

ALAN M. ARAKAWA
Mayor



GLADYS C. BAISA
Acting Director

RECEIVED SHAYNE R. AGAWA, P.E.
Deputy Director

2018 AUG -3 AM 9:37

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

August 2, 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 8/2/18
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 July 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,

Glady's C. Baisa
GLADYS C. BAISA
Acting Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 18-297

"By Water All Things Find Life"

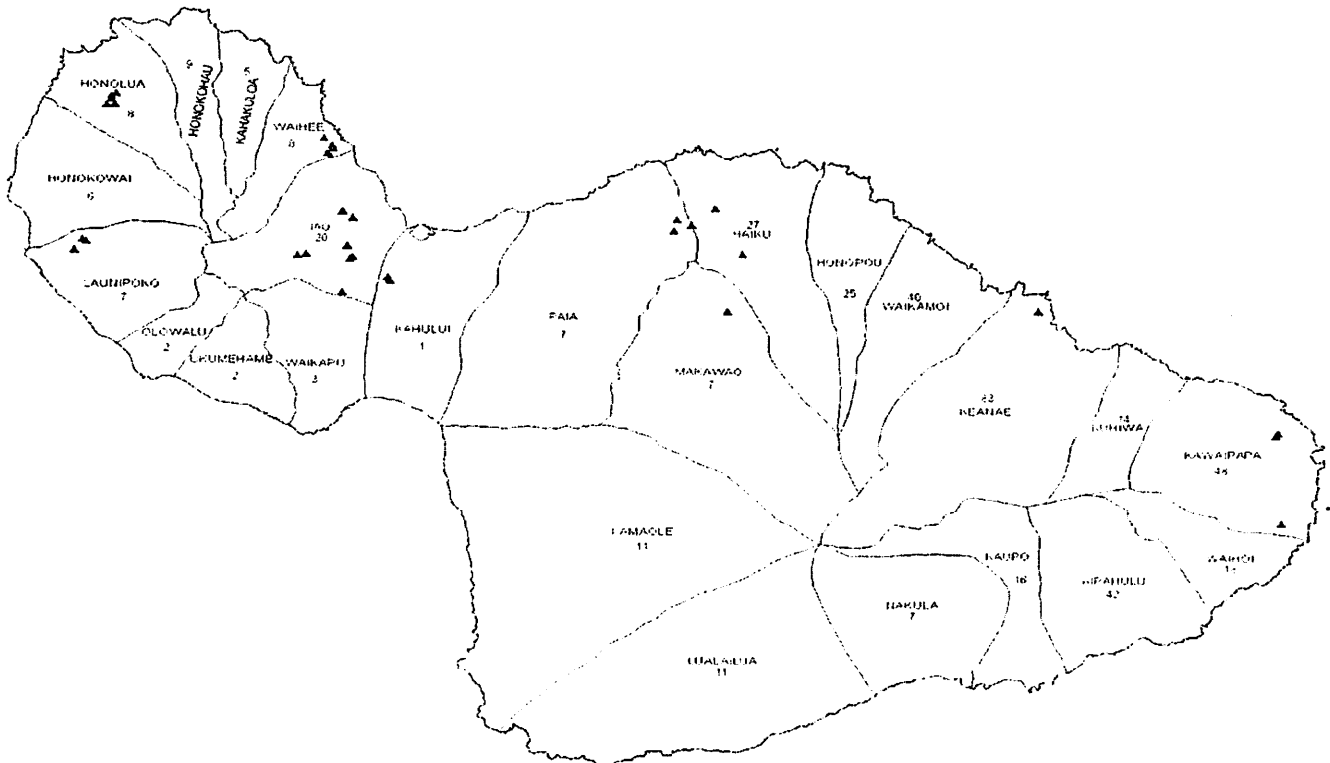
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gala X 1000)

