

ALAN M. ARAKAWA
Mayor



DAVID TAYLOR, P.E.
Director

PAUL J. MEYER
Deputy Director

**DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI**

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

July 7, 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

Mayor Date 7/12/16

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 June 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
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 16-163

"By Water All Things Find Life"



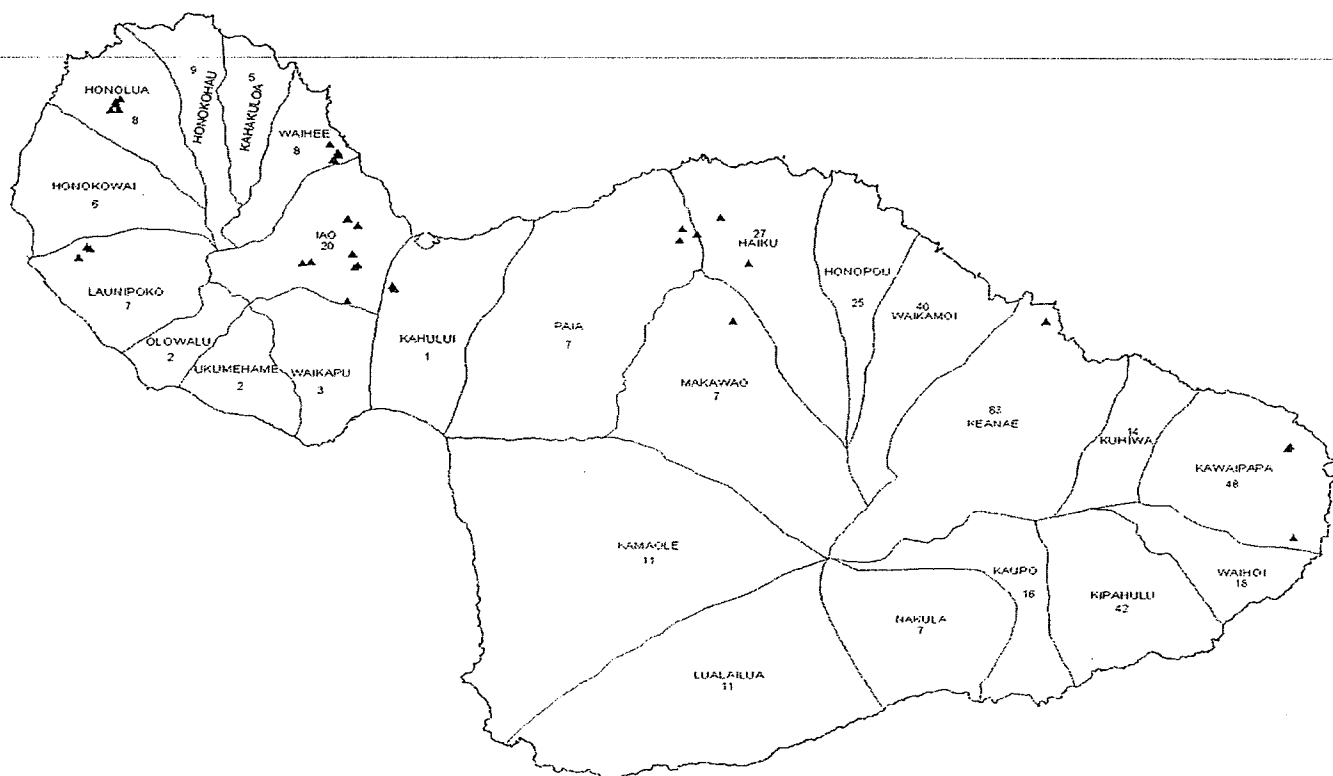
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Current Year	Last 12 Months
Central														
Mokuahu 501	3	0	533	2,318	851	2,581	5,873	3,818	16,655	25,245	66,390	76,619	194,599	200,884
Mokuahu 503	91,173	98,402	62,152	40,849	46,154	69,867	79,078	67,859	53,789	46,255	6,712	517	254,209	662,806
Walhee 577	37,856	40,578	22,915	29,322	28,190	38,147	40,186	38,886	39,987	44,834	77,154	89,771	330,817	527,825
Walhee 578	31,783	31,829	27,427	23,690	23,779	40,408	39,995	44,777	42,139	42,946	35,157	36,080	241,094	420,009
Walhee 579	105,935	98,936	90,043	89,762	78,029	90,173	96,389	95,786	98,779	81,752	0	0	372,705	925,583
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	32,835	32,266	30,440	29,901	29,411	30,920	31,535	28,634	29,293	29,471	31,196	29,984	180,113	365,886
Wailuku Shaft 33	152,188	136,702	146,779	152,537	146,187	150,289	149,555	135,593	143,425	140,346	144,601	140,090	853,610	1,738,292
lao	19,191	3,432	12,223	37,960	13,644	8,440	126	8,459	12,317	20,552	12,720	25,655	79,829	171,120
Waikapu	0	295	29,823	30,564	32,682	34,271	31,764	32,084	32,511	32,294	32,732	32,582	193,965	321,599
Wailuku 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Wailuku 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	15,192	14,272	14,078	14,094	13,298	14,887	15,306	15,721	15,126	15,456	13,118	14,377	14,840	14,574
Kepaniwai 511	22,535	22,543	21,599	22,313	21,553	22,275	22,320	20,879	22,245	21,597	22,272	21,600	130,912	263,728
lao Tunnel	45,673	46,520	45,255	46,668	43,570	46,430	46,154	45,660	48,698	47,556	49,158	47,420	284,647	558,763
DAILY AVERAGE	2,200	2,228	2,225	2,171	2,216	2,209	2,294	2,288	2,305	2,304	2,301	2,283	2,247	2,247
N. Walhee #1	27,054	28,202	27,801	28,628	27,266	28,621	28,641	26,544	28,773	30,533	44,634	42,561	201,685	369,256
N. Walhee #2	20,923	21,727	20,615	21,425	21,131	21,666	21,331	19,969	21,984	16,815	0	0	80,098	207,585
Kanoa #1	27,690	29,444	28,870	30,069	26,746	18,943	18,578	17,150	18,738	23,746	47,031	45,129	170,371	332,133
Kanoa #2	28,440	26,584	27,056	27,960	25,700	18,878	18,593	17,163	18,523	22,744	52,015	49,360	178,396	333,014
Kupaa	46,439	46,473	46,506	46,540	46,573	10,975	9,861	8,368	10,907	12,364	27,508	35,758	104,768	348,275
DAILY AVERAGE	4,856	4,917	5,028	4,988	4,914	3,196	3,129	3,076	3,191	3,540	5,522	5,760	4,040	4,345
Maui Lani #5	4,907	5,259	5,553	5,836	5,448	5,797	5,770	5,300	5,665	5,573	5,813	5,666	33,789	66,589
