

ALAN M. ARAKAWA
Mayor



DAVID TAYLOR, P.E.
Director

PAUL J. MEYER
Deputy Director

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DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI

200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793-2155
www.mauiwater.org

October 6, 2016

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 10/10/16
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 September 2016.

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,

David Taylor
DAVID TAYLOR
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 16-241

"By Water All Things Find Life"



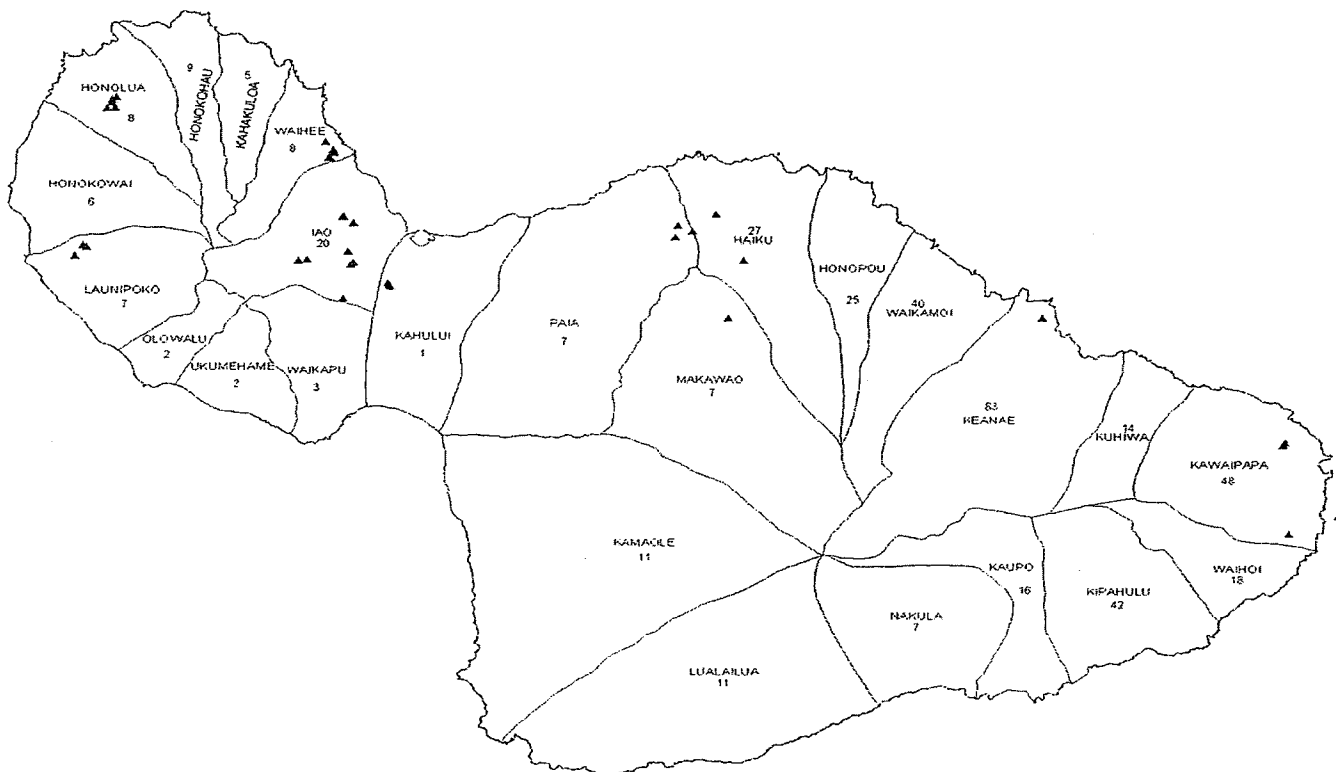
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Current Year	Last 12 Months
Central														
Mokuhaui 501	2,318	851	2,581	5,873	3,818	16,655	25,245	66,390	76,619	63,337	65,726	47,127	370,789	376,538
Mokuhaui 503	40,849	46,154	69,867	79,078	67,859	53,789	46,255	6,712	517	18,766	38,531	99,511	411,016	567,886
Waihee 577	29,322	28,190	38,147	40,186	38,886	39,987	44,834	77,154	89,771	100,246	104,219	100,047	635,328	730,988
Waihee 578	23,690	23,779	40,408	39,995	44,777	42,139	42,946	35,157	36,080	48,219	51,665	55,682	396,660	484,537
Waihee 579	89,762	78,029	90,173	96,389	95,786	98,779	81,752	0	0	74	0	0	372,779	630,743
Waiehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiehu Hts 515	29,901	29,411	30,920	31,535	28,634	29,293	29,471	31,196	29,984	31,931	32,564	31,523	276,130	366,363
Wailuku Shaft 33	152,537	146,187	150,289	149,555	135,593	143,425	140,346	144,601	140,090	143,666	71,489	0	1,068,765	1,517,778
lao	37,960	13,644	4,840	126	8,459	12,317	20,552	12,720	25,655	31,883	33,058	44,820	189,391	245,834
Waikapu	30,564	32,682	34,271	31,764	32,084	32,511	32,294	32,732	32,582	33,870	35,810	33,000	296,645	394,161
Wailuku 1	0	0	0	0	0	0	0	0	336	7,632	48,082	49,370	105,420	105,420
Wailuku 2	0	0	0	0	0	0	0	0	0	0	0	7,932	7,932	7,932
DAILY AVERAGE	14,094	13,298	14,887	15,306	15,721	15,126	15,466	13,118	14,388	15,466	15,621	15,634	15,076	14,831
Kepaniwai 511	22,313	21,553	22,275	22,320	20,879	22,245	21,597	22,272	21,600	22,279	22,233	21,143	196,566	262,706
lao Tunnel	46,668	43,570	46,430	46,154	45,660	48,698	47,556	49,158	47,420	49,779	49,704	20,534	404,663	541,332
DAILY AVERAGE	2,225	2,171	2,216	2,209	2,294	2,288	2,305	2,304	2,301	2,324	2,321	1,389	2,194	2,197
N. Waihee #1	28,628	27,266	28,621	28,641	26,544	28,773	30,533	44,634	42,561	32,234	38,266	38,951	311,136	395,650
N. Waihee #2	21,425	21,131	21,666	21,331	19,969	21,984	18,815	0	0	21,428	44,778	44,680	190,985	255,207
Kanoa #1	30,069	26,746	18,943	18,578	17,150	18,738	23,746	47,031	45,129	24,006	30,779	34,613	259,769	335,526
Kanoa #2	27,960	25,700	18,878	18,593	17,163	18,523	22,744	52,015	49,360	30,960	7,043	0	216,399	288,936
Kupaa	46,540	46,573	10,975	9,861	8,368	10,907	12,364	27,508	35,758	41,863	45,554	42,024	234,210	338,298
DAILY AVERAGE	4,988	4,914	3,196	3,129	3,076	3,191	3,540	5,522	5,760	4,855	5,368	5,342	4,425	4,409
