

MICHAEL P. VICTORINO
Mayor

JEFFREY T. PEARSON, P.E.
Director

HELENE KAU
Deputy Director



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

October 8, 2019

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Honorable Michael P. Victorino,
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

For transmittal to:

Honorable Kelly T. King, Chair
and Members of the Maui County Council
200 South High Street
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL


Mayor
10/8/19
Date

Dear Chair King 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 2019.

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. 7834.

Sincerely,



JEFFREY T. PEARSON, P.E.
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 19-415

"By Water All Things Find Life"

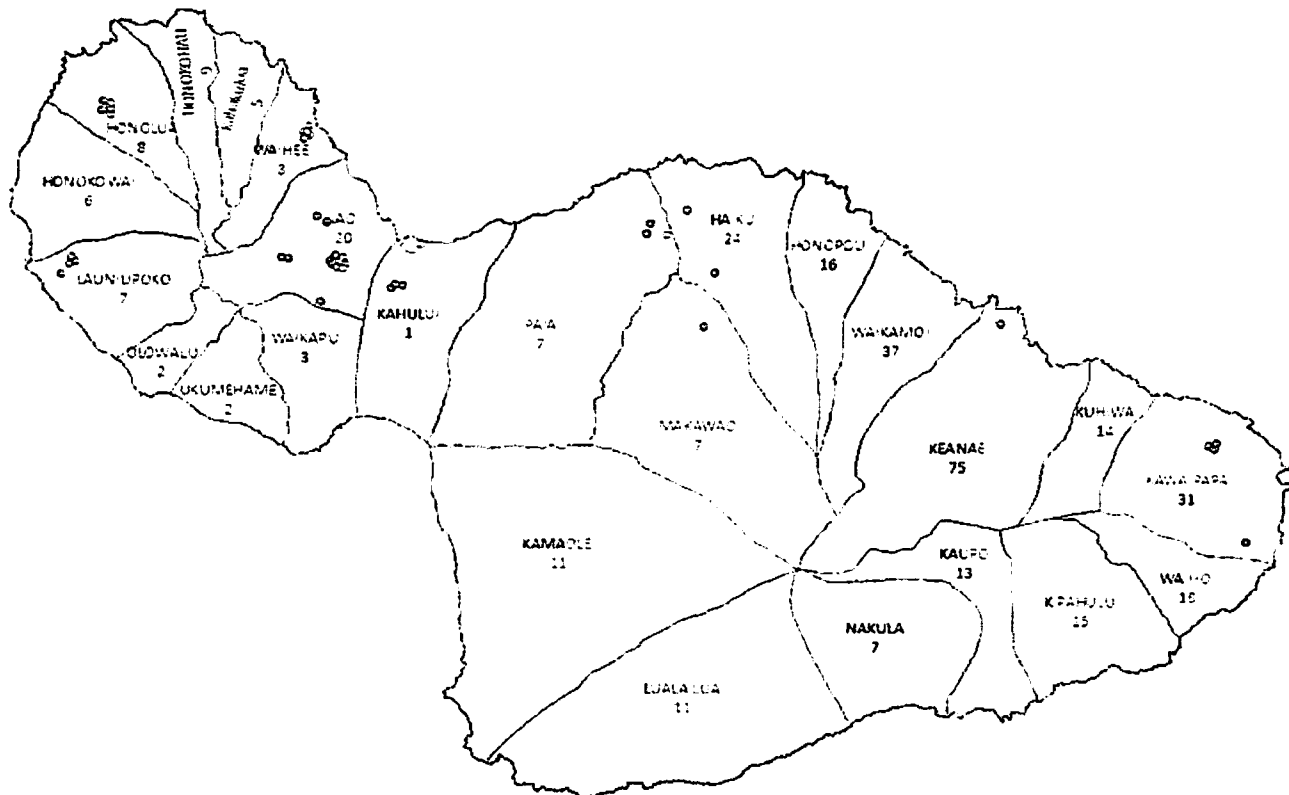
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Current Year	Last 12 Months
<i>Central</i>														
Mokuhsu 501	13,895	2,129	53	1,848	1,260	4,188	5,969	8,196	8,507	18,294	16,097	9,895	74,253	90,329
Mokuhsu 503	79,107	72,752	71,350	72,937	51,824	84,533	103,009	99,817	102,934	113,249	82,568	67,880	778,751	1,001,960
Waihee 577	59,391	71,434	56,720	48,468	38,573	72,635	54,788	58,615	67,567	75,309	72,408	74,780	563,142	750,686
Waihee 578	51,837	59,549	49,091	42,500	40,065	65,783	56,816	56,001	66,120	74,647	68,580	71,701	542,244	702,721
Waihee 579	107,822	86,195	105,339	121,523	74,522	82,562	119,714	118,804	120,350	131,591	122,067	109,609	1,000,540	1,299,896
Waiohu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiohu Hts 515	33,798	30,896	31,501	33,365	27,396	32,916	35,934	37,934	39,969	42,148	40,529	39,660	329,850	426,045
lao	7,151	21,686	48,968	39,308	39,383	37,290	38,485	37,488	48,710	56,661	52,578	54,068	403,970	481,775
Waikapu	36,210	34,088	33,777	34,938	20,597	0	0	0	0	0	0	0	55,535	159,609
Wailuku 1	48,326	12,662	12,061	6,217	12,085	4,821	2,416	20,803	24,719	10,521	25,622	36,000	143,204	216,252
Wailuku 2	65,108	65,153	65,200	65,246	65,288	65,334	65,379	65,420	65,471	65,518	65,564	65,609	588,835	784,296
DAILY AVERAGE	16,214	15,218	15,292	15,045	13,250	14,518	16,084	16,222	16,145	18,966	17,613	17,640	16,411	16,202
<i>Kepaniwai 511</i>														
lao Tunnel	48,854	47,702	49,273	49,230	44,150	49,110	47,672	49,045	48,108	49,339	49,182	48,538	434,375	580,205
DAILY AVERAGE	2,296	2,310	2,307	2,308	2,274	2,304	2,309	2,302	2,324	2,310	2,306	2,328	20,765	2,307
<i>N. Waihee #1</i>														
N. Waihee #1	22,767	23,275	21,441	21,788	18,845	21,979	21,500	21,588	21,633	22,368	11,494	0	161,191	228,674
N. Waihee #2	26,328	26,981	23,103	25,760	22,066	26,498	26,815	26,815	25,480	27,203	20,848	20,848	228,724	305,136
Kanoe #1	17,911	17,401	7,570	14,356	10,294	14,943	16,436	17,116	15,886	21,818	21,979	33,380	166,209	209,091
Kanoe #2	18,693	18,526	29,514	19,443	16,543	19,401	19,113	19,479	19,350	20,237	21,819	25,892	180,275	247,008
Kupaa	37,420	32,065	48,741	39,263	27,014	42,390	41,558	39,849	41,738	44,486	42,594	45,711	364,595	482,821
DAILY AVERAGE	3,972	3,942	4,205	3,891	3,384	4,054	4,170	3,995	4,137	4,387	4,035	4,184	36,247	4,035
