

ALAN M. ARAKAWA  
Mayor



DAVID TAYLOR, P.E.  
Director

GLADYS C. BAISA  
Deputy Director

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

May 4, 2017

Honorable Alan Arakawa  
Mayor, County of Maui  
200 South High Street  
Wailuku, Hawaii 96793

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COUNTY CLERK

For Transmittal to:

Honorable Mike White, Chair  
and Members of the Maui County Council  
200 South High Street  
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL

*Al Arakawa* 5/2/17  
Mayor Date

Dear Chair White 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 April 2017.

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. 7816.

Sincerely,

*Gladys C. Baisa for*

DAVID TAYLOR  
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 17-192

"By Water All Things Find Life"

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

WELL_NAME	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	Current Year	Last 12 Months
<i>Central</i>														
Mokuhau 501	66,390	76,619	63,337	65,726	47,127	40,435	25,356	18,783	29,858	21,351	38,938	46,566	136,714	540,486
Mokuhau 503	6,712	517	18,766	38,531	99,511	112,980	106,117	99,351	102,451	91,707	75,445	78,049	347,651	830,135
Waihee 577	77,154	89,771	100,246	104,219	100,047	111,706	107,713	89,566	94,371	75,460	80,080	91,171	341,082	1,121,504
Waihee 578	35,157	36,080	48,219	51,665	55,682	71,078	69,296	32,152	58,482	67,773	66,566	80,320	273,140	672,468
Waihee 579	0	0	74	0	0	0	0	0	0	0	0	0	0	74
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	31,196	29,984	31,931	32,564	31,523	32,099	30,453	27,128	29,438	26,520	30,396	32,810	119,164	366,040
Wailuku Shaft 33	144,601	140,090	143,666	71,489	0	0	0	0	0	0	0	0	0	499,847
Iao	12,720	25,655	31,683	33,058	44,820	57,596	60,431	62,496	59,248	25,402	51,873	59,816	196,339	524,799
Waikapu	32,732	32,562	33,870	35,810	33,000	34,457	35,315	28,511	32,400	26,210	28,222	32,720	119,551	385,825
Wailuku 1	0	336	7,632	48,082	8,049	63,869	61,424	38,755	35,904	44,224	10,714	19,114	109,956	338,103
Wailuku 2	0	0	0	0	7,931	842	0	0	0	0	362	140	502	9,275
<b>DAILY AVERAGE</b>	<b>13,118</b>	<b>14,388</b>	<b>15,465</b>	<b>15,521</b>	<b>14,256</b>	<b>16,937</b>	<b>16,537</b>	<b>12,798</b>	<b>14,263</b>	<b>13,523</b>	<b>12,342</b>	<b>14,690</b>	<b>13,701</b>	<b>14,489</b>
Kepaniwal 511	22,272	21,600	22,279	22,233	21,143	22,319	21,526	22,320	22,303	20,133	22,318	21,580	86,333	262,024
Iao Tunnel	49,158	47,420	49,779	49,704	20,534	0	0	0	0	24,978	37,774	36,744	99,496	316,091
<b>DAILY AVERAGE</b>	<b>2,304</b>	<b>2,301</b>	<b>2,324</b>	<b>2,321</b>	<b>1,389</b>	<b>720</b>	<b>718</b>	<b>720</b>	<b>719</b>	<b>1,611</b>	<b>1,938</b>	<b>1,944</b>	<b>1,549</b>	<b>1,584</b>
N. Waihee #1	44,634	42,561	32,234	38,266	38,951	45,421	41,822	32,568	37,501	36,219	42,349	41,198	157,267	473,724
N. Waihee #2	0	0	21,428	44,778	44,680	46,767	45,114	34,254	24,646	21,029	18,002	13,768	77,445	314,466
Kanoa #1	47,031	45,129	24,006	30,779	34,613	31,379	26,043	21,391	7,315	31,135	34,954	43,353	116,757	377,127
Kanoa #2	52,015	49,360	30,960	7,043	0	0	12,969	59,029	53,187	59,355	57,569	229,140	381,487	
Kupaa	27,508	35,758	41,863	45,554	42,024	47,192	46,369	48,692	43,996	29,254	33,068	33,321	139,640	474,601
<b>DAILY AVERAGE</b>	<b>5,522</b>	<b>5,760</b>	<b>4,855</b>	<b>5,368</b>	<b>5,342</b>	<b>5,608</b>	<b>5,312</b>	<b>4,835</b>	<b>5,564</b>	<b>6,101</b>	<b>6,056</b>	<b>6,307</b>	<b>6,002</b>	<b>5,538</b>
