

MICHAEL P. VICTORINO
Mayor



JEFFREY T. PEARSON, P.E.
Acting Director

RECEIVED
HELENE KAU
Deputy Director

2019 JAN -8 AM 9:40

OFFICE OF THE MAYOR

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793-2155
www.mauiwater.org

January 7, 2019

Honorable Michael P. Victorino,
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

For Transmittal to:

Honorable Kelly T. King, Chair
and Members of the Maui County Council
200 South High Street
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL

Michael P. Victorino 1/12/19
Mayor Date

Dear Chair King and Members:

SUBJECT: MONTHLY SOURCE AND GROUNDWATER USE REPORTS

Attached please find copies of the Department of Water Supply's Monthly Source Report and Groundwater Use Report for the month ending December 2018.

Thank you for your attention to this matter. Should you have any questions or require additional information, please feel free to contact me at Ext. 7834.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeffrey T. Pearson".

JEFFREY T. PEARSON, P.E.
Acting Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 19-50

"By Water All Things Find Life"

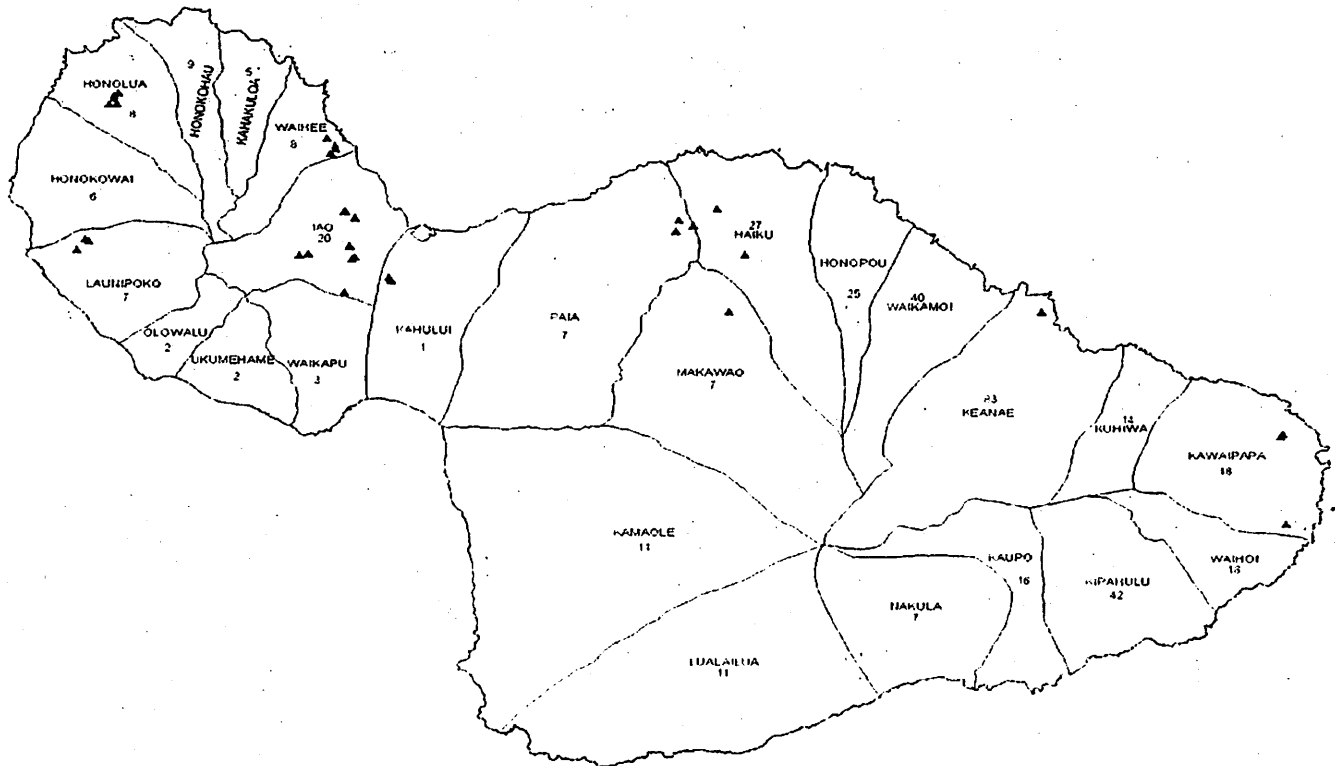
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Current Year	Last 12 Months
Central														
Mokuhau 501	53,230	45,251	60,782	38,900	28,906	10,529	5,954	5,095	6,954	13,895	2,129	53	267,677	267,677
Mokuhau 503	81,409	63,676	62,807	42,302	42,601	73,744	88,528	80,186	73,744	79,107	72,752	71,350	832,206	832,206
Waihee 577	114,125	74,578	34,552	31,654	44,064	48,583	57,112	48,300	61,600	59,391	71,434	56,720	702,112	702,112
Waihee 578	60,126	64,838	40,028	27,232	45,752	49,294	52,874	47,002	43,205	51,837	59,549	49,091	590,828	590,828
Waihee 579	47,090	12,391	116,028	102,719	119,869	115,425	121,545	114,312	101,291	107,822	86,195	105,339	1,150,027	1,150,027
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	33,869	27,718	31,801	30,365	32,719	37,771	38,079	35,714	33,880	33,798	30,896	31,501	398,110	398,110
Wailuku Shaft 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iao	4,472	708	12,097	40,153	14,500	32,396	35,563	34,954	11,840	7,151	21,686	48,968	264,486	264,486
