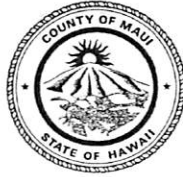


ALAN M. ARAKAWA
Mayor



GLADYS C. BAISA
Director

SHAYNE R. AGAWA, P.E.
Deputy Director

RECEIVED

2018 NOV -8 AM 9:42

OFFICE OF THE MAYOR

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

November 7, 2018

RECEIVED
OFFICE OF THE
COUNTY CLERK

2018 NOV -9 AM 9:46

RECEIVED

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
 11/8/18
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 October 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 cursive script, appearing to read "G. Baisa".

GLADYS C. BAISA
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 18-414

"By Water All Things Find Life"

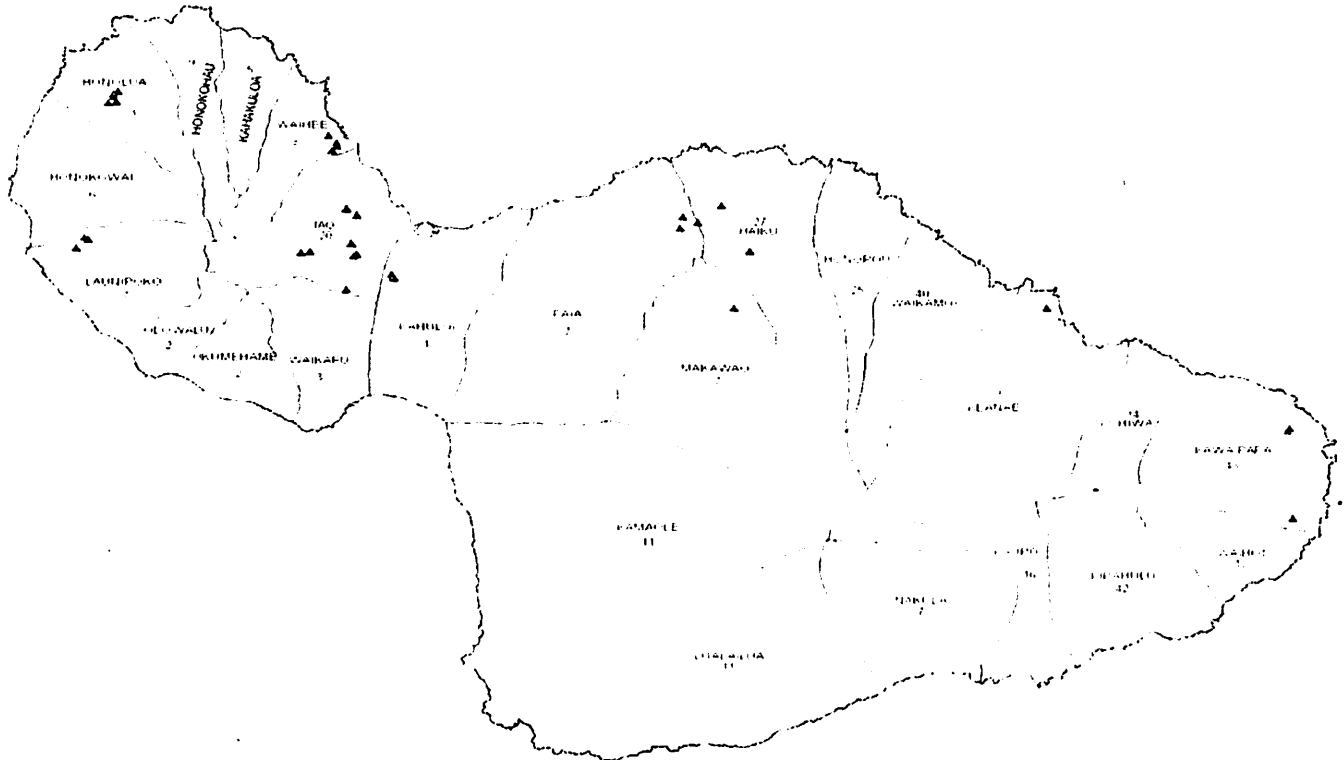
County of Maui
Dept. of Water Supply
Plant Operations Division
Monthly Source Reports
(Gals X 1000)

