

ALAN M. ARAKAWA
Mayor



GLADYS C. BAISA
Director

SHAYNE R. AGAWA, P.E.
Deputy Director

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2018 OCT -3 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

October 2, 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:

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 September 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,

A handwritten signature in black ink, appearing to read "G. Baisa".

GLADYS C. BAISA
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 18-381

"By Water All Things Find Life"

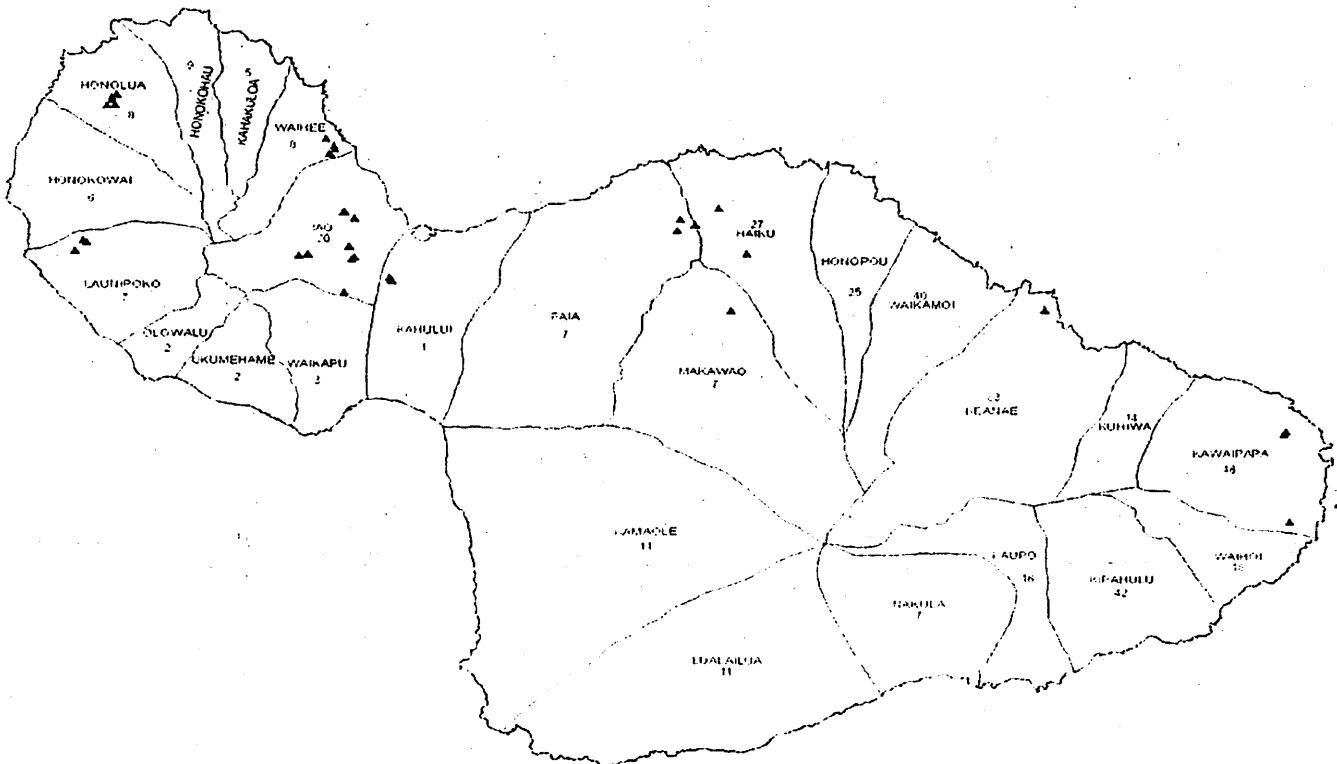
County of Maui
Dept. of Water Supply
Monthly Source Reports
 (Gals X 1000)