Waikapu	31,971	25,352	28,827	25,575	29,514	36,609	38,331	34,826	32,130	36,210	34,088	33,777	387,209	387,209
Wailuku 1	3,128	5,557	4,073	276	64,020	65,556	66,459	49,574	48,245	48,326	12,662	12,061	380,936	380,936
Wailuku 2	64,699	64,741	64,789	64,832	64,879	64,924	64,970	65,017	65,062	65,108	65,153	65,200	779,372	779,372
DAILY AVERAGE	15,939	13,743	14,703	13,400	15,639	17,828	18,368	16,612	15,965	16,214	15,218	15,292	18,924	16,762
Kepaniwai 511	22,152	20,095	22,320	21,595	22,320	21,454	22,141	22,038	21,492	22,320	21,600	22,238	261,764	261,764
Iao Tunnel	45,781	41,535	47,987	48,648	47,809	47,434	48,584	49,125	47,362	48,854	47,702	49,273	568,095	568,095
DAILY AVERAGE	2,191	2,201	2,268	2,275	2,282	2,296	2,281	2,295	2,295	2,296	2,310	2,307	2,730	2,274
N. Waihee #1	21,639	19,614	21,198	22,278	23,474	21,498	22,474	30,025	25,739	22,767	23,275	21,441	275,422	275,422
N. Waihee #2	26,216	20,511	26,093	26,254	27,217	26,484	27,448	22,250	21,359	26,328	26,981	23,103	300,243	300,243
Kanoa #1	15,760	13,695	13,683	18,454	20,061	17,853	18,759	30,596	24,949	17,911	17,401	7,570	216,692	216,692
Kanoa #2	20,538	24,836	17,765	19,506	19,081	19,374	19,809	15,652	19,981	18,693	18,526	29,514	243,275	243,275
Kupaa	23,585	19,358	39,391	32,995	32,995	40,073	43,963	37,801	38,163	37,420	32,065	48,741	426,550	426,550
DAILY AVERAGE	3,475	3,500	3,811	3,983	3,962	4,176	4,273	4,398	4,340	3,972	3,942	4,205	4,610	4,006
Maul Lani #5	5,696	5,336	5,955	5,774	5,642	5,724	5,891	5,943	6,115	5,920	5,734	5,964	69,695	69,695
Maul Lani #6	11,337	10,237	11,376	10,956	11,364	11,001	11,348	11,346	11,209	11,326	11,009	11,376	133,885	133,885
Maul Lani #7	16,692	15,131	16,772	16,241	16,399	16,201	16,756	16,671	16,411	16,698	16,197	16,753	196,919	196,919
DAILY AVERAGE	1,088	1,097	1,100	1,099	1,078	1,098	1,097	1,095	1,125	1,095	1,098	1,100	1,317	1,097
UpCountry														
Haiuku	6,992	5,927	8,794	8,810	8,990	1,558	1,192	3,336	8,801	8,131	7,743	7,728	78,002	78,002
H' Poko #1	1,832	0	0	0	0	0	0	0	0	0	0	0	1,832	1,832
H' Poko #2	2,109	0	0	0	0	0	0	0	0	0	0	0	2,109	2,109
Kaupakalua	14,892	13,552	15,805	14,237	14,424	15,293	16,742	15,709	14,631	15,359	16,366	22,750	189,760	189,760