WELL NAME	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Current Year	Last 12 Months
Central														
Mokuhanu 501	37,890	44,251	53,230	45,251	60,782	36,900	26,906	10,529	5,954	5,095	6,954	13,895	265,496	347,636
Mokuhanu 503	72,727	72,668	81,409	63,676	62,807	42,302	42,601	73,744	88,528	80,186	73,744	79,107	688,104	833,489
Waihee 577	95,987	111,311	114,125	74,578	34,552	31,654	44,064	48,583	57,112	48,300	61,600	59,391	573,959	781,257
Waihee 578	97	683	60,126	64,838	40,028	27,232	45,752	49,294	52,874	47,002	43,205	51,837	482,188	482,968
Waihee 579	73,412	85,403	47,090	12,391	116,028	102,719	119,869	115,425	121,545	114,312	101,291	107,822	958,492	1,117,308
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	31,698	31,686	33,869	27,718	31,801	30,365	32,719	37,771	38,079	35,714	33,880	33,798	335,713	399,097
Wailuku Shaft 33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iao	4,271	407	4,472	706	12,097	40,153	14,500	32,396	35,563	34,954	11,840	7,151	193,832	198,510
Waikapu	32,664	27,234	31,971	25,352	28,827	25,575	29,514	36,609	38,331	34,826	32,130	36,210	319,344	379,242
Wailuku 1	39,096	14,753	3,128	5,557	4,073	276	64,020	65,556	66,459	49,574	49,245	48,326	356,214	410,062
Wailuku 2	64,606	64,652	64,689	64,741	64,789	64,832	64,879	64,924	64,970	65,017	65,062	65,108	649,019	778,277
DAILY AVERAGE	15,082	14,614	15,938	13,743	14,703	13,400	15,639	17,828	18,388	16,612	15,965	16,214	15,863	15,693
Kepaniwai 511	21,596	22,320	22,152	20,095	22,320	21,595	22,320	21,454	22,141	22,038	21,492	22,320	217,926	261,842
Iao Tunnel	32,842	43,262	45,781	41,535	47,987	46,648	47,809	47,434	48,584	49,125	47,362	48,854	471,120	547,224
DAILY AVERAGE	1,815	2,116	2,191	2,201	2,268	2,275	2,262	2,296	2,281	2,296	2,296	2,286	2,267	2,217
N. Waihee #1	23,194	22,270	21,639	19,614	21,198	22,278	23,474	21,498	22,474	30,025	25,739	22,767	230,706	276,169
N. Waihee #2	20,643	25,633	26,216	20,511	26,093	26,254	27,217	26,484	27,448	22,250	21,359	26,328	250,159	296,435
Kanoa #1	38,374	16,150	15,760	13,695	13,683	18,454	20,081	17,853	18,759	30,596	24,949	17,911	191,721	246,245
Kanoa #2	28,551	19,547	20,538	24,836	17,765	19,506	19,081	19,374	19,809	15,652	19,981	18,693	195,235	243,333
Kupaa	45,557	28,986	23,585	19,358	39,391	32,995	32,995	40,073	43,963	37,801	38,163	37,420	345,745	420,288
DAILY AVERAGE	5,211	3,632	3,475	3,500	3,811	3,983	3,962	4,176	4,273	4,398	4,340	3,972	3,992	4,062
Maui Lani #5	5,698	5,897	5,696	5,336	5,955	5,774	5,642	5,724	5,891	5,943	6,115	5,920	57,997	69,592
Maui Lani #6	11,009	11,216	11,337	10,237	11,376	10,956	11,364	11,001	11,348	11,346	11,209	11,326	111,500	133,725