Maui Lani #6	11,488	11,434	11,060	11,577	10,928	11,232	11,587	10,668	11,253	11,176	11,599	11,120	67,403	135,121
Maui Lani #7	15,912	16,451	16,114	16,719	15,447	16,833	16,757	15,657	16,010	16,173	16,717	16,209	97,523	194,998
DAILY AVERAGE	1,042	1,069	1,091	1,101	1,061	1,092	1,100	1,091	1,062	1,097	1,101	1,100	1,092	1,084
UpCountry														
Haiku	9,447	9,436	8,319	7,952	8,142	9,391	7,835	7,417	7,495	5,647	5,853	6,153	40,399	93,086
H' Poko #1	7	0	0	0	0	0	0	0	0	62	0	0	62	69
H' Poko #2	17	0	0	0	0	133	0	73	77	347	0	0	497	647
Kaupakalua	21,136	19,594	18,745	18,298	16,719	16,772	17,502	16,361	17,073	16,408	18,256	17,501	103,101	214,364
Pookela	142	330	77	96	63	57	160	13,165	149	2,246	40	573	16,333	17,099
DAILY AVERAGE	992	947	905	850	831	850	822	1,276	800	824	779	808	881	889
Lahaina														
Kanaha 575	2,297	3,478	4,984	6,180	3,074	3,665	157	15	130	323	227	529	1,381	25,060
Kanaha 576	988	2,679	3,016	3,542	2,193	2,456	149	61	568	671	779	1,236	3,463	18,337
Waipuka 559	3,571	4,853	6,349	7,794	4,789	5,598	91	115	1,230	1,088	1,118	2,106	5,748	38,701
Waipuka 560	6,137	6,669	6,127	8,163	4,469	5,682	11	44	627	746	864	1,372	3,665	40,912
Napili A 569	4,023	1,807	6,811	8,161	6,065	3,894	3,946	2,580	1,814	5,259	13,172	13,946	40,718	71,479
Napili B 570	23,271	12,464	19,290	20,085	17,314	19,097	6,502	13,011	11,021	8,877	737	1,648	41,797	153,318
Napili C 571	26,165	24,519	8,032	7,091	21,642	21,788	27,046	33,113	38,138	39,590	40,505	40,344	218,736	327,972
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	9,329	19,450	22,984	17,848	12	46	15,715	2,517	5,730	776	38	156	24,932	94,600
DAILY AVERAGE	2,445	2,449	2,586	2,544	1,985	2,007	1,730	1,774	1,912	1,911	1,853	2,045	1,871	2,105
Hana														
Hamoia 597	1	639	353	808	119	484	2	42	3,077	1,431	861	4,008	9,420	11,824
Hamoia #2	8,196	7,655	7,978	7,551	7,551	7,928	8,331	8,120	4,169	5,616	7,153	3,467	36,856	83,714
Keanae #1	1,421	2,527	2,715	1,523	1	2,376	1,033	1,437	1,467	1,084	1,328	1,471	7,819	18,382
Keanae #2	1,406	1	1	1,408	2,877	676	664	5	8	1	0	0	678	7,047
Wakui 550 B	6,013	6,097	6,018	6,320	6,360	7,352	6,822	6,309	6,801	6,753	7,134	7,245	41,063	79,223
Wakui C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	550	546	569	568	564	607	544	549	501	496	531	540	527	547
Molokai														
Kawela 551	6	3	350	1,294	3	3,189	3,644	4,433	3,879	3,805	78	3,321	19,160	24,004
Kawela 552	4,266	4,268	2,949	2,160	3,402	412	10	4	13	7	3,984	795	4,812	22,259
Ualapue 553	5,568	2,457	2,595	5,429	5,064	5,469	1,941	7,491	6,865	3	4,987	7,461	28,748	55,331
Ualapue 554	1,723	3,580	2,688	804	1	0	4,334	171	512	7,230	2,265	0	14,511	23,308
Kualapuu	20,361	19,666	15,492	15,492	11,376	15,788	15,870	15,446	17,090	17,273	19,258	19,122	104,058	202,233
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	1,029	967	802	812	662	802	832	950	915	944	986	1,023	941	894

