

As the number of streams on which streamflow information is likely to be desired far exceeds the number of continuous-record stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than continuous-record stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in three tables. The first is a table of annual maximum stage and discharge at crest-stage stations, the second is a table of discharge measurements at low-flow partial-record stations, and the third is a table of discharge measurements at miscellaneous sites.

#### Crest-Stage Partial-Record Stations

Prior to 1973, crest-stage partial-record station records for the State of Hawaii were published in an annual progress report entitled "An Investigation of Floods in Hawaii." The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained for purposes of establishing the stage-discharge relation, but these are not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Revised and previously unpublished discharge at crest-stage partial-record stations.

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year maximum			Period of record maximum		
				Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Kauai</b>									
16052500	Lat 21° 54'11", long 159° 30'21", on right bank at private road bridge, 0.9 mi upstream from mouth, and 2.4 mi southwest of Koloa.	6.62	1962-63, 1964-72#, 1973-2005	02-23-89	6.76	3,700	01-31-75	11.37	5,810
Lawai Str nr Koloa				01-21-90	7.20	4,720			
				11-18-90	3.84	566			
				12-14-91	6.46	3,110			
				12-03-92	4.63	1,020			
				02-16-94	3.56	445			
				10-03-94	6.54	3,260			
				11-09-95	4.98	1,300			
				04-10-97	5.43	1,710			
				04-24-98	2.53	146			
				02-01-99	4.31	812			
				12-20-99	3.75	525			
				06-08-01	4.23	765			
03-25-02	6.42	3,040							
03-06-03	3.45	403							
02-27-04	4.59	993							
16081200	Lat 22° 06'25", long 159° 22'07", at Kahuna Road crossing, 800 ft upstream from mouth, and 3.5 mi northwest of Kapaa army.	0.40	1964-2005	01-19-97	5.56	313	12-14-91	11.40	1,550
Akulikuli Str nr Kapaa				03-27-00	<4.00	<164			

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year maximum			Period of record maximum		
				Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)
<b>Island of Oahu</b>									
16211800	Lat 21° 28'44", long 158° 03'07", at Kaupuni Str at altitude 372 ft, nr Waianae	3.58	1961-72, 1973-2004	04-19-74	6.45	1,210	01-06-82	7.82	3,310
				1975	<3.38	<10			
				02-07-76	7.00	1,890			
				05-10-77	4.01	25			
				04-20-78	4.40	76			
				02-10-79	6.36	1,120			
				01-08-80	5.65	543			
				05-07-81	3.80	11			
				01-06-82	7.82	3,310			
				10-27-82	5.30	353			
				03-02-84	3.63	<10			
				11-27-84	4.67	135			
				10-20-85	5.87	691			
				11-10-86	<3.38	<10			
				01-01-88	5.53	471			
				04-09-89	5.23	321			
				01-16-90	5.44	422			
				03-19-91	5.13	279			
				10-16-91	6.37	1,130			
				12-30-92	5.38	391			
				03-24-94	5.34	372			
				10-03-94	3.96	21			
				06-13-96	4.03	27			
				11-14-96	7.23	2,230			
				10-09-97	3.75	<10			
				1999	<3.38	<10			
				10-19-99	3.94	19			
				03-31-01	<3.36	<10			
				03-17-02	4.12	36			
				11-29-02	3.50	<10			

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year maximum			Period of record maximum		
				Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)
<b>Island of Oahu</b>									
16212200	Lat 21° 27'34", long 158° 08'05", at	1.51	1958-2005	02-27-76	5.89	1,420	11-13-65	a3.85	2,200
Mailiili Str nr	bridge at Lualualei Naval			1977	<0.96	<200	01-06-82	c7.20	
Waianae	Reservation and 3.4 mi east of			04-20-78	1.55	230			
	cemetery nr Waianae.			02-10-79	3.42	679			
				01-08-80	2.14	359			
				02-05-81	1.33	<200			
				01-06-82	7.20	1,870			
				10-27-82	2.14	359			
				03-02-84	<0.98	<200			
				01-14-85	1.59	238			
				10-20-85	2.47	437			
				11-10-86	<0.98	<200			
				01-01-88	2.85	530			
				04-09-89	3.11	597			
				01-16-90	3.55	715			
				03-19-91	2.49	442			
				10-16-91	4.36	944			
				12-30-92	1.85	294			
				02-15-94	1.59	238			
				10-03-94	<0.98	<200			
				06-13-96	2.68	488			
				11-14-96	3.76	773			
				1998	<0.98	<200			
				1999	<0.98	<200			
				2000	<0.95	<200			
				2001	<0.95	<200			
				2002	<0.95	<200			
				2003	<0.95	<200			

