


May 26, 2021

MEMO TO: APT-57 File

F R O M: Shane M. Sinenci, Chair 
Agriculture and Public Trust Committee

SUBJECT: **TRANSMITTAL OF INFORMATIONAL DOCUMENT RELATING TO
THE WATER USE AND DEVELOPMENT PLAN FOR MAUI** (APT-57)

The attached informational document pertains to Item 57 on the Committee's agenda.

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Attachment

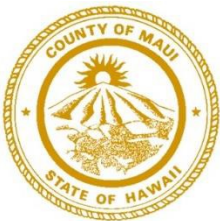
Maui Island Water Use and Development Plan

DRAFT

MARCH 2019



OLA NĀ MEA A PAU I KA WAI
By Water All Things Find Life



Prepared By:

Maui County Department of Water Supply

ADDENDUM

Honokowai Stream and Ditch

Surface water diverted from Honokowai Stream and tributaries Kapaloa and Amalu Streams feed Honokowai Ditch. Median ditch flow in 1994 was 4.74 mgd. The ditch serves Kā`anapali Development Corporation coffee irrigation and landscaping of agricultural subdivisions. CWRM assessed irrigation demand for coffee to 4.04 mgd. It is assumed that future IIFS will restore a portion of streamflow, possibly 64% of median base flow. The supply strategy is groundwater from Honokowai aquifer and expansion of recycled R-1 water supply to supplement 4.04 mgd agricultural irrigation and an estimated 0.7 mgd landscape irrigation demand.

The following tables are revised to reflect adopted IIFS, Instream Flow Standard Assessment Reports (IFSAR) and CWRM staff investigations.

Page 8, Table 19-3 Stream Diversions, Gages and IIFS by Watershed Unit

Aquifer System	Unit No.	Hydrologic Unit	Area (mi ²)	No. of Diversions	No. of Gages	Interim IFS [HAR]/IFS (MGD)
Ukumehame	6003	Pāpalaua	4.88	0	0	HAR §13-169-48
Ukumehame	6004	Ukumehame	8.28	1	2	2.90 mgd
Olowalu	6005	Olowalu	8.4	2	3	2.33 mgd
Launiupoko	6006	Launiupoko	6.6	1	1	HAR §13-169-48
Launiupoko	6007	Kaua`ula	8.44	1	5	3.36 mgd/4.1 mgd
Launiupoko	6008	Kahoma (+ Kanaha)	8.5	7	8	3.49 mgd + 1.55 mgd
Honokōwai	6009	Wahikuli	9.79	0	0	HAR §13-169-48, amended 8/17/1994
Honokōwai	6010	Honokōwai	8.86	2	6	HAR §13-169-48
Honokahua	6011	Kahana	9.07	1	1	HAR §13-169-48
Honokahua	6012	Honokahua	5.35	0	0	HAR §13-169-48
Honolua	6013	Honolua	4.79	4	4	HAR §13-169-48
Honokōhau	6014	Honokōhau	11.58	8	2	HAR §13-169-48
Honokōhau	6015	Anakaluahine	2.73	0	0	HAR §13-169-48

Sources: CWRM, *State Water Resources Protection Plan*, 2008; CWRM STAFF SUBMITTAL for the March 20, 2018 meeting of the COMMISSION ON WATER RESOURCE MANAGEMENT, Kahului, Maui Amended Interim Instream Flow Standards for the Surface Water Hydrologic Units of Ukumehame (6004), Olowalu (6005), Launiupoko, (6006), and Kaua'ula (6007), Maui.

ADDENDUM

Page 10, Table 19-5 Surface Water Units, Natural Streamflow, Diversions, and 1989 Declarations of Water Use

Unit Code	Hydrologic Unit Name	Lowest Median Streamflow Q50 (mgd)	Lowest Q70 (mgd)	Lowest Q90 (mgd)	Lowest Q95 (mgd)	No. of Diversions	Water Reported Diverted 2011-2015 Ave. (mgd)	Water Reported Diverted 2017 in IIFS Assessment	Declared Water Use 1989 (mgd)	Estimated Water Use of Individuals Interpretation of 1989 Decl. of Water Use (mgd)	Kuleana Parcels
6003	Pāpalaua	0	0	0	0	0	0		0		
6004	Ukumehame	3.23	2.585	2.067	1.938	1	0	0.016	4.888		Yes
6005	Olowalu	3.940	2.908	2.196	2.003	2	1.622	1.45	4.556	0.002	Yes
6006	Launiupoko	0.304	0.265	0.226	0.220	1	0.405	0.24	0.728		
6007	Kaua`ula	6.137	4.589	3.359	3.101	1	2.610	4.58	6.008	0.0267	Yes
6008	Kahoma	3.747	3.49	1.873	1.292	7	0.416	0.313	5.626		Yes
	Kanahā	3.165	2.908	2.649	2.584	0	1.6216	1.71	0	0.0795	
6009	Wahikuli	Dry at least 50% of the time				0					
6010	Honokōwai*	3.488	2.908	2.65	2.196	2	0		0		Yes
6011	Kahana	Dry at least 50% of the time				0					
6012	Honokahua	Dry at least 50% of the time				0					
6013	Honolua	2.455	0.776	0	0	4	0		0	0.023	Yes
6014	Honokōhau	13.566	10.341	7.752	7.106	8	13.540	5.62	0.011	0.316	Yes
6015	Anakaluahine	0	0	0	0	0	0		0		
Total		40.033	30.771	22.449	20.439	27	20.215		22.916	0.447	

Source: Diversions, Declared Use 1989, Reported Water Diverted 2011-2015: CWRM Reports. Discharges (Q figures): USGS Scientific Investigations Report 2016-5103. Kuleana parcels-MDWS interpretation of location based on Office of Hawaiian Affairs GIS data, 2009. Est. Water Use—interpretation of 1989 Dec. of Water Use (Individuals): Interpreted and summarized by MDWS based on 1989 Declarations of Water Use, Circular 123, Volumes 1 and 2, CWRM, September 1992, for individuals (excludes municipal, commercial, quasi-public, homeowner association landscape irrigation, etc.); duplicated claims of use are counted once; livestock watering operations are not counted. Declarations and MDWS interpretation has not been verified by CWRM

Updates 2020: CWRM IFSAR: PR201701, PR201702, PR201703, PR201704, PR201808-6008, PR201901-6010, PR201902-6013, R201903-6014

*Combined flow of tributaries Amalu and Kapalooa streams. A development tunnel provides dike impounded groundwater to Kapalooa stream.

WAILUKU AQUIFER SECTOR

There are 57 declared stream diversions in the CWRM database and 27 gages within the Wailuku ASEA. Diversion systems that transported water to the former plantations continue to support agricultural, municipal and domestic needs. Diverted streams can affect streamflow, which can adversely affect kuleana and appurtenant rights, Hawaiian traditional and customary practices, stream ecology, water quality, recreational activities, and aesthetics.

The following table shows the interim instream flow standards (IIFS), number of diversions and gages for Wailuku Aquifer Sector streams. The IIFS generally reflects the diverted amounts existing when the status quo IIFS were adopted, or as subsequently amended by CWRM. The ongoing contested case and proposed IIFS for the streams of Nā Wai `Ehā are further discussed below.

