

ALAN M. ARAKAWA
Mayor



DEPARTMENT OF WATER SUPPLY

COUNTY OF MAUI

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

DAVID TAYLOR, P.E.
Director

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OFFICE OF THE MAYOR

PAUL J. MEYER
Deputy Director

OFFICE OF THE
COUNTY CLERK

2016 SEP 12 PM 2: 57

RECEIVED

September 8, 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

Al Arakawa 9/12/16

Acting 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 August 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. 16-221

"By Water All Things Find Life"



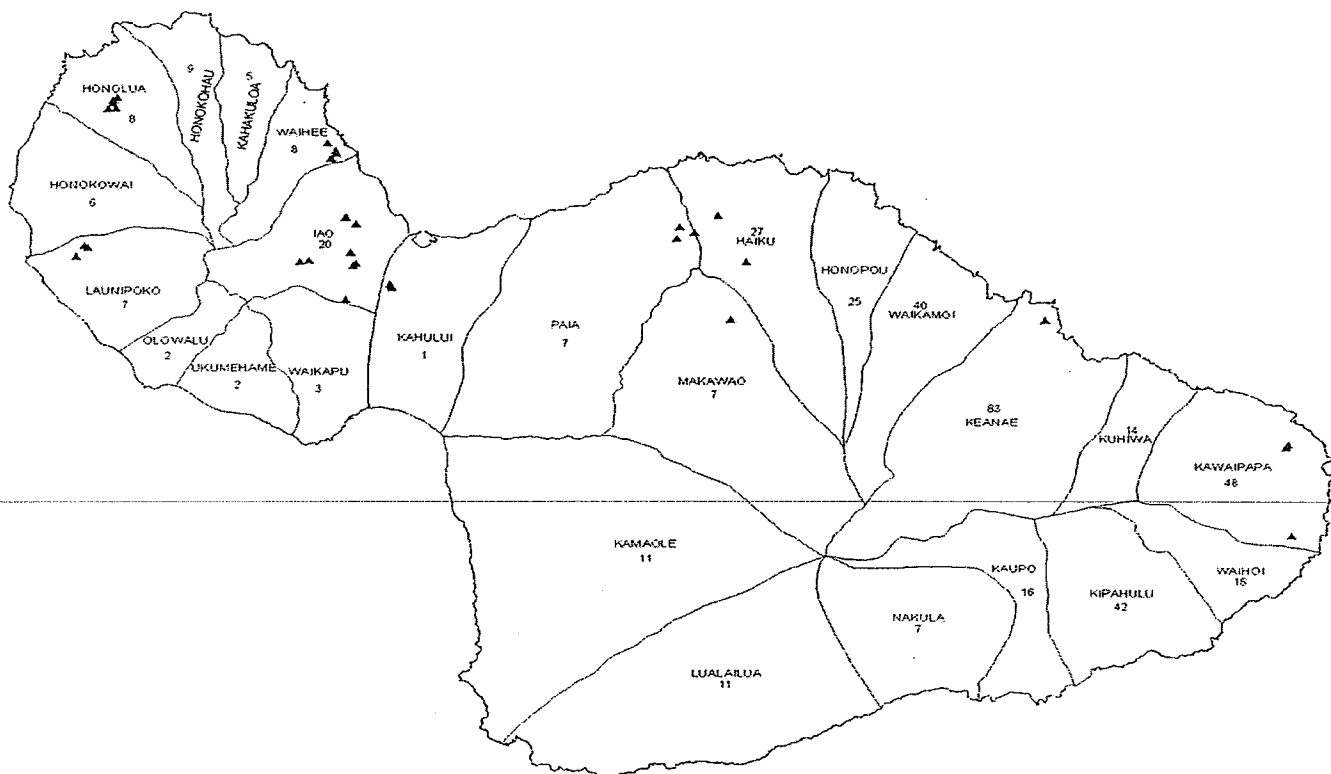
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Current Year	Last 12 Months
Central														
Mokuhau 501	533	2,318	851	2,581	5,873	3,818	16,655	25,245	66,390	76,619	63,337	65,726	323,662	329,944
Mokuhau 503	62,152	40,849	46,154	69,867	79,078	67,859	53,789	46,255	6,712	517	18,766	38,531	311,506	530,527
Waihee 577	22,915	29,322	28,190	38,147	40,186	38,886	39,987	44,834	77,154	89,771	100,246	104,219	535,282	653,856
Waihee 578	27,427	23,690	23,779	40,408	39,995	44,777	42,139	42,946	35,157	36,080	48,219	51,665	340,978	456,281
Waihee 579	90,043	89,762	78,029	90,173	96,389	95,786	98,779	81,752	0	0	74	0	372,779	720,786
Waiehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiehu Hts 515	30,440	29,901	29,411	30,920	31,535	28,634	29,293	29,471	31,196	29,984	31,931	32,564	244,608	365,280
Wailuku Shaft 33	146,779	152,537	146,187	150,289	149,555	135,593	143,425	140,346	144,601	140,090	143,666	71,489	1,068,765	1,664,557
Iao	12,223	37,960	13,644	4,840	126	8,459	12,317	20,552	12,720	25,655	31,683	33,058	144,571	213,238
Waikapu	29,823	30,564	32,682	34,271	31,764	32,084	32,511	32,294	32,732	32,582	33,870	35,810	263,645	390,984
Wailuku 1	0	0	0	0	0	0	0	0	0	336	7,632	48,082	56,050	0
Wailuku 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	14,078	14,094	13,298	14,887	15,306	15,721	15,126	15,456	13,118	14,388	15,465	15,521	15,008	14,550
Kepaniwai 611	21,599	22,313	21,553	22,275	22,320	20,879	22,245	21,597	22,272	21,600	22,279	22,233	175,424	263,163
Iao Tunnel	45,255	46,668	43,570	46,430	46,154	45,660	48,698	47,556	49,158	47,420	49,779	49,704	384,129	566,053
DAILY AVERAGE	2,228	2,171	2,216	2,209	2,294	2,288	2,305	2,304	2,301	2,324	2,321	2,293	2,266	2,266
N. Waihee #1	27,801	28,628	27,266	28,621	28,641	26,544	28,773	30,533	44,634	42,561	32,234	38,266	272,185	384,501
N. Waihee #2	20,615	21,425	21,131	21,666	21,331	19,969	21,984	16,815	0	0	21,428	44,778	146,305	231,142
Kanoa #1	28,870	30,069	26,746	18,943	18,578	17,150	18,738	23,746	47,031	45,129	24,006	30,779	225,156	329,784
Kanoa #2	27,056	27,960	25,700	18,878	18,593	17,163	18,523	22,744	52,015	49,360	30,960	7,043	216,399	315,993
Kupaa	46,506	46,540	46,573	10,975	9,861	8,368	10,907	12,364	27,508	35,758	41,863	45,554	192,185	342,780
DAILY AVERAGE	5,028	4,988	4,914	3,196	3,129	3,076	3,191	3,540	5,522	5,760	4,855	5,368	4,312	4,383