WELL NAME	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Current Year	Last 12 Months
Conral														
Mokuhau 501	55,159	37,890	44,251	53,230	45,251	60,782	36,900	28,906	10,529	5,954	5,095	6,954	251,601	388,900
Mokuhau 503	78,217	72,727	72,668	81,409	63,676	62,807	42,302	42,601	73,744	88,528	80,186	73,744	608,997	832,609
Waihee 577	99,957	95,987	111,311	114,125	74,578	34,552	31,654	44,064	48,583	57,112	48,300	61,600	514,568	821,824
Waihee 578	0	97	683	60,126	64,838	40,028	27,232	45,752	49,294	52,874	47,002	43,205	430,351	431,131
Waihee 579	71,821	73,412	85,403	47,090	12,391	116,028	102,719	119,869	115,425	121,545	114,312	101,291	850,671	1,081,307
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	35,310	31,698	31,686	33,869	27,718	31,801	30,365	32,719	37,771	38,079	35,714	33,880	301,915	400,610
Wailuku Shaft 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lao	10,676	4,271	407	4,472	706	12,097	40,153	14,500	32,396	35,563	34,954	11,840	186,681	202,035
Waikapu	35,136	32,664	27,234	31,971	25,352	28,827	25,575	29,514	36,609	38,331	34,826	32,130	283,134	378,168
Wailuku 1	30,188	39,096	14,753	3,128	5,557	4,073	276	64,020	65,556	66,459	49,574	49,245	307,888	391,924
Wailuku 2	64,561	64,606	64,652	64,699	64,741	64,789	64,832	64,879	64,924	64,970	65,017	65,062	583,911	777,729
DAILY AVERAGE	15,517	15,082	14,614	15,939	13,743	14,703	13,400	15,639	17,828	18,368	16,612	15,965	15,823	15,634
Kepaniwal 511	22,076	21,596	22,320	22,152	20,095	22,320	21,595	22,320	21,454	22,141	22,038	21,492	195,606	261,598
lao Tunnel	34,667	32,842	43,262	45,781	41,535	47,987	46,648	47,809	47,434	48,584	49,125	47,362	422,266	533,037
DAILY AVERAGE	1,830	1,815	2,116	2,191	2,201	2,268	2,275	2,262	2,296	2,281	2,295	2,263	2,263	2,177
N. Waihee #1	19,177	23,194	22,270	21,639	19,614	21,198	22,278	23,474	21,498	22,474	30,025	25,739	207,939	272,580
N. Waihee #2	23,066	20,643	25,633	26,216	20,511	26,093	26,254	27,217	26,484	27,448	22,250	21,359	223,831	293,173
Kanoa #1	46,691	38,374	16,150	15,760	13,695	13,683	18,454	20,061	17,853	18,759	30,596	24,949	173,809	275,025
Kanoa #2	37,576	28,551	19,547	20,538	24,836	17,765	19,506	19,081	19,374	19,809	15,652	19,981	176,542	262,215
Kupaa	41,385	45,557	28,986	23,585	19,358	39,391	32,995	32,995	40,073	43,963	37,801	38,163	308,324	424,253
DAILY AVERAGE	5,416	5,211	3,632	3,475	3,500	3,811	3,983	3,982	4,176	4,273	4,398	4,340	3,994	4,184
Maul Lani #5	5,771	5,698	5,897	5,696	5,336	5,955	5,774	5,642	5,724	5,891	5,943	6,115	52,077	69,443
Maul Lani #6	10,957	11,009	11,216	11,337	10,237	11,376	10,956	11,364	11,001	11,348	11,346	11,209	100,174	133,356