Table 14-5 Wailuku ASEA Surface Water Diversions, Natural Streamflow, Gages and Proposed IIFS by Watershed Unit

Aquifer System	Unit No.	Hydrologic Unit	Area (mi ²)	Median Flow (Q50)* (MGD)	Low Flow (Q90)* ² (MGD)	No. of Diversions	No. of Gages	Interim IFS
Waikapū		Waikapū	16.4	4.8	3.3	12	4	2.9 mgd below S. Waikapū Ditch return
Waikapū	6002	Pohakea	8.31	N/A	N/A	0	1	HAR §13-169-48
Kahakuloa	6016	Poelua	2.02	N/A	N/A	0	2	HAR §13-169-48
Kahakuloa	6017	Honanana	4.66	N/A	N/A	2	0	HAR §13-169-48
Kahakuloa	6018	Kahakuloa	4.24	5.17	2.84	10	3	HAR §13-169-48. Amended to include SCAP MA-133 on Kahakuloa Stream for reconstruction of an existing stream diversion (6/2/1994)
Waihe'e	6019	Waipili	2.65	N/A	N/A	2	0	HAR §13-169-48
Waihe'e	6020	Waiolai	0.97	N/A	N/A	1	0	HAR §13-169-48
Waihe'e	6021	Makamaka`ole	2.28	N/A	N/A	4	2	HAR §13-169-48
Waihe'e	6022	Waihe'e	7.11	34	24	5	4	10mgd below Waihe'e Ditch intake and 10mgd below Spreckels Ditch intake
`Āo	6023	Waiehu	10.1	5.5	2.7	12	5	1.6 mgd below N. Waiehu Ditch intake on N. Waiehu and 0.9 mgd below Spreckels Ditch intake on S. Waiehu
`Āo	6024	`Āo (Wailuku River)	22.55	25	13	9	6	10 mgd below `Āo-Waikapū Ditch at Kepaniwai Park and 5 mgd at the stream mouth
TOTAL:				74.47	45.84	57	27	

Source: 2008 WRPP, CCHMA0601-2 CWRM Order Adopting 1) Hearing Officer's Recommendation on the Mediated Agreement Between the Parties; and 2) Stipulation Re Mediator's Report of Joint Proposed Findings of Fact, Conclusions of Law, Decision and Order, April 17, 2014

*Streamflow 50 percent of the time

*²Streamflow 90 percent of the time

HĀNA AQUIFER SECTOR AREA

assessment and studies. With one known active gage, information on stream flow under various conditions is extremely limited. Where no stream flow data is available, declaration of water use and kuleana parcels can provide some guidance to water availability. The table below shows registered or permitted diversions, available stream flow data, water use declarations and reported kuleana parcels in the pertaining hydrologic unit.

Table 17-4 Hāna Surface Water Units, Natural Streamflow, Diversions, 1989 Declarations of Water Use, and known Kuleana Parcels

Unit Code	Hydrologic Unit Name	Median Flow (Q ⁵⁰)* (mgd)	No. of Diversions	Lowest Q ⁷⁰ *2 Flow (mgd)	1989 Dec. of Water Use (mgd)	Kuleana parcels (OHA 2009 GIS)
6066	Kūhiwa		0		0	
6067	Waihole		2		0.001	
6068	Manawaikeae		0		0	
6069	Kahawaihapapa		0		0	Kahawaihapapa, but not adjacent to stream
6070	Kea`aiki		2		0	
6071	Waioni		2		0	
6072	Lanikele		1		0	
6073	Heleleikeoha		14		0.001	
6074	Kawakoe		15		0.002	
6075	Honomā`ele		4		0	
6076	Kawaipapa		0		0	
6077	Mo`omo`onui		0		0	Mo`omo`onui
6078	Haneo`o		0		0	Haneo`o
6079	Kapia		3		0.002	
6080	Waiohonu		0		0	Waiohonu, Pukuilua
6081	Papahawahawa		0		0	
6082	Ala`alaula		2		0.007	
6083	Wailua		4		0.101 ^{*3}	Wailua
6084	Honolewa		1		0	Honolewa
6085	Waieli		0		0	
6086	Kakiweka		1		0	
6087	Hahalawe		1		0	
6088	Pua`alu`u		4		0.112	
6089	`Ohe`o	3.68	0	0.00	0	`Ohe`o
6090	Kalena		1		0	
6091	Koukouai		2		0	
6092	Opelu		2		0	

HĀNA AQUIFER SECTOR AREA

Unit Code	Hydrologic Unit Name	Median Flow (Q ⁵⁰)* (mgd)	No. of Diversions	Lowest Q ⁷⁰ * ² Flow (mgd)	1989 Dec. of Water Use (mgd)	Kuleana parcels (OHA 2009 GIS)
6093	Kukui`ula		1		0	
6094	Ka`apahu		0		0	
6095	Lelekea		0		0	
6096	Alelele		0		0	
6097	Kalepa		2		0.018	
6098	Nuanua`aloa		3		0	Nuanua`aloa
6099	Manawainui		3		0.004* ⁴	
Total		3.68	71		0.143	

Source: Diversions, Declared Use 1989, Reported Water Diverted 2011-2015: CWRM Reports. Discharges (Q figures): USGS Scientific Investigations Report 2016-5103. Kuleana parcels: based on Office of Hawaiian Affairs GIS data, 2009.

*Q⁵⁰ is the amount of water flowing within the stream 50% of the time.

*² Q⁷⁰ is the amount of water flowing within the stream 70% of the time.

*³Previously declared diversion from MDWS. No longer in use. Not included in total.

*⁴The water use declaration from the Manawainui stream is used to provide non-potable surface water to the Kaupō community within the Kahikinui ASEA. Therefore, it is not counted as water use for the Hāna ASEA analysis.

Transport of Stream Water from East Maui

Streams in the Ko`olau ASEA, bordering Kūhiwa aquifer system to the west are diverted by the East Maui Irrigation Company (EMI) and conveyed to Central Maui. Although EMI and its parent company Alexander & Baldwin Inc. own water lease licensed areas located in Nāhiku, there is presently no conveyance infrastructure to move water from the Hāna ASEA to the Ko`olau ASEA for use in Central and Upcountry Maui water systems.

Hawai'i Water Plan

WATER RESOURCE PROTECTION PLAN

2019 UPDATE



State of Hawai'i
Commission on Water Resource Management

Townscape, Inc.

- Develop, fund, and conduct cultural resource studies or surveys in priority areas;
- Fund and complete an inventory of stream channel alterations; and
- Continue to coordinate with the USGS to fund and execute stream studies and share surface water information.

F.5.4 Inventory of Surface Water Resources and Interim IFS

Table F-21 lists the surface water hydrologic units by island according to hydrologic unit code. Key characteristics of each hydrologic unit are listed, including the total area (in square miles), the number of registered and/or permitted stream diversions, and the number of historic and currently active continuous USGS and CWRM gages within the unit. The final column indicates the current interim IFS. In most cases, the current interim IFS were established pursuant to amendments to HAR §13-169, as noted here.

- Interim Instream Flow Standard for East Maui, HAR §13-169-44
Date of Adoption: 6/15/1988
Effective Date: 10/8/1988
- Interim Instream Flow Standard for Kaua'i, HAR §13-169-45
Date of Adoption: 6/15/1988
Effective Date: 10/8/1988
- Interim Instream Flow Standard for Hawai'i, HAR §13-169-46
Date of Adoption: 6/15/1988
Effective Date: 10/8/1988
- Interim Instream Flow Standard for Moloka'i, HAR §13-169-47
Date of Adoption: 6/15/1988
Effective Date: 10/8/1988
- Interim Instream Flow Standard for West Maui, HAR §13-169-48
Date of Adoption: 10/19/1988
Effective Date: 12/10/1988
- Interim Instream Flow Standard for Leeward O'ahu, HAR §13-169-49
Date of Adoption: 10/19/1988
Effective Date: 12/10/1988

- Interim Instream Flow Standard for Windward O’ahu, HAR §13-169-49.1
 Date of Adoption: 4/19/1989
 Effective Date: 5/4/1992

Generally, the interim IFS for all streams in a given region were adopted by CWRM and defined as the “amount of water flowing in each stream on the effective date of this standard, and as that flow may naturally vary throughout the year and from year to year without further amounts of water being diverted offstream through new or expanded diversions.” The interim IFS of individual streams have subsequently been amended as a direct result of petitions to amend the instream flow standards, contested case hearings, or other regulatory actions. References to specific actions amending the interim instream flow standard of specific streams are also provided in the last column of **Table F-21 Inventory of Surface Water Resources**. For further clarification, refer to HAR §13-169. For a discussion of the regulatory process for setting IFS, see **Appendix I CWRM Regulatory Programs**.

