080	.08	.....	.....	1958-

Tagau Stream at Masefau (Village).....	9090	.02	.....	1958-
Talaloa Stream at Masefau (Village).....	9100	.39	.....	1958-
Pago Stream (head of Afono Stream):				
Pago Stream tributary (Pago Stream) at Afono (Village).	9110	.32	.....	1959-
Afono Stream at Afono.....	9120	.67	1958-	
G'ao'a Stream at Vatia (Village).....	9130	.26	.....	1958-
Leafu Stream at Vatia (Village).....	9140	.12	.....	1958-
Leua Stream at Fagasa (Village).....	9160	.14	.....	1959-
Leele Stream at Fagasa (Village).....	9170	.26	.....	1959-
Lesina Stream at Fagasa (Village).....	9180	.30	.....	1959-
Leaveave (Fagafue) Stream near Aasu (Village).....	9190	.69	.....	1959-
Upper Right Branch Leaveave Stream near Aasu....	9192	.15	.....	1960-
Lower Right Branch Leaveave Stream near Aasu....	9194	.17	.....	1960-
Aasu Stream at Aoloaufou.....	9198	.27	.....	1960-
Aasu Stream near Aasu.....	9200	.73	.....	1959-
Aasu Stream at Aasu.....	9205	.97	1958-	
Vaisa Stream at Aoloautuai (Aoloau Tuai Village)...	9220	.67	.....	1959-
Vailolo Stream at Aoloautuai (Aoloau Tuai Village)	9230	.29	.....	1959-
Matavai Stream at Fagamalo (Village).....	9240	.81	.....	1959-
Maloata (Moloata) Stream at Maloata (Moloata Village).	9250	.47	.....	1959-
Vaitele Stream at Poloa (Village).....	9260	.12	.....	1959-
Puna (Leafu) Stream at Amanave (Village).....	9270	.04	.....	1959-
Afutele Stream at Agugulu (Village).....	9280	.15	.....	1959-
Vaialae (Utumea) Stream at Utumea (Village).....	9290	.14	.....	1959-
Utanuatele (Utuanua Itiiti) Stream at Seetage (Village).	9298	.12	.....	1960-
Soonapule (Utuanua Tele) Stream at Seetage (Village).	9300	.12	.....	1959-
Atauloma Stream at Afao.....	9310	.59	1958-	
Asili Stream near Asili (Village).....	9320	.38	.....	1959-
Asili Stream at Asili (Village).....	9325	.54	1958-59.....	1960-
Vaipuna Stream at Amaluia (Village).....	9330	.19	.....	1959-
Leafu Stream near Leone (Village).....	9340	.20	.....	1958-
Fuafua Stream at Malaeloa (Village).....	9350	.35	.....	1959-
Sigaloa Stream at Malaeloa (Village).....	9355	.04	.....	1959-
Leaveave Stream at Mapusagafou (Village).....	9360	.05	.....	1959-
Mapusagatuai Stream at Mapusagatuai (Village).....	9370	.08	.....	1959-
Left Branch Taumata Stream (at old Government dairy) near Mapusagatuai.	9380	.24	.....	1959-
Right Branch Taumata Stream (at old Government dairy) near Mapusagatuai.	9390	.08	.....	1959-
Right Branch Vaitele Stream at Tafuna (Village)...	9400	.25	.....	1958-
Left Branch Vaitele Stream at Tafuna (Village)...	9410	.11	.....	1958-
Sauino (Asofitu) Stream near Nuuuuli (Village).....	9420	.10	.....	1959-
Mataali (Papa) Stream near Nuuuuli (Village).....	9430	.16	.....	1959-
Leele (Tauese) Stream near Nuuuuli (Village).....	9440	.61	.....	1959-
Amalie Stream at Nuuuuli (Village).....	9450	.14	.....	1959-
Avau Stream at Faganeanea (Village).....	9460	.08	.....	1959-
Afu Stream at Faganeanea (Village).....	9470	.21	.....	1958-
Afueio (Matuu) Stream at Matuu.....	9480	.24	1958-	
Matafao (Faga'alu) Stream (head of Faga'alu Stream) at Fagaalu (Village).	9490	.24	.....	1959-
Faga'alu Stream near Fagaalu.....	9495	.42	1957-58.	
Utumoa Stream near (at) Pago Pago.....	9498	.06	.....	1959-
Utumoa pipeline diversion near Pago Pago.....	9500	-	1957-58.....	1959-61.

g Hydrologic drainage boundary uncertain owing to ground-water exchange.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures	Annual peaks	Low-flow measurements
Samoa Islands--Continued	40-				
Island of Tutuila--Continued					
Utumoa Stream at (near) Pago Pago.....	9505	0.13	1957-58.....	.....	1959-
Vaima (Vaipito) Stream at Pago Pago (Village).....	9510	.09	.....	.....	1959-
Matagimaille Stream above reservoir, at Aua.....	9530	.09	.....	.....	1959-
Lalolamauta (Lalolama) Stream at Aua.....	9535	.10	.....	.....	1959-
Anasosopo (Ogesosopo) Stream at Anasosopo (Ogesosopo Village).....	9550	.05	.....	.....	1959-
Vaisina Stream at Lauiliifou (Village).....	9555	.04	.....	.....	1959-
Vaitele (Ululoloa) Stream at Lauilituai (Village).....	9560	.05	.....	.....	1959-
Maga Stream at Lauilituai (Village).....	9565	.21	.....	.....	1959-
Lesea Stream at Lauilituai (Village).....	9570	.17	.....	.....	1959-
Right Branch Visa Stream at Aumi.....	9580	.05	.....	.....	1958-
Left Branch Visa Stream at Aumi (Village).....	9585	.02	.....	.....	1958-
Visa Stream at Aumi (Oaolaulii).....	9590	.14	1957-58.....	.....	1963-
West Branch Alega Stream at Alega.....	9600	.16	1958-		
East Branch Alega Stream at Alega.....	9605	.16	.....	.....	1958-
Muliiolevai (Auto) Stream at Auto (Village).....	9610	.14	.....	.....	1958-
Laloi Stream at Amouli (Village).....	9620	.08	.....	.....	1958-
Televai Stream at Amouli (Village).....	9630	.10	.....	.....	1958-
Leafu Stream at Auasi.....	9640	.55	.....	.....	1958-
Vaialili Stream at Alao (Village).....	9650	.05	1958-
Vaifusi Stream at Alao (Village).....	9660	.02	1958-

ALPHABETICAL LIST

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