

ALAN M. ARAKAWA  
Mayor



GLADYS C. BAISA  
Director

SHAYNE R. AGAWA, P.E.  
Deputy Director

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DEPARTMENT OF WATER SUPPLY  
COUNTY OF MAUI  
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WAILUKU, MAUI, HAWAII 96793-2155  
www.mauiwater.org  
September 8, 2018

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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

APPROVED FOR TRANSMITTAL  
*Alan Arakawa* 9/14/18  
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 August 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  
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 18-343

*"By Water All Things Find Life"*

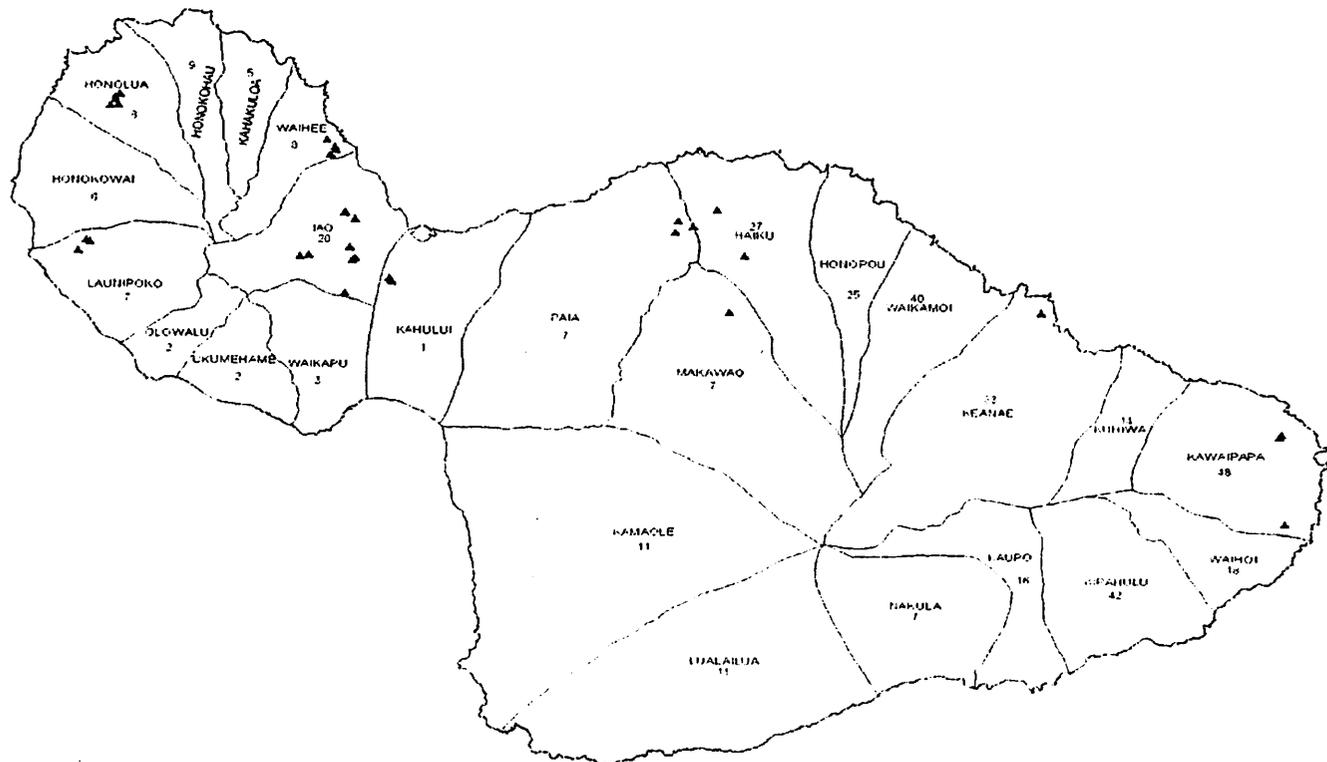
County of Maui  
Dept. of Water Supply  
Monthly Source Reports  
(Gals X 1000)

