

# Index of Surface-Water Records to September 30, 1970

Part 16.—Hawaii and Other Pacific Areas

GEOLOGICAL SURVEY  
CIRCULAR 666



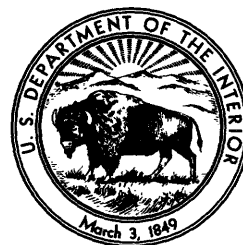


# Index of Surface-Water Records to September 30, 1970

## Part 16.—Hawaii and Other Pacific Areas

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GEOLOGICAL SURVEY CIRCULAR 666



**United States Department of the Interior**  
ROGERS C. B. MORTON, *Secretary*

**Geological Survey**  
W. A. Radlinski, *Acting Director*

# Index of Surface-Water Records to September 30, 1970

## Part 16.—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 September 30, 1970. It supersedes Geological Survey Circular 586. It was updated by personnel of the Data Reports Unit, Water Resources Division, Geological Survey.

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" contains 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, and records for the period 1961-65 were published in 37 volumes, there being 2 or more volumes for each of 11 parts and one each for parts 10, 13, 14, 15 (Alaska), and 16 (Hawaii and other Pacific areas). These part boundaries and the volumes within each part are shown on a map (Figure 1). Records for the 5-year period 1966-70 will be published in a similar series of water-supply papers. District offices of the Water Resources Division, Geological Survey, have also issued interim annual reports since 1961 to meet immediate local needs for streamflow records within the State or States comprising the district.

Records through June 1950 for Hawaii are summarized in Water-Supply Paper 1319 and those from July 1950 to June 1960 are summarized in Water-Supply Paper 1739; each of these summaries lists the earlier publications in which more detailed information was published. Records for 1960-65 are published in Water-Supply Paper 1937, and those for 1966-70 will be published in Water-Supply Paper 2137.

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.

Explanation of reference marks is given at the end of the index.

An alphabetical list of streams, lakes, and reservoirs is given at the end of this circular.

### 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 the United States since 1951. Starting at the headwater of each stream, all stations are listed in a downstream direction. Tributary streams are indicated by indention (one indention of two spaces for each rank) and are listed between main-stem stations in downstream order as they enter the main-stem stream. Likewise, streams of less important rank are listed similarly in downstream order as they enter between stations on the stream of more important rank. If station names fail to show the complete sequence of tributaries and ranks, a stream name only is inserted to complete the series unless that series is complex and undetermined, in which case a double indention (four spaces) is used to indicate that the ranking of tributaries is incomplete.

## STATION NAME

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 complete number for each station consists of 8 digits. The first 2 digits represent the part number and the last 6 the station number. For example, the complete number for a station in this part would be 16302000.

## 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 the water years for which the annual maximum discharge is available. The water year begins October 1 and ends September 30. In listing the water year, only one date is shown; for example 1962 stands for the water year October 1, 1961, to September 30, 1962.

The third column, "Low-flow measurements," shows the period of record for low-flow partial-record stations. The dates given are the water 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 September 30, 1970. A date followed by a period indicates discontinuance. A date followed by a semicolon indicates a break in the collection of records.

Periods of record for the same continuous-record station published by other agencies (or available only in files of the Geological Survey or another agency) are listed only when they are for periods not published in reports of the Geological Survey. These periods are indicated by symbols and footnotes. Records collected by other agencies are included only for stations for which there is some record published in Geological Survey reports.



Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII AND OTHER PACIFIC AREAS					
HAWAII					
ISLAND OF KAUAI					
Kawaikoi Stream (head of Waimea River) near Waimea.....	16010000	a4.1	1909-16;1919-		
Waiakoali Stream near Waimea.....	16011000	a1.7	1909-10;1912*;1919-25.....	.....	1914-17;1961-
Kauaikinana Stream near Waimea.....	16012000	1.17	1919-25.....	.....	1911-17;1961-
Poomau Stream (continuation of Kawaikoi Stream):					
Mohihi Stream at altitude 3,420 ft (3,500 ft), near Waimea (near Waimea).	16013000	a1.6	1920-26;1936-		
Kokee ditch near Waimea.....	16014000	-	1926-		
Mohihi Stream near Waimea.....	16015000	a2.2	1909-10;1911-17b.		
Waimea River at altitude 840 ft (890 ft), near Waimea (Waiahulu Stream near Waimea).	16016000	20.0	1916;1917-18;1925-68.		
Koaie Stream at altitude 3,770 ft (3,700 ft), near Waimea.	16017000	3.33	1919-32;1954-68.		
Koaie Stream near Waimea.....	16018000	11.7	1916-18.....	1963-.....	1915;1920-21;1953-55; 1962.
Waiialae Stream (River) at altitude 3,820 ft (3,700 ft), near Waimea.	16019000	a2.5	1920-32;1952-		
Waiialae Stream (River) near Waimea.....	16020000	a3.5	1910-16.		
Waiialae Stream (River) at altitude 800 ft, near Waimea.	16021000	8.75	1916-21.		
Kekaha ditch at Camp 1 (at intake) (at Flume No. 4), near Waimea (near Waimea).	16022000	-	1907-68.		
Kekaha ditch at siphon near Waimea.....	16024000	-	1910-12*.		
Kekaha ditch at Flume No. 2 (No. 3), near Waimea.....	16025000	-	1910-12*.		
Kekaha ditch below (at) tunnel 12, near Waimea.....	16027000	-	1908-14;1916-34.		
Waimea River below Kekaha ditch intake, near Waimea.....	16028000	45.0	1921-55.....	1958-	
Waimea ditch near Waimea.....	16029000	-	1911-13;1916-21.		
Waimea ditch below wasteway, near Waimea.....	16029100	-	1960-		
Mokihana Stream near Waimea.....	16029500	4.77	.....	1962.....	1962-
Waimea River near Waimea.....	16031000	57.8	1910-18;1943-		
Olokele River (head of Makaweli River):					
Olokele ditch at tunnel 12, near Makaweli.....	16032000	-	1910-17.		
Olokele ditch at weir, near Makaweli.....	16033000	-	1912-17.		
Olokele River near Waimea.....	16034000	a4.9	1915-16.		
Halekua Stream near Waimea.....	16035000	a.6	1913.		
Makaweli River near Waimea.....	16036000	a25	1943-		
Poowaionamahai ditch near Waimea.....	16037000	-	1911-13.		
Makaweli River below Poowaionamahai ditch, near Waimea (near Waimea).	16037100	a25	1911-17.		
Waimea River at Waimea.....	16038000	88.0	.....	1944-	
Hanapepe River:					
Hiloa ditch (at Hanapepe Falls) near Eleele.....	16039000	-	1911-15.		
Koula (Hanapepe) River at Hanapepe Falls, near Eleele..	16040000	6.55	1911-12*.		
East Fork Koula (East Branch Hanapepe) River at Hanapepe Falls, near Eleele.	16041000	-	1911-12*.		
Hanapepe ditch at Hanapepe Falls, near Eleele.....	16042000	-	1911-12;1914-15.		
Hanapepe ditch below intake, near Eleele.....	16043000	-	1930-38.		
Hanapepe ditch at Koula, near Eleele.....	16044000	-	1910-21;1927-49.		
Hanapepe ditch below makai siphon, near Eleele.....	16045000	-	1929-32.		
Hanapepe ditch at weir, near Hanapepe.....	16046000	-	1912-13;1915-17.		
Koula (Hanapepe) River at Koula, near Eleele.....	16047000	12.6	1910-16.		
Manuahi Stream at Koula, near Eleele.....	16048000	5.44	1917-20.		
Hanapepe River below Manuahi Stream (at Koula), near Eleele.	16049000	18.8	1917-21;1926-		



"G" ditch at makai siphon, near Eleele.....	16050000	-	1929-32.	
Hanapepe River at makai siphon, near Eleele.....	16051000	20.5	1929-32.	
Hanapepe River at Hanapepe.....	16052000	26.9	.....	1950-
Lawai Stream near Koloa.....	16052500	6.60	1963-.....	1962-63.
Kamooloa Stream (head of Huleia Stream) near Koloa.....	16053000	a1.3	1939-41.	
Papuaa Stream:				
Upper Haiku ditch near Puhi.....	16053400	-	1963-	
Lower Haiku ditch near Puhi.....	16053600	-	1963-	
Kamooloa Stream near Puhi.....	16053800	5.94	1963-70.	
Kuia Stream near Koloa.....	16054000	a.4	1939-41.	
Koloa ditch near Koloa.....	16054200	-	1964-	
Koloa tunnel near Koloa.....	16054400	-	1966-	
Kuia Stream near Puhi.....	16054500	5.04	1963-66.	
Huleia Stream (River) near Lihue.....	16055000	17.6	1912-15; 1967-.....	1962-67.
Hanamaulu Stream (River) at Kapala, near Lihue.....	16056000	6.41	1911-13.	
Waiahi Stream (head of Wailua River):				
Waiahi-Kuia aqueduct (Koloa ditch) near Puhi.....	16056800	-	1964-	
Lihue ditch near Lihue.....	16057000	-	1910-19.	
South Fork Wailua River (continuation of Waiahi Stream):				
Hanamaulu ditch near Lihue.....	16058000	-	1910-19.	
South Fork Wailua River (above Waiehue Falls) near Lihue.	16060000	22.4	1911-	
North Fork Wailua River:				
North Wailua ditch near Lihue.....	16061000	-	1932-	
North Wailua ditch below Waikoko Stream, near Lihue.	16061200	-	1965-	
Stable storm ditch near Lihue.....	16062000	-	1936-	
North Fork Wailua River at altitude 650 ft, near Lihue.	16063000	a6.6	1914-	
Kanaha ditch near Lihue.....	16064000	-	1910-11*; 1912-55.	
Uhau Iole Stream at elevation 750 ft, near Lihue...	16065000	1.21	1912*.	
Keahua Stream at elevation 750 ft, near Lihue....	16066000	-	1912*.	
Kawi Stream at elevation 750 ft, near Lihue.....	16067000	.71	1912*.	
East Branch of North Fork Wailua River near Lihue..	16068000	a6.2	1912-	
North Fork Wailua River near Lihue.....	16068700	14.6	1910-14.	
Wailua ditch near Kapaa.....	16069000	-	1936-	
Aahoaka ditch near Kapaa.....	16070000	-	1966-	
North Fork Wailua River near Kapaa.....	16071000	18.7	1952-	
Opaekaa Stream:				
Left Branch Opaekaa Stream near Kapaa.....	16071500	a.7	1960-	
Wailua River near Kapaa.....	16071800	52.2	.....	1962-
Konohiki Stream at Makakuaelele mauka weir, near Kapaa..	16072000	.61	1911-13.	
Konohiki Stream at Makakuaelele makai weir, near Kapaa..	16073000	.89	1912.	
Konohiki Stream near Kapaa.....	16073500	2.81	.....	1964-
North Fork Kaehulua Stream at Kainahola weir, near Kapaa.	16074000	-	1911-13.	
South Fork Kaehulua Stream at Wainamunamu weir, near Kapaa.	16075000	-	1911-13.	
Kaehulua Stream at Kuhinoa weir, near Kapaa.....	16076000	-	1911-13.	
Kapaa Stream:				
Makaleha Stream:				
Makaleha ditch near Kealia.....	16077000	-	1936-	
Kapaa Stream (River) near Kealia.....	16078000	3.05	1910-20.	
Kapahi ditch near Kealia.....	16079000	-	1909-14; 1915-	
Tunnel ditch at Kapahi, near Kapaa.....	16079200	-	1909-11.	
Pipe ditch at Kapahi, near Kapaa.....	13079400	-	1909-11.	
Kapaa ditch at Kapahi, near Kapaa.....	16079600	-	1909-11.	
Kapaa Stream (River) at Kapahi ditch intake, near Kapaa.	16080000	a3.3	1936-	
Akulikuli Spring at weir, near Kapaa.....	16081000	-	1911-13.	
Akulikuli Stream near Kapaa.....	16081200	.42	.....	1964-

