

ALAN M. ARAKAWA
Mayor



DAVID TAYLOR, P.E.
Director

GLADYS C. BAISA
Deputy Director

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OFFICE OF THE MAYOR

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

April 5, 2018

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

For Transmittal to:

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

Dear Chair White and Members:

APPROVED FOR TRANSMITTAL

Alan Arakawa 4/6/18
Mayor Date

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 March 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. 7816.

Sincerely,

Gladys C. Baisa

GLADYS C. BAISA
Deputy Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 18-144

"By Water All Things Find Life"

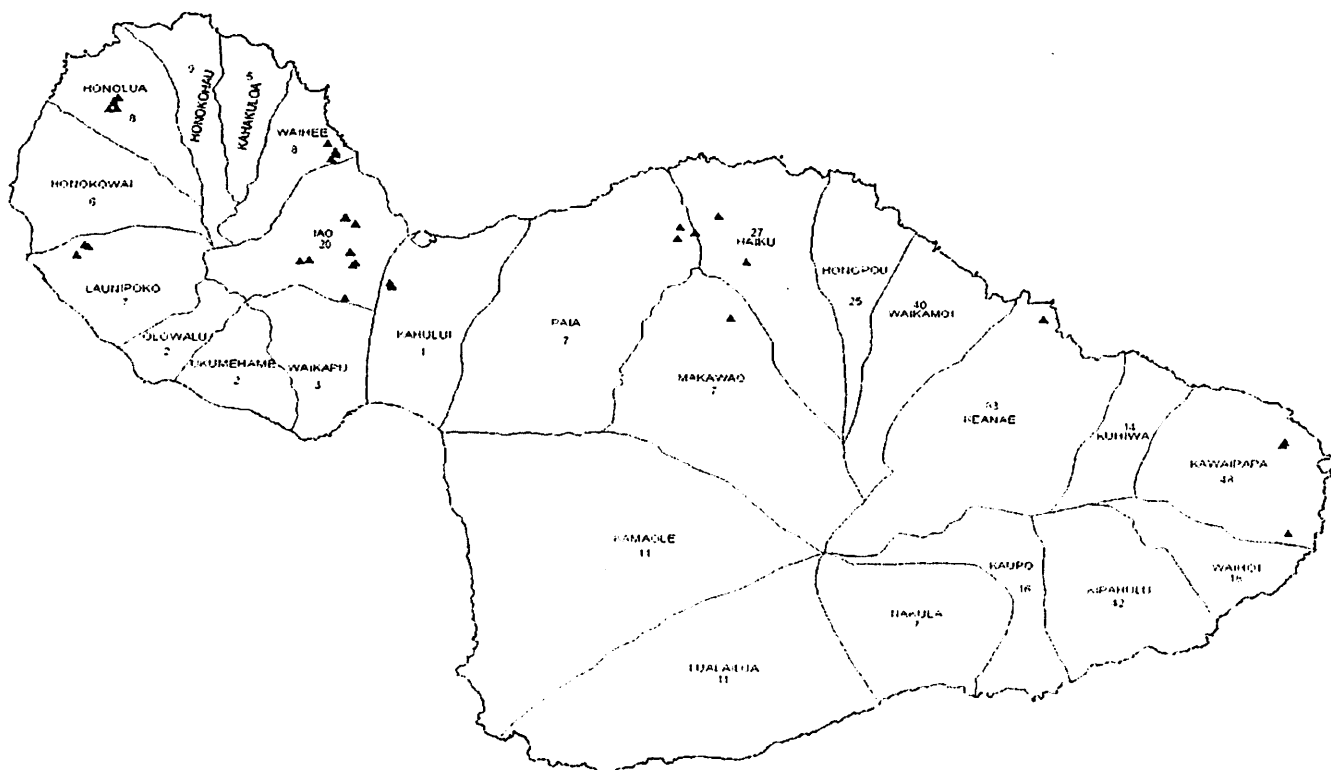
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Current Year	Last 12 Months
Central														
Mokuhau 501	46,566	59,671	67,872	64,352	58,931	60,721	55,159	37,890	44,251	53,230	45,251	60,782	159,262	654,674
Mokuhau 503	78,049	71,400	79,363	85,991	86,953	83,794	78,217	72,727	72,668	81,409	63,676	62,807	207,892	917,053
Waihee 577	91,171	79,145	86,279	108,618	114,302	101,248	99,957	95,987	111,311	114,125	74,578	34,552	223,255	1,111,273
Waihee 578	80,320	63,707	29,336	0	0	618	0	97	683	60,126	64,838	40,028	164,992	339,752
Waihee 579	0	4,148	55,256	92,866	82,440	81,626	71,821	73,412	85,403	47,090	12,391	116,028	175,510	722,481
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	32,810	34,359	35,851	37,953	37,265	37,303	35,310	31,698	31,686	33,869	27,718	31,801	93,388	407,622
Wailuku Shaft 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iao	59,816	39,801	18,721	10,303	25,739	36,529	10,676	4,271	407	4,472	706	12,097	17,275	223,538
Walkapu	32,720	34,410	31,220	37,050	36,359	36,479	35,136	32,664	27,234	31,971	25,352	28,827	86,150	389,420
Wailuku 1	19,114	30,183	50,163	22,469	14,034	4,941	30,188	39,096	14,753	3,128	5,557	4,073	12,758	237,698
Wailuku 2	140	9,233	16,781	64,423	64,469	64,514	64,561	64,606	64,652	64,699	64,741	64,789	194,228	607,605
