

PROVISIONAL HONOLULU WATER SHORTAGE PLAN

Informational briefing to
the Commission on Water
Resource Management

June 14, 2022

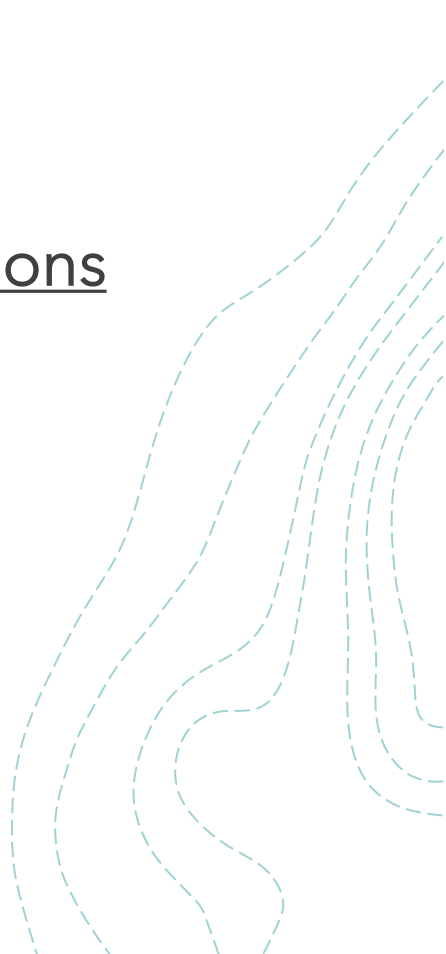
OUTLINE

Background and Overview

Triggers

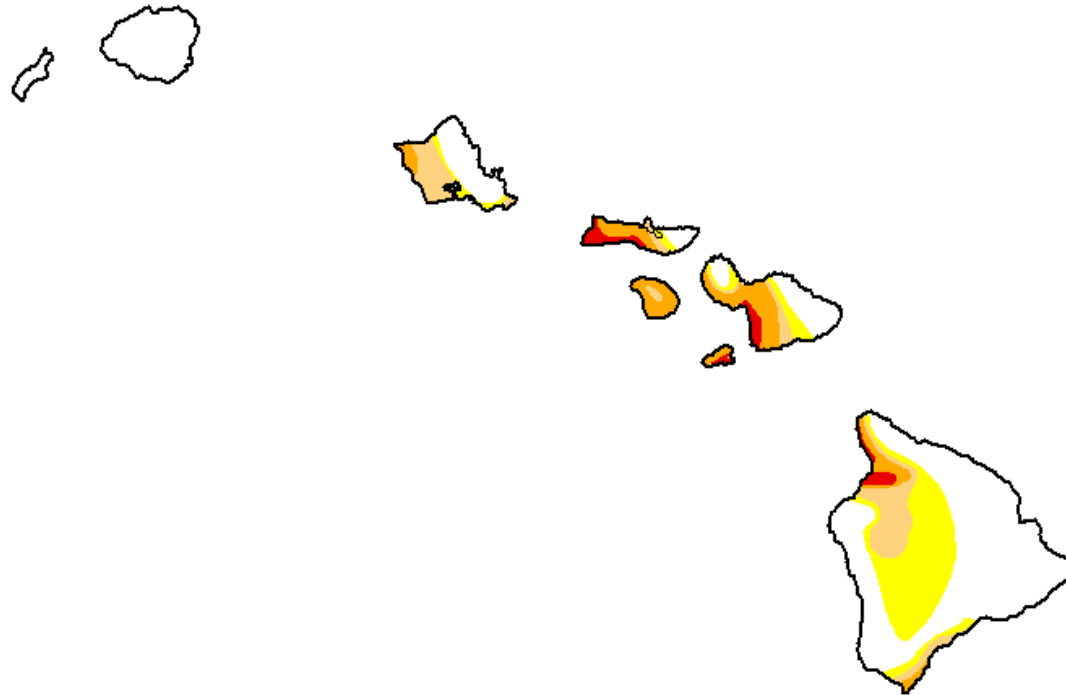
CWRM Actions

Next Steps









U.S. Drought Monitor Hawaii

June 7, 2022
(Released Thursday, Jun. 9, 2022)
Valid 8 a.m. EDT



Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

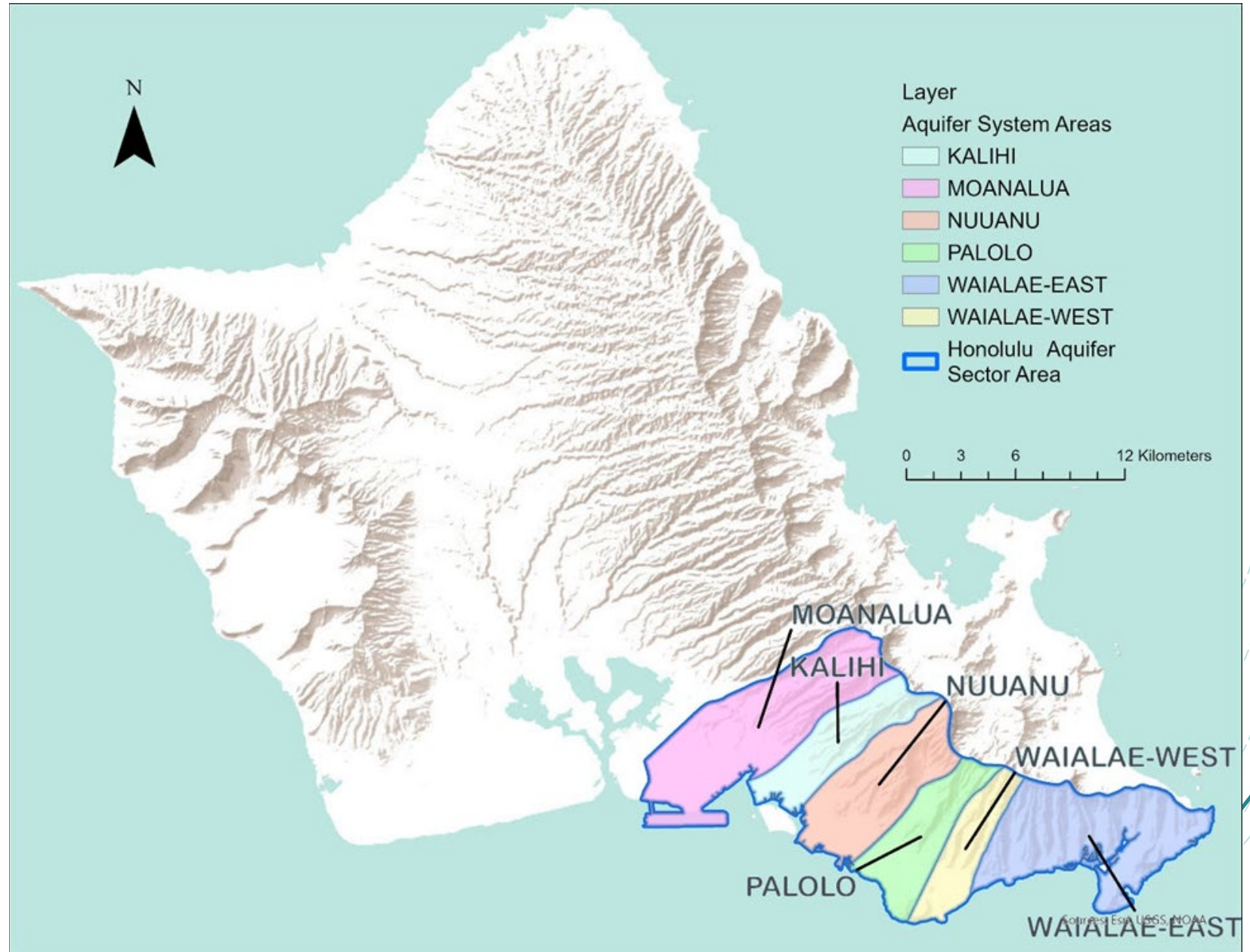
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CPC/NOAA



droughtmonitor.unl.edu

BACKGROUND AND OVERVIEW



BACKGROUND AND OVERVIEW

HRS §174C-62

- Commission must formulate a water shortage plan
- Commission must publish criteria to determine if a water shortage exists
- Commission must impose restrictions in accordance with plan
- Commission can declare water emergency if water shortage plan not sufficient to protect public health

