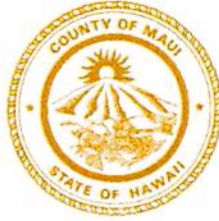


MICHAEL P. VICTORINO
Mayor

JEFFREY T. PEARSON, P.E.
Director

HELENE KAU
Deputy Director



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2019 DEC -9 AM 10:24

OFFICE OF THE MAYOR

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

December 9, 2019

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

APPROVED FOR TRANSMITTAL

Michael P. Victorino 12/9/19
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 November 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,

A handwritten signature in black ink, appearing to read "Jeffrey T. Pearson".

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

Attachments

COUNTY COMMUNICATION NO. 19-505

"By Water All Things Find Life"

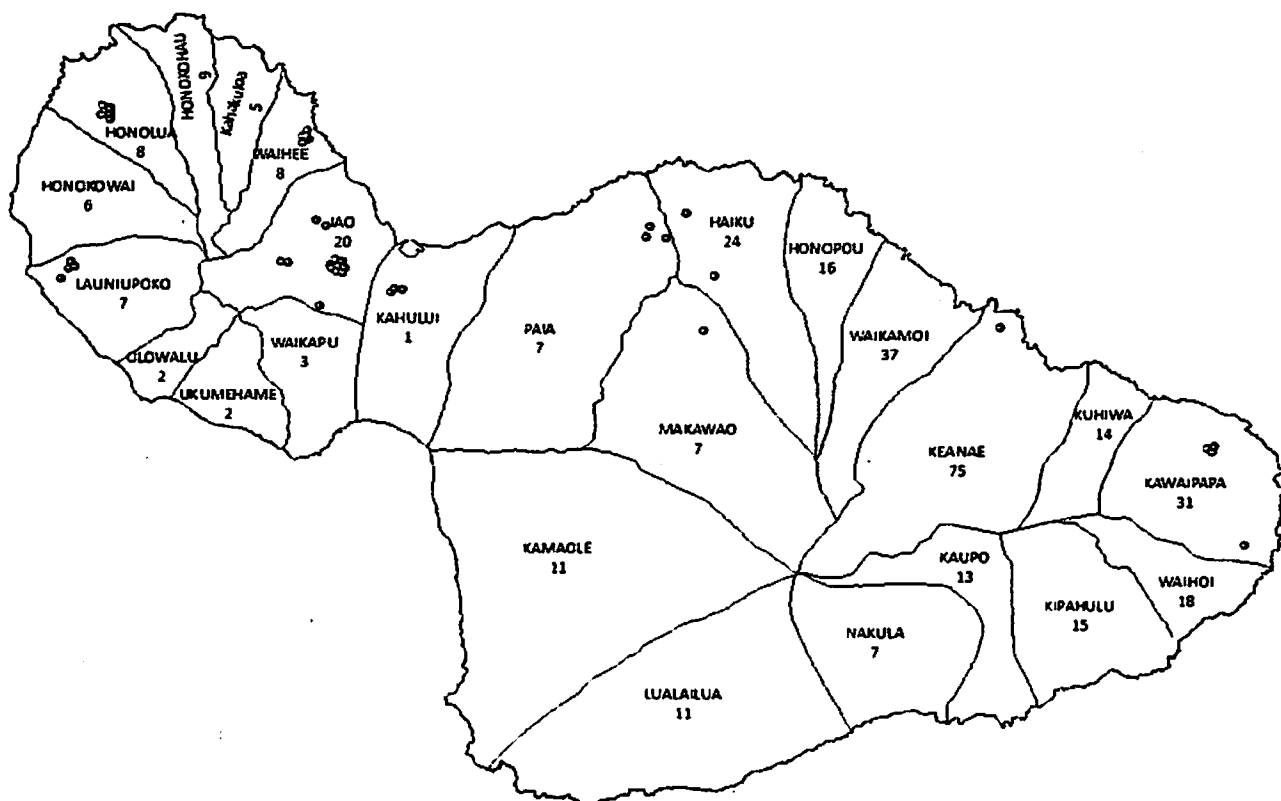
County of Maui
Dept. of Water Supply
Monthly Source Reports
(Gals X 1000)