Maul Lani #7	16,117	16,200	16,402	16,692	15,131	16,772	16,241	16,399	16,201	16,756	16,671	16,411	147,273	195,991
DAILY AVERAGE	1,060	1,097	1,081	1,088	1,097	1,100	1,099	1,078	1,098	1,097	1,095	1,125	1,097	1,093
UpCountry														
Haiuku	7,428	6,616	6,758	6,992	5,927	8,794	8,810	8,990	1,558	1,192	3,336	8,801	54,400	75,202
H' Poko #1	1,320	0	0	1,832	0	0	0	0	0	0	0	0	1,832	3,152
H' Poko #2	1,161	0	0	2,109	0	0	0	0	0	0	0	0	2,109	3,269
Kaupakalua	15,914	14,225	14,268	14,892	13,552	15,805	14,237	14,424	15,293	16,742	15,709	14,631	135,285	179,692
Pookela	262	104	99	85	335	89	172	42	167	28	81	122	1,120	1,585
DAILY AVERAGE	841	698	681	836	708	796	774	757	567	579	617	785	713	720
Lahaina														
Kanaha 575	4,900	2,102	583	261	340	323	1,037	1,130	3,818	7,161	3,610	2,325	20,004	27,590
Kanaha 576	2,727	942	466	73	233	119	757	142	2,071	2,326	232	1,263	7,216	11,351
Walpuka 559	0	0	0	0	22	47	2	0	3,799	7,714	2,693	1,147	15,424	15,424
Walpuka 560	6,628	3,140	690	400	428	577	1,184	1,241	3,288	1,684	2,431	2,338	13,571	24,029
Napili A 569	7,544	5,221	904	6,488	12,086	13,615	27,330	23,263	23,489	22,309	15,823	6,152	150,556	164,225
Napili B 570	23,208	22,496	16,934	23,114	20,999	25,796	3,958	0	0	0	0	0	73,867	136,505
Napili C 571	0	0	0	0	0	0	0	0	0	54	9,739	27,483	37,276	37,276
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	30,357	29,006	30,471	28,800	0	0	0	18,809	29,808	30,618	20,400	7,869	136,304	226,138
DAILY AVERAGE	2,431	2,097	1,614	1,908	1,218	1,306	1,142	1,438	2,209	2,318	1,772	1,619	1,664	1,760
Hana														
Hamo 597	488	1,601	2,408	266	863	2,825	3,278	3,487	3,424	970	2,555	4,361	22,030	26,527
Hamo 598	3,225	1,803	1,225	4,031	3,493	1,969	1,292	1,028	1,510	4,475	3,219	1,324	22,339	28,592
Keanae #1	1	494	640	100	1,056	740	21	753	617	365	872	601	5,124	6,259
Keanae #2	1,111	533	362	1,104	1	462	930	217	520	474	5	150	3,863	5,869
Waklu 550 B	1,760	1,575	2,330	215	1,413	818	49	2,493	2,130	1,682	2,225	1,282	12,307	17,972
Waklu C	2,306	1,820	1,118	3,664	1,837	3,140	5,101	1,488	2,955	2,057	1,659	2,518	24,419	29,663
DAILY AVERAGE	287	261	261	303	309	321	356	305	372	323	340	341	330	315
Molokai														
Kawela 551	4	9	8	3	0	2	0	0	1	0	1	1	8	29
Kawela 552	3,973	3,874	3,867	3,939	3,405	4,031	3,279	4,607	5,258	5,081	3,871	3,932	37,402	49,116
Ualapue 553	3,326	4,230	1,942	1,388	3,296	2,645	4,158	3,541	3,812	2,774	2,066	3,381	27,061	36,558
Ualapue 554	3,527	967	3,065	3,985	1,429	3,080	1,192	2,926	3,049	4,320	5,028	1,529	26,537	34,095
Kualapuu	17,879	15,562	13,064	15,794	11,882	15,603	14,796	16,366	18,473	19,394	18,639	16,041	146,987	193,493
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	926	821	708	810	715	818	781	885	1,020	1,018	955	829	872	858