WELL NAME	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Current Year	Last 12 Months
<b>Central</b>														
Mokuhau 501	60,721	55,159	37,890	44,251	53,230	45,251	60,782	36,900	26,906	10,529	5,954	5,095	244,647	442,667
Mokuhau 503	83,794	78,217	72,727	72,668	81,409	63,676	62,807	42,302	42,601	73,744	88,528	80,186	535,253	842,660
Waihee 577	101,248	99,957	95,987	111,311	114,125	74,578	34,552	31,654	44,064	48,583	57,112	48,300	452,968	861,472
Waihee 578	618	0	97	683	60,126	64,838	40,028	27,232	45,752	49,294	52,874	47,002	387,145	388,544
Waihee 579	81,626	71,821	73,412	85,403	47,090	12,391	116,028	102,719	119,869	115,425	121,545	114,312	749,379	1,061,641
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	37,303	35,310	31,698	31,686	33,869	27,718	31,801	30,365	32,719	37,771	38,079	35,714	268,035	404,032
Wailuku Shaft 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lao	36,529	10,676	4,271	407	4,472	706	12,097	40,153	14,500	32,396	35,563	34,954	174,841	226,724
Waikapu	36,479	35,136	32,664	27,234	31,971	25,352	28,827	25,575	29,514	36,609	38,331	34,826	251,004	382,517
Wailuku 1	4,941	30,188	39,096	14,753	3,128	5,557	4,073	276	64,020	65,556	66,459	49,574	258,643	347,621
Wailuku 2	64,514	64,561	64,606	64,652	64,699	64,741	64,789	64,832	64,879	64,924	64,970	65,017	518,849	777,182
<b>DAILY AVERAGE</b>	<b>16,926</b>	<b>15,517</b>	<b>15,082</b>	<b>14,614</b>	<b>15,939</b>	<b>13,743</b>	<b>14,703</b>	<b>13,400</b>	<b>15,639</b>	<b>17,828</b>	<b>18,368</b>	<b>16,612</b>	<b>15,806</b>	<b>15,712</b>
Kepaniwal 511	21,600	22,076	21,596	22,320	22,152	20,095	22,320	21,595	22,320	21,454	22,141	22,038	174,115	261,706
lao Tunnel	33,535	34,667	32,842	43,262	45,781	41,535	47,987	46,648	47,809	47,434	48,584	49,125	374,903	519,209
<b>DAILY AVERAGE</b>	<b>1,838</b>	<b>1,830</b>	<b>1,815</b>	<b>2,116</b>	<b>2,191</b>	<b>2,201</b>	<b>2,268</b>	<b>2,275</b>	<b>2,262</b>	<b>2,296</b>	<b>2,281</b>	<b>2,296</b>	<b>2,259</b>	<b>2,139</b>
N. Waihee #1	18,308	19,177	23,194	22,270	21,639	19,614	21,198	22,278	23,474	21,498	22,474	30,025	182,200	265,150
N. Waihee #2	22,580	23,066	20,643	25,633	26,216	20,511	26,093	26,254	27,217	26,484	27,448	22,250	202,472	294,395
Kanoa #1	46,503	46,691	38,374	18,150	15,760	13,693	13,683	18,454	20,061	17,853	18,759	30,596	148,861	298,578
Kanoa #2	43,741	37,576	28,551	19,547	20,538	24,836	17,765	19,506	19,081	19,374	19,809	15,652	156,560	285,975
Kupaa	41,817	41,385	45,557	28,986	23,585	19,358	39,391	32,995	32,995	40,073	43,963	37,801	270,161	427,907
<b>DAILY AVERAGE</b>	<b>6,765</b>	<b>5,416</b>	<b>5,211</b>	<b>3,632</b>	<b>3,476</b>	<b>3,500</b>	<b>3,811</b>	<b>3,983</b>	<b>3,962</b>	<b>4,176</b>	<b>4,273</b>	<b>4,398</b>	<b>3,952</b>	<b>4,301</b>
Maui Lani #5	5,846	5,771	5,698	5,897	5,696	5,336	5,955	5,774	5,642	5,724	5,891	5,943	45,962	69,174
Maui Lani #6	11,001	10,957	11,009	11,216	11,337	10,237	11,376	10,956	11,364	11,001	11,348	11,346	88,965	133,148
Maui Lani #7	16,297	16,117	16,200	16,402	16,692	15,131	16,772	16,241	16,399	16,201	16,756	16,671	130,862	195,877
<b>DAILY AVERAGE</b>	<b>1,105</b>	<b>1,060</b>	<b>1,097</b>	<b>1,081</b>	<b>1,088</b>	<b>1,097</b>	<b>1,100</b>	<b>1,099</b>	<b>1,078</b>	<b>1,098</b>	<b>1,097</b>	<b>1,095</b>	<b>1,094</b>	<b>1,091</b>
<b>UpCountry</b>														
Haiku	8,314	7,428	6,616	6,758	6,992	5,927	8,794	8,810	8,990	1,558	1,192	3,336	45,599	74,715
H' Poko #1	0	1,320	0	0	1,832	0	0	0	0	0	0	0	1,832	3,152
H' Poko #2	0	1,161	0	0	2,109	0	0	0	0	0	0	0	2,109	3,269
Kaupakalua	22,641	15,914	14,225	14,268	14,892	13,552	15,805	14,237	14,424	15,293	16,742	15,709	120,654	187,702
Pookela	6,260	262	104	99	85	335	89	172	42	167	28	81	998	7,723
<b>DAILY AVERAGE</b>	<b>1,241</b>	<b>841</b>	<b>698</b>	<b>681</b>	<b>836</b>	<b>708</b>	<b>796</b>	<b>774</b>	<b>757</b>	<b>567</b>	<b>579</b>	<b>617</b>	<b>704</b>	<b>758</b>
<b>Lahaina</b>														
Kanaha 575	6,049	4,900	2,102	583	261	340	323	1,037	1,130	3,818	7,161	3,610	17,679	31,314
Kanaha 576	4,251	2,727	942	466	73	233	119	757	142	2,071	2,326	232	5,953	14,339
Walpuka 559	0	0	0	0	0	22	47	2	0	3,799	7,714	2,693	14,277	14,277