WELL NAME	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Current Year	Last 12 Months
Central														
Mokuhanu 501	53	1,848	1,260	4,166	5,969	8,196	8,507	16,284	16,097	9,895	15,195	4,790	94,238	94,291
Mokuhanu 503	71,350	72,937	51,824	84,533	103,009	99,817	102,934	113,249	82,568	87,880	62,437	53,546	894,734	966,084
Waihee 577	56,720	48,498	38,573	72,635	54,788	58,815	87,567	75,309	72,408	74,780	75,771	81,752	720,665	777,385
Waihee 578	49,091	42,530	40,065	65,783	56,816	56,001	66,120	74,847	68,580	71,701	71,785	55,787	689,816	718,507
Waihee 579	105,339	121,523	74,522	82,562	119,714	118,604	120,350	131,591	122,067	109,609	122,163	109,389	1,232,101	1,337,440
Walehu Hts 514	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Walehu Hts 515	31,501	33,365	27,396	32,916	35,934	37,934	39,969	42,148	40,529	39,660	41,071	37,060	407,891	439,483
Iao	48,968	39,308	39,383	37,290	38,485	37,486	48,710	56,661	52,578	54,068	15,908	18,386	439,264	487,232
Waikapu	33,777	34,938	20,597	0	0	0	0	0	0	0	68	23,060	78,663	112,440
Waikuku 1	12,061	8,217	12,085	4,821	2,416	20,803	24,719	10,521	25,622	36,000	66,036	50,102	259,342	271,403
Waikuku 2	65,200	65,246	65,288	65,334	65,379	65,426	65,471	65,518	65,564	65,609	65,656	65,701	720,192	785,392
DAILY AVERAGE	15,292	15,045	13,250	14,518	16,084	16,222	16,145	18,566	17,613	17,640	17,293	16,653	16,616	16,411
Kepaniwai 511	22,238	22,320	19,525	22,320	21,600	22,311	21,600	22,259	22,315	21,368	21,685	21,600	238,842	261,080
Iao Tunnel	49,273	49,230	44,150	49,110	47,672	49,045	48,108	49,339	49,182	48,538	50,327	48,440	533,142	582,415
DAILY AVERAGE	2,307	2,308	2,274	2,304	2,309	2,302	2,324	2,310	2,386	2,328	2,323	2,335	25,423	2,311
North														
N. Waihee #1	21,441	21,788	18,845	21,979	21,500	21,586	21,633	22,366	11,494	0	0	0	161,191	182,632
N. Waihee #2	23,103	25,760	22,066	26,965	26,498	26,815	25,490	27,080	27,203	20,848	15,406	19,584	263,714	286,817
Kanoa #1	7,570	14,356	10,294	14,943	18,436	17,118	15,868	21,818	21,979	33,380	31,646	30,389	228,244	235,814
Kanoa #2	29,514	19,443	16,543	19,401	19,113	18,479	19,350	20,237	21,819	25,892	27,914	31,250	239,439	268,953
Kupaa	48,741	39,263	27,014	42,390	41,550	39,849	41,738	44,486	42,594	45,711	51,467	48,585	464,647	513,388
DAILY AVERAGE	4,205	3,891	3,384	4,054	4,170	3,995	4,137	4,387	4,035	4,194	4,078	4,327	44,652	4,076
Maui Lani #5	5,964	5,969	8,526	3,476	6,013	5,756	5,436	5,932	6,223	2,959	1,349	663	52,301	58,265
Maui Lani #6	11,376	11,368	16,704	16,337	11,181	11,306	11,614	11,240	11,992	11,574	11,295	10,980	134,987	148,363
Maui Lani #7	16,753	16,828	11,848	14,388	16,011	16,331	16,123	16,521	17,067	16,266	16,736	16,213	174,330	191,083
DAILY AVERAGE	1,100	1,102	1,324	1,103	1,107	1,077	1,086	1,087	1,138	1,027	948	929	1,083	1,084
UpCountry														
Haiku	7,728	8,412	7,916	7,592	8,043	8,727	9,753	11,113	9,554	9,210	9,284	8,861	99,473	106,201
H' Poko #1	0	0	0	0	0	0	0	17	210	0	0	134	361	361
H' Poko #2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Kaupakalua	22,750	15,909	14,007	15,404	15,193	17,034	19,509	20,460	18,370	17,321	16,906	16,988	187,099	209,849
Pookela	121	265	236	84	39	83	5,120	10,840	1,468	79	460	18,991	37,680	37,800
DAILY AVERAGE	987	793	791	745	776	834	1,146	1,369	955	887	860	1,499	869	970
Leleina														
Kanaha 575	757	4,118	635	1,421	2,546	3,670	8,256	8,739	9,064	4,456	86	4,191	47,179	47,936
Kanaha 576	75	266	239	539	685	1,178	201	263	1,499	5,937	8,224	8,449	25,460	25,554
Waipuka 569	1,183	1,514	241	1,047	1,437	719	6,677	6,851	7,083	9,002	9,173	9,173	53,961	53,961
Waipuka 560	166	3,280	587	1,569	2,203	4,364	2,632	3,730	3,809	7,670	8,064	9,108	47,115	47,281
Napili A 569	420	1,127	438	1,274	1,150	1,010	1,945	2,714	822	166	1,510	1,536	13,893	14,113
Napili B 570	0	0	0	245	379	595	573	19,065	25,645	21,907	15,438	5,092	88,938	88,938
Napili C 571	40,443	40,053	37,522	41,518	40,854	42,341	39,988	31,309	10,834	4,593	18,269	31,897	339,178	379,621
Honokahua A 572	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Honokahua B 573	6,062	6,763	1,575	6,901	12,006	11,829	14,384	4,668	17,289	28,313	27,345	18,120	149,193	155,255
DAILY AVERAGE	1,584	1,843	1,473	1,758	2,042	2,120	2,489	2,495	2,456	2,736	2,837	2,852	2,286	2,226
Hana														
Hamae 597	418	4,484	1,447	13	1,290	5,217	5,510	3,004	41	1	2	1	21,009	21,427
Hamae #2	5,678	1,222	3,463	5,936	4,353	306	47	3,284	4,808	4,933	5,765	7,214	41,329	47,008
Keanae #1	860	767	725	857	654	0	526	126	0	62	12	0	3,752	4,632
Keanae #2	0	1	0	1	269	239	394	638	805	793	812	873	5,025	5,026
Waikuu 550 B	2,029	1,932	2,038	2,266	2,266	2,565	2,764	2,892	2,766	2,825	3,458	1,412	27,234	29,263
Waikuu C	2	318	4	35	35	35	0	453	2,543	2,597	1,543	1,150	8,714	8,715
DAILY AVERAGE	291	282	274	294	297	270	308	342	354	374	374	355	321	318
Molokai														
Kawela 551	6	9	4	5	13	7	27	6,082	12	2,526	6,619	5,091	20,395	20,400
Kawela 552	4,424	4,301	3,404	4,347	4,483	4,675	4,024	1,336	4,540	589	5	4	31,708	36,132
Ualapue 553	1,642	4,137	3,090	2,573	4,797	4,209	2,267	436	7,658	6,729	4,651	4,689	45,235	46,877
Ualapue 554	3,699	1,196	1,243	3,628	2,386	3,402	6,136	7,258	29	1,904	2,082	1,830	31,093	34,993
Kualapuu	14,639	15,558	10,438	15,268	16,728	17,230	17,609	14,548	17,981	18,791	9,156	10,299	183,604	178,244
Waialeale Tunnel	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DAILY AVERAGE	794	813	649	833	947	952	1,002	957	975	1,018	726	730	874	866