Related Efforts

- Pearl Harbor Water Shortage Plan (2021)
- Hawai'i Drought Plan (2017)
- State Water Conservation Plan (2013)

BACKGROUND AND OVERVIEW

Goals of the Honolulu Water Shortage Plan:

- **Protect the health** of the aquifers and public trust uses
- Meet the requirements set for in **HRS §174C-62**
- Facilitate a **collaborative framework** for addressing water shortage conditions



PEARL HARBOR WATER SHORTAGE PLAN COMPARISON

Pearl Harbor WSP

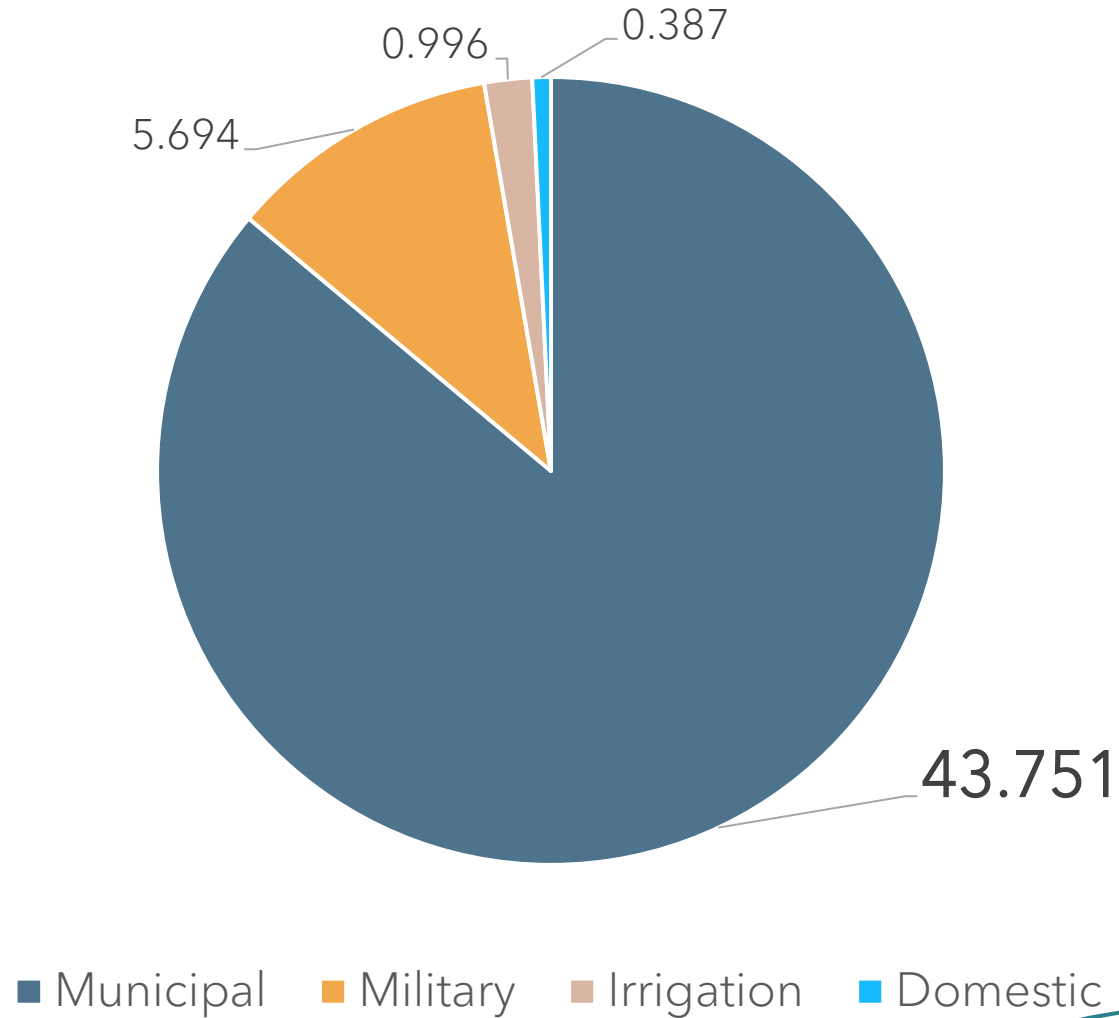
- Utilizes CWRM deep monitor well data
- No water quality trigger
- Adopted by Commission, but can be amended/updated