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year maximum			Period of record maximum		
				Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Oahu</b>									
16212601	Lat 21° 28'44", long 158° 03'07", at	6.35	1958,	09-19-74	6.28	470	01-06-82	22.50	1,990
Waikele Str at	culvert 0.3 mi west of east-west		1960-2005	02-01-75	6.86	536			
Wheeler Field	runway at Wheeler Field and 1.9 mi southwest of Wahiawa Post Office.			02-07-76	13.32	1,320			
				04-19-77	4.34	271			
				08-08-78	2.25	101			
				02-10-79	7.94	667			
				01-08-80	5.83	421			
				10-25-80	2.96	153			
				01-06-82	22.50	1,990			
				10-27-82	6.04	443			
				03-02-84	4.68	303			
				02-14-85	3.28	178			
				10-20-85	6.00	439			
				03-24-87	3.93	233			
				12-31-87	6.65	512			
				12-06-88	5.75	412			
				01-16-90	6.37	480			
				03-19-91	7.44	606			
				10-16-91	7.79	649			
				11-13-92	5.56	392			
				09-18-94	5.13	347			
				01-14-95	1.77	69			
				01-25-96	5.53	389			
				11-16-96	8.95	798			
				10-09-97	2.43	114			
				07-20-99	8.00	675			
				12-02-99	4.30	267			
				03-25-01	6.52	497			
				11-27-01	6.26	468			
				06-08-03	5.26	361			
16224500	Lat 21° 23'07", long 157° 56'22",	2.59	1957-82 ,	05-06-02	12.54	565	05-14-63	a6.63	2,580
Kalauao Str at	on right bank at upstream side of		1984-91,	09-11-03	12.30	508			
Moanalua Road, at Aiea	Moanalua Road bridge, 0.4 mi northwest of Aiea Post Office, and 2.3 mi southeast of Pearl City Post Office.		2000-2005						
<b>Island of Maui</b>									
16630200	Lat 20° 56'58", long 156° 41'07", 0.5	5.59	1962-63#,	11-13-94	3.43	226	08-01-82	a11.0	4,520
Honokowai Str at	mi southeast of Honokowai and 1.1		1965-2005	03-31-96	5.30	900			
Honokowai	ni northwest of Puukolii.			01-20-97	4.30	482			
				11-25-97	3.27	187			
				02-21-99	4.93	728			
				12-03-99	3.80	322			
				10-28-00	3.79	319			
				01-26-02	4.74	648			
				04-10-03	4.59	588			
				01-01-04	6.16	1,380			



**Annual maximum gage height and discharge at crest-stage partial-record stations during water year 2005**

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year 2005 maximum			Period of record maximum		
				Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Kauai</b>									
16038000 Waimea River at Waimea	Lat 21° 57'23", long 159° 39'59", 150 ft upstream from highway bridge at Waimea and 0.2 mi upstream from mouth.	86.5	1944-2005b	01-01-05	7.27	-	02-07-49	11.40	-
16052000 Hanapepe River at Hanapepe	Lat 21° 54'47", long 159° 35'33", 400 ft upstream from bridge on Highway 50 and 0.5 mi upstream from mouth.	26.6	1950-2005b,r	01-01-05	4.94	-	04-15-63	11.30	-
16052500 Lawai Str nr Koloa	Lat 21° 54'11", long 159° 30'21", on right bank at private road bridge, 0.9 mi upstream from mouth, and 2.4 mi southwest of Koloa.	6.62	1962-63, 1964-72#, 1973-2005r	01-01-05	7.52	5,580	01-31-75	11.37	5,810
16055000 Huleia Str nr Lihue	Lat 21° 57'20", long 159° 25'23", at highway bridge, 3.7 mi southwest of Lihue, and 4.5 mi upstream from mouth.	17.6	1912-15#, 1962-67, 1968-70#, 1971-2005	01-01-05	17.08	12,700	11-28-70	22.40	26,800
16071800 Wailua Riv nr Kapaa	Lat 22° 03'00", long 159° 20'26", at State park 600 ft upstream from highway bridge, 850 ft upstream from mouth, and 2.5 mi southwest of Kapaa.	52.6	1962-2005b	01-01-05	6.97	-	11-26-70	8.57	-
16073500 Konohiki Str nr Kapaa	Lat 22° 04'01", long 159° 20'21", at culvert on private road, 1.8 mi upstream from mouth, and 2.4 mi southwest of Kapaa High School.	3.38	1964-67, 1970-2005r	01-01-05	12.28	700	12-14-91	16.92	2,530
16081200 Akulikuli Str nr Kapaa	Lat 22° 06'25", long 159° 22'07", at Kahuna Road crossing, 800 ft upstream from mouth, and 3.5 mi northwest of Kapaa armory.	0.40	1964-2005r	01-01-05	7.45	532	12-14-91	11.40	1,550
16084500 Kapaa Str at old highway crossing nr Kealia	Lat 22° 06'28", long 159° 19'52", at abutment of old highway bridge, 100 ft upstream from road crossing, 1.4 mi northwest of Kealia, and 2.1 mi upstream from mouth.	14.0	1962-2005	01-01-05	17.52	16,200	12-14-91	23.11	30,300
16097900 Puukumu Str nr Kilauea	Lat 22° 13'02", long 159° 25'18", at culvert on Highway 56, 0.8 mi northwest of Kilauea School, and 0.9 mi upstream from mouth.	0.91	1964-68, 1971-2005	11-25-04	6.80	336	04-07-71	17.27	1,430
16104200 Hanalei Riv at Highway 56 bridge nr Hanalei	Lat 22° 12'50", long 159° 28'43", at highway bridge, 1.6 mi northeast of Hanalei, and 2.4 mi upstream from mouth.	21.0	1963-2005b,r	02-02-05	11.24	-	11-03-95	13.82	-

