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MICHAEL P. VICTORINO
Mayor
JEFFREY T. PEARSON, P.E.
Director
HELENE KAU
Deputy Director

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793
www.mauewater.org
January 14, 2020

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COUNTY CLERK

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

APPROVED FOR TRANSMITTAL

Michael P. Victorino

Mayor
1/14/19
Date

For transmittal to:

Honorable Alice Lee, Chair
and Members of the Maui County Council
200 South High Street
Wailuku, Hawaii 96793

Dear Chair Lee 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 December 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. 20-38

"By Water All Things Find Life"

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

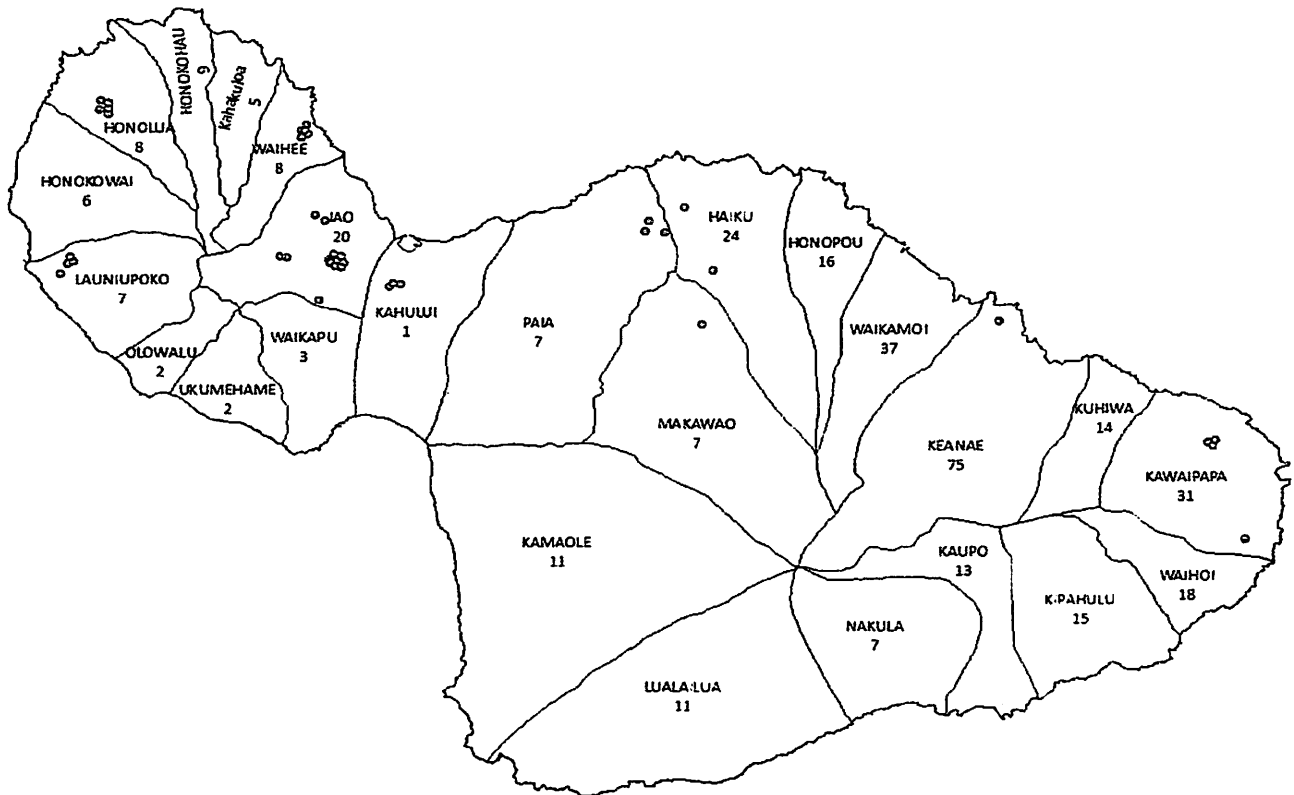
WELL NAME	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Current Year	Last 12 Months
<i>Central</i>														
Mokuhau 501	1,848	1,260	4,186	5,969	8,196	8,507	18,294	16,097	9,895	15,195	4,790	9,335	103,573	103,573
Mokuhau 503	72,937	51,824	84,533	103,009	99,817	102,934	113,249	82,568	67,880	62,437	53,546	57,053	951,787	951,787
Waiheo 577	48,468	38,573	72,635	54,788	58,615	67,567	75,309	72,408	74,780	75,771	81,752	95,203	815,868	815,868
Waiheo 578	42,530	40,065	65,783	56,816	56,001	66,120	74,647	68,580	71,701	71,785	55,787	0	669,816	669,816
Waiheo 579	121,523	74,522	82,562	119,714	118,604	120,350	131,591	122,067	109,609	122,163	109,398	107,541	1,339,642	1,339,642
Waiehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Waiehu Hts 515	33,365	27,396	32,916	35,934	37,934	39,969	42,148	40,529	39,680	41,071	37,060	33,858	441,839	441,839
Iao	39,308	39,383	37,290	38,485	37,486	48,710	56,661	52,578	54,068	15,908	18,386	21,809	460,073	460,073
Waikapu	34,938	20,597	0	0	0	0	0	0	0	68	23,060	28,503	107,166	107,166
Wailuku 1	6,217	12,085	4,821	2,416	20,803	24,719	10,521	25,622	36,000	66,036	50,102	14,930	274,272	274,272
Wailuku 2	65,246	65,288	65,334	65,379	65,426	65,471	65,518	65,564	65,609	65,656	65,701	65,747	785,939	785,939
DAILY AVERAGE	15,045	13,250	14,518	16,084	16,222	18,145	18,966	17,613	17,640	17,293	16,653	13,999	16,301	16,301
<i>Iao Tunnel</i>														
Kepaniwai 511	22,320	19,525	22,320	21,600	22,311	21,600	22,259	22,315	21,308	21,685	21,600	22,316	261,158	261,158
Iao Tunnel	49,230	44,150	49,110	47,672	49,045	48,108	49,339	49,182	48,538	50,327	48,440	49,904	583,046	583,046
DAILY AVERAGE	2,308	2,274	2,304	2,309	2,302	2,324	2,310	2,308	2,328	2,323	2,335	2,330	27,752	2,313
<i>N. Waiheo</i>														
N. Waiheo #1	21,788	18,845	21,979	21,500	21,586	21,633	22,366	11,494	0	0	0	0	161,191	161,191
N. Waiheo #2	25,760	22,066	26,965	26,498	26,815	25,490	27,080	27,203	20,848	15,406	19,584	35,180	298,894	298,894
Kanoa #1	14,356	10,294	14,943	16,436	17,118	15,888	21,818	21,979	33,380	31,848	30,389	32,066	260,310	260,310
Kanoa #2	19,443	16,543	19,401	19,113	18,479	19,350	20,237	21,819	25,892	27,914	31,250	29,896	269,335	269,335
Kupaa	39,263	27,014	42,390	42,594	41,550	39,849	41,738	44,486	42,594	45,711	51,467	48,585	48,524	513,171
