

ALAN M. ARAKAWA

Mayor
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DEPARTMENT OF WATER SUPPLY

COUNTY OF MAUI

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OFFICE OF THE MAYOR

DAVID TAYLOR, P.E.
Director

PAUL J. MEYER
Deputy Director

August 5, 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 *8/5/16*
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 July 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

"By Water All Things Find Life"

COUNTY COMMUNICATION NO.

16-179

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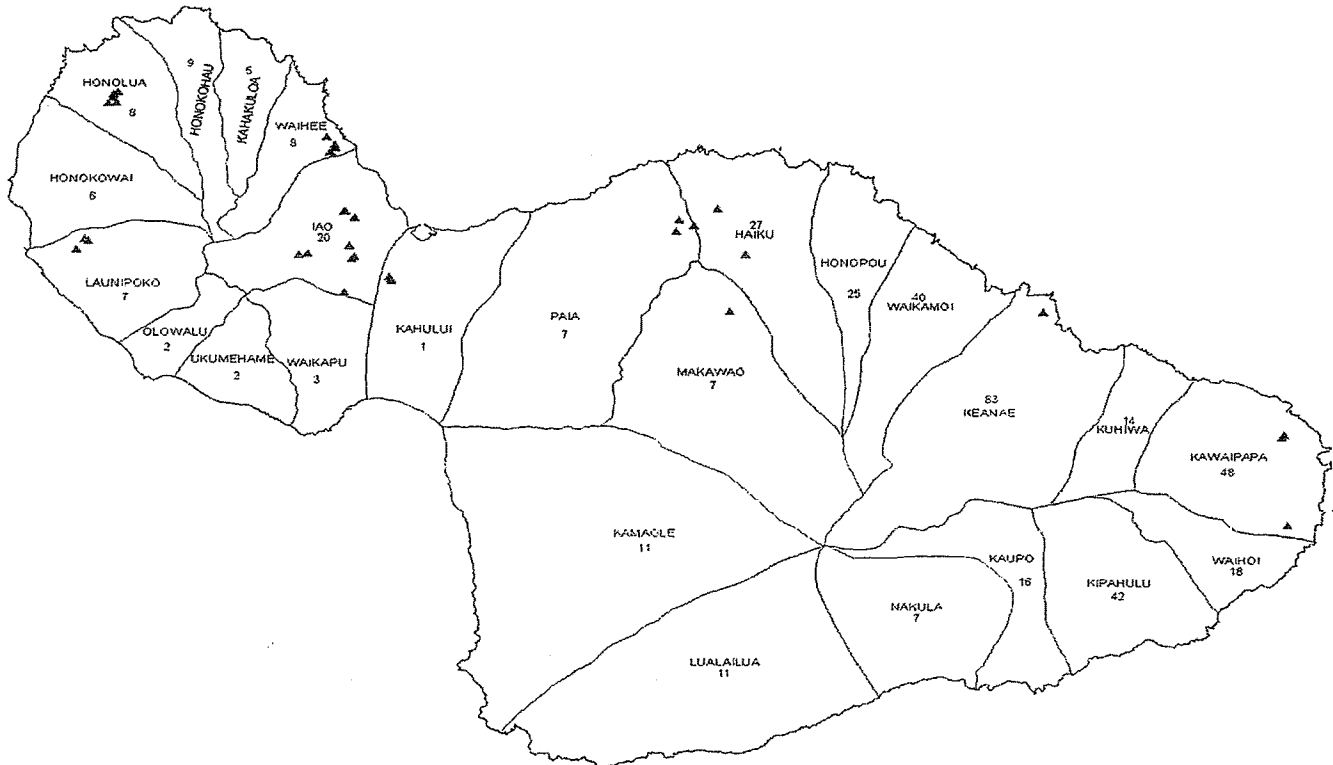
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Current Year	Last 12 Months
Central														
Mokuhau 501	0	533	2,318	851	2,581	5,873	3,818	16,655	25,245	66,390	76,619	63,337	257,936	264,219
Mokuhau 503	98,402	62,152	40,849	46,154	69,867	79,078	67,859	53,789	46,255	6,712	517	18,766	272,975	590,399
Waihee 577	40,578	22,915	29,322	28,190	38,147	40,186	38,886	39,987	44,834	77,154	89,771	100,246	431,063	590,215
Waihee 578	31,829	27,427	23,690	23,779	40,408	39,995	44,777	42,139	42,946	35,157	36,080	48,219	289,313	436,446
Waihee 579	98,936	90,043	89,762	78,029	90,173	96,389	95,786	98,779	81,752	0	0	74	372,779	819,722
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	32,266	30,440	29,901	29,411	30,920	31,535	28,634	29,293	29,471	31,196	29,984	31,931	212,044	364,983
Walluku Shaft 33	136,702	146,779	152,537	146,187	150,289	149,555	135,593	143,425	140,346	144,601	140,090	143,666	997,276	1,729,770
lao	3,432	12,223	37,960	13,644	4,840	126	8,459	12,317	20,552	12,720	25,655	31,683	111,513	183,612
Walkapu	295	29,823	30,564	32,682	34,271	31,764	32,084	32,511	32,294	32,732	32,582	33,870	227,835	355,469
Walluku 1	0	0	0	0	0	0	0	0	0	0	0	7,632	7,632	7,632
Walluku 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	14,272	14,078	14,094	13,298	14,887	15,306	15,721	15,126	15,456	13,118	14,377	15,465	14,931	14,597
Kepaniwal 511	22,543	21,599	22,313	21,553	22,275	22,320	20,879	22,245	21,597	22,272	21,600	22,279	153,191	263,472
lao Tunnel	46,520	45,255	46,668	43,570	46,430	46,154	45,660	48,698	47,556	49,158	47,420	49,779	334,426	562,870
DAILY AVERAGE	2,228	2,228	2,225	2,171	2,216	2,209	2,294	2,288	2,305	2,304	2,301	2,324	2,289	2,258
N. Waihee #1	28,202	27,801	28,628	27,266	28,621	28,641	26,544	28,773	30,533	44,634	42,561	32,234	233,919	374,437
N. Waihee #2	21,727	20,615	21,425	21,131	21,666	21,331	19,969	21,984	16,815	0	0	21,428	101,527	208,090
Kanoa #1	29,444	28,870	30,069	26,746	18,943	18,578	17,150	18,738	23,746	47,031	45,129	24,006	194,378	328,449
Kanoa #2	26,584	27,056	27,960	25,700	18,878	18,593	17,163	18,523	22,744	52,015	49,360	30,960	209,356	335,534
Kupaa	46,473	46,506	46,540	46,573	10,975	9,861	8,368	10,907	12,364	27,508	35,758	41,863	146,631	343,699
DAILY AVERAGE	4,917	5,028	4,988	4,914	3,196	3,129	3,076	3,191	3,540	5,522	5,760	4,855	4,159	4,345
Maui Lani #5	5,259	5,553	5,836	5,448	5,797	5,770	5,300	5,665	5,573	5,813	5,666	5,694	39,483	67,376