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year 2005 maximum			Period of record maximum		
				Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Kauai-Continued</b>									
16130000	Lat 22° 02'41", long 159° 45'17", on Nahomalu Valley nr Mana and 5.3 mi northwest of Kekaha School.	3.81	1962-63, 1964-71#, 1972-2005	01-01-05	4.89	315	04-15-72	7.15	2,120
# Operated as a continuous-record gaging station b Gage height only r Revised 16052000 peak gage height and discharge published for water years 1963-92 were revised in water-resources data report for Hawaii, water year 1993. 16052000 peak gage height and discharge published for water years 1989-2004 were revised in water-resources data report for Hawaii, water year 2005. 16073500 peak gage height and discharge published for water year 1993 were revised in water-resources data report for Hawaii, water year 1999. 16081200 peak gage heights and discharges published for water years 1993-98 were revised in water-resources data report for Hawaii, water year 1999. 16081200 peak gage heights and discharges published for water years 1997 and 2000 were revised in water-resources data report for Hawaii, water year 2000. 16104200 peak gage height published for water years 1983-92 were revised in water-resources data report for Hawaii, water year 1993.									
<b>Island of Oahu</b>									
16210500	Lat 21° 33'56", long 158° 07'26", 0.2 mi upstream from Highway 99, 0.4 mi southeast of Waialua High School, and 1.3 mi southwest of Weed Circle.	38.7	1963, 1968-2005	2005	<19.30	unknown	04-15-63	26.4	15,600
16211300	Lat 21° 33'49", long 158° 09'21", 1.0 mi southwest of Dillingham Ranch and 1.9 mi southwest of former sugar mill at Waialua.	4.15	1958-63, 1964-65#, 1966-2005	02-07-04 02-11-05	10.18 8.82	444 200	11-13-65 11-14-96	a7.41 a9.41	3,640 -
16212200	Lat 21° 27'34", long 158° 08'05", at Mailiili Str nr Waianae bridge at Lualualei Naval Reservation and 3.4 mi east of cemetery nr Waianae.	1.51	1958-2005	02-27-04 02-04-05	2.39 2.21	418 376	01-06-82	7.20	2,460
16212300	Lat 21° 23'08", long 158° 08'11", on Nanakuli Str at Nanakuli left bank 0.7 mi southwest of Nanaikapono Elementary School, 1.8 mi north of Kahe Point Electric Plant, and 0.6 mi upstream of Farrington Highway.	3.98	1968-2005	01-02-04 02-04-05	22.00 20.85	779 unknown	02-07-76 10-20-85	a26.20 a26.28	3,320 -
16212450	Lat 21° 22'41", long 158° 03'45", at Kaloi Gulch Tributary nr Honouliuli culvert on private road, 1.8 mi west of Honouliuli, and 2.8 mi northwest of Ewa Post Office.	1.70	1968-2005	12-27-04	6.29	334	01-25-75 01-08-80	7.89 7.45	- 724
16212500	Lat 21° 22'40", long 158° 02'10", at Honoluliuli Str nr Waipahu bridge on Farrington Highway and 1.8 mi west of Waipahu Post Office.	11.0	1956-2005	12-27-04	3.55	unknown	01-06-82	10.28	3,500
16212601	Lat 21° 28'44", long 158° 03'07", at Waikele Str at Wheeler Field culvert 0.3 mi west of east-west runway at Wheeler Field and 1.9 mi southwest of Wahiawa Post Office.	6.35	1958, 1960-2005	12-27-04	6.53	498	01-06-82	22.50	1,850