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 11/30/19	% Sustainable Yield
Wailuku	Waikapu	3					
	Iao	20					
			Mokuhau 1	5330-09	94,291,000	258,332	1.29%
			Mokuhau 2	5330-10	0	0	0.00%
			Mokuhau 3	5330-11	966,084,000	2,646,805	13.23%
			Waihee 1	5431-02	777,385,000	2,129,822	10.65%
			Waihee 2	5431-03	718,807,000	1,969,608	9.85%
			Waihee 3	5431-04	1,337,440,000	3,664,219	18.32%
			Waiehu Heights 1	5430-01	0	0	0.00%
			Waiehu Heights 2	5430-02	439,483,000	1,204,063	6.02%
0			Kepaniwai	5332-05	261,080,000	715,288	3.58%
			Iao Tank Site Well	5230-02	487,232,000	1,334,882	6.67%
			Waikapu Well	5131-01	112,440,000	308,055	1.54%
			Wailuku 1	5230-04	271,403,000	743,570	3.72%
			Wailuku 2	5230-05	785,392,000	2,151,759	10.76%
	Iao Subtotal					17,126,403	85.63%
	Waihee	8					
			North Waihee # 1	5631-02	182,632,000	500,362	6.25%
			North Waihee # 2	5631-03	286,817,000	785,800	9.82%
			Kanoa 1	5731-02	235,814,000	646,066	8.08%
			Kanoa 2	5731-04	268,953,000	736,858	9.21%
			Kupaa	5731-03	513,388,000	1,406,542	17.58%
	Waihee Subtotal					4,075,627	50.95%
	Kahakuloa	5					
Central	Kahului	1					
			Maui Lani #5	5229-04	58,265,000	159,630	15.96%
			Maui Lani #6	5229-05	146,363,000	400,995	40.10%
			Maui Lani #7	5229-06	191,083,000	523,515	52.35%
	Kahului Subtotal				1,340,000	1,084,140	108.41%
	Kamaole	11					
	Pala	7					
			Hamakuapoko 1	5420-02	361,000	989	0.01%
			Hamakuapoko 2	5320-01	0	0	0.00%
	Pala Subtotal					989	0.01%
	Makawao	7					
			Pookela	5118-02	37,800,000	103,562	1.48%
	Makawao Subtotal					103,562	1.48%
Koolau	Haiku	24					
			Kaupakalua	5317-01	209,849,000	574,929	2.40%
			Haiku	5419-01	106,201,000	290,962	1.21%
	Haiku Subtotal				0	865,890	3.61%
	Honopou	16					
	Walkamaui	37					
	Kearae	75					
			Kearae 1	5108-01	4,632,000	12,690	0.02%
			Kearae 2	5108-02	5,026,000	13,770	0.02%
	Kearae Subtotal					26,460	0.04%
Hana	Kuhlwa	14					
	Kawalpapa	31					
			Hamoia 1	4300-02	21,427,000	58,704	0.19%
			Hamoia 2	4300-03	47,008,000	128,789	0.42%