Maui Lani #6	11,434	11,060	11,577	10,928	11,232	11,587	10,668	11,253	11,176	11,599	11,120	11,274	78,677	134,907
Maui Lani #7	16,451	16,114	16,719	15,447	16,833	16,757	15,657	16,010	16,173	16,717	16,209	16,363	113,885	195,448
DAILY AVERAGE	1,069	1,091	1,101	1,061	1,092	1,100	1,091	1,062	1,097	1,101	1,100	1,101	1,089	1,087
UpCountry														
Haiku	9,436	8,319	7,952	8,142	9,391	7,835	7,417	7,495	5,647	5,853	6,153	6,368	46,767	90,007
H' Poko #1	0	0	0	0	0	0	0	0	62	0	0	2	64	64
H' Poko #2	0	0	0	0	133	0	73	77	347	0	0	0	497	630
Kaupakalua	19,594	18,745	18,298	16,719	16,772	17,502	16,361	17,073	16,408	18,256	17,501	17,452	120,552	210,679
Pookela	330	77	96	63	57	160	13,165	149	2,246	40	573	6,260	22,593	23,216
DAILY AVERAGE	947	905	850	831	850	822	1,276	800	824	779	808	970	894	887
Lahaina														
Kanaha 575	3,478	4,984	6,180	3,074	3,665	157	15	130	323	227	529	1,175	2,556	23,938
Kanaha 576	2,679	3,016	3,542	2,193	2,456	149	61	568	671	779	1,236	2,187	5,650	19,535
Waipuka 559	4,853	6,349	7,794	4,789	5,598	91	115	1,230	1,088	1,118	2,106	3,621	9,369	38,750
Waipuka 560	6,669	6,127	8,163	4,469	5,682	11	44	627	746	864	1,372	2,466	6,131	37,241
Napili A 569	1,807	6,811	8,161	6,065	3,894	3,946	2,580	1,814	5,259	13,172	13,946	17,387	58,105	84,843
Napili B 570	12,464	19,290	20,085	17,314	19,097	6,502	13,011	11,021	8,877	737	1,648	1,547	43,344	131,594
Napili C 571	24,519	8,032	7,091	21,642	21,788	27,046	33,113	38,138	39,590	40,505	40,344	42,949	261,685	344,755
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	19,450	22,984	17,848	12	46	15,715	2,517	5,730	776	38	156	10	24,942	85,282
DAILY AVERAGE	2,449	2,586	2,544	1,985	2,007	1,730	1,774	1,912	1,911	1,853	2,045	2,301	1,933	2,093
Hana														
Hamoia 597	639	353	808	119	484	2	42	3,077	1,431	861	4,008	1,678	11,098	13,501
Hamoia #2	7,655	7,978	7,551	7,551	7,928	8,331	8,120	4,169	5,616	7,153	3,467	6,661	43,517	82,179
Keanae #1	2,527	2,715	1,523	1	2,376	1,033	1,437	1,467	1,084	1,328	1,471	1,296	9,115	18,257
Keanae #2	1	1	1,408	2,877	676	664	5	8	1	0	0	265	944	5,907
Waklu 550 B	6,097	6,018	6,320	6,360	7,352	6,822	6,309	6,801	6,753	7,134	7,245	7,454	48,517	80,663
Waklu C	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	546	569	568	564	607	544	549	501	496	531	540	560	531	548
Molokai														
Kawela 551	3	350	1,294	3	3,189	3,644	4,433	3,879	3,805	78	3,321	4,269	23,429	28,267
Kawela 552	4,268	2,949	2,160	3,402	412	10	4	13	7	3,984	795	4	4,817	18,008
Ualapue 553	2,457	2,595	5,429	5,064	5,469	1,941	7,491	6,865	3	4,987	7,461	6,093	34,842	55,856
Ualapue 554	3,580	2,688	804	1	0	4,334	171	512	7,230	2,265	0	11	14,523	21,597
Kualapuu	19,666	15,492	15,492	11,376	15,788	15,870	15,446	17,090	17,273	19,258	19,122	17,861	121,919	199,733
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	967	802	812	662	802	832	950	915	944	986	1,023	911	937	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 7/31/16	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhaui 1	5330-09	264,219,000	721,910	3.61%
			Mokuhaui 2	5330-10	0	0	0.00%