Pookela	85	335	89	172	42	167	28	81	122	133	23	121	1,397	1,397
DAILY AVERAGE	836	708	796	774	757	567	579	617	785	762	804	987	898	748
Lehaina														
Kanaha 575	261	340	323	1,037	1,130	3,818	7,161	3,610	2,325	1,992	1,598	757	24,352	24,352
Kanaha 576	73	233	119	757	142	2,071	2,326	232	1,263	1,253	16	75	8,559	8,559
Waipuka 559	0	22	47	2	0	3,799	7,714	2,693	1,147	730	58	1,183	17,395	17,395
Waipuka 560	400	428	577	1,184	1,241	3,288	1,684	2,431	2,338	2,378	2,011	166	18,125	18,125
Napili A 569	6,488	12,086	13,615	27,330	23,263	23,489	22,309	15,823	6,152	3,305	1,159	420	155,439	155,439
Napili B 570	23,114	20,999	25,796	3,958	0	0	0	0	0	0	0	0	73,867	73,867
Napili C 571	0	0	0	0	0	0	54	9,739	27,483	40,136	37,515	40,443	155,369	155,369
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	28,800	0	0	0	18,809	29,808	30,618	20,400	7,869	9,102	3,636	6,062	155,103	155,103
DAILY AVERAGE	1,908	1,218	1,308	1,142	1,438	2,209	2,318	1,772	1,619	1,900	1,533	1,584	2,001	1,666
Hana														
Hamao 597	266	863	2,825	3,278	3,487	3,424	970	2,555	4,361	1,543	5,033	418	29,023	29,023
Hamao #2	4,031	3,493	1,969	1,292	1,028	1,510	4,475	3,219	1,324	4,058	2	5,678	32,077	32,077
Keanae #1	100	1,056	740	21	753	617	365	872	601	234	695	880	6,933	6,933
Keanae #2	1,104	1	462	930	217	520	474	5	150	589	1	0	4,454	4,454
Waiuku 550 B	215	1,413	818	49	2,493	2,130	1,682	2,225	1,282	3,546	2,293	2,029	20,175	20,175
Waiuku C	3,664	1,837	3,140	5,101	1,488	2,955	2,057	1,659	2,518	607	1	2	25,030	25,030
DAILY AVERAGE	303	309	321	366	305	372	323	340	341	341	267	291	387	322
Molokai														
Kawela 551	3	0	2	0	0	1	0	1	1	7	8	6	28	28
Kawela 552	3,939	3,405	4,031	3,279	4,607	5,258	5,081	3,871	3,832	4,437	4,724	4,424	50,987	50,987
Ualapue 553	1,388	3,296	2,645	4,158	3,541	3,812	2,774	2,066	3,381	2,383	681	1,642	31,766	31,766
Ualapue 554	3,985	1,429	3,080	1,192	2,926	3,049	4,320	5,028	1,529	2,543	4,480	3,899	37,459	37,459
Kualapuu	15,794	11,882	15,603	14,796	16,366	18,473	19,394	18,639	16,041	16,191	16,592	14,639	194,410	194,410
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	810	715	818	781	886	1,020	1,018	955	829	825	883	794	1,035	862