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 6/30/16	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhau 1	5330-09	200,884,000	548,863	2.74%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	662,806,000	1,810,945	9.05%
			Waihee 1	5431-02	527,825,000	1,442,145	7.21%
			Waihee 2	5431-03	420,009,000	1,147,566	5.74%
			Waihee 3	5431-04	925,583,000	2,528,915	12.64%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	365,886,000	999,689	5.00%
			Wailuku Shaft 33	5330-05	1,738,292,000	4,749,432	23.75%
			Kepaniwai	5332-05	263,728,000	720,568	3.60%
			Iao Tank Site Well	5230-02	171,120,000	467,541	2.34%
			Waikapu Well	5131-01	321,599,000	878,686	4.39%
			Wailuku 1	5230-04	0	0	0.00%
			Wailuku 2	5230-05	0	0	0.00%
		Iao Subtotal				15,294,350	76.47%
	Waihee		8				
			North Waihee # 1	5631-02	369,256,000	1,008,896	12.61%
			North Waihee # 2	5631-03	207,585,000	567,172	7.09%
			Kanoa 1	5731-02	332,133,000	907,467	11.34%
			Kanoa 2	5731-04	333,014,000	909,874	11.37%
			Kupaa	5731-03	348,275,000	951,571	11.89%
	Waihee Subtotal				4,344,981	54.31%	
Kahakuloa		5					
Honokohau		9					
Central	Kahului	1					
			Maui Lani #5	5229-04	66,589,000	181,937	18.19%
			Maui Lani #6	5229-05	135,121,000	369,183	36.92%
			Maui Lani #7	5229-06	194,998,000	532,781	53.28%
	Kahului Subtotal				1,083,902	108.39%	
Kamaole		11					
	Paia	7					
			Hamakuapoko 1	5420-02	69,000	189	0.00%
			Hamakuapoko 2	5320-01	647,000	1,768	0.03%
	Paia Subtotal				1,956	0.03%	
Makawao		7					
			Pookela	5118-02	17,099,000	46,719	0.67%
			Makawao Subtotal			46,719	0.67%
Koolau	Haiku	27					
			Kaupakalua	5317-01	214,364,000	585,694	2.17%
			Haiku	5419-01	93,086,000	254,333	0.94%
			Haiku Subtotal			840,027	3.11%
Honopou		25					
	Waiakamoi	40					
Keanae		83					
			Keanae 1	5108-01	18,382,000	50,224	0.06%
			Keanae2	5108-02	7,047,000	19,254	0.02%
			Keanae Subtotal			69,478	0.08%