Table F-21 Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
KAUAI						
2001	Awa‘awapuhi	1.29	0	0	0/0	HAR §13-169-45
2002	Honopū	1.74	0	0	0/0	HAR §13-169-45
2003	Nakeikionaiwi	0.49	0	0	0/0	HAR §13-169-45
2004	Kalalau	4.23	0	1	0/0	HAR §13-169-45
2005	Pōhakuao	0.58	0	0	0/0	HAR §13-169-45
2006	Waiolaa	0.36	0	0	0/0	HAR §13-169-45
2007	Hanakoa	2.01	0	1	0/0	HAR §13-169-45
2008	Waiahuakua	0.66	0	0	0/0	HAR §13-169-45
2009	Ho‘olulu	0.38	0	0	0/0	HAR §13-169-45
2010	Hanakāpī‘ai	3.76	0	1	0/0	HAR §13-169-45
2011	Maunapuluo	0.45	0	0	0/0	HAR §13-169-45
2012	Limahuli	1.92	7	1	0/0	HAR §13-169-45. Amended to include SCAP KA-155 on Limahuli Stream for diversion of 0.115 MGD for landscape irrigation (07/19/1995).
2013	Mānoa	1.04	1	0	0/0	HAR §13-169-45
2014	Wainiha	23.71	29	3	1/0	HAR §13-169-45
2015	Lumaha‘i	14.44	0	1	0/0	HAR §13-169-45. Amended to include SDWP.3936.2 for diversion of 0.54 MGD
2016	Waikoko	0.69	0	0	0/0	HAR §13-169-45

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
KAUAI (continued)						
2017	Waipā	2.52	2	0	0/0	HAR §13-169-45
2018	Wai'oli	5.48	1	1	0/0	HAR §13-169-45
2019	Hanalei	23.96	10	3	1/0	HAR §13-169-45
2020	Waileia	0.82	0	0	0/0	HAR §13-169-45
2021	'Anini	3.20	4	0	0/0	HAR §13-169-45
2022	Kalihikai West	0.30	0	0	0/0	HAR §13-169-45
2023	Kalihikai Center	0.24	0	0	0/0	HAR §13-169-45
2024	Kalihikai East	0.49	0	0	0/0	HAR §13-169-45
2025	Kalihiwai	11.36	6	2	0/0	HAR §13-169-45. Amended to include SCAP KA-060 on Pake Stream for diversion of 0.028 MGD for aquaculture (10/18/1989).
2026	Pu'ukumu	1.28	3		0/0	HAR §13-169-45
2027	Kauapea	1.05	0	0	0/0	HAR §13-169-45
2028	Kīlauea	12.87	9	3	1/0	HAR §13-169-45
2029	Kulihaili	1.10	0	0	0/0	HAR §13-169-45
2030	Pila'a	2.58	4	0	0/0	HAR §13-169-45
2031	Waipake	2.46	1	0	0/0	HAR §13-169-45
2032	Moloaa	3.67	7	0	0/0	HAR §13-169-45
2033	Pāpa'a	4.41	5	0	0/0	HAR §13-169-45
2034	Aliomanu	1.64	0	0	0/0	HAR §13-169-45
2035	Anahola	13.86	6	3	0/0	HAR §13-169-45
2036	Kumukumu	1.21	0	0	0/0	HAR §13-169-45
2037	Kapa'a	16.74	13	2	0/0	HAR §13-169-45
2038	Moikeha	2.26	1	0	0/0	HAR §13-169-45
2039	Waikaea	7.13	2	5	0/0	HAR §13-169-45. Amended to include SCAP KA-396 on Waikaea and Konohiki Streams for streams are impacted by a pumped well (07/12/2006).
2040	Wailua	53.34	30	7	3/1	HAR §13-169-45

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
KAUAI (continued)						
2041	Kawailoa	3.94	0	0	0/0	HAR §13-169-45
2042	Hanamā'ulu	11.65	4	1	0/0	HAR §13-169-45
2043	Līhu'e Airport	1.83	0	0	0/0	HAR §13-169-45
2044	Nāwiliwili	6.40	3	0	0/0	HAR §13-169-45
2045	Puali	2.05	6	0	0/0	HAR §13-169-45
2046	Huleia	28.32	26	5	0/0	HAR §13-169-45
2047	Kipu Kai	3.04	1	0	0/0	HAR §13-169-45
2048	Mahaulepu	13.43	6	0	0/0	HAR §13-169-45
2049	Waikomo	9.12	11	0	0/0	HAR §13-169-45
2050	Aepo	2.58	5	0	0/0	HAR §13-169-45
2051	Lāwa'i	9.73	11	2	0/0	HAR §13-169-45
2052	Kalāheo	6.56	9	0	0/0	HAR §13-169-45
2053	Wahiawa	7.34	1	0	0/0	HAR §13-169-45
2054	Hanapēpē	27.09	9	4	1/0	HAR §13-169-45
2055	Kukamahu	3.21	0	0	0/0	HAR §13-169-45
2056	Kaumakani	3.09	0	0	0/0	HAR §13-169-45
2057	Mahinauli	8.78	1	0	0/0	HAR §13-169-45
2058	A'akukui	5.27	3	0	0/0	HAR §13-169-45
2059	Waipao	9.26	1	0	0/0	HAR §13-169-45
2060	Waimea	86.50	46	15	3/0	Natural flow on Kokee Stream; 0.7 MGD on Kauaikinana Stream below Kokee Ditch; 4.9 MGD on Kawaikoi Stream below Kokee Ditch; 1.4 MGD on Waiakoali Stream below Kokee Ditch; 2.0 MGD on Koaie Stream below Kekaha Ditch; 8.0 MGD on Waimea River below Kekaha Ditch (Waiahulu diversion); 25 MGD at USGS gaging station 16031000 on Waimea River with a minimum flow of 6.0 MGD in the Kekaha Ditch (04/18/2017).
2061	Kapilimao	6.44	1	0	0/0	HAR §13-169-45
2062	Paua	5.10	0	0	0/0	HAR §13-169-45
2063	Hō'ea	16.64	1	0	0/0	HAR §13-169-45
2064	Niu	2.82	0	0	0/0	HAR §13-169-45
2065	Ka'awaloa	7.50	0	0	0/0	HAR §13-169-45

