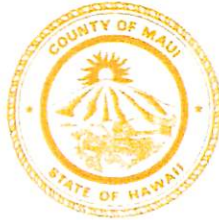


MICHAEL P. VICTORINO
Mayor

JEFFREY T. PEARSON, P.E.
Director

HELENE KAU
Deputy Director



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OFFICE OF THE MAYOR

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

November 7, 2019

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

APPROVED FOR TRANSMITTAL

Michael P. Victorino 11/13/19
Mayor Date

For transmittal to:

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

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 October 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

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

Attachments

COUNTY COMMUNICATION NO. 19-472

"By Water All Things Find Life"

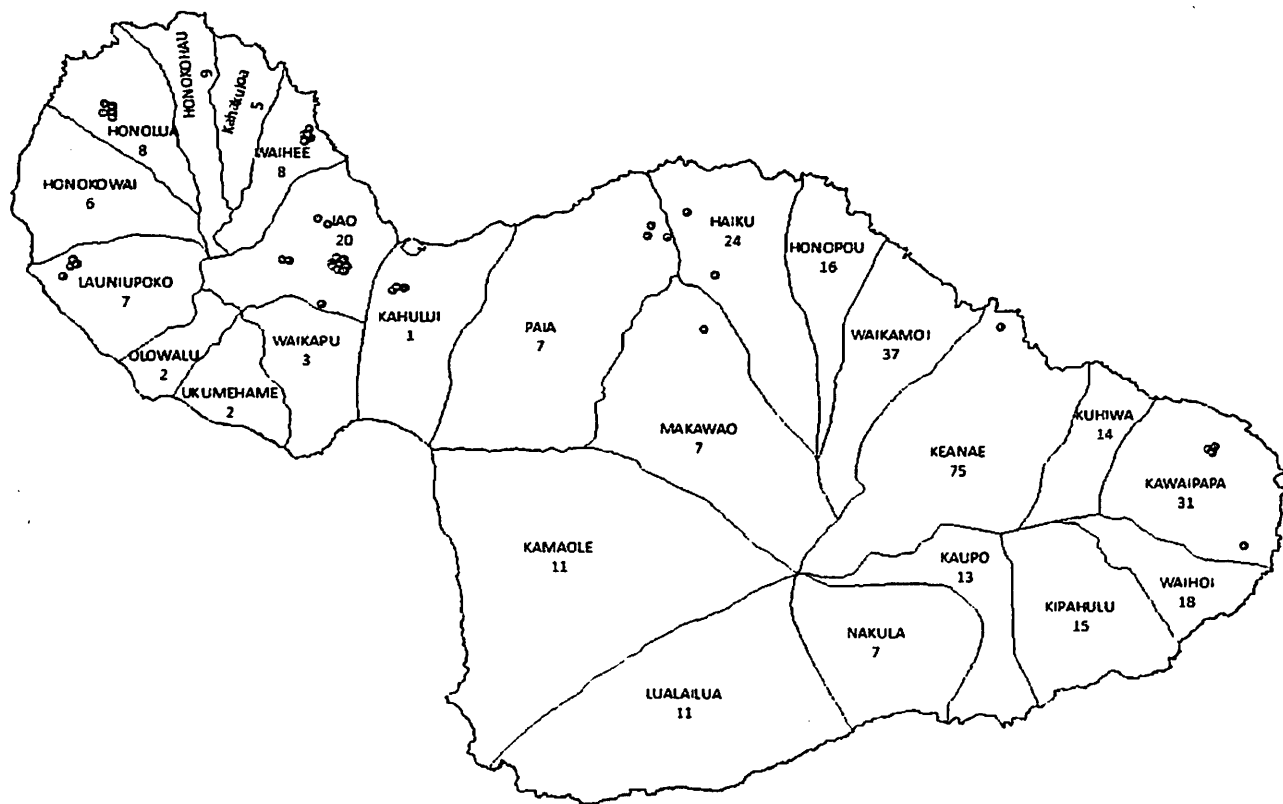
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Current Year	Last 12 Months
Central														
Mokuhanu 501	2,129	53	1,848	1,260	4,186	5,969	8,196	8,507	18,294	16,097	9,895	15,195	89,448	91,629
Mokuhanu 503	72,752	71,350	72,937	51,824	84,533	103,009	99,817	102,934	113,249	82,568	67,880	82,437	841,188	985,290
Waihoee 577	71,434	56,720	48,468	38,573	72,635	54,788	58,615	67,567	75,309	72,408	74,780	75,771	638,913	767,066
Waihoee 578	59,549	49,091	42,530	40,065	65,783	56,816	56,001	66,120	74,847	68,580	71,701	71,785	614,029	722,669
Waihoee 579	86,195	105,339	121,523	74,522	82,562	119,714	118,604	120,350	131,591	122,067	109,609	122,163	1,122,703	1,314,237
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	30,896	31,501	33,365	27,396	32,916	35,934	37,934	39,969	42,148	40,529	39,660	41,071	370,921	433,319
Iao	21,686	48,968	39,308	39,383	37,290	38,485	37,486	48,710	56,861	52,578	54,068	15,908	419,878	490,532
Waikapu	34,088	33,777	34,938	20,597	0	0	0	0	0	0	0	68	55,603	123,467
Wailuku 1	12,662	12,061	6,217	12,085	4,821	2,416	20,803	24,719	10,521	25,622	36,000	66,036	209,240	233,963
Wailuku 2	65,153	65,200	65,246	65,288	65,334	65,379	65,426	65,471	65,518	65,564	65,609	65,656	654,491	784,844