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	2005 maximum			Period of record maximum		
				Water year Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Oahu--Continued</b>									
16212700 Waikakalaua Str nr Wahiawa	Lat 21 ° 27'50" , long 158° 01'37" , 0.2 mi downstream from Kamehameha Highway and 2.4 mi south of Wahiawa Post Office.	6.93	1958-2005	10-27-04	6.88	unknown	04-15-63	16.50	4,820
16215400 Waimano Str nr Pearl City	Lat 21 ° 25'11" , long 157° 57'47" , at Komo Mai Drive bridge, 0.5 mi northwest of Pearl City High School and 1.7 mi northeast of Pearl City Post Office.	5.15	2002-2005	02-04-05	5.63	1,430	02-27-04	6.60	1,180
16223000 Waimalu Str nr Aiea	Lat 21 ° 23'48" , long 157° 56'56" , 1,300 ft upstream from bridge on Moanalua Road and 1.2 mi north- west of Aiea High School.	5.97	1952-70#, 1973-2005	02-04-05	3.53	1,510	01-05-68 05-14-60	a6.82 a9.49	8,020 -
16224500 Kalauao Str at Moanalua Road, at Aiea	Lat 21 ° 23'07" , long 157 ° 56'22" , on right bank at upstream side of Moanalua Road bridge, 0.4 mi northwest of Aiea Post Office, and 2.3 mi southeast of Pearl City Post Office.	2.59	1957-82 , 1984-91, 2000-2005	12-07-03 02-04-05	13.99 13.14	923 705	05-14-63	a6.63	2,580
16228200 Moanalua Str nr Aiea	Lat 21 ° 22'37" , long 157 ° 53'03" , on right bank 1.1 mi northeast of Tripler Hospital and 2.9 mi east of Aiea sugar refinery.	3.34	1969-2005	10-30-04	4.64	877	03-18-80	9.97	4,860
16232000 Nuuanu Stream blw Reservoir 2 wasteway nr Honolulu	Lat 21 ° 20'57" , long 157° 49'40" , on right bank beside Old Pali Road in upper Nuuanu Valley, 0.2 mi down- stream from reservoir 2 wasteway, and 3.5 mi northeast of Honolulu Post Office.	3.35	1913-96, 2002-2005r	01-29-05	5.26	390	01-16-21	a8.74	6,990
16238000 Makiki Str at King Street Bridge	Lat 21°18'02" , long 157° 50'22" , on right bank, downstream of King Street Bridge at the intersection of Kalakaua Avenue, and 0.8 mi east of McKinley High School.	2.23	2003-2005	02-14-03 02-07-04 10-30-04	5.47 6.99 9.34	201 487 1,000	10-30-04	9.34	1,000
16241500 Manoa Str at Lowrey Avenue Bridge	Lat 21°18'53" , long 157° 48'41" , on Lowrey Ave., 0.4 mi south of Manoa Elem. School, and 1.4 mi northwest of Palolo Elem. School.	4.02	2004-2005	08-04-04 10-30-04	5.28 unknown	1,170 5,050	10-30-04	unknown	5,050

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	2005 maximum			Period of record maximum		
				Water year Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Oahu--Continued</b>									
16247000 Palolo Str nr Honolulu	Lat 21°17'35", long 157° 48'25", 250 ft downstream from bridge on Palolo Avenue, and 3.9 mi east of Honolulu Post Office.	3.63	1952-1979, 2004-2005	10-30-04	17.98	776	12-18-67	a5.98	4,270
16247130 Ala Wai Canal at Ala Wai Elem. School	Lat 21°17'16", long 157° 49'51", at Ala Wai Canal, 300 ft south of Ala Wai Elem. School, 30 ft south of the Ala Wai Community Garden	11.7	2004-2005b	11-13-04	2.74	-	06-14-03	2.82	-
16247160 Ala Wai Canal at Ala Moana Blvd. Bridge	Lat 21° 17'29", long 157° 50'35", on right bank, at downstream end of Ala Moana Blvd. Bridge, 0.9 mi NW of Ala Wai Elem. School.	16.0	2004-2005b	11-13-04	3.05	-	06-03-04	3.14	-
16247900 Kuliouou Valley at Kuliouou	Lat 21°17'50", long 157° 43'35", at Kuliouou, 300 ft downstream from single-lane wooden bridge, and 0.6 mi upstream from Highway 72.	1.18	1958-59, 1970-2005	02-27-04 01-29-05	28.94 29.60	834 1,250	12-31-87	36.55	4,700
16248950 Kahawai Str at Waimanalo	Lat 21° 21'04", long 157° 43'33", on left bank 30 ft downstream from Kalaniana'ole Highway bridge, 1.9 mi northwest of Waimanalo Post Office, and 0.75 mi southwest of Bellows Air Force Station radio towers.	1.18	1998-2005	01-29-05	8.68	unknown	01-02-04	9.11	unknown
16249000 Waimanalo Str at Waimanalo	Lat 21° 21'14" , long 157 °43'50" , on right bank 260 ft downstream from Highway 72 and 2.3 mi northeast of Waimanalo Post Office.	2.16	1967-70#, 1971-2005r	01-02-04 11-06-04	4.68 6.15	<490 unknown	02-14-85 03-06-63 11-26-70	10.82 - 10.00	- a4,560 a4,560
16249100 Kaelepulu Str tributary at Kailua	Lat 21° 21'44", long 157° 44'22", 30 ft upstream from Kalaniana'ole Highway, 1.6 mi northwest of Waimanalo School, and 2.4 mi south of Kailua Post Office.	0.16	1963-2005	01-29-05	2.62	79	12-31-87	7.53	467
16264600 Kawainui Marsh nr Levee Station 15+00	Lat 21° 23'53", long 157° 45'07", at Kawainui Marsh, 0.6 mi west of Kailua Elementary School and 1.1 mi southeast of Kalaheo High School. Datum of gage is at mean sea level.	11.0	2002-2005b,r	11-07-04	5.49	-	02-27-04	6.11	-
16264790 Kawainui Marsh nr Levee Station 64+00	Lat 21° 24'31" , long 157 °45'33" , at Kawainui Marsh, 0.2 mi south of Kalaheo High School, and 1.2 mi northwest of Kailua Elementary School. Datum of gage is at mean sea level.	11.0	2002- 2005b,r	10-05-03 01-10-05	2.94 2.68	- -	10-05-03	2.94	-