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
KAUAI (continued)						
2066	Nahomalu	17.63	1	1	0/0	HAR §13-169-45
2067	Ka'ula'ula	2.55	0	0	0/0	HAR §13-169-45
2068	Hā'ele'ele	2.45	0	0	0/0	HAR §13-169-45
2069	Hikimoe	2.20	0	0	0/0	HAR §13-169-45
2070	Kā'aweiki	2.15	0	0	0/0	HAR §13-169-45
2071	Kauhao	3.98	1	0	0/0	HAR §13-169-45
2072	Mākaha	2.80	0	0	0/0	HAR §13-169-45
2073	Miloli'i	4.34	1	0	0/0	HAR §13-169-45
2074	Nu'alolo	2.83	0	0	0/0	HAR §13-169-45
O'AHU						
3001	Kālunawaika'ala	2.30	1	0	0/0	HAR §13-169-49.1
3002	Pākūlena	0.90	0	0	0/0	HAR §13-169-49.1
3003	Paumalū	7.79	1	0	0/0	HAR §13-169-49.1
3004	Kawela	2.07	1	0	0/0	HAR §13-169-49.1
3005	'Ō'io	10.74	3	0	0/0	HAR §13-169-49.1
3006	Mālaekahana	7.03	0	3	0/0	HAR §13-169-49.1
3007	Kahawainui	5.49	1	1	0/0	HAR §13-169-49.1
3008	Waialele	2.28	0	1	0/0	HAR §13-169-49.1
3009	Koloa	2.41	1	1	0/0	HAR §13-169-49.1
3010	Kaipapa'u	3.00	0	1	0/0	HAR §13-169-49.1
3011	Ma'akua	1.55	1	0	0/0	HAR §13-169-49.1
3012	Waipuhi	1.10	2	0	0/0	HAR §13-169-49.1
3013	Kaluanui	2.37	0	2	1/0	HAR §13-169-49.1
3014	Pāpa'akoko	0.29	0	0	0/0	HAR §13-169-49.1
3015	Halehaa	0.25	0	0	0/0	HAR §13-169-49.1
3016	Punalu'u	6.79	9	4	1/0	HAR §13-169-49.1
3017	Kahana	8.42	2	4	1/0	13.3 MGD (07/13/2006).
3018	Makaua	0.83	0	0	0/0	HAR §13-169-49.1
3019	Ka'a'awa	2.76	5	0	0/0	HAR §13-169-49.1
3020	Kualoa	0.87	0	0	0/0	HAR §13-169-49.1
3021	Hakipu'u	2.09	7	1	0/0	HAR §13-169-49.1
3022	Waikāne	2.69	3	2	1/0	3.5 MGD (07/13/2006).
3023	Waianu	1.07	0	0	0/0	HAR §13-169-49.1
3024	Waiāhole	3.99	9	7	1/0	8.7 MGD on Waiāhole Stream; 3.5 MGD on Waianu Stream (07/13/2006).
3025	Ka'alaea	1.78	9	0	0/0	HAR §13-169-49.1
3026	Haiamoa	0.64	9	0	0/0	HAR §13-169-49.1
3027	Kahalu'u	6.74	23	9	2/0	HAR §13-169-49.1

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
O'AHU (continued)						
3028	He'eia	4.47	1	3	1/0	HAR §13-169-49.1
3029	Kea'ahala	1.17	1	0	0/0	HAR §13-169-49.1
3030	Kāne'ohe	5.73	2	11	1/0	HAR §13-169-49.1
3031	Kawa	2.11	1	1	1/0	HAR §13-169-49.1
3032	Pu'u Hawai'iloa	3.68	0	0	0/0	HAR §13-169-49.1
3033	Kawainui	15.05	15	10	2/0	HAR §13-169-49.1
3034	Ka'elepulu	5.27	0	0	0/0	HAR §13-169-49.1
3035	Waimānalo	5.95	9	1	1/0	HAR §13-169-49.1
3036	Kahawai	4.68	0	0	0/0	HAR §13-169-49.1
3037	Makapu'u	0.51	0	0	0/0	HAR §13-169-49.1
3038	Koko Crater	3.66	0	0	0/0	HAR §13-169-49
3039	Hanauma	0.39	0	0	0/0	HAR §13-169-49
3040	Portlock	0.74	0	0	0/0	HAR §13-169-49
3041	Kamiloiki	2.39	0	0	0/0	HAR §13-169-49
3042	Kamilonui	2.02	0	0	0/0	HAR §13-169-49
3043	Haha'ione	2.18	0	0	0/0	HAR §13-169-49
3044	Kuli'ou'ou	1.82	0	1	0/0	HAR §13-169-49
3045	Niu	2.70	0	0	0/0	HAR §13-169-49
3046	Wailupe	5.12	0	1	0/0	HAR §13-169-49
3047	Wai'alaenui	6.03	0	0	0/0	HAR §13-169-49. Amended to include SCAP OA-309 on Kapakahi Stream for restoration of wetland habitat at Pouhala Marsh (06/21/2000).
3048	Diamond Head	0.39	0	0	0/0	HAR §13-169-49
3049	Ala Wai	19.02	16	11	6/1	HAR §13-169-49
3050	Nu'uano	9.54	9	3	0/0	HAR §13-169-49
3051	Kapālama	3.38	3	0	0/0	HAR §13-169-49
3052	Kalihi	6.27	1	3	1/0	HAR §13-169-49
3053	Moanalua	10.70	0	3	1/0	HAR §13-169-49
3054	Ke'ehi	2.49	0	0	0/0	HAR §13-169-49
3055	Manuwai	6.65	0	0	0/0	HAR §13-169-49
3056	Salt Lake	0.62	0	0	0/0	HAR §13-169-49
3057	Hālawa	14.21	1	6	2/0	HAR §13-169-49
3058	'Aiea	2.06	0	0	0/0	HAR §13-169-49
3059	Kalauao	3.34	0	2	0/0	HAR §13-169-49
3060	Waimalu	12.30	1	2	0/0	HAR §13-169-49

**Table F-21: (continued)
Inventory of Surface Water Resources**

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
O'AHU (continued)						
3061	Waiawa	27.47	5	1	0/0	HAR §13-169-49. Amended to include SCAP OA-221 on Panakauahi Stream to address instream uses impacted by an arched culvert (10/22/1997).
3062	Waipi'o	2.81	0	0	0/0	HAR §13-169-49
3063	Kapakahi	3.45	3	0	0/0	HAR §13-169-49
3064	Waikele	48.92	13	4	1/0	HAR §13-169-49. Amended to include SCAP OA-046 on Waikele Stream for diversion of 2.95 MGD for irrigation of three golf courses (07/15/1992)
3065	Honouliuli	19.93	0	2	2/0	HAR §13-169-49
3066	Kalo'i	26.53	0	0	0/0	HAR §13-169-49
3067	Maka'iwa	12.03	0	0	0/0	HAR §13-169-49
3068	Nānākuli	5.45	0	0	0/0	HAR §13-169-49
3069	Ulehawa	4.62	0	0	0/0	HAR §13-169-49
3070	Mā'ili'ili	19.85	0	1	0/0	HAR §13-169-49
3071	Kaupuni	9.41	6	2	0/1	HAR §13-169-49
3072	Kamaile'unu	1.97	0	0	0/0	HAR §13-169-49
3073	Mākaha	7.37	0	1	1/0	HAR §13-169-49
3074	Kea'au	4.24	0	0	0/0	HAR §13-169-49
3075	Mākua	6.62	0	0	0/0	HAR §13-169-49
3076	Kaluakauila	2.14	0	0	0/0	HAR §13-169-49
3077	Manini	3.03	1	0	0/0	HAR §13-169-49
3078	Kawaihāpai	7.01	0	0	0/0	HAR §13-169-49
3079	Pahole	2.45	0	0	0/0	HAR §13-169-49
3080	Makaleha	6.85	1	1	0/0	HAR §13-169-49
3081	Waialua	4.70	0	0	0/0	HAR §13-169-49
3082	Kiikii	59.03	4	11	4/0	HAR §13-169-49
3083	Paukauila	22.11	9	3	2/0	HAR §13-169-49
3084	Anahulu	16.48	4	0	0/0	HAR §13-169-49
3085	Loko Ea	2.17	4	0	0/0	HAR §13-169-49
3086	Keamanea	7.77	0	0	0/0	HAR §13-169-49
3087	Waimea	13.89	1	3	2/0	HAR §13-169-49