Honolulu WSP

- No CWRM monitor well network
- Includes water quality trigger
- Provisional

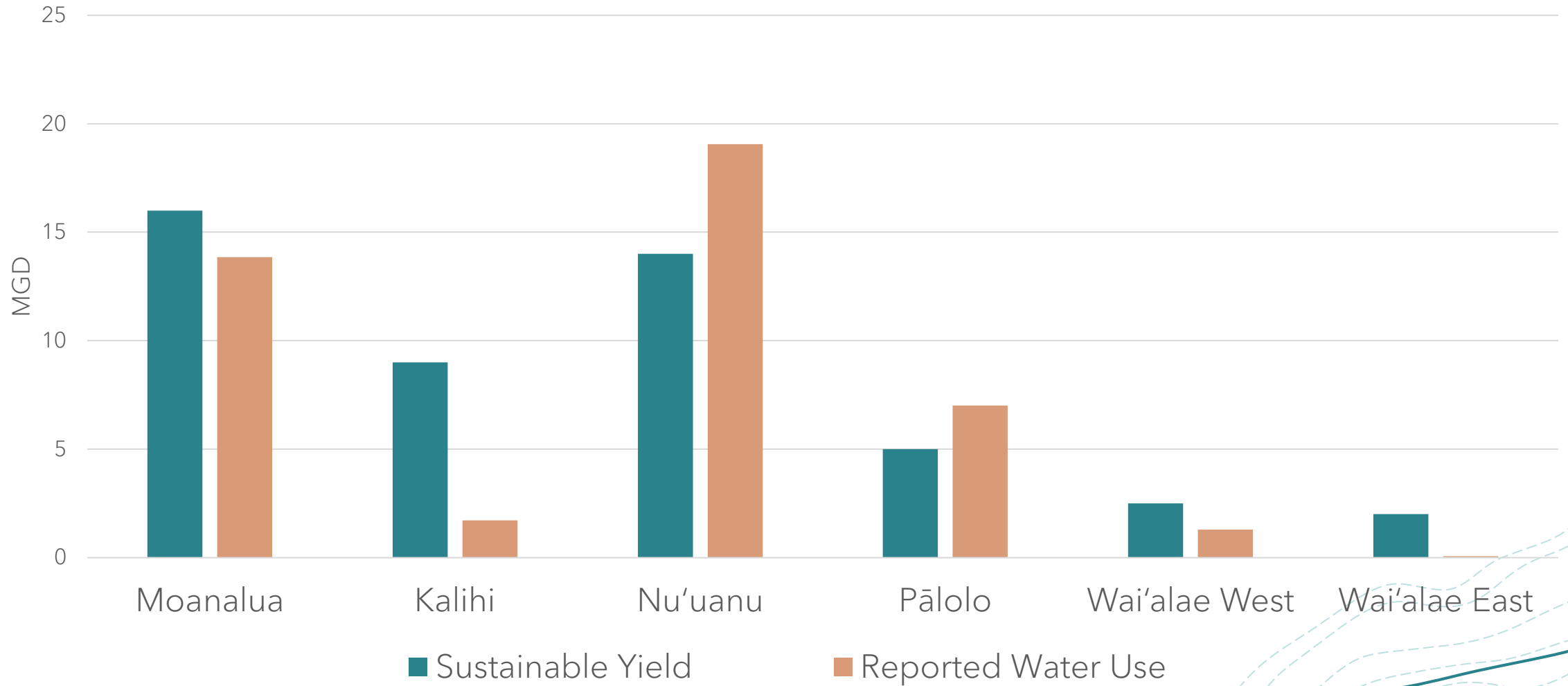
CURRENT WATER PICTURE

Honolulu Aquifer Sector Allocations (MGD)