DAILY AVERAGE	3,891	3,384	4,054	4,170	3,995	4,137	4,387	4,035	4,194	4,078	4,327	4,699	49,351	4,118
<i>Maui Lani</i>														
Maui Lani #5	5,969	8,526	3,476	6,013	5,756	5,436	5,932	6,223	2,959	1,349	663	40	52,341	52,341
Maui Lani #6	11,368	16,704	16,337	11,181	11,306	11,011	11,240	11,992	11,574	11,295	10,980	11,357	146,344	146,344
Maui Lani #7	16,828	11,848	14,388	16,011	16,331	16,123	16,521	17,067	16,266	16,736	16,213	16,758	191,088	191,088
DAILY AVERAGE	1,102	1,324	1,103	1,107	1,077	1,086	1,087	1,138	1,027	948	929	908	1,068	1,068
<i>UpCountry</i>														
Haiku	8,412	7,916	7,592	8,043	8,727	9,753	11,113	9,554	9,210	9,294	8,881	8,479	106,952	106,952
H' Poko #1	0	0	0	0	0	0	17	210	0	0	134	234	595	595
H' Poko #2	0	0	0	0	0	0	0	0	0	0	0	214	214	214
Kaupakalua	15,909	14,007	15,404	15,193	17,034	19,509	20,460	18,370	17,321	16,906	16,986	16,951	204,050	204,050
Pookela	265	236	84	39	93	5,120	10,846	1,468	79	460	18,891	32,102	69,782	69,782
DAILY AVERAGE	793	791	745	776	834	1,146	1,369	955	887	860	1,499	1,870	1,045	1,045
<i>Lahaina</i>														
Kanaha 575	4,116	635	1,421	2,546	3,670	8,256	8,739	9,064	4,456	86	4,191	5,599	52,778	52,778
Kanaha 576	266	239	539	685	1,178	201	263	1,499	5,937	8,224	6,449	4,816	30,296	30,296
Waipuka 559	1,514	241	1,047	1,437	719	6,677	6,851	7,083	9,034	9,002	9,173	8,425	61,203	61,203
Waipuka 560	3,280	587	1,569	2,203	4,364	2,632	3,730	3,909	7,670	8,064	9,108	8,935	56,050	56,050
Napili A 569	1,127	438	1,274	1,150	1,010	1,945	2,714	822	166	1,510	1,536	542	14,235	14,235
Napili B 570	0	0	245	379	595	573	19,065	25,845	21,907	15,438	5,092	2,096	91,034	91,034
Napili C 571	40,053	37,522	41,518	40,854	42,341	39,988	31,309	10,834	4,593	18,269	31,897	41,545	380,723	380,723
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	6,763	1,575	6,801	12,006	11,829	14,384	4,868	17,289	28,313	27,345	18,120	4,798	153,991	153,991
DAILY AVERAGE	1,843	1,473	1,758	2,042	2,120	2,489	2,495	2,456	2,736	2,837	2,852	2,476	2,302	2,302
<i>Hana</i>														
Hamoia 597	4,484	1,447	13	1,290	5,217	5,510	3,004	41	1	2	1	1	21,010	21,010
Hamoia #2	1,222	3,463	5,936	4,353	306	47	3,284	4,808	4,933	5,765	7,214	7,238	48,567	48,567
Koanac #1	787	725	857	654	0	526	128	0	62	12	0	383	4,135	4,135
Koanac #2	1	0	1	269	239	394	838	805	793	812	873	452	5,477	5,477
Wakiu 550 B	1,932	2,038	2,286	2,296	2,565	2,764	2,892	2,825	3,458	1,412	1,412	1	27,235	27,235
Wakiu C	318	4	35	35	35	0	453	2,543	2,597	1,543	1,150	3,020	11,734	11,734
DAILY AVERAGE	282	274	294	297	270	308	342	354	374	374	355	358	324	324
<i>Molokai</i>														
Kawela 551	9	4	5	13	7	27	6,082	12	2,528	6,619	5,091	7,690	28,085	28,085
Kawela 552	4,301	3,404	4,347	4,483	4,675	4,024	1,336	4,540	589	5	4	5	31,713	31,713
Ualapue 553	4,137	3,090	2,573	4,797	4,209	2,267	436	7,858	6,729	4,651	4,689	5,630	50,865	50,865
Ualapue 554	1,196	1,243	3,628	2,386	3,402	6,136	7,258	29	1,904	2,082	1,830	8	31,101	31,101
Kualapuu	15,558	10,438	15,266	16,728	17,230	17,609	14,548	17,981	18,791	9,156	10,299	9,402	173,006	173,006
Waikalao Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	813	649	833	947	952	1,002	957	975	1,018	726	730	733	862	862