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MOLOKAI						
4001	Waihānau	7.73	1	1	0/0	HAR §13-169-47
4002	Wai'ale'ia	4.36	0	0	0/0	HAR §13-169-47
4003	Waikolu	4.63	6	3	0/1	HAR §13-169-47. Amended to include SCAP MO-169 on Waikolu Stream for the installation of a fish ladder (03/14/1995).
4004	Wainēnē	0.54	0	0	0/0	HAR §13-169-47
4005	Anapuhi	0.44	0	0	0/0	HAR §13-169-47
4006	Waiohookalo	1.40	0	0	0/0	HAR §13-169-47
4007	Keawanui	0.21	1	0	0/0	HAR §13-169-47
4008	Ka'ili'ili	0.50	0	0	0/0	HAR §13-169-47
4009	Pelekunu	7.11	2	5	0/0	HAR §13-169-47
4010	Waipū	0.54	0	0	0/0	HAR §13-169-47
4011	Hāloku	0.15	0	0	0/0	HAR §13-169-47
4012	Oloupena	0.37	0	0	0/0	HAR §13-169-47
4013	Pu'uka'ōkū	0.31	0	0	0/0	HAR §13-169-47
4014	Wailele	0.42	1	0	0/0	HAR §13-169-47
4015	Wailau	11.94	4	2	0/0	HAR §13-169-47
4016	Kalaemilo	0.19	0	0	0/0	HAR §13-169-47
4017	Waiahookalo	0.25	0	0	0/0	HAR §13-169-47
4018	Kahiwa	0.20	0	0	0/0	HAR §13-169-47
4019	Kawainui	3.74	0	1	0/0	HAR §13-169-47
4020	Pīpīwai	1.21	0	0	0/0	HAR §13-169-47
4021	Hālawa	7.64	3	1	1/0	HAR §13-169-47
4022	Pāpio	1.90	1	1	0/0	HAR §13-169-47
4023	Honowewe	2.45	0	0	0/0	HAR §13-169-47
4024	Pōhakupili	1.61	0	0	0/0	HAR §13-169-47
4025	Honoulimalo'o	1.62	2	0	0/0	HAR §13-169-47
4026	Honouliwai	2.65	8	0	0/0	HAR §13-169-47. Amended to include SCAP MO-139 on Honouliwai Stream for diversion of 1.008 MGD for taro and aquaculture (04/14/1994).
4027	Waialua	3.41	4	0	0/0	HAR §13-169-47
4028	Kainalu	1.41	0	0	0/0	HAR §13-169-47
4029	Honomuni	1.59	1	0	0/0	HAR §13-169-47
4030	'Aha'ino	2.14	1	0	0/0	HAR §13-169-47
4031	Mapulehu	4.22	1	1	0/0	HAR §13-169-47
4032	Kalua'aha	2.05	1	0	0/0	HAR §13-169-47

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MOLOKAI (continued)						
4033	Kahananui	1.78	0	0	0/0	HAR §13-169-47
4034	‘Ōhi‘a	3.77	2	0	0/0	HAR §13-169-47
4035	Wāwā‘ia	2.67	1	0	0/0	HAR §13-169-47
4036	Kamalō	13.74	1	0	0/0	HAR §13-169-47
4037	Kawela	5.44	5	2	1/1	HAR §13-169-47
4038	Kamiloloa	12.54	0	0	0/0	HAR §13-169-47
4039	Kaunakakai	9.23	0	2	1/0	HAR §13-169-47
4040	Kalama‘ula	9.65	0	0	0/0	HAR §13-169-47
4041	Manawainui	13.82	1	2	0/0	HAR §13-169-47
4042	Kāluape‘elua	14.70	0	0	0/0	HAR §13-169-47
4043	Waiahewahewa	5.64	0	0	0/0	HAR §13-169-47
4044	Kolo	19.02	0	0	0/0	HAR §13-169-47
4045	Hakina	5.32	0	0	0/0	HAR §13-169-47
4046	Kaunalā	13.27	0	0	0/0	HAR §13-169-47
4047	Pāpōhaku	25.42	0	1	0/0	HAR §13-169-47
4048	Ka‘a	3.19	0	0	0/0	HAR §13-169-47
4049	Mo‘omomi	11.45	0	0	0/0	HAR §13-169-47
4050	Mane‘opapa	13.79	0	0	0/0	HAR §13-169-47
MAUI						
6001	Waikapū	16.40	12	1	0/1	2.9 MGD below the South Waikapū Ditch diversion (04/17/2014).
6002	Pōhākea	8.31	0	0	0/0	HAR §13-169-48
6003	Pāpalaua	4.88	0	0	0/0	HAR §13-169-48
6004	Ukumehame	8.28	2	1	0/2	2.9 MGD below the lower dam (03/20/2018)
6005	Olowalu	8.40	2	1	0/1	2.33 MGD at abandoned USGS gaging station 16646200 (03/20/2018)
6006	Launiupoko	6.60	1	1	0/0	0.0 MGD (03/20/2018)
6007	Kaua‘ula	8.44	1	3	0/1	3.36 MGD below the main diversion near 1540-ft. elevation and 4.1 MGD below kuleana users near 270-ft. elevation (03/20/2018)
6008	Kahoma	8.50	7	6	0/1	3.49 MGD below diversion 951 near 1850-ft. elevation; 0.8 MGD below diversion 954; By November 2023 IIFS becomes 1.55 MGD (11/20/2018)
6009	Wahikuli	9.79	0	0	0/1	HAR §13-169-48

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MAUI (continued)						
6010	Honokōwai	8.86	2	3	0/2	HAR §13-169-48. Amended to include SCAP MA-117 on Honokōwai Stream for the installation of a flow-through desilting basin (08/17/1994).
6011	Kāhana	9.07	1	0	0/0	HAR §13-169-48
6012	Honokahua	5.35	0	0	0/0	HAR §13-169-48
6013	Honolua	4.79	4	2	0/1	HAR §13-169-48
6014	Honokōhau	11.58	8	1	1/0	HAR §13-169-48
6015	Anakaluahine	2.73	0	0	0/0	HAR §13-169-48
6016	Po'elua	2.02	0	0	0/0	HAR §13-169-48
6017	Honanana	4.66	2	0	0/0	HAR §13-169-48
6018	Kahakuloa	4.24	10	3	1/0	HAR §13-169-48. Amended to include SCAP MA-133 on Kahakuloa Stream for reconstruction of an existing stream diversion (06/02/1994).
6019	Waipili	2.65	2	0	0/0	HAR §13-169-48
6020	Waiolai	0.97	1	0	0/0	HAR §13-169-48
6021	Makamaka'ole	2.28	4	1	0/0	HAR §13-169-48
6022	Waihe'e	7.11	5	1	1/1	10.0 MGD below Spreckels Ditch (04/17/2014).
6023	Waiehu	10.14	12	3	0/2	1.0 MGD below the Waihe'e Ditch on North Waiehu Stream; Remaining instream flow allowing for 0.25 MGD to kuleana users on South Waiehu Stream (04/17/2014).
6024	ʻĪao	22.55	10	3	1/0	10.0 MGD below ʻĪao - Waikapu and ʻĪao -Maniania Ditch Diversion with stipulations for low-flows; 5.0 MGD at or near the stream mouth (04/17/2014).
6025	Kalialinui	30.28	0	0	0/0	HAR §13-169-44
6026	Kailua Gulch	29.76	0	0	0/0	HAR §13-169-44
6027	Mālika	27.38	10	0	0/0	HAR §13-169-44
6028	Kuiaha	8.38	30	0	0/0	HAR §13-169-44
6029	Kaupakulua	3.84	15	1	0/0	HAR §13-169-44