Maui Lani #5	5,836	5,448	5,797	5,770	5,300	5,665	5,573	5,813	5,666	5,694	5,781	6,176	51,440	68,521
Maui Lani #6	11,577	10,928	11,232	11,587	10,668	11,253	11,176	11,599	11,120	11,274	11,578	11,446	101,701	135,437
Maui Lani #7	16,719	15,447	16,833	16,757	15,657	16,010	16,173	16,717	16,209	16,363	16,617	16,491	146,993	195,991
DAILY AVERAGE	1,101	1,061	1,092	1,100	1,091	1,082	1,097	1,101	1,100	1,101	1,101	1,101	1,095	1,093
UpCountry														
Halku	7,952	8,142	9,391	7,835	7,417	7,495	5,647	5,853	6,153	6,368	6,368	5,528	58,663	84,147
H' Poko #1	0	0	0	0	0	0	62	0	0	2	0	0	64	64
H' Poko #2	0	0	133	0	73	77	347	0	0	0	0	0	497	630
Kaupakalua	18,298	16,719	16,772	17,502	16,361	17,073	16,408	18,256	17,501	17,452	16,808	15,558	152,919	204,708
Pookela	96	63	57	160	13,165	149	2,246	40	573	6,260	180	302	23,075	23,291
DAILY AVERAGE	850	831	850	822	1,276	800	824	779	808	970	753	713	858	855
Lahaina														
Kanaha 575	6,180	3,074	3,665	157	15	130	323	227	529	1,175	480	1,792	4,829	17,748
Kanaha 576	3,542	2,193	2,456	149	61	568	671	779	1,236	2,187	911	1,867	8,428	16,618
Walpuka 559	7,794	4,789	5,598	91	115	1,230	1,088	1,118	2,106	3,621	1,627	180	11,176	29,356
Walpuka 560	8,163	4,469	5,682	11	44	627	746	864	1,372	2,466	1,015	2,219	9,364	27,679
Napili A 569	8,161	6,065	3,894	3,946	2,580	1,814	5,259	13,172	13,946	17,387	10,405	1,989	70,499	88,619
Napili B 570	20,085	17,314	19,097	6,502	13,011	11,021	8,877	737	1,648	1,547	7,723	11,833	62,899	119,396
Napili C 571	7,091	21,642	21,788	27,046	33,113	38,138	39,590	40,505	40,344	42,949	42,022	41,702	345,409	395,930
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	17,848	12	46	15,715	2,517	5,730	776	38	156	10	10	10	24,963	42,868
DAILY AVERAGE	2,544	1,985	2,007	1,730	1,774	1,912	1,911	1,853	2,045	2,301	2,071	2,053	1,962	2,017
Hana														
Hamoia 597	808	119	484	2	42	3,077	1,431	861	4,008	1,678	793	1,058	12,949	14,359
Hamoia #2	7,551	7,551	7,928	8,331	8,120	4,169	5,616	7,153	3,467	6,661	7,981	6,337	57,835	80,864
Keanae #1	1,523	1	2,376	1,033	1,437	1,467	1,084	1,328	1,471	1,296	0	0	9,116	13,016
Keanae #2	1,408	2,877	676	664	5	8	1	0	0	265	1,223	1,223	3,390	8,352
Wakiu 560 B	6,320	6,360	7,352	6,822	6,309	6,801	6,753	7,134	7,245	7,454	7,073	7,129	62,720	82,751
Wakiu C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	568	564	607	544	549	501	496	531	540	560	551	525	533	545
Molokai														
Kawela 551	1,294	3	3,189	3,644	4,433	3,879	3,805	78	3,321	4,269	4,249	3,588	31,266	35,751
Kawela 552	2,160	3,402	412	10	4	13	7	3,984	795	4	3	140	4,960	10,933
Ualapue 553	5,429	5,064	5,469	1,941	7,491	6,865	3	4,987	7,461	6,093	5,381	4,625	44,848	60,810
Ualapue 554	804	1	0	4,334	171	512	7,230	2,265	0	11	0	3	14,527	15,332
Kualapuu	15,492	11,376	15,788	15,870	15,446	17,090	17,273	19,258	19,122	17,861	19,260	17,038	158,217	200,873
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	812	662	802	832	950	915	944	966	1,023	911	932	846	926	884