Maul Lani #5	5,813	5,666	5,694	5,781	6,176	5,819	5,779	5,891	5,671	5,201	5,680	5,755	22,306	68,926
Maul Lani #6	11,599	11,120	11,274	11,578	11,446	11,582	11,283	11,549	11,599	10,391	11,582	11,009	44,525	135,956
Maul Lani #7	16,717	16,209	16,363	16,617	16,491	16,605	16,185	16,737	16,761	13,716	16,236	16,232	62,945	194,867
<b>DAILY AVERAGE</b>	<b>1,101</b>	<b>1,100</b>	<b>1,075</b>	<b>1,096</b>	<b>1,137</b>	<b>1,097</b>	<b>1,108</b>	<b>1,102</b>	<b>1,098</b>	<b>1,047</b>	<b>1,079</b>	<b>1,100</b>	<b>1,081</b>	<b>1,095</b>
<i>UpCountry</i>														
Haiku	5,853	6,153	6,368	6,368	5,528	6,411	5,979	5,876	6,576	6,125	7,332	7,040	27,073	75,609
H' Poko #1	0	0	2	0	0	0	0	0	15	0	666	2,382	3,063	3,065
H' Poko #2	0	0	0	0	0	0	0	0	8	0	772	2,408	3,187	3,187
Kaupakalua	18,256	17,501	17,452	16,808	15,558	15,855	14,831	15,470	16,189	13,871	15,946	15,239	61,245	192,977
Pookela	40	573	6,260	180	302	63	270	999	601	23,100	39,752	22,597	86,051	94,738
<b>DAILY AVERAGE</b>	<b>779</b>	<b>808</b>	<b>970</b>	<b>753</b>	<b>713</b>	<b>720</b>	<b>703</b>	<b>721</b>	<b>754</b>	<b>1,539</b>	<b>2,080</b>	<b>1,656</b>	<b>1,505</b>	<b>1,013</b>
<i>Lahaina</i>														
Kanaha 575	227	529	1,175	480	1,792	225	220	209	305	105	109	30	548	5,405
Kanaha 576	779	1,236	2,187	911	1,867	372	252	195	328	72	126	81	606	8,405
Walpuka 559	1,118	2,106	3,621	1,627	180	0	0	0	0	0	0	0	0	8,652
Walpuka 560	864	1,372	2,466	1,015	2,219	600	350	217	190	197	260	220	867	9,971
Napili A 569	13,172	13,946	17,387	10,405	1,989	3,147	4,001	6,028	3,016	2,097	3,693	3,423	12,229	82,305
Napili B 570	737	1,648	1,547	7,723	11,833	13,322	8,692	10,778	10,642	9,154	11,111	18,166	49,073	105,353
Napili C 571	40,505	40,344	42,949	42,022	41,702	41,294	38,714	28,605	40,991	38,910	42,744	41,853	164,497	480,633
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	38	156	10	10	10	0	17	0	0	789	135	0	924	1,167
<b>DAILY AVERAGE</b>	<b>1,853</b>	<b>2,045</b>	<b>2,301</b>	<b>2,071</b>	<b>2,053</b>	<b>1,902</b>	<b>1,742</b>	<b>1,485</b>	<b>1,789</b>	<b>1,833</b>	<b>1,877</b>	<b>2,126</b>	<b>1,906</b>	<b>1,923</b>
<i>Hana</i>														
Hamoia 597	861	4,008	1,678	793	1,058	1,516	397	2	1,207	754	2,177	2,749	6,887	17,200
Hamoia #2	7,153	3,467	6,661	7,981	6,337	5,811	6,666	6,821	4,127	3,476	2,336	1,613	11,552	62,448
Keanae #1	1,328	1,471	1,296	0	0	757	14	0	0	530	1,036	1,076	2,643	7,510
Keanae #2	0	0	265	1,223	1,223	519	943	994	1,032	462	2	1	1,496	6,664
Wakiu 550 B	7,134	7,245	7,454	7,073	7,129	7,763	7,449	0	0	0	32	11	43	51,289
Wakiu C	0	0	0	0	0	0	0	0	7,555	5,557	6,699	6,119	25,930	25,930
<b>DAILY AVERAGE</b>	<b>531</b>	<b>540</b>	<b>560</b>	<b>551</b>	<b>525</b>	<b>528</b>	<b>516</b>	<b>252</b>	<b>449</b>	<b>385</b>	<b>396</b>	<b>386</b>	<b>405</b>	<b>469</b>
<i>Molokai</i>														
Kawela 551	78	3,321	4,269	4,249	3,588	3	3	7	6	11	7	9	32	15,549
Kawela 552	3,984	795	4	3	140	3,814	3,877	3,454	3,402	3,252	3,878	4,115	14,647	30,719
Ualapue 553	4,987	7,461	6,093	5,381	4,625	5,297	5,287	1,115	4,209	5,154	6,134	3,295	18,792	59,038
Ualapue 554	2,265	0	11	0	3	0	0	2,991	872	33	50	3,159	4,114	9,385
Kualapuu	19,258	19,122	17,861	19,260	17,038	18,008	17,647	14,130	16,222	14,703	15,633	16,291	62,850	205,172
Walkalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DAILY AVERAGE</b>	<b>986</b>	<b>1,023</b>	<b>911</b>	<b>932</b>	<b>846</b>	<b>875</b>	<b>894</b>	<b>700</b>	<b>797</b>	<b>827</b>	<b>829</b>	<b>896</b>	<b>837</b>	<b>876</b>