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 12/31/19	% Sustainable Yield	
Waituku	Waikapu	3						
		lao	20					
				Mokuhau 1	5330-09	103,573,000	283,762	1.42%
				Mokuhau 2	5330-10	0	0	0.00%
				Mokuhau 3	5330-11	951,787,000	2,607,636	13.04%
				Waihee 1	5431-02	815,868,000	2,235,255	11.18%
				Waihee 2	5431-03	669,816,000	1,835,112	9.18%
				Waihee 3	5431-04	1,339,642,000	3,670,252	18.35%
				Waiehu Heights 1	5430-01	0	0	0.00%
				Waiehu Heights 2	5430-02	441,839,000	1,210,518	6.05%
		0		Keponiwai	5332-05	261,158,000	715,501	3.58%
				lao Tank Site Well	5230-02	460,073,000	1,260,474	6.30%
				Waikapu Well	5131-01	107,166,000	293,605	1.47%
			Wailuku 1	5230-04	274,272,000	751,430	3.76%	
			Wailuku 2	5230-05	785,939,000	2,153,258	10.77%	
	lao Subtotal					17,016,803	85.08%	
	Waihee	8						
			North Waihee # 1	5631-02	161,191,000	441,619	5.52%	
			North Waihee # 2	5631-03	298,894,000	818,888	10.24%	
			Kanoa 1	5731-02	260,310,000	713,178	8.91%	
			Kanoa 2	5731-04	269,335,000	737,904	9.22%	
			Kupaa	5731-03	513,171,000	1,405,948	17.57%	
	Waihee Subtotal					4,117,537	51.47%	
	Kahakuloa	5						
Central	Kahului	1						
			Maui Lani #5	5229-04	52,341,000	143,400	14.34%	
			Maui Lani #6	5229-05	146,344,000	400,942	40.09%	
			Maui Lani #7	5229-06	191,088,000	523,529	52.35%	
	Kahului Subtotal					1,067,871	106.79%	
	Kamaole	11						
	Paia	7						
			Hamakuapoko 1	5420-02	595,000	1,630	0.02%	
			Hamakuapoko 2	5320-01	214,000	586	0.01%	
	Paia Subtotal					2,216	0.03%	
	Makawao	7						
			Pookela	5118-02	69,782,000	191,184	2.73%	
	Makawao Subtotal					191,184	2.73%	
Koolau	Haiku	24						
			Kaupakalua	5317-01	204,050,000	559,041	2.33%	
			Haiku	5419-01	106,952,000	293,019	1.22%	
	Haiku Subtotal					852,060	3.55%	
	Honopou	16						
	Waikamoi	37						
	Keanae	75						
			Keanae 1	5108-01	4,135,000	11,329	0.02%	
			Keanae 2	5108-02	5,477,000	15,005	0.02%	
	Keanae Subtotal					26,334	0.04%	
Hana	Kuhiwa	14						
	Kawaipapa	31						
			Hamoia 1	4300-02	21,010,000	57,562	0.19%	
			Hamoia 2	4300-03	48,567,000	133,060	0.43%	