Aquifer Sector	Aquifer System	Sustainable Yield (MGD)	Well Name	Well No.	Total Pumpage Last 12 Months	Pumpage MAV as of 11/30/19	% Sustainable Yield
			Wakiu B	4600-03	29,263,000	80,173	0.26%
			Wakiu C	4600-04	8,715,000	23,877	0.08%
	Kawaiapa Subtotal					291,542	0.94%
	Waihol	18					
	Kipahulu	15					
Kahikinui	Kaupo	13					
	Nakula	7					
	Lualaba	11					
Lahaina	Honokohau	9					
	Honolua	8					
			Napili A	5838-01	14,113,000	38,666	0.48%
			Napili B	5838-02	88,938,000	243,666	3.05%
			Napili C	5838-04	379,621,000	1,040,058	13.00%
			Honokahua A	5838-03	0	0	0.00%
			Honokahua B	5938-01	155,255,000	425,356	5.32%
	Honolua Subtotal					1,747,745	21.85%
	Honokowai	6					
	Launiupoko	7					
			Kanaha 1	5339-03	47,938,000	131,332	1.88%
			Kanaha 2	5339-04	25,554,000	70,011	1.00%
			Walpuka 1	5339-01	53,961,000	147,838	2.11%
			Walpuka 2	5339-02	47,281,000	129,537	1.85%
	Launiupoko Subtotal					478,718	6.84%
	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 11/30/19	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	178,244,000	488,340	9.77%	9.77%
				Waikalae Tunnel	1059-01	0	0	0.00%	0.00%
	Kualapuu Subtotal						488,340	9.77%	9.77%
Southeast	Kamiloloa	3	3						
	Kawela	5	5						
				Kawela	0457-01	58,532,000	154,882	3.10%	3.10%
	Kawela Subtotal						154,882	3.10%	3.10%
	Ualapue	8	8						
				Ualapue	0449-01	81,870,000	224,301	2.80%	2.80%
	Ualapue Subtotal						224,301	2.80%	2.80%
	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						