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year	2005 maximum	Dis-charge (ft <sup>3</sup> /s)	Period of record	maximum	Dis-charge (ft <sup>3</sup> /s)
				Date	Gage height (ft)		Date	Gage height (ft)	
<b>Island of Oahu--Continued</b>									
16264850 Kawainui Canal at Oneawa Street bridge	Lat 21° 24'44", long 157° 45'25", on Oneawa Street bridge and 0.15 mi southeast of Kalaheo High School. Datum of gage is at mean sea level.	11.0	2002-2005b,r	06-02-04 11-13-04	2.72 2.72	- -	06-02-04	2.72	-
16265000 Kawa Str at Kaneohe	Lat 21° 24'32", long 157° 47'36", 50 ft upstream from bridge on Kaneohe Bay Drive at Kaneohe, 0.2 mi northeast of Castle High School, and 0.6 mi upstream from mouth.	1.19	1965, 1968-74, 1977-2005	09-23-05	7.70	1,040	02-01-69	17.90	5,290
16274499 Keaahala Str at Kamehameha Highway, at Kaneohe	Lat 21° 25'12", long 157° 48'15", 35 ft upstream from bridge on Kamehameha Highway at Kaneohe.	0.62	1959-2005r	10-30-04	4.04	686	05-02-65	a11.50	2,750
16283480 Ahuimanu Str nr Kahaluu	Lat 21° 27'04", long 157° 50'13", at bridge on Ahuimanu Road and 0.8 mi south of Kahaluu.	2.31	1963-2005	02-11-05	5.76	486	02-01-69 11-25-70	a11.80 a14.30	7,300 7,300
16308500 Kahawainui Stream at Laie	Lat 21° 39'25", long 157° 55'57", 800 ft northeast of Zion Cemetery on upstream side of bridge at Kamehameha Highway.	4.79	1997-2005b	09-14-05	5.29	-	01-29-02	5.55	-
16310501 Malaekahana Str at altitude 30 ft, nr Kahuku	Lat 21° 39'47", long 157° 57'11", at abandoned plantation railroad bridge, 1.1 mi southwest of junction of plantation road and Highway 83, and 1.2 mi south of Kahuku Hospital.	4.05	1958-2005	10-26-04	14.39	1,180	04-15-63 10-26-04	a12.10 14.39	4,640 -
16311000 Oio Stream nr Kahuku	Lat 21° 42'02", long 157° 59'43", on left bank of stream 30 ft upstream of Highway 83 and 3.0 mi northwest of Kahuku Hospital.	2.27	1958-2005	10-27-04	7.86	332	05-02-65 11-14-96	a8.13 a8.63	1,390 -
16331000 Waimea Gulch nr Kawaihoa Camp	Lat 21° 37'29", long 158° 04'58", at culvert on Ashley Road, 0.1 mi upstream from Highway 83, and 1.1 mi north of Kawaihoa Camp.	2.23	1968-2005	02-01-05	1.49	63	03-18-80	11.2	2,030
16350000 Opaeula Str nr Haleiwa	Lat 21° 35'09", long 158° 06'01", 0.6 mi upstream from Kamehameha Highway and 2.1 mi northeast of Waialua.	5.96	1956-2005	10-27-04	13.01	1,400	04-19-74	20.7	7,600

< Actual value is known to be less than the value shown

# Operated as a continuous-record gaging station

a At old gage datum

b Gage height only

r Revised

16232000 peak discharge for water year 2002 was revised in water resources data report for Hawaii, water year 2003.

16249000 peak discharge for water year 1994 was revised in water resources data report for Hawaii, water year 2003.

16264600 peak gage height for water year 2002 was revised in water resources data report for Hawaii, water year 2003.

16274499 peak gage height for water year 2002 was revised in water resources data report for Hawaii, water year 2003.