Mauli Lani #5	5,553	5,836	5,448	5,797	5,770	5,300	5,665	5,573	5,813	5,666	5,694	5,781	45,264	67,898
Mauli Lani #6	11,060	11,577	10,928	11,232	11,587	10,668	11,253	11,176	11,599	11,120	11,274	11,578	90,254	135,051
Mauli Lani #7	16,114	16,719	15,447	16,833	16,757	15,657	16,010	16,173	16,717	16,209	16,363	16,617	130,502	195,614
DAILY AVERAGE	1,091	1,101	1,061	1,092	1,100	1,091	1,062	1,097	1,101	1,100	1,101	1,101	1,090	1,089
UpCountry														
Haiku	8,319	7,952	8,142	9,391	7,835	7,417	7,495	5,647	5,853	6,153	6,368	6,368	53,135	86,938
H' Poko #1	0	0	0	0	0	0	0	62	0	0	2	0	64	64
H' Poko #2	0	0	0	133	0	73	77	347	0	0	0	0	497	630
Kaupakalua	18,745	18,298	16,719	16,772	17,502	16,361	17,073	16,408	18,256	17,501	17,452	16,808	137,360	207,894
Pookela	77	96	63	57	160	13,165	149	2,246	40	573	6,260	180	22,773	23,066
DAILY AVERAGE	905	850	831	850	822	1,276	800	824	779	808	970	753	876	870
Lahaina														
Kanaha 576	4,984	6,180	3,074	3,665	157	15	130	323	227	529	1,175	480	3,036	20,940
Kanaha 576	3,016	3,542	2,193	2,456	149	61	568	671	779	1,236	2,187	911	6,561	17,767
Waipuka 559	6,349	7,794	4,789	5,598	91	115	1,230	1,088	1,118	2,106	3,621	1,627	10,996	35,524
Waipuka 560	6,127	8,163	4,469	5,682	11	44	627	746	864	1,372	2,466	1,015	7,146	31,587
Napili A 569	6,811	8,161	6,065	3,894	3,946	2,580	1,814	5,259	13,172	13,946	17,387	10,405	68,510	93,441
Napili B 570	19,290	20,085	17,314	19,097	6,502	13,011	11,021	8,877	737	1,648	1,547	7,723	51,067	126,853
Napili C 571	8,032	7,091	21,642	21,788	27,046	33,113	38,138	39,590	40,505	40,344	42,949	42,022	303,707	362,259
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	22,984	17,848	12	46	15,715	2,517	5,730	776	38	156	10	10	24,952	65,842
DAILY AVERAGE	2,586	2,544	1,985	2,007	1,730	1,774	1,912	1,911	1,853	2,045	2,301	2,071	1,951	2,061
Hana														
Hamo A 597	353	808	119	484	2	42	3,077	1,431	861	4,008	1,678	793	11,891	13,655
Hamo A #2	7,978	7,551	7,551	7,928	8,331	8,120	4,169	5,616	7,153	3,467	6,661	7,981	51,498	82,505
Keanae #1	2,715	1,523	1	2,376	1,033	1,437	1,467	1,084	1,328	1,471	1,296	0	9,116	15,730
Keanae #2	1	1,408	2,877	676	664	5	8	1	0	0	265	1,223	2,167	7,129
Waklu 550 B	6,018	6,320	6,360	7,352	6,822	6,309	6,801	6,753	7,134	7,245	7,454	7,073	55,590	81,640
Waklu C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	569	568	564	607	544	549	501	496	531	540	560	551	534	548
Molokai														
Kawela 551	350	1,294	3	3,189	3,644	4,433	3,879	3,805	78	3,321	4,269	4,249	27,678	32,513
Kawela 552	2,949	2,160	3,402	412	10	4	13	7	3,984	795	4	3	4,819	13,742
Ualapue 553	2,595	5,429	5,064	5,469	1,941	7,491	6,865	3	4,987	7,461	6,093	5,381	40,223	58,780
Ualapue 554	2,688	804	1	0	4,334	171	512	7,230	2,265	0	11	0	14,523	18,017
Kualapuu	15,492	15,492	11,376	15,788	15,870	15,446	17,090	17,273	19,258	19,122	17,861	19,260	141,179	199,327
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	802	812	662	802	832	950	915	944	986	1,023	911	932	936	881