DAILY AVERAGE	14,690	13,744	15,695	16,904	16,790	16,926	15,517	15,082	14,814	15,939	13,743	14,703	14,830	15,373
Kepaniwai 511	21,580	22,116	21,600	22,143	22,316	21,600	22,076	21,596	22,320	22,152	20,095	22,320	64,567	261,912
Iao Tunnel	36,397	33,394	32,880	34,346	33,669	33,535	34,667	32,842	43,262	45,781	41,535	47,987	135,304	450,295
DAILY AVERAGE	1,933	1,791	1,816	1,822	1,806	1,838	1,830	1,815	2,116	2,191	2,201	2,288	2,221	1,951
N. Waihee #1	41,198	40,523	27,411	26,771	25,334	18,308	19,177	23,194	22,270	21,639	19,614	21,198	62,451	306,638
N. Waihee #2	13,768	22,483	19,438	19,961	18,452	22,580	23,066	20,643	25,633	26,216	20,511	26,093	72,820	258,842
Kanoa #1	43,353	32,431	24,200	19,900	46,680	46,503	46,691	38,374	16,150	15,760	13,695	13,683	43,138	357,419
Kanoa #2	57,569	58,628	37,094	47,004	37,095	43,741	37,576	28,551	19,547	20,538	24,836	17,765	63,138	429,944
Kupaa	33,321	34,751	46,405	48,280	44,899	41,817	41,385	45,557	28,986	23,585	19,358	39,391	82,334	447,736
DAILY AVERAGE	6,307	6,091	5,152	5,223	5,563	5,765	5,416	5,211	3,632	3,475	3,500	3,811	3,599	4,933
Maui Lani #5	5,755	5,829	5,761	5,974	6,155	5,846	5,771	5,698	5,897	5,696	5,336	5,955	16,987	69,672
Maui Lani #6	11,009	11,303	11,009	11,336	11,327	11,001	10,957	11,009	11,216	11,337	10,237	11,376	32,950	133,116
Maui Lani #7	16,232	16,747	16,237	16,746	16,765	16,297	16,117	16,200	16,402	16,692	15,131	16,772	48,595	196,336
DAILY AVERAGE	1,100	1,093	1,100	1,099	1,105	1,105	1,080	1,097	1,081	1,088	1,097	1,100	1,095	1,093
UpCountry														
Haiku	7,040	7,498	8,301	8,494	7,909	8,314	7,428	6,616	6,758	6,992	5,927	8,794	21,713	90,071
H' Poko #1	2,382	0	83	589	0	0	1,320	0	0	1,832	0	0	1,832	6,207
H' Poko #2	2,408	1	83	576	0	0	1,161	0	0	2,109	0	0	2,109	6,337
Kaupakalua	15,239	16,357	15,931	16,609	16,037	22,641	15,914	14,225	14,268	14,892	13,552	15,805	44,249	191,470
Pookela	22,597	762	127	5,090	310	6,260	262	104	99	85	335	89	509	36,118
DAILY AVERAGE	1,656	794	818	1,012	782	1,241	841	698	681	836	708	796	782	905