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year 2005 maximum			Period of record maximum		
				Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)
<b>Island of Molokai</b>									
16411300 Kakaako Gulch at Highway 46 nr Mauna Loa	Lat 21° 08'49", long 157° 11'36", at Highway 46, 1.6 mi northeast of Mauna Loa, and 1.8 mi upstream from Kamakahi Gulch.	0.55	1964-85, 2003-2005		No flow		04-13-65	a3.06	80
16411640 Halena Gulch nr Mauna Loa	Lat 21° 05'53", long 157° 13'47", 2.7 mi southwest of Mauna Loa and 5.5 mi east of Laau Point.	2.07	1965-2005	01-09-05	3.54	580	01-11-74	8.20	2,920
16411800 Kaluapeelua Gulch at Hoolehua	Lat 21° 09'55", long 157° 04'22", 0.4 mi south of Hoolehua and 2.1 mi west of Kualapuu.	1.46	1964-2005		No flow		12-08-73	3.30	86
16413500 Manawainui Gulch nr Kualapuu	Lat 21° 07'42", long 157° 03'25", located 630 ft upstream of Hwy 46, 0.5 mi south of Holomua School, and 2.3 mi southwest of Kualapuu.	10.4	1965-87, 2000-2005r	12-09-04	7.79	451	04-04-89	-	3,620
16415400 Wawaia Gulch at Kamalo	Lat 21° 03'25", long 156° 52'20", at Highway 45, 0.3 mi upstream from mouth, and 0.5 mi northeast of Kamalo.	2.12	1964-2005	03-09-05	1.90	705	04-13-65	2.61	1,250
16419000 Pohakupili Gulch nr Halawa	Lat 21° 07'59", long 156° 44'15", at Highway 45, 0.5 mi upstream from mouth, and 1.9 mi south of Halawa.	0.48	1964-2005	03-10-05	5.31	53	11-04-66	8.93	989
a At old gage datum r Revised	16413500 peak discharge published for water year 1988 and 1990-97 were revised in water-resources data report for Hawaii, water year 2001.								

**Island of Maui**

16500100 Kepuni Gulch nr Kahikinui House	Lat 20° 37'21", long 156° 15'16", on right bank 120 ft upstream from bridge on Highway 31, 400 ft upstream from Kamole Gulch, 1.1 mi east of Kahikinui House, and 8.1 mi west of Kaupo.	1.91	1963-72#, 1973-2005	01-10-05	<2.96	<19	09-18-94	13.68	2,320
16500300 Hawelewele Gulch nr Kaupo	Lat 20° 38'01", long 156° 11'08", 700 ft upstream from Piilani Highway 31 and 3.9 mi west of Kaupo.	11.3	1967-2005	01-10-05	7.67	1,900	01-08-80	15.10	13,600

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year	2005 maximum	Dis-charge (ft <sup>3</sup> /s)	Period of record	maximum	Dis-charge (ft <sup>3</sup> /s)
				Date	Gage height (ft)		Date	Gage height (ft)	
<b>Island of Maui--Continued</b>									
16500800 Kukuiula Gulch nr Kipahulu	Lat 20° 39'18", long 156° 04'44", 500 ft upstream of Highway 31, 1.3 mi west of Kipahulu, and 3.2 mi east of Kaupo.	0.76	1963-68#, 1969-2005	10-12-04	4.35	unknown	03-31-82	13.76	5,950
16502400 Pukuilua Gulch nr Hana	Lat 20° 42'00", long 156° 00'14", at Highway 31, 0.4 mi southwest of Puuiki and 4.0 mi south of Hana.	0.48	1963-2005	01-27-05	3.23	141	01-23-65	9.30	788
16502800 Moomoonui Gulch at Hana	Lat 20° 44'37", long 156° 59'18", at Highway 31 just downstream from Moomooiki Gulch and 1.0 mi south of Hana.	0.90	1963-2005	01-09-05	11.27	unknown	10-29-00	15.64	2,950
16502900 Kawaipapa Gulch at Hana	Lat 20° 46'08", long 156° 00'04", 1,000 ft upstream from Highway 36 and 0.3 mi northwest of Hana Hospital.	5.83	1965-2005	11-14-04	10.05	unknown	10-29-00	14.53	e22,200
16603700 Kaliialinui Gulch tributary nr Pukalani	Lat 20° 49'02", long 156° 19'44", at Lower Kula Road and 1.4 mi south of Pukalani.	1.17	1967-2005	01-02-05	2.37	unknown	07-23-64d	11.2	805
16603800 Kaluapulani Gulch tributary nr Pukalani	Lat 20° 48'52", long 156° 18'32", at upstream side of Haleakala Highway, 1.5 mi west of Olinda Prison Camp and 2.3 mi southeasst of Pukalani.	0.45	1963-2005		No flow		07-23-64	9.90	306
16603850 Kaliialinui Gulch nr Kahului	Lat 20° 52'47", long 156° 26'05", 320 ft upstream of Hansen road, 0.7 mi southwest of junction of Haleakala and Hana Highways and 2.5 mi southeast of Kahului Post Office.	17.9	1967-2005	01-02-05	5.06	unknown	01-28-71	8.33	1,330
16607000 Iao Str at Wailuku	Lat 20° 53'38", long 156° 30'27", 520 ft upstream from Market Street bridge at Wailuku and 1.9 mi upstream from mouth.	8.24	1951#, 1952-2005	01-02-05	4.82	3,060	12-03-50	6.21	7,540
16616500 Unnamed gulch at Maluhia Camp	Lat 20° 57'26", long 156° 31'41", at Kahekili Highway, 0.6 mi east of Maluhia Camp and 1.8 mi northwest of Waihee.	0.12	1964-2005		No flow		01-12-75	7.29	e97
16619700 Poelua Gulch nr Kahakuloa	Lat 21° 00'58", long 156° 34'58", at Highway 30, 1.3 mi southeast of Nakalele Point lighthouse and 2.2 mi northwest of Kahakuloa.	1.18	1965-2005r	03-29-05	6.22	128	03-16-68	15.22	1,760