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII--Continued					
ISLAND OF KAUAI--Continued					
Kapaa Stream--Continued					
Kealia Stream:					
Kaneha ditch (at Kaneha) (at weir) near Kealia.....	16082000	-	1909-13.		
Kapaa Stream at old highway crossing, near Kealia.....	16084500	13.2	.....	1962-	
Homaikawaa Stream near Kealia.....	16085000	.88	.....	1964-	
Anahola River at elevation 1,140 ft, near Kealia.....	16085900	-	1912*.		
Anahola ditch above wasteway (Kaneha Reservoir), near Kealia.	16086000	-	1915-21.		
Anahola ditch wasteway near Kealia.....	16087000	-	1936-		
Anahola ditch above Kaneha Reservoir, near Kealia....	16088000	-	1921-		
Anahola Stream (River above dam at Kiokala) near Kealia.	16089000	a5.5	1910b;1912-		
Lower Anahola (Anahola) ditch at Kiokala, near Kealia.	16090000	-	1909-14.		
Lower Anahola ditch near Kealia.....	16091000	-	1936-		
Lower Anahola (Anahola) ditch at makai weir, near Kealia.	16092000	-	1909-10.		
Anahola Stream (River above dam) at Kiokala Dam, near Kealia.	16093000	a5.5	1910-11;1912*.		
Anahola Stream at Anahola.....	16093200	9.89	1964-.....	1962-64.	
Puu Ka Ele Stream (head of Kilauea Stream):					
Ka Loko ditch near Kilauea.....	16094200	-	1932-68.		
Puu Ka Ele ditch near Kilauea.....	16095000	-	1932-67.		
Ross ditch near Kilauea.....	16095200	-	1956-67.		
Pohakuhonu Stream (head of Kahiliholo Stream):					
Kalihiwai ditch above wasteway, near Kilauea.....	16095900	-	1960-68.		
Kalihiwai ditch near Kilauea.....	16096000	-	1934-67.		
Pohakuhonu Stream near Kilauea.....	16097000	a1.8	1957-		
Halaulani Stream near Kilauea.....	16097300	.15	1922-25.		
Halaulani Stream at altitude 400 ft, near Kilauea..	16097500	a1.1	1957-		
Puukumi Stream near Kilauea.....	16097900	.87	.....	1965-	
Kalihiwai River near Hanalei.....	16098000	3.34	1914-23.		
Kalihiwai River near Kilauea.....	16099000	3.92	1912-13.		
Hanalei ditch near Kilauea.....	16099500	-	1956-62.		
Hanalei River:					
Hanalei tunnel outlet near Lihue.....	16100000	-	1932-		
Hanalei River at altitude 625 ft, near Hanalei.....	16101000	a7.4	1914-55.		
China ditch near Hanalei.....	16102000	-	1912-19.		
Hanalei River near Hanalei.....	16103000	19.1	1912-19;1962-.....	1962.	
Kuna ditch near Hanalei.....	16104000	-	1912-13;1916-19.		
Hanalei River at Belt Road Bridge, near Hanalei.....	16104200	21.0	.....	1963-	
Waioli Stream near Hanalei.....	16105000	a1.5	1914-32.		
Lumaha'i River near Hanalei.....	16106000	a7.5	1914-17;1920-33.		
Lumaha'i River near Wainiha.....	16107000	-	1912*.		
Wainiha River near Hanalei.....	16108000	10.2	1952-56;1957-		
Wainiha River above intake near Hanalei (near Wainiha).	16109000	11.4	1914-16.		
Wainiha Canal at intake, near Wainiha.....	16110000	-	1910-16.		
Wainiha Canal at tunnel 18, near Wainiha.....	16111000	-	1911.		
Wainiha Canal at tailrace, near Wainiha.....	16112000	-	1911.		
Wainiha River near Wainiha.....	16113000	14.7	1912-16.		
Hanakapia'i Stream near Hanalei.....	16115000	a2.6	1931-52.		
Hanakoa Stream near Hanalei.....	16116000	a1.1	1931-52.		
Kalalau Stream near Hanalei.....	16117000	a1.6	1931-55.		
Nahomalu Valley (Stream) near Mana.....	16130000	3.77	1963-.....	1962-63.	
Hoea Stream near Kekaha.....	16140000	7.58	.....	1962-64.	

ISLAND OF OAHU			
(Left Branch of) North Fork Kaukonahua Stream above Right Branch near Wahiawa.	16200000	1.38	1913-53;1960-
Right Branch of North Fork Kaukonahua Stream near Wahiawa.	16201000	1.17	1913-53..... 1960-62;1966-
Mauka (Kaukonahua) ditch near Wahiawa.....	16203000	-	1947-68.
North Fork Kaukonahua Stream near Wahiawa.....	16204000	4.86	1946-68.
South Fork Kaukonahua Stream near Wahiawa (above United States Army reservoir).	16206000	1.93	1913-17;1944-57.
Koolau (United States Army) ditch at reservoir, near Wahiawa.	16206500	-	1914-15.
South Fork Kaukonahua Stream below United States Army reservoir, near Wahiawa.	16207000	a4.0	1914-17.
South Fork Kaukonahua Stream at East Pump Reservoir, near Wahiawa.	16208000	4.04	1957-63;1964-..... 1963-64.
Right Branch of South Fork Kaukonahua Stream near Wahiawa.	16208500	.86	1957-
South Fork Kaukonahua Stream above Wahiawa Reservoir, near Wahiawa.	16209000	5.26	1946-58.
Kaukonahua Stream at Waialua.....	16210500	38.7	... 1968-
Poamoho Stream:			
Poamoho tunnel near Wahiawa.....	16210900	-	1958-
Poamoho Stream near Wahiawa.....	16211000	1.79	1947-
Poamoho Stream at Waialua.....	16211200	10.9	..... 1967-
Makaleha Stream near Waialua.....	16211300	4.15	1964..... 1958-64;1965-
Makua Stream at Makua.....	16211500	4.13	..... 1958-
Makaha Stream near Makaha.....	16211600	2.31	1959-
Makaha Stream at Makaha.....	16211700	5.25	..... 1967-
Kaupuni Stream at altitude 374 ft (360 ft), near Waianae.	16211800	3.58	1960-
Puea mauka ditch near Waianae.....	16211850	-	1960-67.
Kaupuni Stream near Waianae.....	16211900	4.39	..... 1958-60.
Puhawai Stream at Lualualei, near Waianae.....	16212000	a.6	1930-44.
Maliilili Stream near Waianae (at Lualualei Naval Reservation).	16212200	1.51	..... 1958-
Ulehawa Stream at Nanakuli.....	16212250	4.51	..... 1968-
Nanakuli Stream at Nanakuli.....	16212300	3.98	..... 1968-
Awanui (Awawanui) Stream near Barbers Point Naval Air Station.	16212400	1.16	..... 1958.
Awanui Stream at Gilbert, near Barbers Point Lighthouse.	16212401	2.64	..... 1959.
Kaloi Gulch:			
Kaloi Gulch tributary near Honouliuli.....	16212450	1.70	..... 1968-
Honouliuli Stream near Waipahu.....	16212500	11.0	..... 1956-58;1962-63; 1965-
Waikele Stream at Schofield Barracks.....	16212600	5.05	..... 1958.
Waikele Stream at Wheeler Field.....	16212601	6.35	..... 1958;1960-
Waikakalaua Stream near Wahiawa.....	16212700	7.49	..... 1958-
Kipapa Stream near Wahiawa.....	16212800	4.29	1957-
Kipapa Stream near Waipahu.....	16212900	13.8	1966-68.
Waikele Stream at Waipahu.....	16213000	45.7	1951b;1952-
Pearl Harbor Springs at Waiawa, near Pearl City.....	16214000	-	1931-34;1937-64..... 1967-
Morikone Pond Outlet at Pearl City.....	16215000	-	1951-60.
Waiawa Stream near Pearl City.....	16216000	26.4	1952-
Waimano flood channel at Pearl City.....	16216500	2.63	..... 1955-
Pearl Harbor Springs at Puukapu, near Pearl City.....	16217000	-	1931-48.
Pearl Harbor Springs at Loko Kukona, near Pearl City...	13218000	-	1931-45.
Pearl Harbor Springs at Kaluaopu, near Pearl City....	16218500	-	1931-37;1952-53.
Hawaiian Electric Co. tunnel at Waiiau, near Pearl City.	16219000	-	1939-45;1952-67.
Pearl Harbor Springs at Waiiau, near Pearl City.....	16222000	-	1931-39;1943-47.
Waimalu Stream near Aiea.....	16223000	6.07	1952-62;1963-
Pearl Harbor Springs at Kalauao, near Aiea.....	16224000	-	1931-62;1964-65..... 1966-
Kalauao Stream at Moanalua Road, at Aiea.....	16224500	2.59	1957-

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII--Continued					
ISLAND OF OAHU--Continued					
Kalaauao Stream at Aiea.....	16225000	2.61	1953-57.	1966-	
North Halawa Stream (head of Halawa Stream) near Aiea..	16226000	3.45	1929-33;1953-		
Halawa Stream at (near) Aiea.....	16227000	8.78	1953-62.....		
Moanalua Stream near Kaneohe.....	16227500	.94	1968-		
Moanalua Stream tributary near Kaneohe.....	16227700	.62	1968-		
Moanalua Stream near Honolulu.....	16228000	2.73	1926-		
Moanalua Stream near Aiea.....	16228200	3.34	.....		1969-
Moanalua Stream at altitude 100 ft, near Honolulu.....	16228500	4.16	.....		1958-
Kalihi Stream near Kaneohe.....	16228900	.60	1966-		
Kalihi Stream near Honolulu.....	16229000	2.61	1913-		
Kalihi Stream at Kalihi.....	16229300	5.18	1962-.....	1960.	
Nuuanu Stream:					
Lulumahu Stream:					
Lulumahu ditch at upper Nuuanu Reservoir, near Honolulu.	16230000	-	1911-13.		
(Nuuanu Stream at) Luakaha weir in upper Nuuanu Valley, near Honolulu.	16231000	-	1910-13.		
Moole Stream:					
Moole ditch, mauka station, near Honolulu.....	16231500	-	1917-20.		
Moole ditch, makai station, near Honolulu.....	16231700	-	1918-23.		
Nuuanu Stream below reservoir 2 wasteway, near Honolulu.	16232000	3.35	1913-		
Nuuanu Stream at Kuakini Street, near Honolulu.....	16235000	4.39	1911-12.		
Nuuanu Stream above Waolani Stream (confluence), at Honolulu.	16235100	4.38	.....		1961-62.
Waolani Stream at Honolulu.....	16235400	1.29	.....	1958-	
Waolani Stream at mouth, at Honolulu.....	16235600	1.69	.....		1961-62.
Pauoa Stream:					
Kahuawai Spring near Honolulu (at upper Pauoa Valley).	16236000	-	1912-14.		
Pauoa Stream at upper Pauoa Valley, near Honolulu....	16237000	.79	1911-13.		
Pauoa Stream (at Lusitana Street) at Honolulu.....	16237500	1.43	.....	1958-	
Waihi Stream (head of Manoa Stream) (West Branch Manoa Stream) at (near) Honolulu.	16238500	1.14	1913-21;1925-		
Waiakeakua Stream:					
East Manoa ditch near Honolulu.....	16239500	-	1915-16;1918-21;1925-39.		
Waiakeakua (East Branch Manoa) Stream at (near) Honolulu.	16240500	1.06	1913-21;1925-		
Manoa Stream at upper Manoa Valley, near Honolulu.....	16241000	2.62	1910-13.		
Manoa Stream at College of Hawaii, near Honolulu.....	16242000	4.99	1909-10b;1912-18.		
Manoa Stream at Waiialae Road, near Honolulu.....	16243000	-	1910-12.		
Pukele Stream (head of Palolo Stream) near Honolulu..	16244000	1.18	1926-		
Waiomao Stream at Upper Palalo Valley, (at 950-foot elevation, 900-foot elevation), near Honolulu	16245000	.35	1911-13.		
Waiomao Stream (above Pukele Stream) near Honolulu.	16246000	1.04	1911-12;1926-		
Palolo Stream near Honolulu.....	16247000	3.63	1952-		
Manoa-Palolo drainage canal at Moiliili.....	16247100	9.35	.....	1968-	
Waiialaenui Gulch at Honolulu.....	16247200	1.75	.....	1958-	
Wailupe Gulch at Aina Haina.....	16247500	2.35	.....	1958-	
Kuliouou Valley (Stream) at Kuliouou.....	16247900	1.18	.....	1959-60;1969-	
Inoaole Stream (Pacific Ocean tributary) at Waimanalo..	16248900	1.21	.....	1958-	
Waimanalo Stream:					
Waimanalo ditch below main reservoir (on the Waimanalo Plantation) near Waimanalo.	16248900	-	1912-13.		
Waimanalo Stream at Waimanalo.....	16249000	2.16	1967-		
Pump ditch near Waimanalo.....	16249050	-	1912*.		