CURRENT WATER PICTURE

April 2022 Reported Water Use (MGD)



TRIGGERS AND ACTIONS

Stage 1

Water Shortage Watch



Stage 2

Water Shortage Alert



Stage 3

Water Shortage Warning

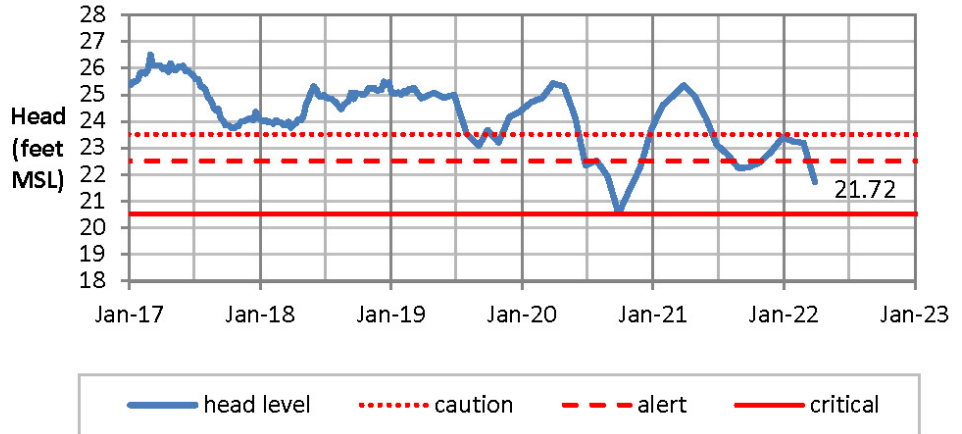
TRIGGERS

- Commission staff will verify through independent analysis

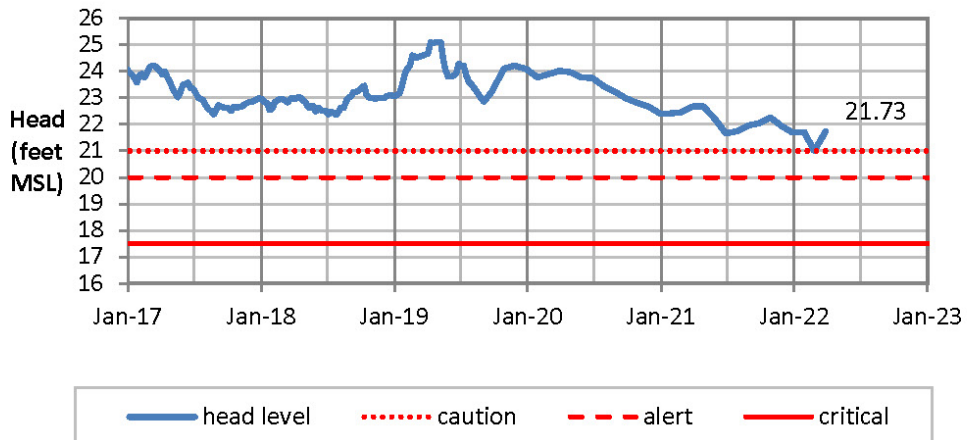
Stage	Trigger
Stage 1: Water Shortage Watch	The Honolulu Board of Water Supply declares a low groundwater condition; or The Department of Health issues an Emergency Order as a result of contaminating activities that have occurred anywhere in the Honolulu Aquifer Sector Area; or USDA Secretarial Drought Disaster Designation for O‘ahu.
Stage 2: Water Shortage Alert	The Honolulu Board of Water Supply declares an alert low ground water condition.
Stage 3: Water Shortage Warning	The Honolulu Board of Water Supply declares a critical low groundwater condition; or The Department of Health determines that imminent action is required to protect human health and the aquifer.