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	2005 maximum			Period of record maximum		
				Water year Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Maui--Continued</b>									
16630200 Honokowai Str at Honokowai	Lat 20° 56'58", long 156° 41'07", 0.5 mi southeast of Honokowai and 1.1 mi northwest of Puukolii.	5.59	1962-63, 1965-2005r	09-13-05	4.50	554	08-01-82	a11.0	4,520
16638500 Kahoma Str at Lahaina	Lat 20° 53'12", long 156° 40'36", 0.2 mi west of Kelaweia, 0.6 mi northeast of Lahaina, 0.6 mi downstream from Kanaha Str and 0.9 mi upstream from mouth.	5.22	1963-89#, 1990-2005	09-13-05	7.74	998	07-11-65	11.03	2,490
16643300 Kauaula Str nr mouth, nr Lahaina	Lat 20° 52'09", long 156° 39'43", 0.7 mi upstream from Honoapiilani Highway and 1.3 mi east of Lahaina Lighthouse.	4.12	1960, 1962, 1964-2005	01-02-05	3.79	322	05-13-60	a7.9	2,660
16646200 Olowalu Str at Olowalu	Lat 20° 49'23", long 156° 37'15", on left bank rock wall 8 ft downstream of bridge, 0.6 mi northeast of Olowalu, and 5.5 mi southeast of Lahaina.	4.08	1962-72#, 1973-2005	01-02-05	5.26	unknown	03-24-67	5.40	1,300
16647500 Malalowaihole Gulch nr Maalaea	Lat 20° 46'56", long 156° 31'32", at Honoapiilani Highway, 200 ft upstream from mouth, 0.2 mi southwest of Maalaea.	0.64	1964-2005		No flow		01-10-80	12.95	350
16650200 Waikapu Str at Waikapu	Lat 20° 51'20", long 156° 30'08", 500 ft downstream from Highway 30 bridge in Waikapu.	3.45	2002-2005	01-02-05	6.81	624	02-27-04	8.20	1,400
16658500 Waiakoa Gulch tributary nr Waiakoa	Lat 20° 44'56", long 156° 19'22", at Upper Kula Road, 1.0 mi southeast of Waiakoa, and 1.0 mi northeast of junction of Highway 37 and Highway 377.	0.98	1964-2005		No flow		01-28-71	8.23	409
16659000 Waiakoa Gulch at Kihei	Lat 20° 47'15", long 156° 27'42", 0.3 mi northeast of Kihei and 0.4 mi upstream from mouth.	10.1	1963-2005		No flow		01-28-71	9.66	1,560
16660000 Kulanihakoi Gulch nr Kihei	Lat 20° 46'00", long 156° 27'03", on right bank 0.5 mi northeast of Lihue Cemetery, 0.8 mi upstream from mouth, and 1.3 mi southeast of Kihei.	14.4	1963-70#, 1971-2005		No flow		01-28-71	9.40	4,460

< Actual value is known to be less than the value shown

# Operated as a continuous-record gaging station

a At old gage datum

d Historic peak outside period of record

e Estimated

r Revised

16619700 peak gage-height and discharge published for water year 1999 were revised in water-resources data report for Hawaii, water year 2000.

16630200 peak gage-height and discharge published for water year 1997 were revised in water-resources data report for Hawaii, water year 2000.