Kaelepulu Stream:					
Kaelepulu Stream tributary at Kailua.....	16249100	.16	.....	1963-	
Maunawili (Kaimi) Stream near Waimanalo.....	16249200	1.28	1912-16.		
Makawao Stream:					
Main Spring near Kailua.....	16249400	-	1914-16.		
Makawao Spring near Kailua.....	16249600	-	1914-16.		
Makawao ditch (flume) near Kailua (Waimanalo).....	16249800	-	1912*;1913-15.		
Maunawili ditch near Waimanalo.....	16250000	-	1954-68.		
Makawao Stream near Kailua.....	16254000	2.04	1912-16;1958-		
Omao Stream:					
Kamakalepo Stream near Kailua (Waimanalo).....	16256000	.82	1912*;1913-16.		
Pohakea Stream near Kailua (Waimanalo).....	16257000	.21	1912-14.		
Maunawili (Kailua) Stream above Wong Leong's ditch, near Kailua.	16258000	a4.6	1922-23.		
Maunawili (Kailua) Stream near Kailua (Waimanalo).....	16260000	a4.6	1912*;1913-16.		
Maunawili Stream at Highway 61, (above Kailua Road), near Kailua.	16260500	5.34	1967-.....	1958-67.....	1922;1956-62;1965-67.
North Branch Kahanaiki Stream (in Kailua Valley) near Kailua.	16261000	.34	1913-14.		
South Branch Kahanaiki Stream (in Kailua Valley) near Kailua.	16262000	-	1913-14.		
Kahanaiki Stream near Kailua (Waimanalo).....	16263000	.58	1912*;1914-16.		
Kahanaiki Stream at Highway 61 (Kailua Road), near Kailua.	16264100	1.45	.....		1956-66.
Kawainui Swamp drainage canal at Kailua Road, at Kailua.	16264400	-	.....	1962-65.	
Kawainui Swamp drainage canal at Wanaao Road, at Kailua.	16264500	-	.....	1962-64.	
Kawainui Canal at Kailua.....	16264800	11.0	.....	1957-60;1963-64; 1967- 1965-	
Kawa Stream at (near) Kaneohe.....	16265000	1.19	1914-16.....		
Kamooalii (Kaneohe) Stream near Kaneohe.....	16266000	1.48	1914-16.		
Hooleinaiwa Stream near Kaneohe.....	16267000	.61	1914-16.		
Piho Stream near Kaneohe.....	16268000	.43	1914-16.		
Kuou ditch near Kaneohe.....	16269000	-	1914-16.		
Kuou Stream near Kaneohe.....	16270000	.37	1914-16.		
Kamooalii Stream below Kuou Stream, near Kaneohe.....	16270500	3.21	1967-		
Luluku Stream at altitude 220 ft, near Kaneohe.....	16270900	.44	1967-.....		1960-67.
North Luluku ditch near Kaneohe.....	16271000	-	1914-16.		
Luluku Stream near Kaneohe.....	16272000	.46	1914-16.		
Young Mau ditch near Kaneohe.....	16273000	-	1914-16.		
Kamooalii Stream at Kaneohe.....	16273900	4.38	1959-63;1965-		
Ahlo ditch near Kaneohe.....	16274000	-	1914-16.		
Kealahala Stream at Kamehameha Highway, at Kaneohe.....	16274499	.62	.....	1959-.....	1961-66.
Kealahala Stream at Kaneohe.....	16274500	.79	.....	1958.	
Haiku Stream (head of Heeia Stream) near Heeia.....	16275000	.97	1914-19;1939-		
Reservoir ditch near Heeia.....	16276000	-	1914-16.		
Waipio ditch near Heeia.....	16277000	-	1914-16.		
Iolekaa Stream mauka near Heeia.....	16278000	.29	1940-70.		
Iolekaa Stream near Heeia.....	16279000	.52	1914-16.		
Heeia Stream at Kaneohe.....	16279500	1.80	.....	1965-66;1968-	
Wing Wo Tai ditch near Heeia.....	16280000	-	1914-16.		
Hop Tuck ditch near Heeia.....	16281000	-	1914-16.		
Lee ditch near Heeia.....	16282000	-	1914-16.		
Kahaluu Stream near Heeia.....	16283000	.28	1935-		
Kahaluu Stream (left bank) tributary near Kahaluu....	16283100	.12	.....		1948;1953-62.
Kahaluu Stream near Kahaluu.....	16283400	1.29	.....		1962-63;1966-
Ahuimanu Stream near Kahaluu.....	16283480	2.31	.....	1963-.....	1962-65;1968-
Kahaluu Stream at Kahaluu.....	16283500	3.73	1967-.....	1960-62;1965.	
South Fork Waihee Stream near Heeia.....	16283600	.03	1962-		
North Fork Waihee Stream near Heeia.....	16283700	.03	1962-		
Waihee Stream at altitude 260 ft, near Heeia.....	16283800	.31	1961-66.		
Waihee Stream near Heeia.....	16284000	.93	1935-		
Waihee Stream at Kahaluu.....	16284500	2.26	1966-.....		1958-66.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII--Continued					
ISLAND OF OAHU--Continued					
Waiahole tunnel at Waianu, near Waiahole.....	16285000	-	1950-69.		
Waiahole tunnel wasteway at intake 31, near Waiahole.	16286000	-	1951-69.		
Waiahole tunnel at north portal, near Waiahole.....	16287000	-	1951-69.		
Waiahole tunnel at adit 8, near Waipahu.....	16287200	-	1956-69.		
Halona Stream near Waikane.....	16288000	-	1911.		
Waihi Stream near Waikane.....	16289000	-	1911.		
Waiahole Stream below powerhouse, near Waiahole.....	16290000	.46	1914*;1915;1916*.		
Waiahole Stream at altitude 250 ft, near Waiahole.....	16291000	.99	1955-68.....	1969-.....	1969-
Waiahole Stream near Waiahole (at Manianiaula, near Waikane).	16292000	1.22	1911-16.		
Waianu Stream near Waikane.....	16293000	-	1911.		
Waianu Stream at Waiahole.....	16293100	1.65	.....		1961-66.
Waiahole Stream at Waiahole, near Waikane.....	16294000	a3.6	1911-12.		
Waikane Stream at altitude 75 ft, at Waikane.....	16294900	2.22	1959-		
Waikane Stream near Waikane.....	16295000	-	1912*.		
Waikane Stream at Waikane.....	16295200	2.60	.....	1958-60.	
Makaua Stream at Kaaawa.....	16295900	.53	.....	1958-60.	
Kahana Stream at mauka trail crossing, near Kahana.....	16295995	3.18	.....		1960-61;1966-
Kahana Stream near Kahana.....	16296000	a3.2	1914-17.		
Kahana Stream at altitude 30 ft, near Kahana.....	16296500	3.74	1958-		
Kawa (East Branch Kahana) Stream near Kahana.....	16297000	2.09	1914-17.....		1958;1961-62;1966-
Punaluu Stream near Hauula.....	16298000	-	1906-7.		
Punaluu Stream at elevation 539 ft, near Punaluu.....	16299000	.98	1915-18.		
Waihoi Stream near Punaluu.....	16300000	a.5	1915-17.		
Punaluu Stream at elevation 250 ft, near Punaluu.....	16301000	2.78	1914-18.		
Punaluu ditch near Punaluu.....	16302000	-	1953-		
Punaluu Stream near Punaluu.....	16303000	2.78	1953-		
Kaluanui Stream near Hauula.....	16304000	a.5	1915-17.		
Kaluanui Stream near Punaluu.....	16304200	1.11	1967-		
Kaluanui Stream at Hauula (at altitude 30 ft, near Hauula).	16304500	2.12	.....	1958-	
Kaipapau Stream near Hauula.....	16305000	-	1906-7.		
Koloa Gulch (Stream) near Laie.....	16306000	a.9	1914-18.		
Wailele Gulch (Stream) near Laie.....	16307000	a.5	1914-15;1916-18.		
East Branch Kahawainui Stream near Laie.....	16308000	.53	1914-18.		
Malaekahana Stream near Laie.....	16308990	.64	1963-		
East Branch Malaekahana Stream near Kahuku.....	16309000	1.66	1914-18.		
Middle Branch Malaekahana Stream near Kahuku.....	16310000	.69	1914-18.		
Malaekahana Stream at altitude 70 ft, near Kahuku.....	16310500	2.94	.....	1958.	
Malaekahana Stream at altitude 30 ft, near Kahuku.....	16310501	4.05	.....	1959-	
Oio Stream near Kahuku.....	16311000	2.13	.....	1958-	
Paumalu Gulch at Sunset Beach.....	16318000	2.59	.....	1968-	
Waimea Stream:					
Kamananui Stream at Pupukea Military Road, near Maunawai.	16325000	3.13	1963-.....		1960-63.
Kaiwikoele Stream:					
Kaiwikoele Stream tributary near Maunawai.....	16329000	.97	1967-		
Kamananui Stream at Maunawai.....	16330000	9.79	1958-		
Waimea Gulch near Kawailoa Camp.....	16331000	2.23	.....	1968-	
Kawainui Stream above Kamananui ditch, near Wahiawa..	16335000	4.75	.....		1961.
Anahulu River near Haleiwa.....	16340000	13.5	.....	1958-	
Helemano Stream at Haleiwa.....	16343000	14.2	1967-		
Paukaulila Stream:					
Opaeula Stream near Wahiawa.....	16345000	2.98	1959-		
Opaeula Stream near Haleiwa.....	16350000	5.96	.....	1958-	

ISLAND OF MOLOKAI			
Halawa Stream near Halawa.....	16400000	4.62	1917-32;1937-
Papalaua Stream near Pukoo.....	16401000	a2.0	1919-29.
Pulena Stream (head of Wailau Stream) near Wailau.....	16402000	4.38	1919-28;1937-57.
Waiakeakua Stream near Wailau.....	16403000	1.41	1919-29;1937-57.
Kapuhi Stream (head of Pelekunu Stream) at altitude 1,000 ft, near Pelekunu.	16403400	.51	.....
Kawailena Stream near Pelekunu.....	16403500	.65	.....
Kapuhi Stream near Pelekunu.....	16403600	1.20	1968-
Kawainui Stream at altitude 1,000 ft, near Pelekunu..	16403700	.79	.....
Kawaiipoka Stream near Pelekunu.....	16403800	.26	.....
Kawainui Stream near Pelekunu.....	16403900	1.17	1968-
Pelekunu Stream near Pelekunu.....	16404000	2.62	1919-29;1937-57.....
Pilipililau Stream near Pelekunu.....	16404200	.49	1968-
Lanipuni Stream near Pelekunu.....	16405000	1.09	1919-29;1937-57.
Waikolu Stream:			
Molokai tunnel at east portal.....	16405100	-	1966-
Molokai tunnel at west portal.....	16405300	-	1965-
Waikolu Stream at altitude 900 ft, near Kalaupapa.....	16405500	1.99	1956-61;1962-
Waikolu Stream at elevation 650 ft, near Kalaupapa.....	16406000	2.99	1920-23.
Waikolu Stream below (at) pipeline crossing, near Kalaupapa.	16408000	3.68	1919-32;1937-
Waihanau Stream near Kalaupapa.....	16409000	1.18	1930-32.
Keolewa Stream near Kalae.....	16410000	.18	1940-44.
Waiialala Springs near Kalae.....	16411000	-	1940-60.
Kakaako Gulch at Highway 46, near Mauna Loa.....	16411300	.55	.....
Kakaako Gulch above Kamakahi Gulch, near Mauna Loa.....	16411320	1.40	.....
Kakaako Gulch near Mauna Loa.....	16411400	5.34	1963-
Kaunala Gulch near Mauna Loa.....	16411600	.28	.....
Halena Gulch near Mauna Loa.....	16411640	2.07	.....
Kaluapeelua Gulch at Hoolehua.....	16411800	1.46	.....
Kaluapeelua Gulch tributary near Molokai Airport.....	16411900	1.56	.....
Manawainui Gulch:			
Waikalae Gulch:			
Waiianui Gulch:			
Mokomoko Gulch (Makaeleele Stream) near Kalae....	16412000	.23	1940-45.
Kapuna Stream near Kalae.....	16413000	.18	1940-49.
Manawainui Gulch near Kualapuu.....	16413500	10.4	.....
Kaunakakai Gulch (Stream) at Kaunakakai.....	16414000	6.57	1949-
Kamiloloa Gulch at Kaunakakai.....	16414100	3.24	.....
Kawela Gulch:			
(Right Branch of) East Fork Kawela Gulch (Stream) near Kamalo.	16415000	.45	1946-
Wawaia Gulch at Kamalo.....	16415400	2.12	.....
Punaula Gulch (Stream) near Pukoo.....	16416000	.24	1947-
Pohakupili Gulch near Halawa.....	16419000	.48	.....
Papio Gulch at Halawa.....	16419500	.94	1963-
ISLAND OF MAUI			
Kepuni Gulch near Kahikinui House.....	16500100	1.91	1963-
Hawelewele Gulch near Kaupo.....	16500300	11.3	.....
Kukuilua Gulch near Kipahulu.....	16500800	.76	1963-68.....
Paliikea Stream (head of Oheo Gulch) below diversion dam (Oheo Stream at elevation 1,550 ft, below diversion dam), near Kipahulu.	16501000	6.29	1927-29;1931-
Hahalawe Gulch (Right Branch Hahalawe Stream, Kahalawe Stream) near Kipahulu.	16502000	.43	1927-69.....
Pukuilua Gulch near Hana.....	16502400	.48	.....
Moomoonui Gulch at Hana.....	16502800	.90	.....
Kawaiipapa Gulch at Hana.....	16502900	5.83	.....
Hana flume:			
Kaeleku flume near Kaeleku.....	16503000	-	1940-45.
Hana flume near Hana.....	16504000	-	1940-45.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII--Continued					
ISLAND OF MAUI--Continued					
Makapipi Stream:					
Makapipi ditch near Nahiku.....	16506000	-	1948-66.		
West Makapipi Spring near Nahiku.....	16506500	-	1932-45.		
Makapipi Stream near Nahiku.....	16507000	1.93	1932-45.		
Hanawi Stream near Nahiku.....	16508000	3.49	1914-16;1921-		
Hanawi Stream below Government Road, near Nahiku.....	16509000	5.06	1932-47.		
Kapaula Gulch (Stream) near Nahiku.....	16510000	.69	1921-63.		
Kapaula Gulch (Stream) below Government Road, near Nahiku.	16511000	.93	1932-47.		
Koolau ditch at Nahiku weir, near Nahiku.....	16512000	-	1919-		
Waiaaka Stream near Nahiku.....	16513000	.10	1932-47.		
Paakea Gulch (Stream) near Nahiku.....	16514000	.34	1932-47.		
Waiohue Gulch (Stream) near Nahiku.....	16515000	.32	1921-63.		
(West) Kopiliula Stream near Keanae.....	16516000	4.31	1914-17;1921-58.		
East Wailuaiki Stream near Keanae.....	16517000	3.11	1913-17;1921*;1922-58.		
West Wailuaiki Stream near Keanae.....	16518000	3.66	1914-17;1921-		
West Wailuanui Stream near Keanae.....	16519000	1.93	1913-17;1922-58.		
East Wailuanui Stream near Keanae.....	16520000	.51	1914-17;1921-58.		
Wailuanui Stream near Keanae.....	16521000	2.51	1932-36;1938-47.		
Palauhulu Stream:					
Taro patch feeder ditch at Keanae.....	16522000	-	1934-68.		
Koolau ditch near Keanae.....	16523000	-	1910-12;1917-		
Honomanu Stream at Haiku-uka boundary, near Kailiili...	16524000	2.54	1919-27;1932-34;1962-68.		
Seventh Branch Honomanu Stream at Haiku-uka boundary near Kailiili.	16525000	a.3	1932-33.		
Fourth Branch Honomanu Stream at Haiku-uka boundary, near Kailiili.	16526000	a.1	1932-33.		
Honomanu Stream near Keanae.....	16527000	3.17	1913-64.		
Spreckels ditch at station 1, near Huelo.....	16528000	-	1910-13.		
Spreckels ditch at station 2, near Huelo.....	16529000	-	1911-13.		
Spreckels ditch at station 3, near Huelo.....	16530000	-	1910-13.		
Haipuaena Stream:					
Kula diversion from Haipuaena Stream, near Olinda....	16531000	-	1945-		
Haipuaena Stream at Kula pipeline intake, near Olinda..	16531100	.27	1946b;1946-68.		
Haipuaena Stream at Haiku-uka boundary, near Kailiili..	16532000	.63	1919-27;1932-34.....		1962-69.
Third Branch Haipuaena Stream at Haiku-uka boundary, near Kailiili.	16533000	.06	1932-33.		
First Branch Haipuaena Stream at Haiku-uka boundary, near Kailiili.	16534000	.05	1932-33.		
Haipuaena diversion ditch at Kolea Gulch, near Keanae.	16535000	-	1938-60.		
Haipuaena Stream above Spreckels ditch, near Huelo (near Huelo).	16536000	1.16	1913-67.		
Haipuaena Stream near Huelo.....	16537000	a1.1	1910-13.		
Spreckels ditch at Haipuaena weir (Haipuaena), near Huelo.	16538000	-	1922-		
Spreckels ditch at station 4, near Huelo.....	16539000	-	1910-13.		
Koolau ditch at Haipuaena, near Huelo.....	16541000	-	1932-		
Manuel Luis ditch at Puohokamoa Gulch, near Huelo.....	16541500	-	1917-		
Puohokamoa Stream:					
East Branch Puohokamoa Stream at Haiku-uka boundary, near Kailiili.	16542000	.14	1919-27;1932-33.....		1963-69.
Middle Branch Puohokamoa Stream at Haiku-uka boundary, near Kailiili.	16543000	.48	1919-27;1932-34;1962-69.		
West Branch Puohokamoa Stream at Haiku-uka boundary, near Kailiili.	16544000	.45	1919-28;1932-34.....		1962-69.