WELL NAME	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Current Year	Last 12 Months
<i>Central</i>														
Mokuhau 501	58,931	60,721	55,159	37,890	44,251	53,230	45,251	60,782	36,900	26,906	10,529	5,954	239,551	496,503
Mokuhau 503	86,953	83,794	78,217	72,727	72,668	81,409	63,676	62,807	42,302	42,601	73,744	88,528	455,067	849,426
Waihee 577	114,302	101,248	99,957	95,987	111,311	114,125	74,578	34,552	31,654	44,064	48,583	57,112	404,668	927,473
Waihee 578	0	618	0	97	683	60,126	64,838	40,028	27,232	45,752	49,294	52,874	340,144	341,542
Waihee 579	82,440	81,626	71,821	73,412	85,403	47,090	12,391	116,028	102,719	119,889	115,425	121,545	635,088	1,029,769
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	37,265	37,303	35,310	31,698	31,686	33,869	27,718	31,801	30,365	32,719	37,771	38,079	232,322	405,583
Wailuku Shaft 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lao	25,739	36,529	10,676	4,271	407	4,472	706	12,097	40,153	14,500	32,396	35,563	139,887	217,510
Waikapu	36,359	36,479	35,136	32,664	27,234	31,971	25,352	28,827	25,575	29,514	36,609	38,331	216,179	384,050
Wailuku 1	14,034	4,941	30,188	39,096	14,753	3,128	5,557	4,073	276	64,020	65,556	66,459	209,069	312,081
Wailuku 2	64,469	64,514	64,561	64,606	64,652	64,699	64,741	64,789	64,832	64,879	64,924	64,970	453,633	776,634
DAILY AVERAGE	16,790	16,926	15,517	15,082	14,614	15,939	13,743	14,703	13,400	15,639	17,828	18,368	15,688	15,728
Kepaniwal 511	22,316	21,600	22,076	21,596	22,320	22,152	20,095	22,320	21,595	22,320	21,454	22,141	152,077	261,984
lao Tunnel	33,669	33,535	34,667	32,842	43,262	45,781	41,535	47,987	46,648	47,809	47,434	48,584	325,778	503,753
DAILY AVERAGE	1,806	1,838	1,830	1,815	2,116	2,191	2,201	2,268	2,275	2,262	2,298	2,281	2,264	2,098
N. Waihee #1	25,334	18,308	19,177	23,194	22,270	21,639	19,614	21,198	22,278	23,474	21,498	22,474	152,176	260,459
N. Waihee #2	18,452	22,580	23,066	20,643	25,633	26,216	20,511	26,093	26,254	27,217	26,484	27,448	180,223	290,597
Kanoa #1	46,680	46,503	46,691	38,374	16,150	16,150	13,695	13,683	18,454	20,061	17,853	18,759	118,264	312,662
Kanoa #2	37,095	43,741	37,576	28,551	19,547	20,538	24,836	17,765	19,506	19,081	19,374	19,809	140,908	307,419
Kupaa	44,899	41,817	41,385	45,557	28,986	23,585	19,358	39,391	32,995	32,995	40,073	43,963	232,361	435,005
DAILY AVERAGE	5,563	5,765	5,416	5,211	3,632	3,476	3,500	3,811	3,983	3,962	4,176	4,273	3,886	4,400
Maul Lani #5	6,155	5,846	5,771	5,698	5,897	5,696	5,336	5,955	5,774	5,642	5,724	5,891	40,018	69,385
Maul Lani #6	11,327	11,001	10,957	11,009	11,216	11,337	10,237	11,376	10,956	11,364	11,001	11,348	77,618	133,128
Maul Lani #7	16,765	16,297	16,117	16,200	16,402	16,692	15,131	16,772	16,241	16,399	16,201	16,756	114,191	195,972
DAILY AVERAGE	1,105	1,105	1,060	1,097	1,081	1,088	1,097	1,100	1,099	1,078	1,098	1,097	1,094	1,092
<i>UpCountry</i>														
Haiuku	7,909	8,314	7,428	6,616	6,758	6,992	5,927	8,794	8,810	8,990	1,558	1,192	42,263	79,288
H' Poko #1	0	0	1,320	0	0	1,832	0	0	0	0	0	0	1,832	3,152
H' Poko #2	0	0	1,161	0	0	2,109	0	0	0	0	0	0	2,109	3,269
Kaupakalua	16,037	22,641	15,914	14,225	14,268	14,892	13,552	15,805	14,237	14,424	15,293	16,742	104,945	188,030
Pookela	310	6,260	262	104	99	85	335	89	172	42	167	28	917	7,951
DAILY AVERAGE	782	1,241	841	698	681	836	708	796	774	757	567	579	717	772
<i>Lahaina</i>														
Kanaha 575	3,722	6,049	4,900	2,102	583	261	340	323	1,037	1,130	3,818	7,161	14,069	31,425
Kanaha 576	3,088	4,251	2,727	942	466	73	233	119	757	142	2,071	2,326	5,721	17,196
Waipuka 559	0	0	0	0	0	0	22	47	2	0	3,799	7,714	11,584	11,584
Waipuka 560	6,398	8,599	6,628	3,140	690	400	428	577	1,184	1,241	3,288	1,684	8,802	34,257
Napili A 569	16,708	14,898	7,544	5,221	904	6,488	12,086	13,615	27,330	23,263	23,489	22,309	128,580	173,855
Napili B 570	22,508	22,382	23,208	22,496	16,934	23,114	20,999	25,796	3,958	0	0	0	73,867	181,395
Napili C 571	3,977	0	0	0	0	0	0	0	0	0	0	54	54	4,031
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	24,605	29,808	30,357	29,006	30,471	28,800	0	0	0	18,809	29,808	30,618	108,035	252,282
DAILY AVERAGE	2,613	2,866	2,431	2,097	1,614	1,908	1,218	1,306	1,142	1,438	2,209	2,318	1,654	1,934
<i>Hana</i>														
Hamao 597	2,190	1,169	488	1,601	2,408	266	863	2,825	3,278	3,487	3,424	970	15,113	22,970
Hamao #2	1,164	2,234	3,225	1,803	1,225	4,031	3,493	1,969	1,292	1,028	1,510	4,475	17,797	27,448
Keanae #1	329	253	1	494	640	100	1,056	740	21	753	617	365	3,651	5,367
Keanae #2	677	800	1,111	533	362	1,104	1	462	930	217	520	474	3,709	7,192
Waku 550 B	1,606	2,240	1,760	1,575	2,330	215	1,413	818	49	2,493	2,130	1,682	8,800	18,311
Waku C	3,950	1,834	2,306	1,820	1,118	3,684	1,837	3,140	5,101	1,488	2,955	2,057	20,242	30,370
DAILY AVERAGE	291	284	287	261	261	303	309	321	356	305	372	323	327	308
<i>Mojokai</i>														
Kawela 551	3	3	4	9	8	3	0	2	0	0	1	0	6	32
Kawela 552	4,205	4,049	3,973	3,874	3,867	3,939	3,405	4,031	3,279	4,607	5,258	5,081	29,599	49,567
Ualapue 553	4,425	5,820	3,326	4,230	1,942	1,388	3,296	2,645	4,158	3,541	3,812	2,774	21,614	41,357
Ualapue 554	3,121	1,201	3,527	967	3,065	3,985	1,429	3,080	1,192	2,926	3,049	4,320	19,980	31,860
Kualapuu	19,856	19,138	17,879	15,562	13,064	15,794	11,882	15,603	14,796	16,366	18,473	19,394	112,307	197,807
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	1,020	1,007	926	821	708	810	715	818	781	885	1,020	1,018	866	878