DAILY AVERAGE	15,218	15,292	15,045	13,250	14,518	16,084	16,222	16,145	18,866	17,613	17,640	17,293	16,591	16,293
Kopaniwai 511	21,600	22,238	22,320	19,525	22,320	21,600	22,311	21,600	22,259	22,315	21,308	21,885	217,242	261,080
Iao Tunnel	47,702	49,273	49,230	44,150	49,110	47,872	49,045	48,108	49,339	49,182	48,538	50,327	484,702	581,678
DAILY AVERAGE	2,310	2,307	2,308	2,274	2,304	2,309	2,302	2,324	2,310	2,306	2,328	2,323	23,088	2,309
N. Waihoee #1	23,275	21,441	21,788	18,845	21,979	21,500	21,586	21,633	22,368	11,494	0	0	161,191	205,907
N. Waihoee #2	26,981	23,103	25,760	22,066	26,965	26,498	26,815	25,490	27,080	27,203	20,848	15,406	244,130	294,214
Kanoa #1	17,401	7,570	14,356	10,294	14,943	16,436	17,118	15,888	21,818	21,979	33,380	31,646	197,855	222,826
Kanoa #2	18,526	29,514	19,443	16,543	19,401	19,113	18,479	19,350	20,237	21,819	25,892	27,914	208,189	256,229
Kupaa	32,065	48,741	39,263	27,014	42,390	41,550	39,849	41,738	44,468	42,594	45,711	51,467	416,062	496,868
DAILY AVERAGE	3,942	4,205	3,891	3,384	4,054	4,170	3,995	4,137	4,387	4,035	4,194	4,078	40,325	4,044
Maui Lani #5	5,734	5,964	5,969	8,526	3,476	6,013	5,756	5,436	5,932	6,223	2,959	1,349	51,638	63,336
Maui Lani #6	11,009	11,376	11,368	16,704	16,337	11,181	11,306	11,011	11,240	11,992	11,574	11,295	124,007	146,393
Maui Lani #7	16,197	16,753	16,828	11,848	14,388	16,011	16,331	16,123	16,521	17,067	16,266	16,736	158,117	191,066
DAILY AVERAGE	1,098	1,100	1,102	1,324	1,103	1,107	1,077	1,086	1,087	1,138	1,027	948	1,098	1,098
UpCountry														
Haiku	7,743	7,728	8,412	7,916	7,592	8,043	8,727	9,753	11,113	9,554	9,210	9,294	89,612	105,083
H' Poko #1	0	0	0	0	0	0	0	0	17	210	0	0	227	227
H' Poko #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kaupakahu	16,366	22,750	15,909	14,007	15,404	15,193	17,034	19,509	20,460	18,370	17,321	16,906	170,113	209,229
Pookela	23	121	265	236	84	39	93	5,120	10,846	1,468	79	460	18,689	18,833
DAILY AVERAGE	804	987	793	791	745	776	834	1,146	1,369	955	887	860	917	913
Lahaina														