### 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 4/30/17	% Sustainable Yield	
Wailuku	Waikapu	3						
	Iao	20						
			Mokuhau 1	5330-09	540,486,000	1,480,784	7.40%	
			Mokuhau 2	5330-10	0	0	0.00%	
			Mokuhau 3	5330-11	830,135,000	2,274,342	11.37%	
			Waihee 1	5431-02	1,121,504,000	3,072,614	15.36%	
			Waihee 2	5431-03	672,468,000	1,842,378	9.21%	
			Waihee 3	5431-04	74,000	203	0.00%	
			Waiehu Heights 1	5430-01	0	0	0.00%	
			Waiehu Heights 2	5430-02	366,040,000	1,002,849	5.01%	
			Wailuku Shaft 33	5330-05	499,847,000	1,369,444	6.85%	
			Kepaniwai	5332-05	262,024,000	717,874	3.59%	
			Iao Tank Site Well	5230-02	524,799,000	1,437,805	7.19%	
			Waikapu Well	5131-01	385,825,000	1,057,055	5.29%	
			Wailuku 1	5230-04	338,103,000	926,310	4.63%	
			Wailuku 2	5230-05	9,275,000	25,411	0.13%	
		<b>Iao Subtotal</b>				<b>15,207,068</b>	<b>76.04%</b>	
		<b>Waihee</b>	<b>8</b>					
				North Waihee # 1	5631-02	473,724,000	1,297,874	16.22%
				North Waihee # 2	5631-03	314,466,000	861,551	10.77%
			Kanoa 1	5731-02	377,127,000	1,033,225	12.92%	
			Kanoa 2	5731-04	381,487,000	1,045,170	13.06%	
			Kupaa	5731-03	474,601,000	1,300,277	16.25%	
	<b>Waihee Subtotal</b>				<b>5,538,096</b>	<b>69.23%</b>		
	<b>Kahakuioa</b>	<b>5</b>						
	<b>Honokohau</b>	<b>9</b>						
Central	<b>Kahului</b>	<b>1</b>						
			Maui Lani #5	5229-04	68,926,000	188,838	18.88%	
			Maui Lani #6	5229-05	135,956,000	372,482	37.25%	
			Maui Lani #7	5229-06	194,867,000	533,882	53.39%	
		<b>Kahului Subtotal</b>				<b>1,095,203</b>	<b>109.52%</b>	
		<b>Kamaole</b>	<b>11</b>					
		<b>Paia</b>	<b>7</b>					
			Hamakuapoko 1	5420-02	3,065,000	8,397	0.12%	
			Hamakuapoko 2	5320-01	3,187,000	8,732	0.12%	
	<b>Paia Subtotal</b>				<b>17,129</b>	<b>0.24%</b>		
	<b>Makawao</b>	<b>7</b>						
			Pookela	5118-02	94,738,000	259,556	3.71%	
	<b>Makawao Subtotal</b>				<b>259,556</b>	<b>3.71%</b>		
Koolau	<b>Haiku</b>	<b>27</b>						
			Kaupakalua	5317-01	192,977,000	528,704	1.96%	
			Haiku	5419-01	75,609,000	207,148	0.77%	
		<b>Haiku Subtotal</b>			<b>0</b>	<b>735,852</b>	<b>2.73%</b>	
		<b>Honopou</b>	<b>25</b>					
	<b>Walakamoi</b>	<b>40</b>						
	<b>Keanae</b>	<b>83</b>						
			Keanae 1	5108-01	7,510,000	20,575	0.02%	
			Keanae2	5108-02	6,664,000	18,258	0.02%	
	<b>Keanae Subtotal</b>				<b>38,833</b>	<b>0.05%</b>		