Puohokamoa Stream above Spreckels ditch, near Huelo (near Huelo).	16545000	2.35	1913-		
Puohokamoa Stream near Huelo.....	16546000	a2.6	1910-13.		
Puohokamoa intake of Koolau ditch, near Huelo.....	16547000	-	1922-30.		
Koolau ditch at Wahinepee, near Huelo.....	16551000	-	1922-29.		
Spreckels ditch at Wahinepee, near Huelo.....	16552000	-	1928-38.		
Spreckels ditch at station 5, near Huelo.....	16552200	-	1911-13.		
Manuel Luis ditch west of Puohokamoa Stream, near Huelo.	16552500	-	1930-35.		
Waikamoi (Waiaakamoi) Stream above reservoir, at Kula pipeline intake, near Olinda.	16552800	2.50	1953-68.		
(West Branch) Waikamoi Stream at Haiku-uka boundary, near Kailiili.	16554000	3.46	1918-28;1932-34.....	.....	1963-69.
East Branch Waikamoi Stream at Haiku-uka boundary, near Kailiili.	16554500	.07	1918-28;1932-33.....	.....	1962-69.
Waikamoi (Waiaakamoi) Stream above Wailoa ditch, near Huelo.	16555000	3.93	1922-57.		
Waikamoi Stream near Huelo.....	16556000	a4.5	1910-22.		
Alo Stream near Huelo.....	16557000	.47	1910-57.		
Koolau ditch at Alo diversion weir, near Huelo.....	16558000	-	1908-11.		
Spreckels ditch at station 6, near Huelo.....	16560000	-	1911-13.		
Center ditch below Kolea Reservoir, near Huelo (at Waikamoi, near Huelo).	16561000	-	1918-30.		
Center ditch near Huelo.....	16562000	-	1910-12.		
Kaaiea Gulch (Stream) near Huelo.....	16565000	.58	1921-62.		
Spreckels ditch below Kaaiea Gulch, near Huelo.....	16565500	-	1917-30.		
Oopuola Stream near Huelo.....	16566000	a.2	1930-57.		
Oopuola Stream above Spreckels ditch crossing, near Huelo (near Huelo).	16567000	.58	1910-15.		
Spreckels ditch at station 7, near Huelo.....	16567500	-	1911-12.		
Spreckels ditch at station 8, near Huelo.....	16568000	-	1911-13.		
Nailiilihaele Stream:					
Second Branch Nailiilihaele Stream at Haiku-uka boundary, near Kailiili.	16569000	a.2	1932-33.		
Nailiilihaele Stream near Kailiili.....	16569100	.11	.....	.....	1963-69.
West Branch Nailiilihaele Stream near Kailiili.....	16569700	.04	.....	.....	1966-69.
Nailiilihaele Stream near Huelo.....	16570000	3.58	1910-11;1913-18;1919-		
Nailiilihaele Stream below New Hamakua ditch, near Huelo.	16571000	a3.6	1912*.		
New Hamakua ditch at Nailiilihaele weir, near Huelo....	16572000	-	1910-12.		
New Hamakua ditch at station No. 1, near Huelo.....	16573000	-	1912*.		
Kailua Stream at Haiku-uka boundary, near Kailiili.....	16574000	a.8	1918-28;1932-34.		
Kailua Stream near Kailiili.....	16574500	1.01	1963-		
Tenth Branch Kailua Stream at Haiku-uka boundary, near Kailiili.	16575000	a.1	1932-33.		
Ninth Branch Kailua Stream at Haiku-uka boundary, near Kailiili.	16576000	a.2	1932-33.		
East Branch Kailua Stream near Kailiili.....	16576200	.35	.....	.....	1963-69.
Kailua Stream near Huelo.....	16577000	2.41	1910-11b;1913-18;1919-58.		
New Hamakua ditch at station No. 2, near Huelo.....	16578000	-	1912*.		
New Hamakua ditch at station No. 3, near Huelo.....	16579000	-	1912*.		
New Hamakua ditch at station No. 4, near Huelo.....	16579500	-	1912*.		
Kailua Stream:					
Oanui Stream near Huelo.....	16580000	a.9	1910-11;1913-16.		
New Hamakua ditch at station No. 5, near Huelo.....	16582000	-	1912*.		
Old Hamakua ditch at Kailua, near Huelo.....	16583000	-	1919-22.		
Kailua Stream near Huelo (station is downstream from New Hamakua ditch crossing).	16584000	-	1912*.		
Hoolawau Stream near Huelo.....	16585000	1.34	1910-		
Hoolawaliili Stream near Huelo.....	16586000	.55	1912-57.		
Honopou Stream near Huelo.....	16587000	.64	1910-		
Wailoa ditch at Honopou, near Huelo.....	16588000	-	1922-		
New Hamakua ditch at Honopou, near Huelo.....	16589000	-	1918-		

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII--Continued					
ISLAND OF MAUI--Continued					
Old Hamakua ditch at Honopou, near Huelo.....	16590000	-	1918-22;1936-65.		
Honopou Stream at Lowrie ditch siphon, near Huelo.....	16591000	a2.0	1932-47.		
Lowrie ditch at Honopou Gulch (Opana weir), near Huelo.	16592000	-	1910-27;1930-		
Honopou Stream above Haiku ditch, near Huelo.....	16593000	a2.2	1932-47.		
Haiku ditch at Honopou Gulch (at Peahi weir, at Manawai Gulch, at Kapalalaea Gulch), near Kailua.	16594000	-	1910-28;1930-		
Honopou Stream below Haiku ditch, near Huelo.....	16595000	a2.3	1932-47.		
New Hamakua ditch at Halehaku weir, near Huelo.....	16596000	-	1910-23.		
Halehaku Gulch near Kailiili.....	16596200	.13	1965-		
Halehaku Gulch weir at New Hamakua ditch, near Huelo...	16597000	-	1910-12.		
Halehaku Gulch (East Branch Opana Stream) near Huelo...	16598000	a1.4	1911;1912*.		
East Branch Opana Gulch (Stream) at Haiku-uka boundary, near Kailiili.	16599000	a.6	1932-33.		
Opana tunnel at Kailiili.....	16599500	-	1965-		
Opana ditch near Huelo.....	16600000	-	1910-12.		
Opana Stream near Huelo.....	16601000	-	1910-12*.		
Kauhikoa ditch (Old Hamakua ditch) at Opana weir, near Huelo.	16602000	-	1910-28.		
Awalau Gulch at Kailiili.....	16602400	.23	1965-		
Kaluanui ditch at Puuomalei, near Hamakuapoko.....	16603000	-	1910-12.		
Unnamed gulch near Maliko Bay.....	16603300	.43	.....	1963-	
Kalianui Gulch:					
Kalianui Gulch tributary near Pukalani.....	16603700	1.17	.....	1967-	
Kaluapulani Gulch:					
Kaluapulani Gulch tributary near Pukalani.....	16603800	.45	.....	1963-	
Kalianui Gulch near Kahului.....	16603850	17.9	.....	1967-	
Iao Stream near Wailuku.....	16604000	a6.0	1910-15.		
Maniania ditch near Wailuku.....	16605000	-	1910-13.		
Iao Stream at Wailuku.....	16607000	8.24	.....	1951-	
North Waiehu Stream near Wailuku.....	16608000	.90	1912-15.		
North Waiehu ditch near Wailuku.....	16609000	-	1910-11;1916-17.		
North Waiehu Stream below North Waiehu ditch, near Wailuku (near Wailuku).	16609500	a.9	1911.		
South Waiehu Stream near Wailuku.....	16610000	a.7	1910-11;1913-17.		
South Waiehu ditch near Wailuku.....	16611000	-	1913.		
Waihee River (Stream) near Waihee.....	16612000	a3.9	1913-17.		
Waihee Canal near Waihee.....	16613000	-	1910-11;1912*.		
Waihee Canal at Waiale weir, near Wailuku.....	16613500	-	1911-12.		
Waihee River (Stream) at dam, near Waihee.....	16614000	a3.9	1910-12.		
Spreckels ditch near Waihee.....	16615000	-	1910-13.		
Spreckels ditch at Waiale weir, near Wailuku.....	16616000	-	1910-11.		
Unnamed gulch at Maluhia Camp.....	16616500	.12	.....	1964-	
Left Branch Makamakaole Stream, near Waihee.....	16617000	a.4	1939-52.		
Kahakuloa Stream at altitude 1,380 ft, near Honokohau (near Honokohau).	16617700	a1.5	1913;1914.		
Kahakuloa Stream near Honokohau.....	16618000	3.47	1939-43;1947-70.		
Kahakuloa Stream at Kahakuloa, near Waihee.....	16619000	a4.0	1912-13.		
Owahi Gulch near Kahakuloa.....	16619600	.20	.....	1965-70.	
Poelua Gulch near Kahakuloa.....	16619700	1.18	.....	1965-	
Honokohau Stream near Honokohau.....	16620000	4.11	1911e;1913-20;1922-		
Honokohau ditch at intake, near Honokohau.....	16621000	-	1907-13.		
Honokohau ditch above Honolua Stream, near Honokohau..	16622000	-	1910-11.		
Honolua Stream near Honokohau.....	16623000	a2.9	1913-17.		
Honokeana Gulch near Honokahua.....	16623400	.59	.....	1964-	
Honokohau ditch at Honokowai weir, near Lahaina.....	16624000	-	1910-12.		
Honolua ditch near Honokohau.....	16625000	-	1911-12*.		

Honolua Stream at Honolua Ranch, near Honokohau.....	16626000	-	1911*.	
Kapaloa (Honokawai) Stream at weir 1, near Lahaina.....	16627000	al.0	1901.	
Kapaloa (Honokawai) Stream near Lahaina.....	16628000	al.0	1911.	
Honokowai ditch near Lahaina.....	16629000	-	1912-67.	
Honokowai Stream near Lahaina.....	16630000	al.1	1913-17.	
Honokowai Stream at Honokowai.....	16630200	5.59	.....	1962-63;1965-
Kahoma Stream at weir 1, near Lahaina.....	16631000	-	1901.	
Kahoma Stream at weir 2, near Lahaina.....	16632000	-	1901.	
Kahoma development tunnel (Kahoma ditch at weir) near Lahaina.	16633000	-	1911-17.	
Kahoma Stream near Lahaina.....	16634000	1.19	1911-12*;1913-17.	
Lahainaluna weir 1 near Lahaina.....	16635000	-	1901.	
Lahainaluna weir 2 near Lahaina.....	16635500	-	1901.	
Kanaha (Lahainaluna) Stream above pipeline intake, near Lahaina.	16636000	1.51	1916-25;1926-32.	
Lahainaluna ditch near Lahaina.....	16637000	-	1913-14.	
Kanaha (Lahainaluna) Stream near Lahaina.....	16638000	1.83	1911-16.	
Kahoma Stream at Lahaina.....	16638500	5.22	1962-	
North Fork Kauaula Stream at weir 1, near Lahaina.....	16639000	-	1901.	
South Fork Kauaula Stream at weir 2, near Lahaina....	16640000	-	1901.	
Kauaula Stream near Lahaina.....	16641000	1.84	1901;1912*;1914-17.	
Kauaula ditch near Lahaina.....	16643000	-	1912-17.	
Kauaula Stream near mouth, near Lahaina.....	16643300	4.12	.....	1960;1962;1964-
Launiupoko Stream near Lahaina.....	16644000	1.13	1911-17.	
Olowalu Stream:				
Olowalu ditch (ditch 1) near Olowalu.....	16645000	-	1911-67.	
Olowalu Stream near Olowalu.....	16646000	4.00	1913-16.	
Olowalu Stream at Olowalu.....	16646200	4.08	1963-	
Ukumehame Gulch (Stream) near Olowalu.....	16647000	3.75	1911;1912*;1913-19.	
Ukumehame Gulch at mouth, near Olowalu.....	16647100	4.03	.....	1967-
Malalowaiaole Gulch near Maalaea.....	16647500	.64	.....	1964-
Waikapu Stream:				
South Side Waikapu ditch near Waikapu.....	16648000	-	1910-17.	
Palolo ditch near Waikapu.....	16649000	-	1910-17.	
Waikapu Stream near Waikapu.....	16650000	2.76	1910-17.	
Waikapu Stream near Kihei.....	16650500	6.97	.....	1963-
Waiakoa Gulch:				
Waiakoa Gulch tributary near Waiakoa.....	16658500	.98	.....	1964-
Waiakoa Gulch at Kihei.....	16659000	10.1	.....	1963-
Kulanihakoi Gulch near Kihei.....	16660000	14.4	1962-	
ISLAND OF HAWAII				
Waiakea Stream (at middle flume house) near Mountain View.	16700000	17.4	1930-	
Olaa flume at Kaumana, near Hilo.....	16701000	-	1917-20.	
Waiakea Stream near Hilo.....	16701200	33.6	1957-67.	
Waiakea Stream at Hilo.....	16701300	35.8	.....	1969-
Palai Stream at Hilo.....	16701400	5.08	.....	1965-
Wailuku River near Pua Akala.....	16701700	10.2	1964-65.	
Wailuku River near Humuula.....	16701750	34.8	1965-	
Wailuku River near Kaumana.....	16701800	43.4	1966-	
Hamakua stations at elevation 2,700 ft, near Hilo.....	16702000	-	1911-13.	
Wailuku River at Pukamaui, near Hilo.....	16703000	97.2	1923-28;1929-40.	
Wailuku River (above Hilo Boarding School ditch intake, near Hilo), at Piipihonua.	16704000	125	1928-	
Hilo Boarding School ditch at intake, near Hilo.....	16705000	-	1931-40.	
Hilo Boarding School ditch near Hilo.....	16706000	-	1918-19.	
Kapehu Stream:				
Kapehu ditch:				
Kapehu ditch diversion near Hilo.....	16707000	-	1954-62.	
Kapehu ditch near Hilo.....	16708000	-	1938-62.	
Kapehu Stream at Piipihonua, near Hilo.....	16709000	4.84	1928-37.	
Wailuku River near Hilo.....	16710000	-	1911-13;1918-19.	
Stations Nos. 1-4 at Piipihonua, near Hilo.....	16712000	-	1912*.	