Kanaha 575	1,598	757	4,116	635	1,421	2,546	3,670	8,256	8,739	9,064	4,456	86	42,988	45,343
Kanaha 576	16	75	266	239	539	685	1,178	201	263	1,499	5,937	8,224	19,031	19,121
Waipuka 559	58	1,183	1,514	241	1,047	1,437	719	6,677	6,851	7,083	9,034	9,002	43,605	44,846
Waipuka 560	2,011	166	3,280	587	1,569	2,203	4,364	2,632	3,730	3,909	7,670	8,064	38,007	40,184
Napili A 569	1,159	420	1,127	438	1,274	1,150	1,945	1,945	2,714	822	166	1,510	12,157	13,736
Napili B 570	0	0	0	0	245	379	595	573	19,065	25,645	21,907	15,438	83,846	83,846
Napili C 571	37,515	40,443	40,053	37,522	41,518	40,854	42,341	39,988	31,309	10,834	4,593	18,269	307,281	385,239
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	3,636	6,062	6,763	1,575	6,901	12,006	11,829	14,384	4,668	17,289	28,313	27,345	131,073	140,770
DAILY AVERAGE	1,533	1,684	1,843	1,473	1,758	2,042	2,120	2,489	2,495	2,456	2,738	2,837	2,230	2,118
Hana														
Hamao 597	5,033	418	4,484	1,447	13	1,290	5,217	5,510	3,004	41	1	2	21,008	26,459
Hamao #2	2	5,679	1,222	3,463	5,936	4,353	306	47	3,284	4,808	4,933	5,765	34,115	39,795
Koanalo #1	695	880	787	725	857	654	0	526	128	0	62	12	3,752	5,327
Koanalo #2	1	0	1	0	1	269	239	394	838	805	793	812	4,152	4,153
Waihu 550 B	2,293	2,029	1,932	2,038	2,286	2,296	2,565	2,764	2,892	2,766	2,825	3,458	25,822	30,144
Waihu C	1	2	318	4	35	35	35	0	453	2,543	2,597	1,543	7,564	7,567
DAILY AVERAGE	267	291	282	274	294	297	270	308	342	354	374	374	317	311
Molokai														
Kawela 551	8	6	9	4	5	13	7	27	6,082	12	2,526	6,619	15,304	15,317
Kawela 552	4,724	4,424	4,301	3,404	4,347	4,483	4,675	4,024	1,336	4,540	589	5	31,704	40,852
Ualapue 553	681	1,642	4,137	3,090	2,573	4,797	4,209	2,267	436	7,658	6,729	4,851	40,546	42,869
Ualapue 554	4,480	3,899	1,196	1,243	3,628	2,386	3,402	6,136	7,258	29	1,904	2,082	29,263	37,643
Kualapuu	16,592	14,639	15,558	10,438	15,266	16,728	17,230	17,609	14,548	17,981	18,791	9,156	153,305	184,537
Waikale Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	883	794	813	649	833	947	952	1,002	957	975	1,018	726	889	880