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	2005 maximum			Period of record maximum		
				Water year Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis-charge (ft <sup>3</sup> /s)
<b>Island of Hawaii</b>									
16701400 Palai Str at Hilo	Lat 19° 40'56", long 155° 04'04", 160 ft. upstream of Olu Street and 3.6 mi. southeast of Hilo Post Office.	5.06	1965-71, 1979-80, 1994, 2002-05r	09-15-05	4.69	unknown	11-02-00	unknown	1,580
16717400 Kalaoa Mauka Stream near Hilo	Lat 19° 48'07", long 155° 06'03", on upstream side of Hwy 19, 1.0 mi north of Papaikou, 5.1 mi north of Hilo Post Office.	0.24	1963-67, 1973-76, 1978-79, 1985, 2002-05r	09-15-05	7.34	169	02-20-79	20.60	400
16717600 Alia Str nr Hilo	Lat 19° 50'38", long 155° 06'21", on upstream right bank wingwall of culvert on Highway 19 at Pepeekeo 2.0 mi south of Honomu, and 8.0 mi north of Hilo.	0.58	1962-72, 1979, 1986, 1994-2005r	09-15-05	8.89	300	02-20-79	17.1	2,850
16717650 Kapehu Str nr Pepeekeo	Lat 19° 51'52", long 155° 06'11", at culvert on Highway 19, 1.0 mi southeast of Honomu, 2.2 mi north of Pepeekeo, and 9.4 mi north of Hilo.	1.09	1963-68, 1975, 1979, 1985-86, 1994-2005r	09-15-05	6.93	584	02-20-79	29.93	3,320
16717850 Keehia Gulch nr Ookala	Lat 20° 01'08", long 155° 18'45", at culvert on Highway 19, 1.7 mi west of Ookala, and 4.1 mi southeast of Paauilo.	0.62	1963-91, 1993-2005						Records being reviewed.
16717920 Ahualoa Gulch at Honokaa	Lat 20° 05'12", long 155° 29'17", at Highway 24, 1.1 mi northwest of Honokaa Hospital, and 1.5 mi upstream from mouth.	0.62	1963-90, 1995-2005						Records being reviewed.
16752600 Hapahapai Gulch at Kapaa	Lat 20° 14'00", long 155° 48'00", at Highway 27, 300 ft east of Kapaa Post Office.	1.52	1963-90, 1995-2005	unknown	unknown	unknown			Previous records being reviewed.
16755800 Luahine Gulch nr Waimea	Lat 20° 03'11", long 155° 44'35", on culvert 5.1 mi northwest of Waimea and 5.7 mi east of Kawaihae.	0.32	1963-90, 1995-2005						Records being reviewed.
16756500 Keanuiomano Str nr Kamuela	Lat 20° 01'48", long 155° 42'05", on left bank 150 ft upstream from Highway 25 at Waiaka and 2.0 mi west of Kamuela.	4.3	1964-72#, 1973-2005r	11-16-05	5.52	375	04-20-68	10.02	3,540
16759040 Paiakuli Reservoir tributary nr Waimea	Lat 20° 02'16", long 155° 38'08", at Highway 19, 2.1 mi west of Puukapu Reservoir, and 2.6 mi northeast of Waimea.	0.27	1963-70, 1994-2005r	03-28-05	5.45	84	03-14-04	8.65	856

Station name and number	Location	Drainage area (mi <sup>2</sup> )	Period of record	Water year 2005 maximum			Period of record maximum		
				Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)	Date	Gage height (ft)	Dis- charge (ft <sup>3</sup> /s)
<b>Island of Hawaii-Continued</b>									
16759060	Lat 19° 57'32", long 155° 41'02", at	50.6	1963-68,	08-08-05	3.94	95	01-16-63	4.35	1,290
Kamakoa Gulch nr	bridge, 1.4 mi north of Saddle Road		1972-74,						
Waimea	Junction, and 4.5 mi south of		1979,						
	Waimea.		1982-83,						
			1994-2005r						

- # Operated as a continuous-record gaging station  
f 16759040 probable backwater from debris in culvert entrance  
r Revised  
16717400 peak gage height and discharge published for water years 1968-72, 1977, 1979-84, 1986-90 were revised in water-resources data report for Hawaii, water year 1999.  
16717600 peak gage height and discharge published for water years 1973-78, 1980-90, 1995-97 were revised in water-resources data report for Hawaii, water year 1998.  
16717650 peak gage height and discharge published for water years 1966, 1969-74, 1976-78, 1980-84, 1987-90, 1996, 1999-2000 were revised in water-resources data report for Hawaii, water year 2001.  
16756500 peak gage height and discharge published for water years 1964, 1975, 1978, 1991-96 were revised in water-resources data report for Hawaii, water year 1998.  
16759040 peak gage height and discharge published for water years 1966, 1971-90, 1994-98 were revised in water-resources data report for Hawaii, water year 1999.  
16759060 peak gage height and discharge published for water years 1967, 1969-71, 1973, 1975-79, 1981, 1984-90, 1994-2002 were revised in water-resources data report for Hawaii, water year 2003.  
16759060 peak gage height and discharge published for water years 2003-04 were revised in water-resources data report for Hawaii, water year 2005.