Walpuka 560	8,599	6,628	3,140	690	400	428	577	1,184	1,241	3,288	1,684	2,431	11,233	30,289
Napili A 569	14,898	7,544	5,221	904	6,488	12,086	13,615	27,330	23,263	23,489	22,309	15,823	144,403	172,970
Napili B 570	22,382	23,208	22,496	16,934	23,114	20,999	25,796	3,958	0	0	0	0	73,867	158,887
Napili C 571	0	0	0	0	0	0	0	0	0	0	54	9,739	9,793	9,793
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	29,808	30,357	29,006	30,471	28,800	0	0	0	18,809	29,808	30,618	20,400	128,435	248,077
<b>DAILY AVERAGE</b>	<b>2,866</b>	<b>2,431</b>	<b>2,097</b>	<b>1,614</b>	<b>1,908</b>	<b>1,218</b>	<b>1,306</b>	<b>1,142</b>	<b>1,438</b>	<b>2,209</b>	<b>2,318</b>	<b>1,772</b>	<b>1,669</b>	<b>1,863</b>
<b>Hana</b>														
Hamoia 597	1,169	488	1,601	2,408	266	863	2,825	3,278	3,487	3,424	970	2,555	17,668	23,335
Hamoia #2	2,234	3,225	1,803	1,225	4,031	3,493	1,969	1,292	1,028	1,510	4,475	3,219	21,016	29,502
Keanae #1	253	1	494	640	100	1,056	740	21	753	617	365	872	4,523	5,911
Keanae #2	800	1,111	533	362	1,104	1	462	930	217	520	474	5	3,713	6,519
Weki 560 B	2,240	1,760	1,575	2,330	215	1,413	818	49	2,493	2,130	1,682	2,225	11,025	18,930
Weki C	1,834	2,306	1,820	1,118	3,664	1,837	3,140	5,101	1,488	2,955	2,057	1,659	21,901	28,979
<b>DAILY AVERAGE</b>	<b>284</b>	<b>287</b>	<b>261</b>	<b>261</b>	<b>303</b>	<b>309</b>	<b>321</b>	<b>366</b>	<b>305</b>	<b>372</b>	<b>323</b>	<b>340</b>	<b>329</b>	<b>310</b>
<b>Molokai</b>														
Kawela 551	3	4	9	8	3	0	2	0	0	1	0	1	7	31
Kawela 552	4,049	3,973	3,874	3,867	3,939	3,405	4,031	3,279	4,607	5,258	5,081	3,871	33,470	49,233
Ualapue 553	5,820	3,326	4,230	1,942	1,388	3,296	2,645	4,158	3,541	3,812	2,774	2,066	23,680	38,998
Ualapue 554	1,201	3,527	967	3,065	3,985	1,429	3,080	1,192	2,926	3,049	4,320	5,028	25,008	33,767
Kualapuu	19,138	17,879	15,562	13,064	15,794	11,882	15,603	14,796	16,366	18,473	19,394	18,639	130,847	196,590
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>DAILY AVERAGE</b>	<b>1,007</b>	<b>926</b>	<b>821</b>	<b>708</b>	<b>810</b>	<b>715</b>	<b>818</b>	<b>781</b>	<b>885</b>	<b>1,020</b>	<b>1,018</b>	<b>955</b>	<b>877</b>	<b>873</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 8/31/18	% Sustainable Yield
Wailuku	Waikapu	3					
	lao	20	Mokuhau 1	5330-09	442,667,000	1,212,786	6.06%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	842,660,000	2,308,658	11.54%
			Waihee 1	5431-02	861,472,000	2,360,197	11.80%
			Waihee 2	5431-03	388,544,000	1,064,504	5.32%
			Waihee 3	5431-04	1,061,641,000	2,908,605	14.54%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	404,032,000	1,106,937	5.53%
			Wailuku Shaft 33	5330-05	0	0	0.00%
			Kepaniwai	5332-05	261,706,000	717,003	3.59%
			lao Tank Site Well	5230-02	226,724,000	621,162	3.11%
			Waikapu Well	5131-01	382,517,000	1,047,992	5.24%
			Wailuku 1	5230-04	347,621,000	952,386	4.76%
			Wailuku 2	5230-05	777,182,000	2,129,266	10.65%
			<b>lao Subtotal</b>				
Waihee	8	North Waihee # 1	5631-02	265,150,000	726,438	9.08%	
		North Waihee # 2	5631-03	294,395,000	806,562	10.08%	
		Kanoa 1	5731-02	296,578,000	812,542	10.16%	
		Kanoa 2	5731-04	285,975,000	783,493	9.79%	
		Kupaa	5731-03	427,907,000	1,172,348	14.65%	
		<b>Waihee Subtotal</b>					<b>4,301,384</b>
Kahakuloa	5						
Central	Kahului	1	Maui Lani #5	5229-04	69,174,000	189,518	18.95%
			Maui Lani #6	5229-05	133,148,000	364,789	36.48%
			Maui Lani #7	5229-06	195,877,000	536,649	53.66%
			<b>Kahului Subtotal</b>				
Kamaole	11						
Paia	7	Hamakuapoko 1	5420-02	3,152,000	8,636	0.12%	
		Hamakuapoko 2	5320-01	3,269,000	8,956	0.13%	
		<b>Paia Subtotal</b>					<b>17,592</b>
Makawao	7	Pookela	5118-02	7,723,000	21,159	0.30%	
		<b>Makawao Subtotal</b>					<b>21,159</b>
Koolau	Haiku	27	Kaupakalua	5317-01	187,702,000	514,252	1.90%
			Haiku	5419-01	74,715,000	204,699	0.76%
			<b>Haiku Subtotal</b>				
Honopou	25						
Waikamoi	40						
Keanae	83	Keanae 1	5108-01	5,911,000	16,195	0.02%	
		Keanae 2	5108-02	6,519,000	17,860	0.02%	
		<b>Keanae Subtotal</b>					<b>34,055</b>
Hana	Kuhiwa	14					
Kawaipapa	48	Hamoia 1	4300-02	23,335,000	63,932	0.13%	
		Hamoia 2	4300-03	29,502,000	80,827	0.17%	