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
HAWAII--Continued					
ISLAND OF HAWAII--Continued					
Honolii Stream near Hilo.....	16716000	a8.0	1924-32.		
Honolii Stream near Papaikou (at Kaiwili, near Hilo)...	16717000	11.6	1911-13;1967-		
Kalaaoa Mauka Stream near Hilo.....	16717400	.24	.....	1963-	
Kawainui Stream (River) near Pepeekeo.....	16717500	a9.2	1912.		
Alia Stream near Hilo.....	16717600	.58	1962-		
Kapehu Stream near Pepeekeo.....	16717650	1.09	.....	1963-	
Pohakupuka Stream near Papaaloa.....	16717800	2.76	1962-		
Manowaiopae Stream near Laupahoehoe.....	16717820	1.04	1965-		
Keehia Gulch near Ookala.....	16717850	.62	.....	1963-	
Ahualoa Gulch at Honokaa.....	16717920	2.27	.....	1963-	
Honokaia Gulch:					
(East Fork of Left Branch) Honokaia Gulch tributary near Honokaa.	16717950	2.42	.....	1963-	
Kawainui Stream (head of Wailoa Stream) near Kamuela...	16720000	1.58	1964-		
Kawaiki Stream near Kamuela.....	16720300	.45	1968-		
Upper Hamakua ditch below Kawaiki Stream near Kamuela.	16720500	-	1964-		
Kawainui Stream at elevation 2,120 ft, near Waipio.....	16721000	-	1901-2.		
Branch 3 Kawainui Stream at elevation 1,700 ft, near Waipio.	16721500	-	1901-2.		
Kawainui Stream at elevation 1,435 ft, near Waipio.....	16722000	-	1901-2.		
Branch 2 Kawainui Stream at elevation 1,405 ft, near Waipio.	16722300	-	1901-2.		
Branch 1 Kawainui Stream at elevation 1,380 ft, near Waipio.	16722600	-	1901-2.		
Kawainui Stream (River) near Waipio.....	16723000	-	1911-12*.		
Kawainui Stream at elevation 775 ft, near Waipio.....	16724000	-	1901-2.		
Upper Hamakua ditch above Alakahi Stream near Kamuela.	16724800	-	1968-		
Alakahi Stream near Kamuela.....	16725000	.87	1964-		
Alakahi Stream at elevation 1,200 ft, near Waipio.....	16728000	-	1901-2.		
Alakahi Stream at elevation 730 ft, near Waipio.....	16729000	-	1901-2.		
Koiawe Stream at elevation 1,120 ft, near Waipio.....	16730000	-	1901-2.		
Koiawe Stream at elevation 610 ft, near Waipio.....	16731000	-	1901-2.		
Waipio River below Koiawe Stream near Waipio.....	16732000	-	1911-12*.		
Waimea Stream at elevation 790 ft, near Waipio.....	16732100	-	1901-2.		
Waimea Stream at elevation 385 ft, near Waipio.....	16732150	-	1901-2.		
Wailoa Stream (Waipio River at elevation 360 ft, below Waimea Stream) near Waipio.	16732200	14.3	1901-2;1911-12*;1964-69.		
Upper Hamakua (Hamakua) ditch at Puualala and reservoir 3 weirs (at main weir, Puualala), near Kukuihaele (Waimea).	16732300	-	1913-20.		
Lower (New) Hamakua ditch at main weir, near Kukuihaele.	16732900	-	1910-20.		
Lower Hamakua ditch wasteway, near Kukuihaele.....	16733000	-	1964-		
Lower Hamakua ditch below main weir, near Kukuihaele...	16733100	-	1964-		
Honokaa diversion at Honokaa.....	16733200	-	1964-		
Lower Hamakua ditch below Honokaa diversion, at Honokaa.	16733300	-	1964-		
Wailikahi (Waimanulilili) Stream near Waimanu.....	16737000	a.4	1939-60.		
Kaimu Stream near Waimanu.....	16738000	.90	1939-47;1950-52.		
Punalulu Stream near Waimanu.....	16739000	a1.4	1939-52.		
Waiaalala Stream near Waimanu.....	16740000	a.2	1939-52.		
Paopao Stream near Waimanu.....	16741000	a.6	1939-52.		
Kukui Stream near Waimanu.....	16742000	.21	1939-52;1959-66.		
Awini ditch at East Honokane Iki Gulch, near Niihii....	16743000	-	1927-49;1950-		



East Honokane Iki intake to Awini ditch (at East Honokane Iki Gulch) near Niulii.	16744000	-	1927-38;1939-49;1951-	
Awini (published as Kohala) ditch above Honokane Gulch, near Kohala.	16745000	-	1918.	
Awini (Kohala) ditch at Awini weir, near Kohala.	16745500	-	1907-17;1963-	
East Branch Honokane Nui Stream at elevation 1,300 ft, near Honokane.	16747000	-	1901.	
East Branch Honokane Nui Stream near Niulii.	16747500	4.96	1963-69.	
East Branch Honokane Nui Stream at elevation 770 ft, near Honokane.	16748000	-	1901.	
West Branch Honokane Nui Stream at elevation 1,370 ft, near Honokane.	16749000	-	1901.	
West Branch Honokane Nui Stream at elevation 775 ft, near Honokane.	16749500	-	1901.	
Kohala ditch at Honokane weir, near Kohala.	16750000	-	1907-12.	
Kohala ditch at Honokane, near Niulii.	16750900	-	1963-	
Kohala ditch at Pololu, near Niulii.	16751000	-	1927-	
Kohala ditch at Niulii weir, near Kohala (near Kohala).	16752000	-	1907-17.	
Hapahapai Gulch at Kapaa.	16752600	1.52	.....	1963;1965-
Kehena ditch at Honokane mauka, near North Kohala.	16754000	-	1912-13.	
Kehena ditch near Kohala.	16755000	-	1917-19;1928-66.	
Luahine Gulch near Waimea.	16755800	.32	.....	1963-
Kohakohau Stream near Kamuela.	16756000	2.51	1956-	
Keanuimano Stream (Kohakohau Stream at Waiaka), near Kamuela.	16756500	4.30	1963-	
Waikoloa Stream near Kamuela.	16757000	.78	1947-	
Waikoloa Stream at Marine Dam, near Kamuela.	16758000	1.18	1947-	
Hauani Gulch (Stream) near Kamuela.	16759000	.47	1956-	
Paiaakuli Reservoir tributary near Waimea.	16759040	.27	.....	1963-
Kamakoa Gulch near Waimea.	16759060	50.6	.....	1963-
Popoo Gulch near Waikii (Kailua).	16759080	33.1	.....	1963-65.
Keopu Stream near Kailua.	16759180	2.61	.....	1962;1965-
Waiaha Stream:				
Right Branch Waiaha Stream near Holualoa.	16759200	1.89	1960-	
Waiaha Stream at Luawai, near Holualoa.	16759300	8.74	1960-	
Waiaha Stream near Holualoa.	16759500	9.35	1957-68.	
Kiilae Stream near Honaunau.	16759800	.67	1958-	
Waiohinu Springs, mauka station, near Naalehu.	16760000	-	1917-18.	
Waiohinu Springs, makai station, near Naalehu.	16761000	-	1917-18.	
Kahilipali Nui Gulch at Waiohinu.	16761200	.47	.....	1963-
Alapai Gulch at Naalehu.	16762000	2.87	.....	1963-
Hilea Gulch:				
Hilea Gulch tributary near Honuapo.	16764000	9.17	1966-	
Hilea Gulch tributary No. 2, near Honuapo.	16765000	1.86	1966-	
Ninole Gulch near Punaluu.	16767000	15.5	1966-	
Hionamoa Gulch at Pahala.	16770000	9.41	.....	1963-
Hionamoa Gulch (Keoneelele flat) tributary at Pahala.	16770200	1.01	.....	1963-68.
Paaiiau Gulch at Pahala.	16770500	1.74	1962-	
<b>MARIANA ISLANDS</b>				
<b>ISLAND OF SAIPAN</b>				
Denni Spring (head of Denni Stream) (Donni Spring near Garapan).	16800000	-	1952-54;1968-	
Hasngot Stream.	16800500	.43	.....	1968-
South Fork Talofofo Stream.	16801000	.73	1968-	
Middle Fork Talofofo Stream.	16801500	.35	1968-	
North Fork Talofofo Stream.	16801800	.45	.....	1968-
Talofofo Stream.	16802000	1.56	.....	1968-
Fahang Lichan Stream:				
East Achugau Stream.	16802500	-	.....	1965;1969.
West Achugau Spring (head of Achugau Stream).	16804000	-	.....	1968-
Rapugau Stream.	16804500	1.34	1969-	

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
MARIANA ISLANDS--Continued					
ISLAND OF GUAM					
Agana River at Agana.....	16807200	8.68	.....	.....	1962-
Ponte River at dam, near Nimitz Hill.....	16807300	.68	.....	1962-64.....	1961-
Asan Spring at Asan.....	16807500	-	.....	.....	1962-66.
Masso River at dam, near Piti.....	16807700	.67	.....	.....	1962-
Atantano River near Agat.....	16807900	2.81	.....	.....	1958-62.
Santa Rita Spring at Santa Rita.....	16808000	-	.....	.....	1962-69.
Faata Springs at (Spring near) Agat.....	16808200	-	.....	.....	1963-
Finile River at Agat.....	16808300	.28	1960-	.....	.....
Taleyfac River near Agat.....	16808500	1.94	.....	.....	1959-
(Right Branch) Cetti River above tributary near Umatac.....	16809200	.37	.....	.....	1961-66;1969-
Left Branch Cetti River near Umatac.....	16809300	.28	.....	.....	1961-62.
Cetti River near Umatac.....	16809400	.74	1960-67.....	.....	1969-
La Sa Fua River near Umatac.....	16809600	1.06	1953-60.....	.....	1961-63;1966;1969-
Sabu River at Umatac.....	16809800	.04	.....	1963-64.	.....
Madog (Left Fork of Left Branch Umatac) River near Umatac.....	16812000	.34	.....	.....	1960-
Astaban River:					
Piga Spring near Umatac.....	16813000	-	.....	.....	1955;1961-
Astaban (Right Fork of Left Branch Umatac) River at Umatac.....	16814000	.37	.....	.....	1960-
Laelae (Right Branch Umatac) River at Umatac.....	16815800	.95	.....	.....	1960-
Umatac River at Umatac.....	16816000	2.07	1952-	.....	.....
Toguan River near Umatac.....	16817000	.47	.....	.....	1952;1960-
Geus River above Siligin Spring tributary, near Merizo.....	16820000	.50	.....	.....	1960-
Siligin Spring near Merizo.....	16820500	-	.....	.....	1954;1961-
Geus River below Siligin Spring tributary, near Merizo.....	16820700	.67	.....	.....	1962-
Geus River near Merizo.....	16821000	.92	1953-	.....	.....
Ajayan River near Inarajan.....	16825000	1.15	.....	.....	1962-
Agfayan River near Inarajan.....	16828000	1.64	.....	.....	1962-
Pasamano (Right Fork of Right Branch Inarajan) River (head of Inarajan River) near Inarajan.....	16830000	1.40	.....	.....	1960-
Yledigao (Left Fork of Right Branch Inarajan) River near Inarajan.....	16831000	1.07	.....	.....	1960-
Fintasa (Right Fork of Left Branch Inarajan) River near Inarajan.....	16833000	.79	.....	.....	1960-
Fensol (Left Fork of Left Branch Inarajan) River near Inarajan.....	16834000	.40	.....	.....	1960-
Inarajan River near Inarajan.....	16835000	4.38	1952-	.....	.....
Pauliluc River near Inarajan.....	16840000	1.88	1952-	.....	.....
Asalonso River near Talofofo.....	16842000	1.50	.....	.....	1952;1961-
Tolaeyuus River (head of Talofofo River) near Agat.....	16845000	6.25	1951-60.....	.....	1961-
Tolaeyuus River at mouth, near Agat.....	16846000	6.60	.....	.....	1962-68.
Imong River (head of Fena River) near Agat.....	16847000	1.92	1960-	.....	.....
Almagosa Springs near Agat.....	16848000	f.75	1951-68.	.....	.....
Fena Dam spillway near Agat.....	16849000	6.08	1951-	.....	.....
Maagas River (continuation of Tolaeyuus River):					
Talofofo River near Talofofo.....	16850000	16.1	1951-62.	.....	.....
Sarasa River near Talofofo.....	16852000	1.01	.....	.....	1960-63.
Left Branch Ugum River near Talofofo.....	16854000	2.96	.....	.....	1961-
Right Branch Ugum River near Talofofo.....	16854500	2.70	.....	.....	1961-
Ugum River near Talofofo.....	16855000	7.08	1952-	.....	.....
Ylig River near Yona.....	16858000	6.42	1952-	.....	.....
Manengon River (Left Branch Ylig River above pumping station) near Yona.....	16859000	2.01	.....	.....	1960-
Lonfit River (head of Pago River) near Ordot.....	16862000	2.68	1951-60.....	.....	1961-63.