Maui Lani #7	16,200	16,402	16,692	15,131	16,772	16,241	16,399	16,201	16,756	16,671	16,411	16,698	163,970	196,572
DAILY AVERAGE	1,097	1,081	1,088	1,097	1,100	1,099	1,078	1,098	1,097	1,095	1,125	1,095	1,097	1,096
UpCountry														
Haiku	6,616	6,758	6,992	5,927	8,794	8,810	8,990	1,558	1,192	3,336	8,801	8,131	62,531	75,905
H' Poko #1	0	0	1,832	0	0	0	0	0	0	0	0	0	1,832	1,832
H' Poko #2	0	0	2,109	0	0	0	0	0	0	0	0	0	2,109	2,109
Kaupakalua	14,225	14,268	14,892	13,552	15,805	14,237	14,424	15,293	16,742	15,709	14,631	15,359	150,644	179,137
Pookela	104	99	85	335	89	172	42	167	28	81	122	133	1,253	1,456
DAILY AVERAGE	688	681	836	708	796	774	757	567	579	617	785	762	718	714
Lahaina														
Kanaha 575	2,102	583	261	340	323	1,037	1,130	3,818	7,161	3,610	2,325	1,992	21,996	24,681
Kanaha 576	942	466	73	233	119	757	142	2,071	2,326	232	1,263	1,253	8,469	9,877
Walpuka 559	0	0	0	22	47	2	0	3,799	7,714	2,693	1,147	730	16,155	16,155
Walpuka 560	3,140	690	400	428	577	1,184	1,241	3,288	1,684	2,431	2,338	2,378	15,948	19,778
Napili A 569	5,221	904	6,488	12,086	13,615	27,330	23,263	23,489	22,309	15,823	6,152	3,305	153,861	159,986
Napili B 570	22,496	16,934	23,114	20,999	25,796	3,958	0	0	0	0	0	0	73,867	113,297
Napili C 571	0	0	0	0	0	0	0	0	54	9,739	27,483	40,136	77,412	77,412
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	29,006	30,471	28,800	0	0	0	18,809	29,808	30,618	20,400	7,869	9,102	145,406	204,883
DAILY AVERAGE	2,097	1,614	1,908	1,218	1,306	1,142	1,438	2,209	2,318	1,772	1,619	1,900	1,688	1,715
Hana														
Hamao 597	1,601	2,408	266	863	2,825	3,278	3,487	3,424	970	2,555	4,361	1,543	23,573	27,582
Hamao #2	1,803	1,225	4,031	3,493	1,969	1,292	1,028	1,510	4,475	3,219	1,324	4,058	26,397	29,425
Keanae #1	494	640	100	1,056	740	21	753	617	365	872	601	234	5,358	6,492
Keanae #2	533	362	1,104	1	462	930	217	520	474	5	150	589	4,452	5,347
Waklu 560 B	1,575	2,330	215	1,413	818	49	2,493	2,130	1,682	2,225	1,282	3,546	15,853	19,758
Waklu C	1,820	1,118	3,664	1,837	3,140	5,101	1,488	2,955	2,057	1,659	2,518	607	25,027	27,965
DAILY AVERAGE	261	261	303	309	321	356	305	372	323	340	341	341	331	319
Molokai														
Kawela 551	9	8	3	0	2	0	0	1	0	1	1	7	15	32
Kawela 552	3,874	3,867	3,939	3,405	4,031	3,279	4,607	5,258	5,081	3,871	3,932	4,437	41,838	49,579
Ualapue 553	4,230	1,942	1,388	3,296	2,645	4,158	3,541	3,812	2,774	2,066	3,381	2,383	29,443	35,615
Ualapue 554	967	3,065	3,985	1,429	3,080	1,192	2,926	3,049	4,320	5,028	1,529	2,543	29,080	33,112
Kualapuu	15,562	13,064	15,794	11,882	15,603	14,796	16,366	18,473	19,394	18,639	16,041	16,191	163,179	191,805
Waikale Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	821	708	810	716	818	781	885	1,020	1,018	955	829	825	867	850