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MAUI (continued)						
6030	Manawaiiao	2.37	3	0	0/0	HAR §13-169-44
6031	Uaoa	2.39	6	0	0/0	HAR §13-169-44
6032	Keali'i	0.53	4	0	0/0	HAR §13-169-44
6033	Kakipi	9.53	21	4	0/0	HAR §13-169-44
6034	Honopou	2.73	23*	4	1/1	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6035	Ho'olawa	4.86	37	2	0/0	HAR §13-169-44
6036	Waipi'o	1.03	15	0	0/0	HAR §13-169-44
6037	Hanehoi	1.43	12*	0	0/1	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6038	Hoalua	1.24	4	0	0/0	HAR §13-169-44
6039	Hanawana	0.65	5	0	0/0	HAR §13-169-44
6040	Kailua	5.25	6	5	0/0	HAR §13-169-44
6041	Nailiilihaele	3.57	12	2	0/0	HAR §13-169-44
6042	Puehu	0.36	1	0	0/0	HAR §13-169-44
6043	Oopuola	1.24	15	2	0/0	HAR §13-169-44
6044	Kaaiea	1.15	3	1	0/0	HAR §13-169-44
6045	Punalu'u	0.22	1	0	0/0	HAR §13-169-44
6046	Kolea	0.71	8	0	0/0	HAR §13-169-44
6047	Waikamoi	5.30	11	7	1/1	3.8 CFS (2.46 MGD) above Hana Hwy. per CCH-MA13-01 (06/20/2018).
6048	Puohokamoa	3.18	8	6	0/0	1.1 CFS (0.71 MGD) below Hana Hwy. per CCH-MA13-01 (06/20/2018).
6049	Haipua'ena	1.59	5	5	0/0	1.36 CFS (0.88 MGD) below Hana Hwy. per CCH-MA13-01 (06/20/2018).
6050	Punalau	1.16	3	0	0/0	2.9 CFS (1.88 MGD) above Hana Hwy. per CCH-MA13-01 (06/20/2018).
6051	Honomanū	5.60	8	4	0/1	4.2 CFS (2.72 MGD) above Hana Hwy. per CCH-MA13-01 (06/20/2018).

* Stream Diversion Works Abandonment pending.

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MAUI (continued)						
6052	Nua'ailua	1.56	2	0	0/0	2.2 CFS (1.42 MGD) per CCH-MA13-01 (06/20/2018).
6053	Pi'ina'au	21.95	14*	0	0/0	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6054	'Ōhi'a	0.28	1	0	0/0	HAR §13-169-44
6055	Waiokamilo	2.47	18*	1	0/0	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6056	Wailuanui	6.05	8*	3	1/1	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6057	W. Wailuaiki	4.18	1*	1	1/1	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6058	E. Wailuaiki	3.52	1	1	0/1	3.7 CFS (2.39 MGD) at Hana Hwy. per CCH-MA13-01 (06/20/2018).
6059	Kopiliula	5.20	2	1	0/1	Kopiliula: 3.2 CFS (2.07 MGD) below Hana Hwy. per CCH-MA13-01 (06/20/2018). Pua'aka'a: 0.2 CFS (0.13 MGD) above Hana Hwy. per CCH-MA13-01 (06/20/2018).
6060	Waiohue	0.82	3*	1	0/1	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).

* Stream Diversion Works Abandonment pending.

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MAUI (continued)						
6061	Pa'akea	1.05	2	1	0/0	0.77 CFS (0.12 MGD) at Hana Hwy. per CCH-MA13-01 (06/20/2018).
6062	Waiaaka	0.19	1	1	0/0	0.77 CFS (0.5 MGD) above Hana Hwy. per CCH-MA13-01 (06/20/2018).
6063	Kapā'ula	0.84	2	2	0/0	0.56 CFS (0.36 MGD) on diversion at Ko'olau Ditch per CCH-MA13-01 (06/20/2018).
6064	Hanawī	5.60	6	2	1/0	0.92 CFS (0.6 MGD) below Hana Hwy. per CCH-MA13-01 (06/20/2018).
6065	Makapipi	3.32	3*	1	0/2	Full restoration of streamflow at East Maui Irrigation Co. diversions per CCH-MA13-01 (06/20/2018).
6066	Kūhiwa	3.41	0	0	0/0	HAR §13-169-44
6067	Waihole	0.88	2	0	0/0	HAR §13-169-44
6068	Manawaikeae	0.52	0	0	0/0	HAR §13-169-44
6069	Kahawaihapapa	3.73	0	0	0/0	HAR §13-169-44
6070	Keaiki	1.03	2	0	0/0	HAR §13-169-44
6071	Waioni	0.63	2	0	0/0	HAR §13-169-44
6072	Lanikele	0.70	1	0	0/0	HAR §13-169-44
6073	Helele'ike'ohā	3.48	14	0	0/0	HAR §13-169-44
6074	Kawakoe	4.04	15	0	0/0	HAR §13-169-44
6075	Honomā'ele	7.94	4	0	0/0	HAR §13-169-44
6076	Kawaipapa	10.78	0	0	0/0	HAR §13-169-44
6077	Moomoonui	2.95	0	0	0/0	HAR §13-169-44
6078	Haneo'o	2.13	0	0	0/0	HAR §13-169-44
6079	Kapia	4.71	3	0	0/0	HAR §13-169-44
6080	Waiohonu	7.15	0	0	0/0	HAR §13-169-44
6081	Papahawahawa	1.96	0	0	0/0	HAR §13-169-44
6082	Alaalaula	0.48	2	0	0/0	HAR §13-169-44
6083	Wailua	1.26	4	0	0/0	HAR §13-169-44
6084	Honolewa	0.63	1	0	0/0	HAR §13-169-44
6085	Wai'eli	0.96	0	0	0/0	HAR §13-169-44
6086	Kakiweka	0.34	1	0	0/0	HAR §13-169-44
6087	Hāhālawe	0.74	1	1	0/0	HAR §13-169-44

* Stream Diversion Works Abandonment pending.