Sigua River near Ordot.....	16863000
Pago River near Ordot.....	16865000
Janum Spring near Yigo.....	16867000
Santa Rosa Spring near Yigo.....	16868000
Chunge Spring near Yigo.....	16869000

#### RYUKYU ISLANDS

##### ISLAND OF OKINAWA

Benoki-gawa at Benoki.....	16875200
Yona-gawa at Yona.....	16875500
Hiji-gawa at Hiji.....	16875700
Taihoza-gawa at Hiji.....	16875800
Takazato-gawa near Hama.....	16876200
Taiho-okawa at Taiho.....	16876500

Henan-gawa:

South Fork Henan-gawa:

Right Branch of South Fork Henan-gawa near Tsuha... 16877000

North Fork Henan-gawa near Tsuha... 16877200

Genka-kawa near Genka..... 16877500

Genka-kawa at Genka..... 16877700

Makiya-okawa at Makiya..... 16878000

Hanechi-okawa at Kawakami..... 16878200

Oi-kawa at Jingusuku..... 16878500

Manna-gawa at Manna..... 16879000

Yofuke-gawa at Yofuke..... 16879400

Sukuta-kawa at Sukuta..... 16879500

Fukuchi-gawa at Kyoda..... 16879600

Yonabaru-gawa (head of Hiza-gawa) below Zukeyama dam... 16879900

Bishi-gawa at Kadena..... 16880300

Nagata-gawa at Kadena..... 16880500

Hiza-gawa at Kadena..... 16880600

Hiya-gawa at Ojana..... 16880800

Machinato-gawa near Ojana..... 16880900

Kanegusuku-gawa at Kanegusuku..... 16881200

Mukue-gawa near Itomancho..... 16881500

Tengan-gawa at Yamashiro..... 16882000

Tengan Reservoir at Yamashiro..... 16882050

Tengan Dam spillway at Yamashiro..... 16882070

Tengan-gawa below Tengan Dam..... 16882100

Tengan-gawa at Tengan..... 16882400

Okukubi-gawa at Kin..... 16882600

Kanna-gawa near Kanna..... 16882800

Ufu-kawa near Ginoza..... 16883000

O-kawa at Kushi..... 16883200

Left Fork O-kawa near Kushi..... 16883300

Suginda-gawa at Suginda..... 16883500

Oura-gawa at Okawa..... 16883550

Oura-gawa at Oura..... 16883600

Teema-gawa at Mihara..... 16883800

Fukuji-gawa near Yubaru..... 16884100

Fukuji-gawa at Fukuji..... 16884200

Miyagi-gawa at Miyagi..... 16884300

Ara-kawa at Arakawa..... 16884500

Aha-gawa at Aha..... 16884600

Fun-gawa near Aha..... 16884800

#### CAROLINE ISLANDS

##### PALAU ISLANDS

Adeiddo River, Babelthaup.....	16890600
Tabagaten River, Babelthaup.....	16890900
Gihmel River, Babelthaup.....	16891200

a3.1	1961-63.
5.63	1951-
-	1953-62;1964-
-	1962-66;1969.
-	1962-66;1969.
a3.8	1963-
a1.7	1963-
a3.3	1964-
a2.3	1964-
a.9	1963-69.
a5.2	1964-
a.7	1963-
a1.4	1964-
a3.9	1963-66.
a5.5	1964-
a1.7	1964-
a4.4	1963-
a3.1	1964-69.
a2.2	1964-
a1.2	1964-
a1.1	1964-
a1.1	1964-
a1.9	1966-
a14	1966-
a4.0	1966-
a19	1966-
a2.2	1964-69.
a1.7	1965-
a3.0	1964-
a6.4	1964-
a.8	1963-64.
a1.0	1967-
a1.0	1967-
a1.1	1967-
a10	1966-
a5.0	1967-
a.9	1963-
a1.3	1963-67.
a1.3	1964-
a.3	1963-
a.9	1964-
a1.9	1966-
a3.1	1964-
a3.2	1964-
a5.8	1964-
a12	1964-69.
a1.8	1969-
a3.8	1969-
a3.5	1963-
a3.3	1964-
4.43	1969-
6.34	1970-
1.09	1968-

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
CAROLINE ISLANDS--Continued					
PALAU ISLANDS--Continued					
Gaden River (head of Gerlicki River), Babelthaup.....	16891300	4.23	1969-		
Kumekumeyel River, Babelthaup.....	16891320	1.55	.....	.....	1970-
Unnamed west coast stream, Arakabesan.....	16891700	.08	.....	.....	1970-
Unnamed south coast stream, Arakabesan.....	16891750	.03	.....	.....	1970-
YAP ISLANDS					
Aringel Stream, Yap.....	16892400	.24	1968-		
Fara Swamp outlets, Yap.....	16892450	.29	.....	.....	1968-
Galngun Swamp outlet, Yap.....	16892460	.16	.....	.....	1968-
Tamaney Stream, Yap.....	16892500	.21	.....	.....	1968-
Ripu Stream, Yap.....	16892600	.24	.....	.....	1968-
Thalamar Stream (head of Dalibaech Stream), Yap.....	16892700	.14	.....	.....	1965;1968-
Dalolab Stream, Yap.....	16892800	.09	1968-		
Pemgoy Stream, Yap.....	16892900	.17	1968-		
Talagu Stream, Yap.....	16893000	.07	1968-		
Mabu Stream, Yap.....	16893050	.30	.....	.....	1968-
Burong Stream, Yap.....	16803100	.29	1968-		
Bileiy Spring, Gagil-Tomil.....	16893300	-	1968-		
Bileiy Stream, Gagil-Tomil.....	16893310	.15	.....	.....	1968-
Yanbilang Stream, Gagil-Tomil.....	16893350	.03	.....	.....	1968-
TRUK ISLANDS					
Wichen River at altitude 55 m, Moen.....	16893700	.23	1968-		
Wichen River at altitude 18 m (at Peniesence), Moen....	16893800	.60	1955-56;1968-		
Pou Stream, Moen.....	16893900	.07	.....	.....	1968-
Nachiponong Stream, Moen.....	16894200	.16	1968-		
Nefounumas Spring, Moen.....	16894300	-	.....	.....	1969-
Echapachik Stream (at Fasan), Tol.....	16895000	.15	1955-57;1968-		
Afeibung Stream, Tol.....	16895100	.08	.....	.....	1968-
Imor Stream (at Fasan), Tol.....	16895600	.05	1955-57.		
Chun Stream, Dublon Island.....	16896800	.09	1968-		
Tumunu Stream:					
Fansinifo Stream (at Roro), Dublon Island.....	16897000	.06	1955-57.....	.....	1969-
Tumunu Stream, Dublon Island.....	16897200	.26	1968-		
ISLAND OF PONAPE					
Tawonjokola River:					
Nanepil River.....	16897600	2.93	1970-		
Tawonjokola River at mouth.....	16897800	10.9	.....	.....	1970-
Lui River.....	16897900	.47	1970-		
Lui River tributary No. 2.....	16898000	.04	.....	.....	1970-
Lui River tributary.....	16898100	.36	.....	.....	1970-
Lui River at mouth.....	16898200	2.06	1970-		
Tawannu River.....	16898300	1.00	1970-		
SAMOA ISLANDS					
ISLAND OF TUTUILA					
Vailoa Stream at Tula (Village).....	16900000	.06	.....	.....	1959-65.
(Left Fork) Vaisa Stream above tributary at Onenoa (Village).	16901000	.09	.....	.....	1959-63.
(Right Fork) Vaisa Stream tributary at Onenoa (Village).	16902000	.03	.....	.....	1959-63.
Vaisa Stream at Onenoa.....	16902500	.12	.....	.....	1964-65;1968-
Afimua Stream at Onenoa (Village).....	16903000	.06	.....	.....	1959-65;1968-
Laoulu Stream at Aoa (Village).....	16904000	.05	.....	.....	1959-65;1968-
Lepa Stream at Aoa (Village).....	16905000	.09	.....	.....	1959-
Vaitolu Stream at Aoa.....	16906000	.16	1958-		
Panota Stream at Masausi (Village).....	16907000	.06	.....	.....	1959-64;1968-



Vaipito Stream at Masausi (Village).....	16908000	.08	.....	1959-64;1967-
Talaloa Stream at Masefau (Village).....	16909500	.47	.....	1959-64;1967-
Tagau Stream at Masefau (Village).....	16910000	.01	.....	1959-64;1968-
Pago Stream (head of Afono Stream):				
Pago Stream tributary (Pago Stream) at Afono	16911000	.10	.....	1959-64.
(Village).				
Pago (Afono) Stream at Afono.....	16912000	.60	1958-	
Gaoa Stream at Vatia (Village).....	16913000	.20	.....	1959-64.
Leafu Stream at Vatia (Village).....	16914000	.18	.....	1959-64.
Leua Stream at Fagasa (Village).....	16916000	.14	.....	1959-65;1968-
Leele Stream at Fagasa (Village).....	16917000	.19	.....	1959-65;1968-
Leele Stream at mouth at Fagasa.....	16917500	.23	1966-	
Lesina Stream at Fagasa (Village).....	16918000	.02	.....	1959-65.
Leaveave (Fagafue) Stream near Aasu (Village).....	16919000	.60	.....	1959-63;1968-
(Upper Right Branch) Leaveave Stream tributary No. 2	16919200	.16	.....	1960-63;1968-
near Aasu.				
(Lower Right Branch) Leaveave Stream tributary near	16919400	.15	.....	1960-63;1968-
Aasu.				
Aasu Stream at Aoloaufou.....	16919800	.24	.....	1960-65;1968-
Aasu Stream near Aasu.....	16920000	.82	.....	1959-63;1968-
Aasu Stream at Aasu.....	16920500	1.03	1958-	
Vaisa Stream at Aoloautuai (Aoloau Tuai Village).....	16922000	.78	.....	1959-65;1968-
Vailolo Stream at Aoloautuai (Aoloau Tuai Village).....	16923000	.18	.....	1959-63;1968-
Matavai Stream at Fagamalo (Village).....	16924000	.17	.....	1959-63;1968-
Maloata (Moloata) Stream at Maloata (Moloata Village).....	16925000	.74	.....	1959-63;1968-
Vaitele Stream at Poloa (Village).....	16926000	.11	.....	1959-64.
Puna (Leafu) Stream at Amanave (Village).....	16927000	.03	.....	1959-65;1968-
Afutele Stream at Agugulu (Village).....	16928000	.17	.....	1959-65;1968-
Vaialae (Utumea) Stream at Utumea (Village).....	16929000	.15	.....	1959-65;1968-
Soonapule (Utuanua Tele) Stream at Seetage (Village)...	16930000	.16	.....	1959-64;1968-
Utuanutele (Utuanua Itiiti) Stream at Seetaga	16930200	.21	.....	1960-64;1968-
(Village).				
Atauloma Stream at Afao.....	16931000	.24	1958-	
Asili Stream near Asili (Village).....	16932000	.55	.....	1959-65;1968-
Asili Stream at Asili (Village).....	16932500	.66	1958-59.	1960-
Vaipuna Stream at Amaluia (Village).....	16933000	.08	.....	1959-65.
Leafu Stream near Leone (Village).....	16934000	.69	.....	1959-64;1968-
Fuafua Stream at Malaeloa (Village).....	16935000	.29	.....	1959-65.
Sigaloa Stream at Malaeloa (Village).....	16935500	.01	.....	1959-65;1968-
Leaveave Stream at Mapusagafou (Village).....	16936000	.15	.....	1959-65;1968-
(Right Branch) Vaitele Stream at Lepine (Tafuna)	16937000	.18	.....	1959-
(Tafuna Village).				
(Left Branch) Vaitele Stream tributary at Lepine	16938000	.09	.....	1959-
(Tafuna) (Tafuna Village).				
(Left Branch) Taumata Stream (at old Government dairy)	16939000	.02	.....	1959-65;1968-
near Mapusaga (Mapusagatuai).				
(Right Branch) Taumata Stream tributary (at old	16940000	.04	.....	1959-65.
Government dairy) near Mapusaga (Mapusagatuai).				
Mapusagatuai Stream at Mapusaga (Mapusagatuai)	16941000	.08	.....	1959-65;1968-
(Village).				
Sauino (Asofitu) Stream near Nuuuili (Village).....	16942000	.09	.....	1959-65;1968-
Mataali (Papa) Stream near Nuuuili (Village).....	16943000	.14	.....	1959-65;1968-
Papa (Leele) (Tauese) Stream near Nuuuili (Village).....	16944000	.57	.....	1959-64;1967-
Papa Stream at Nuuuili.....	16944200	.78	1966-67;1969-	
Amalie Stream at Nuuuili (Village).....	16945000	.19	.....	1959-64;1968-
Avau Stream at Faganeanea (Village).....	16946000	.09	.....	1959-
Afu Stream at Faganeanea (Village).....	16947000	.22	.....	1959-
Afuolo (Matuu) Stream at Matuu.....	16948000	.25	1958-	
Matafao (Faga'alu) Stream (head of Faga'alu Stream)	16949000	.24	.....	1959-64;1968-
at Faga'alu (Village).				
Faga'alu Stream near Faga'alu.....	16949500	.42	1957-58.	
Vaima (Vaipito) Stream at Pago Pago (Village).....	16949700	.05	.....	1959-
Utumoa Stream near (at) Pago Pago.....	16949800	.07	.....	1960-
Utumoa pipeline diversion near Pago Pago.....	16950000	-	1957-58.	1959-61.