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 10/31/19	% Sustainable Yield
Wailuku	Waikapu	3					
	lao	20					
			Mokuhaui 1	5330-09	91,629,000	251,038	1.26%
			Mokuhaui 2	5330-10	0	0	0.00%
			Mokuhaui 3	5330-11	985,290,000	2,699,425	13.50%
			Waihee 1	5431-02	767,066,000	2,101,551	10.51%
			Waihee 2	5431-03	722,669,000	1,979,915	9.90%
			Waihee 3	5431-04	1,314,237,000	3,600,649	18.00%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	433,319,000	1,187,175	5.94%
0			Kepaniwai	5332-05	261,080,000	715,288	3.58%
			lao Tank Site Well	5230-02	490,532,000	1,343,923	6.72%
			Waikapu Well	5131-01	123,467,000	338,266	1.69%
			Wailuku 1	5230-04	233,963,000	640,995	3.20%
			Wailuku 2	5230-05	784,844,000	2,150,258	10.75%
	lao Subtotal					17,008,482	85.04%
	Waihee	8					
			North Waihee # 1	5631-02	205,907,000	564,129	7.05%
			North Waihee # 2	5631-03	294,214,000	806,066	10.08%
			Kanoa 1	5731-02	222,826,000	610,482	7.63%
			Kanoa 2	5731-04	256,229,000	701,997	8.77%
			Kupaa	5731-03	496,868,000	1,361,282	17.02%
	Waihee Subtotal					4,043,956	50.55%
	Kahakuloa	5					
Central	Kahului	1					
			Maui Lani #5	5229-04	63,336,000	173,523	17.35%
			Maui Lani #6	5229-05	146,393,000	401,077	40.11%
			Maui Lani #7	5229-06	191,066,000	523,468	52.35%
	Kahului Subtotal				1,340,000	1,098,068	109.81%
	Kamaole	11					
	Pala	7					
			Hamakuapoko 1	5420-02	227,000	622	0.01%
			Hamakuapoko 2	5320-01	0	0	0.00%
	Pala Subtotal					622	0.01%
	Makawao	7					
			Pookela	5118-02	18,833,000	51,597	0.74%
	Makawao Subtotal					51,597	0.74%
Koolau	Haiku	24					
			Kaupakalua	5317-01	209,229,000	573,230	2.39%
			Haiku	5419-01	105,083,000	287,899	1.20%
	Haiku Subtotal				0	861,129	3.59%
	Honopou	16					
	Waikamoi	37					
	Keanae	75					
			Keanae 1	5108-01	5,327,000	14,595	0.02%
			Keanae 2	5108-02	4,153,000	11,378	0.02%
	Keanae Subtotal					25,973	0.03%
Hana	Kuhiwa	14					
	Kawailapa	31					
			Hamoia 1	4300-02	26,459,000	72,490	0.23%
			Hamoia 2	4300-03	39,795,000	109,027	0.35%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 10/31/19	% Sustainable Yield
			Waiuku B	4600-03	30,144,000	82,586	0.27%
			Waiuku C	4600-04	7,567,000	20,732	0.07%
	Kaiaipapa Subtotal					284,836	0.92%
	Waihoi	18					
	Kipahulu	15					
Kahikinui	Kaupo	13					
	Nakula	7					
	Lualailua	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	13,736,000	37,633	0.47%
			Napili B	5838-02	83,846,000	229,715	2.87%
			Napili C	5838-04	385,239,000	1,055,449	13.19%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	140,770,000	385,671	4.82%
	Honolua Subtotal					1,708,468	21.36%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	45,343,000	124,227	1.77%
			Kanaha 2	5339-04	19,121,000	52,386	0.75%
			Waipuka 1	5339-01	44,846,000	122,866	1.76%
			Waipuka 2	5339-02	40,184,000	110,093	1.57%
	Launiupoko Subtotal					409,573	5.85%
	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 10/31/19	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	184,537,000	505,581	10.11%	10.11%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						505,581	10.11%	10.11%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	56,169,000	153,888	3.08%	3.08%
	Kawela Subtotal						153,888	3.08%	3.08%
	Ualapue	8	8						
				Ualapue	0449-01	80,512,000	220,581	2.76%	2.76%
	Ualapue Subtotal						220,581	2.76%	2.76%
	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						