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 8/31/16	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhau 1	5330-09	329,944,000	901,486	4.51%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	530,527,000	1,449,527	7.25%
			Waihee 1	5431-02	653,856,000	1,786,492	8.93%
			Waihee 2	5431-03	456,281,000	1,246,669	6.23%
			Waihee 3	5431-04	720,786,000	1,969,361	9.85%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	365,280,000	998,033	4.99%
			Wailuku Shaft 33	5330-05	1,664,557,000	4,547,970	22.74%
			Kepaniwai	5332-05	263,163,000	719,025	3.60%
			Iao Tank Site Well	5230-02	213,238,000	582,617	2.91%
			Waikapu Well	5131-01	390,984,000	1,068,262	5.34%
			Wailuku 1	5230-04	0	0	0.00%
			Wailuku 2	5230-05	0	0	0.00%
			Iao Subtotal			15,269,443	76.35%
	Waihee	8					
			North Waihee # 1	5631-02	384,501,000	1,050,549	13.13%
			North Waihee # 2	5631-03	231,142,000	631,536	7.89%
			Kanoa 1	5731-02	329,784,000	901,049	11.26%
			Kanoa 2	5731-04	315,993,000	863,369	10.79%
			Kupaa	5731-03	342,780,000	936,557	11.71%
	Waihee Subtotal					4,383,060	54.79%
Central	Kahakuloa	5					
	Honokohau	9					
	Kahului	1					
			Maui Lani #5	5229-04	67,898,000	185,514	18.55%
			Maui Lani #6	5229-05	135,051,000	368,992	36.90%
			Maui Lani #7	5229-06	195,614,000	534,464	53.45%
	Kahului Subtotal					1,088,970	108.90%
	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	23,066,000	63,022	0.90%
	Makawao Subtotal					63,022	0.90%
Koolau	Haiku	27					
			Kaupakalua	5317-01	207,894,000	568,016	2.10%
			Haiku	5419-01	86,938,000	237,536	0.88%
	Haiku Subtotal					805,552	2.98%
	Honopou	25					
	Waiakamoi	40					
	Keanae	83					
			Keanae 1	5108-01	15,730,000	42,978	0.05%
			Keanae2	5108-02	7,129,000	19,478	0.02%
	Keanae Subtotal					62,456	0.08%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 8/31/16	% Sustainable Yield
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	13,655,000	37,309	0.08%
			Hamoia 2	4300-03	82,505,000	225,423	0.47%
			Wakiu B	4600-03	81,640,000	223,060	0.46%
			Wakiu C	4600-04	0	0	0.00%
	Kawaipapa Subtotal					485,792	1.01%
Kahikinui	Waihoi	18					
	Kipahulu	42					
	Kaupo	16					
	Nakula	7					
Lahaina	Lualailua	11					
	Honolua	8					
			Napili A	5838-01	93,441,000	255,303	3.19%
			Napili B	5838-02	126,853,000	346,593	4.33%
			Napili C	5838-04	362,259,000	989,779	12.37%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	65,842,000	179,896	2.25%
	Honolua Subtotal					1,771,571	22.14%
Lahaina	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	20,940,000	57,213	0.82%
			Kanaha 2	5339-04	17,767,000	48,544	0.69%
			Waipuka 1	5339-01	35,524,000	97,060	1.39%
			Waipuka 2	5339-02	31,587,000	86,303	1.23%
	Launiupoko Subtotal					289,120	4.13%
Lahaina	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 8/31/16	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	199,327,000	544,609	10.89%	10.89%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						544,609	10.89%	10.89%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	46,255,000	126,380	2.53%	2.53%
	Kawela Subtotal						126,380	2.53%	2.53%
	Ualapue	8	8						
				Ualapue	0449-01	76,797,000	209,828	2.62%	2.62%
	Ualapue Subtotal						209,828	2.62%	2.62%
	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						