Station name	Station number	Drainage area (sq mi)	Periods of record		
			Daily or monthly figures (calendar years)	Annual peaks (water years)	Low-flow measurements (water years)
SAMOA ISLANDS--Continued					
ISLAND OF TUTUILA--Continued					
Utumoa Stream at (near) Pago Pago.....	16950500	.17	1957-58.....	.....	1960-
Vaipito Stream at Pago Pago.....	16951000	.75	.....	.....	1966-
Lalolamauta (Lalolama) Stream at Aua.....	16952500	.14	.....	.....	1959-65;1968-
Matagimalie Stream (above reservoir) at Aua.....	16953000	.03	.....	.....	1959-65;1968-
Anasosopo (Ogesosopo) Stream at Anasosopo (Ogesosopo Village).....	16955000	.05	.....	.....	1959-65;1968-
Vaisina Stream at Lauiliifou (Village).....	16955500	.06	.....	.....	1959-65;1968-
Vaitele (Ululoloa) Stream at Lauilitu'ai (Village).....	16956000	.19	.....	.....	1959-65;1968-
Maga Stream at Lauilitu'ai (Village).....	16956500	.05	.....	.....	1959-65;1968-
Lesea Stream at Lauilitu'ai (Village).....	16957000	.02	.....	.....	1959-65;1968-
(Middle Fork) (Right Branch) Visa Stream at (Aumi) (Village) Alega.....	16958000	.10	.....	.....	1959-
(Left Branch) Visa Stream tributary at Aumi (Village).....	16958500	.02	.....	.....	1959-
Visa Stream at Aumi (Oaolaulii).....	16959000	.16	1957-58.....	.....	1963-64;1968-
(West Branch) Alega Stream at Alega.....	16960000	.19	1958-	.....	.....
(East Branch) Alega Stream tributary at Alega.....	16960500	.04	.....	.....	1961-
Muliolavai (Auto) Stream at Auto (Village).....	16961000	.22	.....	.....	1959-65;1968-
Laloi Stream at Amouli (Village).....	16962000	.09	.....	.....	1959-65.
Televai Stream at Amouli (Village).....	16963000	.10	.....	.....	1959-65;1968-
Leafu Stream at Auasi.....	16964000	.12	.....	.....	1959-65;1968-
Vaialili Stream at Alao (Village).....	16965000	.10	.....	.....	1959-65;1968-
Vaifusi Stream at Alao (Village).....	16966000	.02	.....	.....	1959-65;1968-

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

a Approximately.

b Fragmentary.

c In files of district office.

d In files of Waihole Water Co.

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

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

	Page		Page
Aahoaka ditch.....	5	Fena Dam spillway.....	18
Aasu Stream.....	21	Fena River.....	18
Adeiddo River.....	19	Fensol River.....	18
Afeibung Stream.....	20	Finile River.....	18
Afimua Stream.....	20	Fintasa River.....	18
Afono Stream.....	21	Fonte River.....	18
Afu Stream.....	21	Fuafua Stream.....	21
Afuelo Stream.....	21	Fukuchi-gawa.....	19
Afutele Stream.....	21	Fukuji-gawa.....	19
Agana River.....	18	Fun-gawa.....	19
Agfayan River.....	18		
Aha-gawa.....	19	"G" ditch.....	4
Ahlo ditch.....	9	Gaden River.....	20
Ahualoa Gulch.....	16	Galgun Swamp outlet.....	20
Ahuimanu Stream.....	9	Gaoa Stream.....	21
Ajayan River.....	18	Genka-kawa.....	19
Akulikuli Spring.....	5	Geus River.....	18
Akulikuli Stream.....	5	Gihnel River.....	19
Alakahi Stream.....	16		
Alapai Gulch.....	17	Hahalawe Gulch.....	11
Alega Stream.....	22	Hahalawe Stream, Right Branch.....	11
Alega Stream, East Branch.....	22	Haiku ditch.....	14
Alega Stream, West Branch.....	22	Haiku Stream.....	9
Alia Stream.....	16	Haipuaena diversion ditch.....	12
Almagosa Springs.....	18	Haipuaena Stream.....	12
Alo Stream.....	13	Haipuaena Stream, diversion from.....	12
Amale Stream.....	21	Haipuaena Stream, First Branch.....	12
Anahola ditch.....	6	Haipuaena Stream, Third Branch.....	12
Anahola ditch wasteway.....	6	Halaulani Stream.....	6
Anahola River.....	6	Halawa Stream (Island of Molokai).....	11
Anahola Stream.....	6	Halawa Stream (Island of Oahu).....	8
Anahulu River.....	10	Halehaku Gulch.....	14
Anasosopo Stream.....	22	Halehaku Gulch weir.....	14
Ara-kawa.....	19	Halekua Stream.....	4
Arakabesan, unnamed south coast stream.....	20	Halena Gulch.....	11
Arakabesan, unnamed west coast stream.....	20	Halona Stream.....	10
Aringel Stream.....	20	Hamakua ditch.....	16
Asalonso River.....	18	Hamakua stations.....	15
Asan Spring.....	18	Hana flume.....	11
Asili Stream.....	21	Hanakapiai Stream.....	6
Asofitu Stream.....	21	Hanakoa Stream.....	6
Astaban River.....	18	Hanalei ditch.....	6
Atantano River.....	18	Hanalei River.....	6
Atauloma Stream.....	21	Hanalei tunnel outlet.....	6
Auto Stream.....	22	Hanamaulu ditch.....	5
Avau Stream.....	21	Hanamaulu River.....	5
Awalau Gulch.....	14	Hanamaulu Stream.....	5
Awanui Stream.....	7	Hanapepe ditch.....	4
Awawanui Stream.....	7	Hanapepe River.....	4, 5
Awini ditch.....	16, 17	Hanapepe River, East Branch.....	4
		Hanawi Stream.....	12
Benoki-gawa.....	19	Hanechi-okawa.....	19
Bileiy Spring.....	20	Hapahapai Gulch.....	17
Bileiy Stream.....	20	Hasngot Stream.....	17
Bishi-gawa.....	19	Hauani Gulch.....	17
Burong Stream.....	20	Hauani Stream.....	17
		Hawaiian Electric Co. tunnel.....	7
Center ditch.....	13	Hawelewele Gulch.....	11
Cetti River.....	18	Heela Stream.....	9
Cetti River, Left Branch.....	18	Helemano Stream.....	10
Cetti River, Right Branch.....	18	Henan-gawa, North Fork.....	19
China ditch.....	6	Henan-gawa, Right Branch of South Fork.....	19
Chun Stream.....	20	Hiji-gawa.....	19
Chunge Spring.....	19	Hilea Gulch tributaries.....	17
		Hilo Boarding School ditch.....	15
Dalolab Stream.....	20	Hiloa ditch.....	4
Denni Spring.....	17	Hionamo Gulch.....	17
Ditch 1.....	15	Hiya-gawa.....	19
Donni Spring.....	17	Hiza-gawa.....	19
		Hoea Stream.....	6
East Achugau Stream.....	17	Homaikawaa Stream.....	6
East Branch or Fork. See name of main stream.....		Honokaa diversion.....	16
East Honokane Iki intake.....	17	Honokaia Gulch.....	16
East Manoa ditch.....	8	Honokaia Gulch, East Fork of Left Branch.....	16
East Wailuaiki Stream.....	12	Honokane Nui Stream, East Branch.....	17
East Wailuanui Stream.....	12	Honokane Nui Stream, West Branch.....	17
Echapachik Stream.....	20	Honokawai ditch.....	15
		Honokawai Stream.....	15
Faata Springs.....	18	Honokeana Gulch.....	14
Faga'alu Stream.....	21	Honokohau ditch.....	14
Fagafue Stream.....	21	Honokohau Stream.....	14
Fansinifo Stream.....	20	Honolii Stream.....	16
Fara Swamp outlets.....	20	Honolua ditch.....	14

	Page		Page
Honolua Stream.....	14,15	Kapaa ditch.....	5
Honomanu Stream.....	12	Kapaa River.....	5
Honomanu Stream, Fourth Branch.....	12	Kapaa Stream.....	5,6
Honomanu Stream, Seventh Branch.....	12	Kapahi ditch.....	5
Honopou Stream.....	13,14	Kapaloa Stream.....	15
Honouliuli Stream.....	7	Kapaula Gulch.....	12
Hoolawaliili Stream.....	13	Kapaula Stream.....	12
Hoolawanui Stream.....	13	Kapehu ditch.....	15
Hoolainaiwa Stream.....	9	Kapehu ditch diversion.....	15
Hop Tuck ditch.....	9	Kapehu Stream.....	15,16
Huleia River.....	5	Kapuhi Stream.....	11
Huleia Stream.....	5	Kapuna Stream.....	11
Iao Stream.....	14	Kauaikinana Stream.....	4
Imong River.....	18	Kauaula ditch.....	15
Imor Stream.....	20	Kauaula Stream.....	15
Inarajan River.....	18	Kauaula Stream, North Fork.....	15
Inarajan River, Left Fork of Left Branch.....	18	Kauaula Stream, South Fork.....	15
Inarajan River, Left Fork of Right Branch.....	18	Kauhikoa ditch.....	14
Inarajan River, Right Fork of Left Branch.....	18	Kaukonahua ditch.....	7
Inarajan River, Right Fork of Right Branch.....	18	Kaukonahua Stream.....	7
Inoaole Stream.....	8	Kaukonahua Stream, Left Branch of North Fork.....	7
Iolekaa Stream.....	9	Kaukonahua Stream, North Fork.....	7
Iolekaa Stream mauka.....	9	Kaukonahua Stream, Right Branch of North Fork.....	7
Janum Spring.....	19	Kaukonahua Stream, Right Branch of South Fork.....	7
Ka Loko ditch.....	6	Kaukonahua Stream, South Fork.....	7
Kaaiea Gulch.....	13	Kaunakakai Gulch.....	11
Kaaiea Stream.....	13	Kaunakakai Stream.....	11
Kaehulua Stream.....	5	Kaunalu Gulch.....	11
Kaehulua Stream, North Fork.....	5	Kaupuni Stream.....	7
Kaehulua Stream, South Fork.....	5	Kawa Stream.....	9
Kaeleku flume.....	11	Kawaiki Stream.....	16
Kaelepulu Stream.....	9	Kawaikoi Stream.....	4
Kahakuloa Stream.....	14	Kawailena Stream.....	11
Kahalawe Stream, Right Branch.....	11	Kawainui Canal.....	9
Kahaluu Stream.....	9	Kawainui River.....	16
Kahana Stream.....	10	Kawainui Stream (Island of Hawaii).....	16
Kahana Stream, East Branch.....	10	Kawainui Stream (Island of Molokai).....	11
Kahanaiki Stream.....	9	Kawainui Stream (Island of Oahu).....	10
Kahanaiki Stream, North Branch.....	9	Kawainui Stream, Branches 1, 2, and 3.....	16
Kahanaiki Stream, South Branch.....	9	Kawainui Swamp drainage canal.....	9
Kahawainui Stream, East Branch.....	10	Kawaipapa Gulch.....	11
Kahilipali Nui Gulch.....	17	Kawaipoka Stream.....	11
Kahoma development tunnel.....	15	Kawela Gulch, East Fork.....	11
Kahoma ditch.....	15	Kawela Gulch, Right Branch of East Fork.....	11
Kahoma Stream.....	15	Kawela Stream, East Fork.....	11
Kahuawai Spring.....	8	Kawela Stream, Right Branch of East Fork.....	11
Kailua Stream (Island of Maui).....	13	Kawi Stream.....	5
Kailua Stream (Island of Oahu).....	9	Keahala Stream.....	9
Kailua Stream, East Branch.....	13	Keahua Stream.....	5
Kailua Stream, Ninth Branch.....	13	Keanuimano Stream.....	17
Kailua Stream, Tenth Branch.....	13	Keehia Gulch.....	16
Kaimi Stream.....	9	Kehena ditch.....	17
Kaimu Stream.....	16	Kekaha ditch.....	4
Kaipapau Stream.....	10	Keolewa Stream.....	11
Kaiwikoele Stream.....	10	Keoneelele flat.....	17
Kakaako Gulch.....	11	Keopu Stream.....	17
Kalalau Stream.....	6	Kepuni Gulch.....	11
Kalaoa Mauka Stream.....	16	Kiilae Stream.....	17
Kalauao Stream.....	7,8	Kipapa Stream.....	7
Kalianui Gulch.....	14	Koae Stream.....	4
Kalihi Stream.....	8	Kohakohau Stream.....	17
Kalihiwai ditch.....	6	Kohala ditch.....	17
Kalihiwai River.....	6	Kolawe Stream.....	16
Kaloi Gulch.....	7	Kokee ditch.....	4
Kaluanui ditch.....	14	Koloa ditch.....	5
Kaluanui Stream.....	10	Koloa Gulch.....	10
Kaluaapeelua Gulch.....	11	Koloa Stream.....	10
Kaluapulani Gulch.....	14	Koloa tunnel.....	5
Kamakalepo Stream.....	9	Konohiki Stream.....	5
Kamakoa Gulch.....	17	Koolau ditch (Island of Maui).....	12,13
Kamananui Stream.....	10	Koolau ditch (Island of Oahu).....	7
Kamiloloa Gulch.....	11	Kopiliula Stream.....	12
Kamooalii Stream.....	9	Koula River.....	4
Kamooloa Stream.....	5	Koula River, East Fork.....	4
Kanaha ditch.....	5	Kuia Stream.....	5
Kanaha Stream.....	15	Kukui Stream.....	16
Kanegusuku-gawa.....	12	Kukuila Gulch.....	11
Kaneha ditch.....	6	Kula diversion from Haipuaena Stream.....	12
Kaneho Stream.....	9	Kulanihakoi Gulch.....	15
Kanna-gawa.....	19	Kuliouou Stream.....	8
		Kuliouou Valley.....	8
		Kumekumeyel River.....	20
		Kuna ditch.....	6