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 9/30/16	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhau 1	5330-09	376,538,000	1,028,792	5.14%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	567,886,000	1,551,601	7.76%
			Waihee 1	5431-02	730,988,000	1,997,235	9.99%
			Waihee 2	5431-03	484,537,000	1,323,872	6.62%
			Waihee 3	5431-04	630,743,000	1,723,342	8.62%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	366,363,000	1,000,992	5.00%
			Wailuku Shaft 33	5330-05	1,517,778,000	4,146,934	20.73%
			Kepaniwai	5332-05	262,706,000	717,776	3.59%
			Iao Tank Site Well	5230-02	245,834,000	671,678	3.36%
			Waikapu Well	5131-01	394,161,000	1,076,943	5.38%
			Wailuku 1	5230-04	105,420,000	288,033	1.44%
			Wailuku 2	5230-05	7,932,000	21,672	0.11%
			Iao Subtotal			15,548,869	77.74%
	Waihee	8					
			North Waihee # 1	5631-02	395,650,000	1,081,011	13.51%
			North Waihee # 2	5631-03	255,207,000	697,287	8.72%
			Kanoa 1	5731-02	335,526,000	916,738	11.46%
			Kanoa 2	5731-04	288,936,000	789,443	9.87%
			Kupaa	5731-03	338,298,000	924,311	11.55%
			Waihee Subtotal			4,408,790	55.11%
Central	Kahakuloa	5					
	Honokohau	9					
	Kahului	1					
			Maui Lani #5	5229-04	68,521,000	187,216	18.72%
			Maui Lani #6	5229-05	135,437,000	370,046	37.00%
			Maui Lani #7	5229-06	195,991,000	535,495	53.55%
			Kahului Subtotal			1,092,757	109.28%
	Kamaole	11					
	Paia	7					
			Hamakuapoko 1	5420-02	64,000	175	0.00%
			Hamakuapoko 2	5320-01	630,000	1,721	0.02%
			Paia Subtotal			1,896	0.03%
	Makawao	7					
			Pookela	5118-02	23,291,000	63,637	0.91%
			Makawao Subtotal			63,637	0.91%
Koolau	Haiku	27					
			Kaupakalua	5317-01	204,708,000	559,311	2.07%
			Haiku	5419-01	84,147,000	229,910	0.85%
			Haiku Subtotal			789,221	2.92%
	Honopou	25					
	Waiakamoi	40					
	Keanae	83					
			Keanae 1	5108-01	13,016,000	35,563	0.04%
			Keanae2	5108-02	8,352,000	22,820	0.03%
			Keanae Subtotal			58,383	0.07%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 9/30/16	% Sustainable Yield
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	14,359,000	39,232	0.08%
			Hamoia 2	4300-03	80,864,000	220,940	0.46%
			Wakiu B	4600-03	82,751,000	226,096	0.47%
			Wakiu C	4600-04	0	0	0.00%
	Kawaipapa Subtotal					486,268	1.01%
	Waihoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honolua	8					
			Napili A	5838-01	88,619,000	242,128	3.03%
			Napili B	5838-02	119,396,000	326,219	4.08%
			Napili C	5838-04	395,930,000	1,081,776	13.52%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	42,868,000	117,126	1.46%
	Honolua Subtotal					1,767,249	22.09%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	17,748,000	48,492	0.69%
			Kanaha 2	5339-04	16,618,000	45,404	0.65%
			Waipuka 1	5339-01	29,356,000	80,208	1.15%
			Waipuka 2	5339-02	27,679,000	75,626	1.08%
	Launiupoko Subtotal					249,730	3.57%
	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 9/30/16	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	200,873,000	548,833	10.98%	10.98%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						548,833	10.98%	10.98%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	46,684,000	127,552	2.55%	2.55%
	Kawela Subtotal						127,552	2.55%	2.55%
	Ualapue	8	8						
				Ualapue	0449-01	76,142,000	208,038	2.60%	2.60%
	Ualapue Subtotal						208,038	2.60%	2.60%
	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						