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 7/31/18	% Sustainable Yield	
Wailuku	Waikapu	3						
	Iao	20						
			Mokuhau 1	5330-09	496,503,000	1,360,282	6.80%	
			Mokuhau 2	5330-10	0	0	0.00%	
			Mokuhau 3	5330-11	849,426,000	2,327,195	11.64%	
			Waihee 1	5431-02	927,473,000	2,541,022	12.71%	
			Waihee 2	5431-03	341,542,000	935,732	4.68%	
			Waihee 3	5431-04	1,029,769,000	2,821,285	14.11%	
			Waiehu Heights 1	5430-01	0	0	0.00%	
			Waiehu Heights 2	5430-02	405,583,000	1,111,186	5.56%	
			Wailuku Shaft 33	5330-05	0	0	0.00%	
			Keponiwai	5332-05	261,984,000	717,764	3.59%	
			Iao Tank Site Well	5230-02	217,510,000	595,918	2.98%	
			Waikapu Well	5131-01	384,050,000	1,052,192	5.26%	
			Wailuku 1	5230-04	312,081,000	855,016	4.28%	
			Wailuku 2	5230-05	776,634,000	2,127,764	10.64%	
		Iao Subtotal				16,445,356	82.23%	
	Waihee		8					
				North Waihee # 1	5631-02	260,459,000	713,586	8.92%
				North Waihee # 2	5631-03	290,597,000	796,156	9.95%
			Kanoa 1	5731-02	312,662,000	856,608	10.71%	
			Kanoa 2	5731-04	307,419,000	842,244	10.53%	
			Kupaa	5731-03	435,005,000	1,191,795	14.90%	
	Waihee Subtotal				4,400,389	55.00%		
Kahakuloa		5						
	Central	Kahului		1				
				Maui Lani #5	5229-04	69,385,000	190,096	19.01%
				Maui Lani #6	5229-05	133,128,000	364,734	36.47%
		Maui Lani #7	5229-06	195,972,000	536,910	53.69%		
	Kahului Subtotal				1,091,740	109.17%		
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%	
	Paia Subtotal				17,592	0.25%		
Makawao		7						
			Pookela	5118-02	7,951,000	21,784	0.31%	
	Makawao Subtotal				21,784	0.31%		
Koolau	Haiku	27						
				Kaupakalua	5317-01	188,030,000	515,151	1.91%
			Haiku	5419-01	79,288,000	217,227	0.80%	
	Haiku Subtotal				0	732,378	2.71%	
Honopou		25						
	Waikamoi	40						
			Keanae	83				
			Keanae 1	5108-01	5,367,000	14,704	0.02%	
			Keanae 2	5108-02	7,192,000	19,704	0.02%	
	Keanae Subtotal				34,408	0.04%		
Hana	Kuhiwa	14						
				Hamoa 1	4300-02	22,970,000	62,932	0.13%
	Kawaipapa	48						
			Hamoa 2	4300-03	27,448,000	75,200	0.16%	