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 8/31/18	% Sustainable Yield
			Wakiu B	4600-03	18,930,000	51,863	0.11%
			Wakiu C	4600-04	28,979,000	79,395	0.17%
	<b>Kawaipapa Subtotal</b>					<b>276,016</b>	<b>0.58%</b>
	<b>Waihoi</b>	<b>18</b>					
	<b>Kipahulu</b>	<b>42</b>					
<b>Kahikinui</b>	<b>Kaupo</b>	<b>16</b>					
	<b>Nakula</b>	<b>7</b>					
	<b>Luailuia</b>	<b>11</b>					
<b>Lahaina</b>	<b>Honokohau</b>	<b>9</b>					
	<b>Honolua</b>	<b>8</b>					
			Napili A	5838-01	172,970,000	473,890	5.92%
			Napili B	5838-02	158,887,000	435,307	5.44%
			Napili C	5838-04	9,793,000	26,830	0.34%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	248,077,000	679,663	8.50%
	<b>Honolua Subtotal</b>					<b>1,615,690</b>	<b>20.20%</b>
	<b>Honokowai</b>	<b>6</b>					
	<b>Launiupoko</b>	<b>7</b>					
			Kanaha 1	5339-03	31,314,000	85,792	1.23%
			Kanaha 2	5339-04	14,339,000	39,285	0.56%
			Waipuka 1	5339-01	14,277,000	39,115	0.56%
			Waipuka 2	5339-02	30,289,000	82,984	1.19%
	<b>Launiupoko Subtotal</b>					<b>247,175</b>	<b>3.53%</b>
	<b>Olowalu</b>	<b>2</b>					
	<b>Ukumehame</b>	<b>2</b>					



### 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 8/31/18	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	196,580,000	538,603	10.77%	10.77%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	<b>Kualapuu Subtotal</b>					<b>538,603</b>		<b>10.77%</b>	<b>10.77%</b>
Southeast	Kamiloloa	3	3						
	Kawela	5	5	Kawela	0457-01	49,264,000	134,970	2.70%	2.70%
				<b>Kawela Subtotal</b>			<b>134,970</b>	<b>2.70%</b>	<b>2.70%</b>
	Ualapue	8	8	Ualapue	0449-01	72,765,000	199,356	2.49%	2.49%
		<b>Ualapue Subtotal</b>					<b>199,356</b>	<b>2.49%</b>	<b>2.49%</b>
	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						