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 4/30/17	% Sustainable Yield
Hana	Kuhiwa	14					
	Kawaipapa	48	Hamoia 1	4300-02	17,200,000	47,123	0.10%
			Hamoia 2	4300-03	62,448,000	171,090	0.36%
			Wakiu B	4600-03	51,289,000	140,518	0.29%
			Wakiu C	4600-04	25,930,000	71,041	0.15%
<b>Kawaipapa Subtotal</b>					<b>429,773</b>	<b>0.90%</b>	
Walhoi	18						
		Kipahulu	42				
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honolua	8	Napili A	5838-01	82,305,000	225,493	2.82%
			Napili B	5838-02	105,353,000	288,638	3.61%
			Napili C	5838-04	480,633,000	1,316,803	16.46%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	1,167,000	3,197	0.04%
	<b>Honolua Subtotal</b>					<b>1,834,132</b>	<b>22.93%</b>
Honokowai	6						
Launiupoko	7	Kanaha 1	5339-03	5,405,000	14,808	0.21%	
		Kanaha 2	5339-04	8,405,000	23,027	0.33%	
		Waipuka 1	5339-01	8,652,000	23,704	0.34%	
		Waipuka 2	5339-02	9,971,000	27,318	0.39%	
<b>Launiupoko Subtotal</b>					<b>88,858</b>	<b>1.27%</b>	
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 4/30/17	Sustainable Yield - % DWS	% DY MWWGR
West	Kaluakoi	2	2						
	Punakou	2	2						
Central	Hoolehua	2	2						
	Manawainui	2	2						
	Kualapuu	5	5	Kualapuu	0801-03	205,172,000	562,115	11.24%	11.24%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
Kualapuu Subtotal						<b>562,115</b>	<b>11.24%</b>	<b>11.24%</b>	
Southeast	Kamiloloa	3	3						
	Kawela	5	5	Kawela	0457-01	46,268,000	126,762	2.54%	2.54%
				Kawela Subtotal				<b>126,762</b>	<b>2.54%</b>
	Ualapue	8	8	Ualapue	0449-01	68,423,000	187,460	2.34%	2.34%
Ualapue Subtotal						<b>187,460</b>	<b>2.34%</b>	<b>2.34%</b>	
Northeast	Waialua	6	8						
	Kalaupapa	2	0						
	Kahanui	3	0						
	Waikolu	5	4.5						
	Hauptu	2	0						
	Pelekunu	9	0						
	Wailau	15	0						
Halawa	8	0							