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 9/30/18	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuahau 1	5330-09	388,900,000	1,065,479	5.33%
			Mokuahau 2	5330-10	0	0	0.00%
			Mokuahau 3	5330-11	832,609,000	2,281,121	11.41%
			Waihee 1	5431-02	821,824,000	2,251,573	11.26%
			Waihee 2	5431-03	431,131,000	1,181,181	5.91%
			Waihee 3	5431-04	1,081,307,000	2,962,485	14.81%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	400,610,000	1,097,562	5.49%
			Wailuku Shaft 33	5330-05	0	0	0.00%
			Kepaniwai	5332-05	261,598,000	716,707	3.58%
			Iao Tank Site Well	5230-02	202,035,000	553,521	2.77%
			Waikapu Well	5131-01	378,168,000	1,036,077	5.18%
			Wailuku 1	5230-04	391,924,000	1,073,764	5.37%
			Wailuku 2	5230-05	777,729,000	2,130,764	10.65%
	Iao Subtotal					16,350,233	81.75%
	Waihee	8					
			North Waihee # 1	5631-02	272,580,000	746,795	9.33%
			North Waihee # 2	5631-03	293,173,000	803,214	10.04%
			Kanoa 1	5731-02	275,025,000	753,493	9.42%
			Kanoa 2	5731-04	262,215,000	718,397	8.98%
			Kupaa	5731-03	424,253,000	1,162,337	14.53%
	Waihee Subtotal					4,184,236	52.30%
	Kahakuloa	5					
Central	Kahului	1					
			Maui Lani #5	5229-04	69,443,000	190,255	19.03%
			Maui Lani #6	5229-05	133,356,000	365,359	36.54%
			Maui Lani #7	5229-06	195,991,000	536,962	53.70%
	Kahului Subtotal					1,092,575	109.26%
	Kamaole	11					
	Pala	7					
			Hamakuapoko 1	5420-02	3,152,000	8,636	0.12%
			Hamakuapoko 2	5320-01	3,269,000	8,956	0.13%
	Pala Subtotal					17,592	0.25%
	Makawao	7					
			Pookela	5118-02	1,585,000	4,342	0.06%
	Makawao Subtotal					4,342	0.06%
Koolau	Haiku	27					
			Kaupakalua	5317-01	179,692,000	492,307	1.82%
			Haiku	5419-01	75,202,000	206,033	0.76%
	Haiku Subtotal				0	698,340	2.59%
	Honopou	25					
	Waikamoi	40					
	Kearae	83					
			Kearae 1	5108-01	6,259,000	17,148	0.02%
			Kearae 2	5108-02	5,869,000	16,079	0.02%
	Kearae Subtotal					33,227	0.04%
Hana	Kuhiwa	14					
	Kawalpapa	48					
			Hamoia 1	4300-02	26,527,000	72,677	0.15%
			Hamoia 2	4300-03	28,592,000	78,334	0.16%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 9/30/18	% Sustainable Yield
			Wakiu B	4600-03	17,972,000	49,238	0.10%
			Wakiu C	4600-04	29,663,000	81,268	0.17%
	Kawaipapa Subtotal					281,518	0.59%
	Walhoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	164,225,000	449,932	5.62%
			Napili B	5838-02	136,505,000	373,986	4.67%
			Napili C	5838-04	37,276,000	102,126	1.28%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	226,138,000	619,556	7.74%
	Honolua Subtotal					1,545,600	19.32%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	27,590,000	75,589	1.08%
			Kanaha 2	5339-04	11,351,000	31,099	0.44%
			Waipuka 1	5339-01	15,424,000	42,258	0.60%
			Waipuka 2	5339-02	24,029,000	65,833	0.94%
	Launiupoko Subtotal					214,778	3.07%
	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 9/30/18	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	193,493,000	530,118	10.60%	10.60%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						530,118	10.60%	10.60%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	49,145,000	134,644	2.69%	2.69%
	Kawela Subtotal						134,644	2.69%	2.69%
	Ualapue	8	8						
	Ualapue Subtotal			Ualapue	0449-01	70,653,000	193,570	2.42%	2.42%
	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						