BWS INDEX WELLS

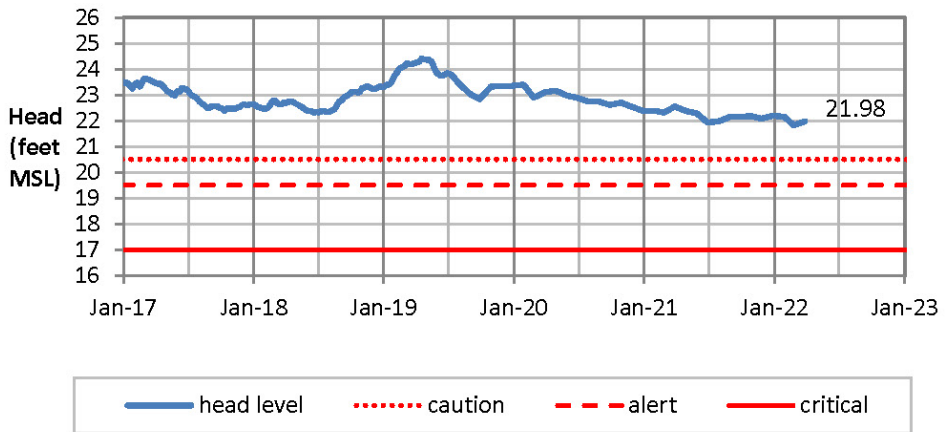
Kaimuki 04/01/22



Beretania 04/01/22



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ACTIONS

Commission staff initiates emergency rule making to implement plan (HAR §13-167-45)

Commission requires the following in each stage:

- Water use reductions
 - Based on reported water use in the month prior to shortage
- Monitoring and enforcement
- Outreach and coordination

ACTIONS STAGE 1: WATER SHORTAGE WATCH

- Water Use Reductions
 - WUP holders cannot exceed their water use from month prior to shortage declaration
 - State facilities must implement water conservation plans/measures
- Monitoring and Enforcement
 - All well owners must report their water use on a monthly basis
 - Commission staff to begin cooperatively monitoring BWS monitoring wells with BWS staff
 - Commission staff to prioritize enforcement actions in Honolulu ASA

ACTIONS STAGE 1: WATER SHORTAGE WATCH

- Outreach and Coordination
 - Issue joint press release with BWS
 - All WUP holders to be notified in accordance with HRS §174C-62
 - Begin monthly coordination meetings with DOH, BWS, USGS, UH, DHHL and others
 - Commission to be briefed by staff on shortage situation at monthly meeting for the duration of the shortage (or at frequency preferred by Commissioners)

ACTIONS STAGE 2: WATER SHORTAGE ALERT

- Water Use Reductions
 - WUP holders must implement their individual water shortage plans
 - WUP holders that have not submitted a plan to the Commission shall reduce their monthly water use by 10% from reported amount in the month prior to shortage declaration
- Monitoring and Enforcement
 - Monitoring and enforcement actions from Stage 1 will continue
- Outreach and Coordination
 - Outreach and coordination activities from Stage 1 shall continue

ACTIONS STAGE 3: WATER SHORTAGE WARNING

- Water Use Reductions
 - WUP holders must reduce their water use based on their water use permit class
 - Permit Class 1: Continue to implement individual water shortage plans
 - Permit Class 2: Reduce water use by 10%
 - Permit Class 3: Reduce water use by 15%
 - All efforts shall be made by water systems to prioritize public trust water needs

WATER USE PERMIT CLASSIFICATION

Priority Level	Water Use Permit Classification
1 Individual WSP	Domestic
2 10%	Municipal
	Military
3 15%	Irrigation

ACTIONS STAGE 3: WATER SHORTAGE WARNING

- Monitoring and Enforcement
 - Continue monitoring and enforcement actions from Stage 2
- Outreach and Coordination
 - Staff to begin preparations for Commission to declare water emergency should the need arise
 - Continue outreach and coordination activities from Stage 2

NEXT STEPS

- Distribute draft plan to WUP holders for review
- Post for public comment
- Bring plan back to Commission for adoption
- Begin emergency rule making to declare water shortage after plan is adopted



THANK YOU

Dlnr.hawaii.gov/cwrn