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 12/31/19	% Sustainable Yield
			Waiuku B	4600-03	27,235,000	74,616	0.24%
			Waiuku C	4600-04	11,734,000	32,148	0.10%
	Kawaipapa Subtotal					297,386	0.96%
	Waihoi	18					
	Kipahulu	15					
Kahikinui	Kaupo	13					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	14,235,000	39,000	0.49%
			Napili B	5838-02	91,034,000	249,408	3.12%
			Napili C	5838-04	380,723,000	1,043,077	13.04%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	153,991,000	421,893	5.27%
	Honolua Subtotal					1,753,378	21.92%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	52,778,000	144,597	2.07%
			Kanaha 2	5339-04	30,296,000	83,003	1.19%
			Waipuka 1	5339-01	61,203,000	167,679	2.40%
			Waipuka 2	5339-02	56,050,000	153,562	2.19%
	Launiupoko Subtotal					548,841	7.84%
	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 12/31/19	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	173,006,000	473,989	9.48%	9.48%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
Kualapuu Subtotal						473,989	9.48%	9.48%	
Southeast	Kamiloloa	3	3						
	Kawela	5	5	Kawela	0457-01	59,798,000	163,830	3.28%	3.28%
				Kawela Subtotal				163,830	3.28%
	Ualapue	8	8						
Ualapue Subtotal				Ualapue	0449-01	81,966,000	224,564	2.81%	2.81%
Northeast	Waialua	6	8						
	Kalaupapa	2	0						
	Kahanui	3	0						
	Waikolu	5	4.5						
	Haupu	2	0						
	Pelekunu	9	0						
	Waitau	15	0						
	Halawa	8	0						