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 6/30/16	% Sustainable Yield	
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	Iao	20						
			Mokuhau 1	5330-09	200,884,000	548,863	2.74%	
			Mokuhau 2	5330-10	0	0	0.00%	
			Mokuhau 3	5330-11	662,806,000	1,810,945	9.05%	
			Waihee 1	5431-02	527,825,000	1,442,145	7.21%	
			Waihee 2	5431-03	420,009,000	1,147,566	5.74%	
			Waihee 3	5431-04	925,583,000	2,528,915	12.64%	
			Waiehu Heights 1	5430-01	0	0	0.00%	
			Waiehu Heights 2	5430-02	365,886,000	999,689	5.00%	
			Wailuku Shaft 33	5330-05	1,738,292,000	4,749,432	23.75%	
			Kepaniwai	5332-05	263,728,000	720,568	3.60%	
			Iao Tank Site Well	5230-02	171,120,000	467,541	2.34%	
			Waikapu Well	5131-01	321,599,000	878,686	4.39%	
			Wailuku 1	5230-04	0	0	0.00%	
			Wailuku 2	5230-05	0	0	0.00%	
	Iao Subtotal					15,294,350	76.47%	
Waihee		8						
			North Waihee # 1	5631-02	369,256,000	1,008,896	12.61%	
			North Waihee # 2	5631-03	207,585,000	567,172	7.09%	
			Kanoa 1	5731-02	332,133,000	907,467	11.34%	
			Kanoa 2	5731-04	333,014,000	909,874	11.37%	
			Kupaa	5731-03	348,275,000	951,571	11.89%	
	Waihee Subtotal					4,344,981	54.31%	
Kahakuloa		5						
Honokohau		9						
Central	Kahului	1						
			Maui Lani #5	5229-04	66,589,000	181,937	18.19%	
			Maui Lani #6	5229-05	135,121,000	369,183	36.92%	
			Maui Lani #7	5229-06	194,998,000	532,781	53.28%	
	Kahului Subtotal					1,083,902	108.39%	
Kamaole		11						
	Paia	7						
			Hamakuapoko 1	5420-02	69,000	189	0.00%	
			Hamakuapoko 2	5320-01	647,000	1,768	0.03%	
	Paia Subtotal					1,956	0.03%	
Makawao		7						
			Pookela	5118-02	17,099,000	46,719	0.67%	
			Makawao Subtotal				46,719	0.67%
Koolau	Haiku	27						
			Kaupakalua	5317-01	214,364,000	585,694	2.17%	
			Haiku	5419-01	93,086,000	254,333	0.94%	
			Haiku Subtotal				840,027	3.11%
Honopou		25						
	Waiakamoi	40						
Keanae		83						
			Keanae 1	5108-01	18,382,000	50,224	0.06%	
			Keanae2	5108-02	7,047,000	19,254	0.02%	
			Keanae Subtotal				69,478	0.08%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 6/30/16	% Sustainable Yield
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	11,824,000	32,306	0.07%
			Hamoia 2	4300-03	83,714,000	228,727	0.48%
			Wakiu B	4600-03	79,223,000	216,456	0.45%
			Wakiu C	4600-04	0	0	0.00%
	Kawaipapa Subtotal					477,489	0.99%
	Waihoi	18					
Kahikinui	Kipahulu	42					
	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honolua	8					
			Napili A	5838-01	71,479,000	195,298	2.44%
			Napili B	5838-02	153,318,000	418,902	5.24%
			Napili C	5838-04	327,972,000	896,098	11.20%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	94,600,000	258,470	3.23%
	Honolua Subtotal					1,768,768	22.11%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	25,060,000	68,470	0.98%
			Kanaha 2	5339-04	18,337,000	50,101	0.72%
			Waipuka 1	5339-01	38,701,000	105,740	1.51%
			Waipuka 2	5339-02	40,912,000	111,781	1.60%
	Launiupoko Subtotal					336,093	4.80%
	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 6/30/16	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	202,233,000	552,549	11.05%	11.05%
	Kualapuu Subtotal			Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
Southeast	Kamiloloa	3	3						
	Kawela	5	5	Kawela	0457-01	46,263,000	126,402	2.53%	2.53%
	Kawela Subtotal						126,402	2.53%	2.53%
	Ualapue	8	8	Ualapue	0449-01	78,639,000	214,861	2.69%	2.69%
	Ualapue Subtotal						214,861	2.69%	2.69%
	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						