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 10/31/18	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhau 1	5330-09	347,636,000	952,427	4.76%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	833,499,000	2,283,559	11.42%
			Waihee 1	5431-02	781,257,000	2,140,430	10.70%
			Waihee 2	5431-03	482,968,000	1,323,200	6.62%
			Waihee 3	5431-04	1,117,308,000	3,061,118	15.31%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	399,097,000	1,093,416	5.47%
			Wailuku Shaft 33	5330-05	0	0	0.00%
			Kepaniwai	5332-05	261,842,000	717,375	3.59%
			Iao Tank Site Well	5230-02	198,510,000	543,863	2.72%
			Waikapu Well	5131-01	379,242,000	1,039,019	5.20%
			Wailuku 1	5230-04	410,062,000	1,123,458	5.62%
			Wailuku 2	5230-05	778,277,000	2,132,266	10.66%
	Iao Subtotal					16,410,132	82.05%
	Waihee	8					
			North Waihee # 1	5631-02	276,169,000	756,627	9.46%
			North Waihee # 2	5631-03	296,435,000	812,151	10.15%
			Kanoa 1	5731-02	246,245,000	674,644	8.43%
			Kanoa 2	5731-04	243,333,000	666,666	8.33%
			Kupaa	5731-03	420,288,000	1,151,474	14.39%
	Waihee Subtotal					4,061,562	50.77%
	Kahakuloa	5					
Central	Kahului	1					
			Maui Lani #5	5229-04	69,592,000	190,663	19.07%
			Maui Lani #6	5229-05	133,725,000	366,370	36.64%
			Maui Lani #7	5229-06	196,572,000	538,553	53.86%
	Kahului Subtotal					1,095,586	109.56%
	Kamaole	11					
	Paia	7					
			Hamakuapoko 1	5420-02	1,832,000	5,019	0.07%
			Hamakuapoko 2	5320-01	2,109,000	5,778	0.08%
	Paia Subtotal					10,797	0.15%
	Makawao	7					
			Pookela	5118-02	1,456,000	3,989	0.06%
	Makawao Subtotal					3,989	0.06%
Koolau	Haiku	27					
			Kaupakalua	5317-01	179,137,000	490,786	1.82%
			Haiku	5419-01	75,905,000	207,959	0.77%
	Haiku Subtotal					698,745	2.59%
	Honopou	25					
	Waikamoi	40					
	Kearae	83					
			Kearae 1	5108-01	6,492,000	17,786	0.02%
			Kearae 2	5108-02	5,347,000	14,649	0.02%
	Kearae Subtotal					32,436	0.04%
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	27,582,000	75,567	0.16%
			Hamoia 2	4300-03	29,425,000	80,616	0.17%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 10/31/18	% Sustainable Yield
			Waiuku B	4600-03	19,758,000	54,132	0.11%
			Waiuku C	4600-04	27,965,000	76,616	0.16%
	Kaiaipapa Subtotal					286,932	0.60%
	Waihoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	159,986,000	438,318	5.48%
			Napili B	5838-02	113,297,000	310,403	3.88%
			Napili C	5838-04	77,412,000	212,088	2.65%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	204,883,000	561,323	7.02%
	Honolua Subtotal					1,522,132	19.03%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	24,681,000	67,619	0.97%
			Kanaha 2	5339-04	9,877,000	27,060	0.39%
			Waipuka 1	5339-01	16,155,000	44,260	0.63%
			Waipuka 2	5339-02	19,778,000	54,186	0.77%
	Launiupoko Subtotal					193,126	2.76%
	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 10/31/18	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	191,805,000	525,493	10.51%	10.51%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						525,493	10.61%	10.61%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	49,611,000	135,921	2.72%	2.72%
	Kawela Subtotal						135,921	2.72%	2.72%
	Ualapue	8	8						
				Ualapue	0449-01	68,727,000	188,293	2.35%	2.35%
	Ualapue Subtotal						188,293	2.35%	2.35%
	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						