	Page		Page
Kuou ditch.....	9	Matafao Stream.....	21
Kuou Stream.....	9	Matagimalie Stream.....	22
		Matavai Stream.....	21
La Sa Fua River.....	18	Matuu Stream.....	21
Laelae River.....	18	Mauka ditch.....	7
Lahainaluna ditch.....	15	Maunawili ditch.....	9
Lahainaluna Stream.....	15	Maunawili Stream.....	9
Lahainaluna weirs 1 and 2.....	15	Middle Branch or Fork. See name of main stream.	
Laloi Stream.....	22	Miyagi-gawa.....	19
Lalolama Stream.....	22	Moanalua Stream.....	8
Lalolamauta Stream.....	22	Mohihi Stream.....	4
Lanipuni Stream.....	11	Mokihana Stream.....	4
Laoulu Stream.....	20	Mokomoko Gulch.....	11
Launiupoko Stream.....	15	Moloata Stream.....	21
Lawai Stream.....	5	Molokai tunnel.....	11
Leafu Stream.....	21, 22	Moole ditch.....	8
Leaveave Stream.....	21	Moomoonui Gulch.....	11
Leaveave Stream, Lower Right Branch.....	21	Morikone Pond Outlet.....	7
Leaveave Stream, Upper Right Branch.....	21	Mukue-gawa.....	19
Lee ditch.....	9	Mulirolevai Stream.....	22
Leele Stream.....	21		
Left Branch or Fork. See name of main stream.		Nachiponong Stream.....	20
Lepa Stream.....	20	Nagata-gawa.....	19
Lesea Stream.....	22	Nahomalu Stream.....	6
Lesina Stream.....	21	Nahomalu Valley.....	6
Leua Stream.....	21	Nailililihaele Stream.....	13
Lihue ditch.....	5	Nailililihaele Stream, Second Branch.....	13
Lonfit River.....	18	Nailililihaele Stream, West Branch.....	13
Lower Anahola ditch.....	6	Nanakuli Stream.....	7
Lower Haiku ditch.....	5	Nanepil River.....	20
Lower Hamakua ditch.....	16	Nefounumas Spring.....	20
Lowrie ditch.....	14	New Hamakua ditch (Island of Hawaii).....	16
Luahine Gulch.....	17	New Hamakua ditch (Island of Maui).....	13, 14
Luakaha weir.....	8	Ninole Gulch.....	17
Lui River.....	20	North Branch or Fork. See name of main stream.	
Luluku Stream.....	9	North Halawa Stream.....	8
Lulumahu ditch.....	8	North Luluku ditch.....	9
Lumahai River.....	6	North Waiehu ditch.....	14
		North Waiehu Stream.....	14
		North Wailua ditch.....	5
		Nuuanu Stream.....	8
Maagas River.....	18		
Mabu Stream.....	20	O-kawa.....	19
Machinato-gawa.....	19	O-kawa, Left Fork.....	19
Madog River.....	18	Oanui Stream.....	13
Maga Stream.....	22	Ogesosopo Stream.....	22
Maililili Stream.....	7	Oheo Stream.....	11
Main Spring.....	9	Oi-kawa.....	19
Makaelelele Stream.....	11	Oio Stream.....	10
Makaha Stream.....	7	Okukubi-gawa.....	19
Makaleha ditch.....	5	Olaa flume.....	15
Makaleha Stream.....	7	Old Hamakua ditch.....	13, 14
Makamakaole Stream, Left Branch.....	14	Olokele ditch.....	4
Makapiipi ditch.....	12	Olokele River.....	4
Makapiipi Stream.....	12	Olowalu ditch.....	15
Makaua Stream.....	10	Olowalu Stream.....	15
Makawao ditch.....	9	Oopuola Stream.....	13
Makawao flume.....	9	Opaekea Stream, Left Branch.....	5
Makawao Spring.....	9	Opaeula Stream.....	10
Makawao Stream.....	9	Opapa ditch.....	14
Makaweli River.....	4	Opapa Gulch, East Branch.....	14
Makiya-okawa.....	19	Opapa Stream.....	14
Makua Stream.....	7	Opapa Stream, East Branch.....	14
Malaekahana Stream.....	10	Opapa tunnel.....	14
Malaekahana Stream, East Branch.....	10	Oura-gawa.....	19
Malaekahana Stream, Middle Branch.....	10	Owaluhi Gulch.....	14
Malaowaiakole Gulch.....	15		
Maliko Bay, unnamed gulch.....	14	Paaiiau Gulch.....	17
Maloata Stream.....	21	Paakea Gulch.....	12
Maluhia Camp, unnamed gulch.....	14	Paakea Stream.....	12
Manawainui Gulch.....	11	Pago River.....	18, 19
Manengon River.....	18	Pago Stream.....	21
Maniania ditch.....	14	Paiaakuli Reservoir tributary.....	17
Manna-gawa.....	19	Palai Stream.....	15
Manoa Stream.....	8	Palikea Stream.....	11
Manoa Stream, East Branch.....	8	Palolo ditch.....	15
Manoa Stream, West Branch.....	8	Palolo Stream.....	8
Manoa-Palolo drainage canal.....	8	Panota Stream.....	20
Manowaiopae Stream.....	16	Paopao Stream.....	16
Manuahi Stream.....	4	Papa Stream.....	21
Manuel Luis ditch.....	12, 13	Papalaua Stream.....	11
Mapusagatua Stream.....	21	Papio Gulch.....	11
Masso River.....	18	Pasamano River.....	18
Mataali Stream.....	21		

	Page		Page
Pauliluc River.....	18	Tawonjokola River.....	20
Paumalu Gulch.....	10	Teema-gawa.....	19
Pauoa Stream.....	8	Televai Stream.....	22
Pearl Harbor Springs.....	7	Tehgan Dam spillway.....	19
Pelekunu Stream.....	11	Tengan Reservoir.....	19
Pemgoy Stream.....	20	Tengan-gawa.....	19
Piga Spring.....	18	Thalomar Stream.....	20
Piho Stream.....	9	Toguan River.....	18
Piihonua Stations Nos. 1-4.....	15	Tolaeyuus River.....	18
Pilipililau Stream.....	11	Tumunu Stream.....	20
Pipe ditch.....	5	Tunnel ditch.....	5
Poamoho Stream.....	7		
Poamoho tunnel.....	7	Ufu-kawa.....	19
Poelua Gulch.....	14	Ugum River.....	18
Pohakea Stream.....	9	Ugum River, Left Branch.....	18
Pohakuhonu Stream.....	6	Ugum River, Right Branch.....	18
Pohakupili Gulch.....	11	Uhau Iole Stream.....	5
Pohakupuka Stream.....	16	Ukumehame Gulch.....	15
Poowaiomahaihai ditch.....	4	Ukumehame Stream.....	15
Popoo Gulch.....	17	Ulehawa Stream.....	7
Pou Stream.....	20	Ululoloa Stream.....	22
Puea mauka ditch.....	7	Umatac River.....	18
Puhawai Stream.....	7	Umatac River, Left Fork of Left Branch.....	18
Pukele Stream.....	8	Umatac River, Right Branch.....	18
Pukuilua Gulch.....	11	Umatac River, Right Fork of Left Branch.....	18
Pulena Stream.....	11	United States Army ditch.....	7
Pump ditch.....	8	Upper Haiku ditch.....	5
Puna Stream.....	21	Upper Hamakua ditch.....	16
Punalulu Stream.....	16	Utuanuatele Stream.....	21
Punaluu ditch.....	10	Utuanua Itiiti Stream.....	21
Punaluu Stream.....	10	Utuanua Tele Stream.....	21
Punaula Gulch.....	11	Utumea Stream.....	21
Punaula Stream.....	11	Utumoa pipeline diversion.....	21
Puohokamoa intake.....	13	Utumoa Stream.....	21,22
Puohokamoa Stream.....	13		
Puohokamoa Stream, East Branch.....	12	Vaialae Stream.....	21
Puohokamoa Stream, Middle Branch.....	12	Vaialili Stream.....	22
Puohokamoa Stream, West Branch.....	12	Vaifusi Stream.....	22
Puu Ka Ele ditch.....	6	Vailloa Stream.....	20
Puukumi Stream.....	6	Vailolo Stream.....	21
		Vaima Stream.....	21
Rapugau Stream.....	17	Vaipito Stream.....	21,22
Reservoir ditch.....	9	Vaipuna Stream.....	21
Ripu Stream.....	20	Vaisa Stream.....	20,21
Ross ditch.....	6	Vaisa Stream, Left Fork.....	20
		Vaisa Stream, Right Fork.....	20
Sabu River.....	18	Vaisina Stream.....	22
Santa Rita Spring.....	18	Vaitele Stream.....	21,22
Santa Rosa Spring.....	19	Vaitele Stream, Left Branch.....	21
Sarasa River.....	18	Vaitele Stream, Right Branch.....	21
Sauino Stream.....	21	Vaitolu Stream.....	20
Sigaloa Stream.....	21	Visa Stream.....	22
Sigua River.....	19	Visa Stream, Left Branch.....	22
Siligin Spring.....	18	Visa Stream, Middle Fork.....	22
Soonapule Stream.....	21	Visa Stream, Right Branch.....	22
South Branch or Fork. See name of main stream.			
South Waiehu ditch.....	14	Waiaka Stream.....	12
South Waiehu Stream.....	14	Waiaalala Stream.....	16
Spreckels ditch.....	12,13,14	Waiaha Stream.....	17
Stable storm ditch.....	5	Waiaha Stream, Right Branch.....	17
Suginda-gawa.....	19	Waiahi-Kuia aqueduct.....	5
Sukuta-kawa.....	19	Waiahole Stream.....	10
		Waiahole tunnel.....	10
Tabagaten River.....	19	Waiahole tunnel wasteway.....	10
Tagau Stream.....	21	Waiahulu stream.....	4
Taiho-okawa.....	19	Waiakamoi Stream.....	13
Taihoza-gawa.....	19	Waiakea Stream.....	15
Takazato-gawa.....	19	Waiakeakua Stream (Island of Molokai).....	11
Talagu Stream.....	20	Waiakeakua Stream (Island of Oahu).....	8
Talaloa Stream.....	21	Waiakoa Gulch.....	15
Taleyfac River.....	18	Waiakea Stream.....	15
Talofofa River.....	18	Waialae River.....	4
Talofofa Stream.....	17	Waialae Stream.....	4
Talofofa Stream, Middle Fork.....	17	Waialaenui Gulch.....	8
Talofofa Stream, North Fork.....	17	Waialala Springs.....	11
Talofofa Stream, South Fork.....	17	Waianu Stream.....	10
Tamaney Stream.....	20	Waiawa Stream.....	7
Taro patch feeder ditch.....	12	Waihanau Stream.....	11
Tauese Stream.....	21	Waihee Canal.....	14
Taumata Stream.....	21	Waihee River.....	14
Taumata Stream, Left Branch.....	21	Waihee Stream (Island of Maui).....	14
Taumata Stream, Right Branch.....	21	Waihee Stream (Island of Oahu).....	9
Tawannu River.....	20	Waihee Stream, North Fork.....	9

	Page		Page
Waihee Stream, South Fork.....	9	Waimanulilili Stream.....	16
Waihi Stream (tributary to Halona Stream).....	10	Waimea ditch.....	4
Waihi Stream (tributary to Pacific Ocean).....	8	Waimea Gulch.....	10
Waihoi Stream.....	10	Waimea River.....	4
Waililikahi Stream.....	16	Wainiha Canal.....	6
Waikakalaua Stream.....	7	Wainiha River.....	6
Waikamoi Stream.....	13	Waiohinu Springs, makai station.....	17
Waikamoi Stream, East Branch.....	13	Waiohinu Springs, mauka station.....	17
Waikamoi Stream, West Branch.....	13	Waiohue Gulch.....	12
Waikane Stream.....	10	Waiohue Stream.....	12
Waikapu ditch, South Side.....	15	Waioli Stream.....	6
Waikapu Stream.....	15	Waiomao Stream.....	8
Waikele Stream.....	7	Waipio ditch.....	9
Waikoloa Stream.....	17	Waipio River.....	16
Waikolu Stream.....	11	Waolani Stream.....	8
Wailau Stream.....	11	Wawaia Gulch.....	11
Waiiele Gulch.....	10	West Achugan Stream.....	17
Waiiele Stream.....	10	West Branch or Fork. See name of main stream.	
Wailoa ditch.....	13	West Kopiliula Stream.....	12
Wailoa Stream.....	16	West Makapiipi Spring.....	12
Wailua ditch.....	5	West Wailuaiki Stream.....	12
Wailua River.....	5	West Wailuanui Stream.....	12
Wailua River, East Branch of North Fork.....	5	Wichen River.....	20
Wailua River, North Fork.....	5	Wing Wo Tai ditch.....	9
Wailua River, South Fork.....	5		
Wailuanui Stream.....	12	Yanbilang Stream.....	20
Wailuku River.....	15	Yledigao River.....	18
Wailupe Gulch.....	8	Yling River.....	18
Waima Stream.....	16	Yling River, Left Branch.....	18
Waimalu Stream.....	7	Yofuke-gawa.....	19
Waimanalo ditch.....	8	Yona-gawa.....	19
Waimanalo Stream.....	8	Yonabaru-gawa.....	19
Waimano flood channel.....	7	Young Mau ditch.....	9