Lahaina														
Kanaha 575	30	509	1,199	2,120	3,722	6,049	4,900	2,102	583	261	340	323	923	22,137
Kanaha 576	81	748	1,710	1,507	3,088	4,251	2,727	942	466	73	233	119	425	15,945
Waipuka 559	0	0	0	0	0	0	0	0	0	0	22	47	69	69
Waipuka 560	220	1,107	2,833	4,608	6,398	8,599	6,628	3,140	690	400	428	577	1,405	35,627
Napili A 569	3,423	6,482	6,698	11,739	16,708	14,898	7,544	5,221	904	6,488	12,086	13,615	32,189	105,806
Napili B 570	18,166	13,468	18,647	21,406	22,508	22,382	23,208	22,496	16,934	23,114	20,999	25,796	69,909	249,123
Napili C 571	41,853	42,786	41,024	38,796	3,977	0	0	0	0	0	0	0	0	168,436
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	0	0	24	48	24,605	29,808	30,357	29,006	30,471	28,800	0	0	28,800	173,119
DAILY AVERAGE	2,126	2,100	2,404	2,588	2,613	2,866	2,431	2,097	1,614	1,808	1,218	1,306	1,486	2,110
Hana														
Hamao 597	2,749	454	1,029	2,103	2,190	1,169	488	1,601	2,408	266	863	2,825	3,954	18,145
Hamao #2	1,613	4,386	3,380	1,283	1,164	2,234	3,225	1,803	1,225	4,031	3,493	1,969	9,493	29,805
Keanae #1	1,076	1,058	794	338	329	253	1	494	640	100	1,056	740	1,895	6,878
Keanae #2	1	103	430	649	677	800	1,111	533	362	1,104	1	462	1,567	6,233
Wakiu 550 B	11	72	744	2,625	1,606	2,240	1,760	1,575	2,330	215	1,413	818	2,446	15,409
Wakiu C	6,119	7,073	6,057	3,429	3,050	1,834	2,306	1,820	1,118	3,664	1,837	3,140	8,641	41,447
DAILY AVERAGE	386	424	414	336	291	284	287	261	261	303	309	321	311	323
Molokai														
Kawela 551	9	7	0	5	3	3	4	9	8	3	0	2	5	51
Kawela 552	4,115	4,707	4,881	4,329	4,205	4,049	3,973	3,874	3,867	3,939	3,405	4,031	11,374	49,375
Ualapue 553	3,295	141	3,863	3,284	4,425	5,820	3,326	4,230	1,942	1,388	3,296	2,645	7,329	37,654
Ualapue 554	3,159	6,573	3,521	3,556	3,121	1,201	3,527	967	3,065	3,985	1,429	3,080	8,493	37,182
Kualapuu	16,291	16,886	18,898	19,744	19,856	19,138	17,879	15,562	13,064	15,794	11,882	15,603	43,278	200,588
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	896	913	1,039	997	1,020	1,007	926	821	708	810	715	818	783	890