<i>Maui Lani #5</i>														
Maui Lani #5	5,920	5,734	5,964	5,969	8,526	3,476	8,013	5,756	5,436	5,932	6,223	2,959	50,289	67,907
Maui Lani #6	11,326	11,009	11,376	11,368	16,704	16,337	11,181	11,306	11,011	11,240	11,992	11,574	112,712	146,423
Maui Lani #7	18,688	16,197	16,753	16,828	11,848	14,388	16,011	16,331	16,123	16,521	17,067	10,206	141,381	191,020
DAILY AVERAGE	1,095	1,098	1,100	1,102	1,324	1,103	1,107	1,077	1,086	1,087	1,138	1,027	1,115	1,111
<i>UpCountry</i>														
Haiku	8,131	7,743	7,728	8,412	7,916	7,592	8,043	8,727	9,753	11,113	9,554	9,210	80,318	103,920
H Peko #1	0	0	0	0	0	0	0	0	0	17	210	0	227	227
H Peko #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kaupakalua	15,359	16,366	22,750	15,909	14,007	15,404	15,193	17,034	19,509	20,460	18,370	17,321	153,207	207,682
Pookala	133	23	121	265	236	84	39	93	5,120	10,846	1,468	79	18,229	18,506
DAILY AVERAGE	762	804	987	793	791	745	776	834	1,146	1,369	955	887	923	905
<i>Lehaina</i>														
Kanaha 575	1,992	1,598	757	4,116	635	1,421	2,546	3,670	8,256	8,739	9,064	4,456	47,902	47,249
Kanaha 576	1,253	16	75	266	239	539	685	1,178	201	263	1,499	5,937	10,807	12,150
Waipuka 559	730	58	1,183	1,514	241	1,047	1,437	719	6,677	6,851	7,083	9,034	34,603	36,574
Waipuka 560	2,378	2,011	166	3,280	587	1,569	2,203	4,304	2,632	3,730	3,909	7,670	29,943	34,498
Napili A 569	3,305	1,159	420	1,127	438	1,274	1,150	1,010	1,945	2,714	822	166	10,647	15,531
Napili B 570	0	0	0	0	0	245	379	595	573	19,065	25,645	21,907	68,408	68,408
Napili C 571	40,136	37,515	40,443	40,053	37,522	41,518	40,854	42,341	39,988	31,309	10,834	4,593	289,012	407,106
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	9,102	3,636	6,002	6,703	1,575	6,901	12,006	11,829	14,384	4,668	17,289	28,313	103,728	122,527
DAILY AVERAGE	1,900	1,533	1,584	1,843	1,473	1,758	2,042	2,120	2,489	2,495	2,456	2,738	2,161	2,038
<i>Hana</i>														
Hamoia 597	1,543	5,033	418	4,484	1,447	13	1,290	5,217	5,510	3,604	41	1	21,006	28,000
Hamoia #2	4,058	2	5,678	1,222	3,463	5,936	4,353	306	47	3,284	4,808	4,933	28,350	38,088
Koanae #1	234	695	880	787	725	857	654	0	526	128	0	62	3,740	5,549
Koanae #2	589	1	0	1	0	1	269	239	394	838	805	793	3,340	3,930
Waiuku 550 B	3,546	2,293	2,029	1,932	2,038	2,286	2,296	2,505	2,764	2,892	2,766	2,825	22,364	30,232
Waiuku C	607	1	2	318	4	35	35	35	0	453	2,543	2,597	6,021	6,631
DAILY AVERAGE	341	267	291	282	274	294	297	270	308	342	354	374	311	308
<i>Malakal</i>														
Kawela 551	7	8	6	9	4	5	13	7	27	6,082	12	2,526	8,685	8,705
Kawela 552	4,437	4,724	4,424	4,301	3,404	4,347	4,483	4,675	4,024	1,336	4,540	589	31,899	45,284
Ualapuu 553	2,383	681	1,642	4,137	3,090	4,797	4,197	4,209	2,267	436	7,658	6,729	35,895	40,601
Ualapuu 554	2,543	4,480	3,899	1,196	1,243	3,628	2,386	3,402	6,136	7,258	29	1,904	27,181	38,104
Kualapuu	16,191	16,592	14,639	15,558	10,438	15,266	16,728	17,230	17,609	14,548	17,981	18,791	144,149	191,572
Waikalae Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	825	883	794	813	649	833	947	952	1,002	957	975	1,018	907	888