DWS Groundwater Use - Island of Maui

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 12/31/18	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuahau 1	5330-09	267,777,000	733,636	3.67%
			Mokuahau 2	5330-10	0	0	0.00%
			Mokuahau 3	5330-11	832,206,000	2,280,016	11.40%
			Waihee 1	5431-02	702,112,000	1,923,595	9.62%
			Waihee 2	5431-03	590,828,000	1,618,707	8.09%
			Waihee 3	5431-04	1,150,027,000	3,150,759	15.75%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	398,110,000	1,090,712	5.45%
			Wailuku Shaft 33	5330-05	0	0	0.00%
			Kepaniwai	5332-05	261,764,000	717,162	3.59%
			Iao Tank Site Well	5230-02	264,486,000	724,619	3.62%
			Waikapu Well	5131-01	387,209,000	1,060,847	5.30%
			Wailuku 1	5230-04	380,936,000	1,043,660	5.22%
			Wailuku 2	5230-05	779,372,000	2,135,266	10.68%
	Iao Subtotal					16,478,978	82.39%
	Waihee	8					
			North Waihee # 1	5631-02	275,422,000	754,581	9.43%
			North Waihee # 2	5631-03	300,243,000	822,584	10.28%
			Kanoa 1	5731-02	216,692,000	593,677	7.42%
			Kanoa 2	5731-04	243,275,000	666,507	8.33%
			Kupaa	5731-03	426,550,000	1,168,630	14.61%
	Waihee Subtotal					4,005,978	50.07%
	Kahakuloa	5					
Central	Kahului	1					
			Maui Lani #5	5229-04	69,695,000	190,945	19.09%
			Maui Lani #6	5229-05	133,885,000	366,808	36.68%
			Maui Lani #7	5229-06	196,919,000	539,504	53.95%
	Kahului Subtotal					1,097,258	109.73%
	Kamaole	11					
	Paia	7					
			Hamakuapoko 1	5420-02	1,832,000	5,019	0.07%
			Hamakuapoko 2	5320-01	2,109,000	5,778	0.08%
	Paia Subtotal					10,797	0.15%
	Makawao	7					
			Pookela	5118-02	1,397,000	3,827	0.05%
	Makawao Subtotal					3,827	0.05%
Koolau	Haiku	27					
			Kaupakalua	5317-01	189,760,000	519,890	1.93%
			Haiku	5419-01	78,002,000	213,704	0.79%
	Haiku Subtotal				0	733,595	2.72%
	Honopou	25					
	Waikamoi	40					
	Kearnae	83					
			Kearnae 1	5108-01	6,933,000	18,995	0.02%
			Kearnae 2	5108-02	4,454,000	12,203	0.01%
	Kearnae Subtotal					31,197	0.04%
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	29,023,000	79,515	0.17%
			Hamoia 2	4300-03	32,077,000	87,882	0.18%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 12/31/18	% Sustainable Yield
			Waiuku B	4600-03	20,175,000	55,274	0.12%
			Waiuku C	4600-04	25,030,000	68,575	0.14%
	Kaiaipapa Subtotal					291,247	0.61%
	Waihoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	155,439,000	425,860	5.32%
			Napili B	5838-02	73,867,000	202,375	2.53%
			Napili C	5838-04	155,369,000	425,668	5.32%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	155,103,000	424,940	5.31%
	Honolua Subtotal					1,478,844	18.49%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	24,352,000	66,718	0.95%
			Kanaha 2	5339-04	8,559,000	23,449	0.33%
			Waipuka 1	5339-01	17,395,000	47,658	0.68%
			Waipuka 2	5339-02	18,125,000	49,658	0.71%
	Launiupoko Subtotal					187,482	2.68%
	Olowalu	2					
	Ukumehame	2					



DWS Groundwater Use - Island of Molokai

Aquifer Sector	Aquifer System	Sustainable Yield	Developable Yield	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 12/31/18	Sustainable Yield - % DWS
West	Kaluakoi	2	2					
	Punakou	2	2					
Central	Hoolehua	2	2					
	Manawainui	2	2					
	Kualapuu	5	5					
				Kualapuu	0801-03	194,410,000	532,630	10.65%
				Waikalae Tunnel	1059-01	0	0	0.00%
	Kualapuu Subtotal						532,630	10.65%
Southeast	Kamiloloa	3	3					
	Kawela	5	5					
				Kawela	0457-01	51,015,000	139,767	2.80%
	Kawela Subtotal						139,767	2.80%
	Ualapue	8	8					
				Ualapue	0449-01	69,225,000	189,658	2.37%
	Ualapue Subtotal						189,658	2.37%
	Waialua	6	8					
Northeast	Kalaupapa	2	0					
	Kahanui	3	0					
	Waikolu	5	4.5					
	Haupu	2	0					
	Pelekunu	9	0					
	Wailau	15	0					
	Halawa	8	0					