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 3/31/18	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhau 1	5330-09	654,674,000	1,793,627	8.97%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	917,053,000	2,512,474	12.56%
			Waihee 1	5431-02	1,111,273,000	3,044,584	15.22%
			Waihee 2	5431-03	339,752,000	930,827	4.65%
			Waihee 3	5431-04	722,481,000	1,979,400	9.90%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	407,622,000	1,116,773	5.58%
			Wailuku Shaft 33	5330-05	0	0	0.00%
			Kepaniwai	5332-05	261,912,000	717,567	3.59%
			Iao Tank Site Well	5230-02	223,538,000	612,433	3.06%
			Waikapu Well	5131-01	389,420,000	1,066,904	5.33%
			Wailuku 1	5230-04	237,698,000	651,227	3.26%
			Wailuku 2	5230-05	607,605,000	1,664,671	8.32%
	Iao Subtotal					16,090,488	80.45%
	Waihee	8					
			North Waihee # 1	5631-02	306,638,000	840,104	10.50%
			North Waihee # 2	5631-03	258,842,000	709,156	8.86%
			Kanoa 1	5731-02	357,419,000	979,230	12.24%
			Kanoa 2	5731-04	429,944,000	1,177,929	14.72%
			Kupaa	5731-03	447,736,000	1,226,674	15.33%
	Waihee Subtotal					4,933,093	61.66%
	Kahakuloa	5					
	Honokohau	9					
Central	Kahului	1					
			Maui Lani #5	5229-04	69,672,000	190,882	19.09%
			Maui Lani #6	5229-05	133,116,000	364,701	36.47%
			Maui Lani #7	5229-06	196,336,000	537,907	53.79%
	Kahului Subtotal					1,093,490	109.35%
	Kamaole	11					
	Paia	7					
			Hamakuapoko 1	5420-02	6,207,000	17,005	0.24%
			Hamakuapoko 2	5320-01	6,337,000	17,362	0.25%
	Paia Subtotal					34,367	0.49%
	Makawao	7					
			Pookela	5118-02	36,118,000	98,953	1.41%
	Makawao Subtotal					98,953	1.41%
Koolau	Haiku	27					
			Kaupakalua	5317-01	191,470,000	524,575	1.94%
			Haiku	5419-01	90,071,000	246,770	0.91%
	Haiku Subtotal				0	771,345	2.86%
	Honopou	25					
	Waiakamoi	40					
	Keanae	83					
			Keanae 1	5108-01	6,878,000	18,844	0.02%
			Keanae2	5108-02	6,233,000	17,077	0.02%
	Keanae Subtotal					35,921	0.04%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 3/31/18	% Sustainable Yield
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	18,145,000	49,712	0.10%
			Hamoia 2	4300-03	29,805,000	81,658	0.17%
			Wakui B	4600-03	15,409,000	42,216	0.09%
			Wakui C	4600-04	41,447,000	113,553	0.24%
	Kawaipapa Subtotal					287,140	0.60%
	Waihoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honolua	8					
			Napili A	5838-01	105,806,000	289,879	3.62%
			Napili B	5838-02	249,123,000	682,529	8.53%
			Napili C	5838-04	168,436,000	461,468	5.77%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	173,119,000	474,299	5.93%
	Honolua Subtotal					1,908,175	23.85%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	22,137,000	60,649	0.87%
			Kanaha 2	5339-04	15,945,000	43,685	0.62%
			Waipuka 1	5339-01	69,000	189	0.00%
			Waipuka 2	5339-02	35,627,000	97,608	1.39%
	Launiupoko Subtotal					202,132	2.89%
	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 3/31/18	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	200,598,000	549,584	10.99%	10.99%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						549,584	10.99%	10.99%
Southeast	Kamiololoa	3	3						
	Kawela	5	5						
				Kawela	0457-01	49,426,000	135,414	2.71%	2.71%
	Kawela Subtotal						135,414	2.71%	2.71%
	Ualapue	8	8						
				Ualapue	0449-01	74,836,000	205,030	2.56%	2.56%
	Ualapue Subtotal						205,030	2.56%	2.56%
	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						