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
MAUI (continued)						
6088	Pua'alu'u	0.53	4	0	0/0	HAR §13-169-44
6089	'Ohe'o	9.70	0	2	1/0	HAR §13-169-44
6090	Kalena	0.71	1	0	0/0	HAR §13-169-44
6091	Koukouai	4.56	2	0	0/0	HAR §13-169-44
6092	Opelu	0.53	2	0	0/0	HAR §13-169-44
6093	Kukui'ula	0.74	1	1	0/0	HAR §13-169-44
6094	Ka'āpahu	0.50	0	0	0/0	HAR §13-169-44
6095	Lelekea	0.78	0	0	0/0	HAR §13-169-44
6096	Alelele	1.20	0	0	0/0	HAR §13-169-44
6097	Kālepa	0.97	2	0	0/0	HAR §13-169-44
6098	Nuanuaaloa	4.24	3	0	0/0	HAR §13-169-44
6099	Manawainui	5.17	3	0	0/0	HAR §13-169-44
6100	Kaupō	22.50	1	0	0/0	HAR §13-169-44
6101	Nu'u	10.48	0	0	0/0	HAR §13-169-44
6102	Pāhihi	7.85	0	0	0/0	HAR §13-169-44
6103	Waiopai	5.38	0	0	0/0	HAR §13-169-44
6104	Po'opo'o	1.92	0	0	0/0	HAR §13-169-44
6105	Manawainui Gulch	6.07	0	0	0/0	HAR §13-169-44
6106	Kīpapa	28.42	0	1	0/0	HAR §13-169-44
6107	Kanaio	34.11	0	0	0/0	HAR §13-169-44
6108	'Āhihi Kinau	3.68	0	0	0/0	HAR §13-169-44
6109	Mo'oloa	1.90	0	0	0/0	HAR §13-169-44
6110	Wailea	35.76	4	0	0/0	HAR §13-169-44
6111	Hāpapa	40.89	0	1	0/0	HAR §13-169-44
6112	Waiakoa	55.76	0	0	0/0	HAR §13-169-44
HAWAI'I						
8001	Kealahewa	5.08	0	0	0/0	HAR §13-169-46
8002	Hualua	5.53	0	0	0/0	HAR §13-169-46
8003	Kumakua	3.48	0	0	0/0	HAR §13-169-46
8004	Kapua	0.65	0	0	0/0	HAR §13-169-46
8005	Ohanaula	1.26	0	0	0/0	HAR §13-169-46
8006	Hana'ula	3.55	0	0	0/0	HAR §13-169-46
8007	Hapahapai	3.33	1	0	0/0	HAR §13-169-46
8008	Pali Akamoa	1.36	0	0	0/0	HAR §13-169-46
8009	Wainaia	4.30	5	0	0/0	HAR §13-169-46
8010	Halelua	2.28	0	0	0/0	HAR §13-169-46
8011	Hālawā	1.75	2	0	0/0	HAR §13-169-46
8012	Aamakao	10.56	7	0	0/0	HAR §13-169-46
8013	Niuli'i	3.27	9	0	0/0	HAR §13-169-46
8014	Waikama	3.39	7	0	0/0	HAR §13-169-46

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
HAWAII (continued)						
8015	Pololū	6.31	6	0	0/0	HAR §13-169-46
8016	Honokāne Nui	10.51	6	5	0/0	HAR §13-169-46
8017	Honokāne Iki	2.62	0	0	0/0	HAR §13-169-46
8018	Kalele	0.17	0	0	0/0	HAR §13-169-46
8019	Waipahi	1.00	0	0	0/0	HAR §13-169-46
8020	Honoke‘ā	2.38	0	0	0/0	HAR §13-169-46
8021	Kā‘ilikaula	0.79	0	0	0/0	HAR §13-169-46
8022	Honopue	2.65	0	0	0/0	HAR §13-169-46
8023	Kōleali‘ili‘i	0.86	0	0	0/0	HAR §13-169-46
8024	Ohiahuea	1.96	0	0	0/0	HAR §13-169-46
8025	Nakooko	0.76	0	0	0/0	HAR §13-169-46
8026	Wai‘āpuka	0.73	0	0	0/0	HAR §13-169-46
8027	Waikalua	1.62	0	0	0/0	HAR §13-169-46
8028	Waimaile	0.48	0	0	0/0	HAR §13-169-46
8029	Kukui	0.67	0	1	0/0	HAR §13-169-46
8030	Paopao	0.54	0	1	0/0	HAR §13-169-46
8031	Waiaalala	0.34	0	1	0/0	HAR §13-169-46
8032	Punalulu	1.25	0	1	0/0	HAR §13-169-46
8033	Kaimu	1.70	0	1	0/0	HAR §13-169-46
8034	Pae	0.65	0	0	0/0	HAR §13-169-46
8035	Waimanu	8.79	0	2	0/0	HAR §13-169-46
8036	Pūko‘a	0.21	0	0	0/0	HAR §13-169-46
8037	Manuwaikaalio	0.50	0	0	0/0	HAR §13-169-46
8038	Nalua	0.88	0	0	0/0	HAR §13-169-46
8039	Kaho‘opu‘u	0.86	0	0	0/0	HAR §13-169-46
8040	Waipāhoehoe	1.34	0	0	0/0	HAR §13-169-46
8041	Wailoa/Waipī‘o	25.84	37	18	2/0	HAR §13-169-46
8042	Kaluahine Falls	0.22	0	0	0/0	HAR §13-169-46
8043	Waiulili	28.93	1	1	0/0	HAR §13-169-46
8044	Waikoekoe	1.61	0	0	0/0	HAR §13-169-46
8045	Waipunahoe	16.51	0	0	0/0	HAR §13-169-46
8046	Wai‘ale‘ale	0.79	0	0	0/0	HAR §13-169-46
8047	Waikoloa	16.95	0	0	0/0	HAR §13-169-46
8048	Kapulena	3.08	0	0	0/0	HAR §13-169-46
8049	Kawaikalia	1.84	0	0	0/0	HAR §13-169-46
8050	Malanahae	2.24	0	0	0/0	HAR §13-169-46
8051	Honokaia	16.09	0	0	0/0	HAR §13-169-46
8052	Kawela	1.31	0	0	0/0	HAR §13-169-46
8053	Keaakaukau	0.87	0	0	0/0	HAR §13-169-46
8054	Kainapahoa	9.08	1	0	0/0	HAR §13-169-46
8055	Nienie	4.95	2	0	0/0	HAR §13-169-46

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
HAWAII (continued)						
8056	Papuaa	4.73	0	0	0/0	HAR §13-169-46
8057	Ouhi	0.45	0	0	0/0	HAR §13-169-46
8058	Kahaupu	11.27	0	0	0/0	HAR §13-169-46
8059	Kahawaili'il'i	15.56	0	0	0/0	HAR §13-169-46
8060	Keahua	1.70	0	0	0/0	HAR §13-169-46
8061	Kalōpā	30.94	0	0	0/0	HAR §13-169-46
8062	Waikaalulu	3.06	0	0	0/0	HAR §13-169-46
8063	Kukuilamalama hii	2.28	0	0	0/0	HAR §13-169-46
8064	Alilipali	1.60	0	0	0/0	HAR §13-169-46
8065	Kaumō'ali	9.39	0	0	0/0	HAR §13-169-46
8066	Pohakuhaku	2.45	0	0	0/0	HAR §13-169-46
8067	Waipunahina	15.86	0	0	0/0	HAR §13-169-46
8068	Waipunalau	3.84	0	0	0/0	HAR §13-169-46
8069	Pa'auilo	1.57	1	0	0/0	HAR §13-169-46
8070	'Ā'āmanu	0.64	0	0	0/0	HAR §13-169-46
8071	Koholālele	14.40	0	0	0/0	HAR §13-169-46
8072	Kalapahapuu	6.43	0	0	0/0	HAR §13-169-46
8073	Kūka'iau	2.40	0	0	0/0	HAR §13-169-46
8074	Pu'umaile	9.13	0	0	0/0	HAR §13-169-46
8075	Kekualele	2.18	0	0	0/0	HAR §13-169-46
8076	Ka'ala	6.62	0	0	0/0	HAR §13-169-46
8077	Kealakaha	3.49	0	0	0/0	HAR §13-169-46
8078	Keehia	1.72	0	0	0/0	HAR §13-169-46
8079	Kupapaulua	2.54	0	0	0/0	HAR §13-169-46
8080	Kaiwiki	2.24	0	0	0/0	HAR §13-169-46
8081	Ka'ula	14.35	0	0	0/0	HAR §13-169-46
8082	Kaohaoha	1.49	0	0	0/0	HAR §13-169-46
8083	Kaawalii	13.93	0	0	0/0	HAR §13-169-46
8084	Waipunalei	2.07	0	0	0/0	HAR §13-169-46
8085	Laupāhoehoe	4.71	0	0	0/0	HAR §13-169-46
8086	Kilau	2.43	1	0	0/0	HAR §13-169-46
8087	Manowai'ōpae	1.74	2	1	0/0	HAR §13-169-46. Amended to include SCAP HA-195 on Manowaiopae Stream for a permitted diversion (05/03/1996).
8088	Kuwaikahi	0.72	1	0	0/0	HAR §13-169-46
8089	Kihalani	0.70	1	0	0/0	HAR §13-169-46