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 9/30/19	% Sustainable Yield	
Wailuku	Waikapu	3						
		Iao	20					
				Mokuhau 1	5330-09	90,329,000	247,477	1.24%
				Mokuhau 2	5330-10	0	0	0.00%
				Mokuhau 3	5330-11	1,001,960,000	2,745,096	13.73%
				Waihee 1	5431-02	750,686,000	2,056,674	10.28%
				Waihee 2	5431-03	702,721,000	1,925,263	9.63%
				Waihee 3	5431-04	1,299,896,000	3,561,359	17.81%
				Waiehu Heights 1	5430-01	0	0	0.00%
				Waiehu Heights 2	5430-02	426,045,000	1,167,247	5.84%
				Keponiwai	5332-05	261,715,000	717,027	3.59%
				Iao Tank Site Well	5230-02	481,775,000	1,319,932	6.60%
				Waikapu Well	5131-01	159,609,000	437,285	2.19%
				Wailuku 1	5230-04	216,252,000	592,471	2.96%
				Wailuku 2	5230-05	784,296,000	2,148,756	10.74%
	Iao Subtotal					16,918,586	84.59%	
	Waihee	8						
			North Waihee # 1	5631-02	228,674,000	626,504	7.83%	
			North Waihee # 2	5631-03	305,136,000	835,989	10.45%	
			Kanoo 1	5731-02	209,091,000	572,852	7.16%	
			Kanoo 2	5731-04	247,008,000	676,734	8.46%	
			Kupaa	5731-03	482,821,000	1,322,797	16.53%	
	Waihee Subtotal					4,034,877	50.44%	
	Kahakuloa	5						
Central	Kahului	1						
			Maui Lani #5	5229-04	67,907,000	186,047	18.60%	
			Maui Lani #6	5229-05	146,423,000	401,159	40.12%	
			Maui Lani #7	5229-06	191,028,000	523,364	52.34%	
	Kahului Subtotal				1,340,000	1,110,570	111.06%	
	Kamaole	11						
	Paia	7						
			Hamakuapoko 1	5420-02	227,000	622	0.01%	
			Hamakuapoko 2	5320-01	0	0	0.00%	
	Paia Subtotal					622	0.01%	
	Makawao	7						
			Pookela	5118-02	18,506,000	50,701	0.72%	
	Makawao Subtotal					50,701	0.72%	
Koolau	Haiku	24						
			Kaupakalua	5317-01	207,682,000	568,992	2.37%	
			Haiku	5419-01	103,920,000	284,712	1.19%	
		Haiku Subtotal			0	853,704	3.56%	
	Honopou	16						
	Waikamoi	37						
	Kearae	75						
			Kearae 1	5108-01	5,549,000	15,203	0.02%	
			Kearae 2	5108-02	3,930,000	10,767	0.01%	
	Kearae Subtotal					25,970	0.03%	
Hana	Kuhiwa	14						
	Kawalpapa	31						
			Hamo 1	4300-02	28,000,000	76,712	0.25%	
			Hamo 2	4300-03	38,088,000	104,351	0.34%	