			Mokuhaui 3	5330-11	590,399,000	1,613,112	8.07%
			Waihee 1	5431-02	590,215,000	1,612,609	8.06%
			Waihee 2	5431-03	436,446,000	1,192,475	5.96%
			Waihee 3	5431-04	819,722,000	2,239,678	11.20%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	364,983,000	997,221	4.99%
			Wailuku Shaft 33	5330-05	1,729,770,000	4,726,148	23.63%
			Kepaniwai	5332-05	263,472,000	719,869	3.60%
			Iao Tank Site Well	5230-02	183,612,000	501,672	2.51%
			Waikapu Well	5131-01	355,469,000	971,227	4.86%
			Wailuku 1	5230-04	7,632,000	20,852	0.10%
			Wailuku 2	5230-05	0	0	0.00%
	Iao Subtotal					15,316,773	76.58%
	Waihee	8					
			North Waihee # 1	5631-02	374,437,000	1,023,052	12.79%
			North Waihee # 2	5631-03	208,090,000	568,552	7.11%
			Kanoa 1	5731-02	328,449,000	897,402	11.22%
			Kanoa 2	5731-04	335,534,000	916,760	11.46%
			Kupaa	5731-03	343,699,000	939,068	11.74%
	Waihee Subtotal					4,344,833	54.31%
	Kahakuloa	5					
	Honokohau	9					
Central	Kahului	1					
			Maui Lani #5	5229-04	67,376,000	184,087	18.41%
			Maui Lani #6	5229-05	134,907,000	368,598	36.86%
			Maui Lani #7	5229-06	195,448,000	534,011	53.40%
	Kahului Subtotal					1,086,697	108.67%
	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	23,216,000	63,432	0.91%
Koolau	Haiku	27					
			Kaupakalua	5317-01	210,679,000	575,626	2.13%
			Haiku	5419-01	90,007,000	245,921	0.91%
	Haiku Subtotal					821,546	3.04%
	Honopou	25					
	Waiakamoi	40					
	Keanae	83					
			Keanae 1	5108-01	18,257,000	49,883	0.06%
			Keanae2	5108-02	5,907,000	16,139	0.02%
	Keanae Subtotal					66,022	0.08%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 7/31/16	% Sustainable Yield
Hana	Kuhiwa	14					
	Kawaipapa	48					
			Hamoia 1	4300-02	13,501,000	36,888	0.08%
			Hamoia 2	4300-03	82,179,000	224,533	0.47%
			Wakiu B	4600-03	80,663,000	220,391	0.46%
			Wakiu C	4600-04	0	0	0.00%
	Kawaipapa Subtotal					481,811	1.00%
	Waihoi	18					
	Kipahulu	42					
Kahikinui	Kaupo	16					
	Nakula	7					
	Lualailua	11					
Lahaina	Honolua	8					
			Napili A	5838-01	84,843,000	231,811	2.90%
			Napili B	5838-02	131,594,000	359,546	4.49%
			Napili C	5838-04	344,755,000	941,954	11.77%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	85,282,000	233,011	2.91%
	Honolua Subtotal					1,766,322	22.08%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	23,938,000	65,404	0.93%
			Kanaha 2	5339-04	19,535,000	53,374	0.76%
			Waipuka 1	5339-01	38,750,000	105,874	1.51%
			Waipuka 2	5339-02	37,241,000	101,751	1.45%
	Launiupoko Subtotal					326,404	4.66%
	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 7/31/16	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	199,733,000	545,719	10.91%	10.91%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						545,719	10.91%	10.91%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	46,275,000	126,434	2.53%	2.53%
	Kawela Subtotal						126,434	2.53%	2.53%
	Ualapue	8	8						
	Ualapue Subtotal			Ualapue	0449-01	77,453,000	211,620	2.65%	2.65%
							211,620	2.65%	2.65%
	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						