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
HAWAII (continued)						
8090	Kaiwilahilahi	6.69	1	0	0/0	HAR §13-169-46
8091	Ha'akoa	6.26	0	0	0/0	HAR §13-169-46
8092	Pāhale	3.92	0	0	0/0	HAR §13-169-46
8093	Kapehu Camp	1.74	2	0	0/0	HAR §13-169-46
8094	Paeohe	0.85	0	0	0/0	HAR §13-169-46
8095	Maulua	5.30	0	0	0/0	HAR §13-169-46
8096	Pōhakupuka	3.63	1	1	0/0	HAR §13-169-46
8097	Kulanaki'i	0.71	0	0	0/0	HAR §13-169-46
8098	Ahole	0.67	0	0	0/0	HAR §13-169-46
8099	Poupou	0.62	0	0	0/0	HAR §13-169-46
8100	Manoloa	1.32	0	0	0/0	HAR §13-169-46
8101	Nīnole	1.67	2	0	0/0	HAR §13-169-46
8102	Kaaheiki	0.27	1	0	0/0	HAR §13-169-46
8103	Waikolu	0.63	4	0	0/0	HAR §13-169-46
8104	Waikaumalo	16.10	0	0	0/0	HAR §13-169-46
8105	Waiehu	0.61	1	0	0/0	HAR §13-169-46
8106	Nanue	5.53	1	0	0/0	HAR §13-169-46
8107	Opea	2.31	0	0	0/0	HAR §13-169-46
8108	Peleau	1.12	3	0	0/0	HAR §13-169-46. Amended to include SCAP HA-314 on Peleau Stream for diversion of 8.0 MGD for agricultural use (08/23/2000).
8109	Umauma	33.83	1	0	0/0	HAR §13-169-46
8110	Hakalau	10.26	0	0	0/0	HAR §13-169-46
8111	Kolekole	20.82	8	0	0/0	HAR §13-169-46
8112	Pāhe'ehe'e	2.87	0	0	0/0	HAR §13-169-46
8113	Honomū	3.12	2	0	0/0	HAR §13-169-46. Amended to include SCAP HA-317 on Malamalamaiki Stream for 2.0-in. pipe diversion for washing farm equipment (02/28/2001).
8114	La'imi	0.89	1	0	0/0	HAR §13-169-46
8115	Kapehu	1.60	2	0	0/0	HAR §13-169-46
8116	Makea	2.08	4	0	0/0	HAR §13-169-46
8117	Alia	1.31	2	1	0/0	HAR §13-169-46. Amended to include SCAP HA-387 on Alia Stream for diversion of 0.058 MGD for agricultural use (05/24/2006).
8118	Makahalanaloa	0.48	0	0	0/0	HAR §13-169-46

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
HAWAII (continued)						
8119	Waimaauou	1.33	1	0	0/0	HAR §13-169-46
8120	Waiaama	3.53	2	0	0/0	1.0 MGD below diversion at 890-ft elevation (01/15/19)
8121	Kawainui	8.52	1	1	0/0	HAR §13-169-46
8122	Onomea	0.85	5	0	0/0	HAR §13-169-46. Amended to include SCAP HA-214 on Onomea Stream for relocation of a pipe diversion to mitigate concerns over an existing diversion dam (03/19/1997).
8123	Alakahi	0.30	1	0	0/0	HAR §13-169-46
8124	Hanawī	3.96	0	0	0/0	HAR §13-169-46
8125	Kalaoa	0.51	3	0	0/0	HAR §13-169-46
8126	‘Aleamai	0.32	0	0	0/0	HAR §13-169-46
8127	Ka‘ie‘ie	2.75	0	0	0/0	HAR §13-169-46
8128	Puuokalepa	0.93	2	0	0/0	HAR §13-169-46
8129	Ka‘āpoko	0.32	0	0	0/0	HAR §13-169-46
8130	Pāpa‘ikou	0.19	0	0	0/0	HAR §13-169-46
8131	Kapue	11.86	0	0	0/0	HAR §13-169-46
8132	Pāhoehoe	6.96	1	0	0/0	HAR §13-169-46
8133	Paukaa	0.65	0	0	0/0	HAR §13-169-46
8134	Honoli‘i	16.59	0	2	1/0	HAR §13-169-46
8135	Maili	4.09	1	0	0/0	HAR §13-169-46
8136	Wainaku	1.86	0	0	0/0	HAR §13-169-46
8137	Pukihae	3.23	0	0	0/0	HAR §13-169-46
8138	Wailuku	225.56	11	7	1/0	HAR §13-169-46. Amended to include SCAP HA-219 on Waiuu Stream for a diversion dam constructed to generate electricity for a farm operation (10/22/1997). Amended to include SCAP HA-047 on Hookelekele Stream for three diversions structures constructed as part of a hydroelectric project (10/18/1989).
8139	Wailoa	180.18	1	5	0/0	HAR §13-169-46

Table F-21 (continued)
Inventory of Surface Water Resources

Unit Code	Unit Name	Area (mi ²)	No. of Diversions	No. of Gages	Active Gages	Interim IFS
HAWAII (continued)						
8140	Kaahakini	388.99	3	0	0/0	HAR §13-169-46
8141	Kīlauea	152.29	0	0	0/0	HAR §13-169-46
8142	Keauhou Point	66.58	0	0	0/0	HAR §13-169-46
8143	Kīlauea Crater	27.10	0	0	0/0	HAR §13-169-46
8144	Kapāpala	183.57	0	0	0/0	HAR §13-169-46
8145	Pahala	271.38	1	1	1/0	HAR §13-169-46
8146	Hīlea	94.44	6	3	0/0	HAR §13-169-46
8147	Nā'ālehu	46.45	1	0	0/0	HAR §13-169-46
8148	Kiolaka'a	66.21	0	0	0/0	HAR §13-169-46
8149	South Point	11.75	1	0	0/0	HAR §13-169-46
8150	Kauna	140.63	0	0	0/0	HAR §13-169-46
8151	Ki'ilae	340.31	4	1	0/0	HAR §13-169-46
8152	Kealakekua	45.29	0	0	0/0	HAR §13-169-46
8153	Wai'aha	224.39	8	4	1/0	HAR §13-169-46
8154	Honokōhau	14.20	0	0	0/0	HAR §13-169-46
8155	Keahole	32.73	0	0	0/0	HAR §13-169-46
8156	Kīholo	236.29	0	0	0/0	HAR §13-169-46
8157	Pōhakuloa	348.76	4	0	0/0	HAR §13-169-46
8158	Kamakoa	192.20	0	0	0/0	HAR §13-169-46
8159	Hāloa	1.07	0	0	0/0	HAR §13-169-46
8160	Lamimaumau	3.88	0	1	0/0	HAR §13-169-46
8161	Waikoloa	51.96	11	6	0/0	HAR §13-169-46
8162	Kawaihae	22.03	0	0	0/0	HAR §13-169-46
8163	Honokoa	12.61	10	0	0/0	HAR §13-169-46
8164	Keawanui	43.90	2	0	0/0	HAR §13-169-46
8165	Lapakahi	6.27	0	0	0/0	HAR §13-169-46
8166	Māhukona	12.61	0	0	0/0	HAR §13-169-46