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 9/30/19	% Sustainable Yield
			Waiuku B	4600-03	30,232,000	82,827	0.27%
			Waiuku C	4600-04	6,631,000	18,167	0.06%
	Kaiaipapa Subtotal					282,058	0.91%
	Waihoi	18					
	Kipahulu	15					
Kahikinui	Kaupo	13					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	15,531,000	42,551	0.53%
			Napili B	5838-02	68,408,000	187,419	2.34%
			Napili C	5838-04	407,106,000	1,115,359	13.94%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	122,527,000	335,690	4.20%
	Honolua Subtotal					1,681,019	21.01%
	Honokowai	6					
	Launupoko	7					
			Kanaha 1	5339-03	47,249,000	129,449	1.85%
			Kanaha 2	5339-04	12,150,000	33,288	0.48%
			Waipuka 1	5339-01	36,574,000	100,203	1.43%
			Waipuka 2	5339-02	34,498,000	94,515	1.35%
	Launupoko Subtotal					357,455	5.11%
	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 9/30/19	Sustainable Yield - % DWS	% DY MWWGR
West	Kaluakoi	2	2						
	Punakou	2	2						
Central	Hoolohua	2	2						
	Manawairui	2	2						
	Kualapuu	5	5	Kualapuu	0801-03	191,572,000	524,855	10.50%	10.50%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						524,855	10.50%	10.50%
Southeast	Kamiloloa	3	3						
	Kawela	5	5	Kawela	0457-01	53,989,000	147,915	2.96%	2.96%
				Kawela Subtotal			147,915	2.96%	2.96%
	Ualapue	8	8						
				Ualapue	0449-01	78,705,000	215,630	2.70%	2.70%
	Ualapue Subtotal						215,630	2.70%	2.70%
	Wailua	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					