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 7/31/18	% Sustainable Yield
			Waiuku B	4600-03	18,311,000	50,167	0.10%
			Waiuku C	4600-04	30,370,000	83,205	0.17%
	Kaiaipapa Subtotal					271,504	0.57%
	Waihoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	173,855,000	476,315	5.95%
			Napili B	5838-02	181,395,000	496,973	6.21%
			Napili C	5838-04	4,031,000	11,044	0.14%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	252,282,000	691,184	8.64%
	Honolua Subtotal					1,675,515	20.94%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	31,425,000	86,096	1.23%
			Kanaha 2	5339-04	17,196,000	47,112	0.67%
			Waipuka 1	5339-01	11,584,000	31,737	0.45%
			Waipuka 2	5339-02	34,257,000	93,855	1.34%
	Launiupoko Subtotal					258,800	3.70%
	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 7/31/18	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	197,807,000	541,937	10.84%	10.84%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal					541,937	10.84%	10.84%	
Southeast	Kamiloloa	3	3						
	Kawela	5	5	Kawela	0457-01	49,599,000	135,888	2.72%	2.72%
				Kawela Subtotal			135,888	2.72%	2.72%
	Ualapue	8	8						
	Ualapue Subtotal			Ualapue	0449-01	73,217,000	200,595	2.51%	2.51%
							200,595	2.51%	2.51%
	Waialua	6	8						
Northeast	Kalaupapa	2	0						
	Kahanui	3	0						
	Waikolu	5	4.5						
	Hauptu	2	0						
	Pelekunu	9	0						
	Wailau	15	0						
		Halawa	8	0					

