Maui Water Use and Development Plan Briefing to the Commission on Water Resource Management



OLA NĀ MEA A PAU I KA WAI By Water All Things Find Life PC: Aloha Pu`u Kukui

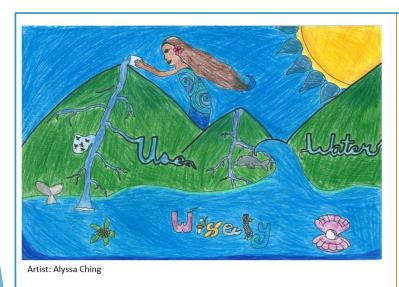
June 20, 2023 CWRM adoption of the Maui WUDP for incorporation into the Hawai'i Water Plan, with conditions

Commission staff commit to work with the County of Maui on:

- 1. Maui DWS will hire a consultant to write a "Maui Island WUDP Summary" document of the plan for public consumption.
- 2. Commission and Maui DWS will incorporate the findings of the USGS study on climate change impacts to groundwater recharge into water planning documents, including the Maui Island WUDP and updated sustainable yields.
- 3. Maui DWS will organize meetings annually with stakeholder groups to better quantify water needs of residents, including traditional kuleana users, rural residents, and small farmers. Feedback will be incorporated into a future update of the Maui Island WUDP.
- 4. Maui DWS will report back to the Commission within one year with an update on the status of the USGS hydrologic study of the Ha'ikū aquifer.
- 5. Commission staff will continue to work with Maui DWS to support development of their water conservation programs, including water loss control components that implement the findings of completed annual water audits.

"Maui Island WUDP Summary" document

- ✓ Contract with Hawaii Planning Consultants, January 31, 2024
- ✓ Draft Summary Document completed



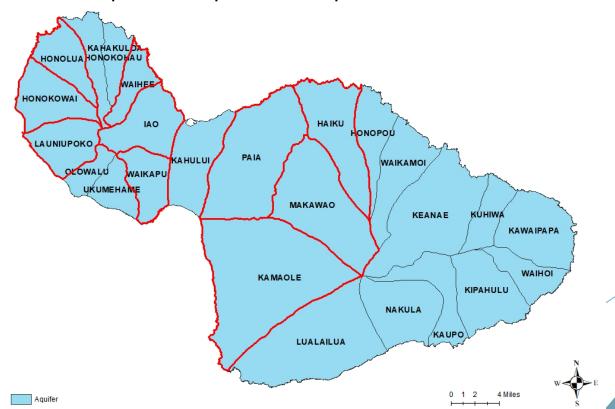
EXECUTIVE SUMMARY

MAUI ISLAND WATER USE AND DEVELOPMENT PLAN



USGS study on climate change impacts to groundwater recharge

- ✓ Contract October 1, 2021. Two no-cost time extensions
- ✓ Quantify changes to groundwater availability on Maui for selected mid-century future land-cover and recharge scenarios by characterizing optimal withdrawal distributions subject to appropriate withdrawal-site and saltwater-intrusion constraints
- ✓ Guide DWS in sustainable pumpage and well development
- ✓ Numerical model runs to optimize withdrawal scenarios ongoing
- ✓ Peer reviewed report to be published September 2025



Stakeholder meetings addressing kuleana users, rural residents, and small farmers.

Feedback:

- ✓ More nimble WUDP process needed
- ✓ Better accounting of public trust needs
- Extend municipal water system to remote rural areas
- ✓ More stakeholder involvement
- ✓ Control over private systems
- ✓ Invasive species impact on watershed status and resource

WATER USE & DEVELOPMENT PLAN IMPLEMENTATION MEETINGS





The Department of Water Supply will host meetings in six Aquifer Sectors to guide implementation and future updates of the Maui Island Water Use and Development Plan. Come share your mana'o for your area! Light refreshments will be served.

FOCUS:

Rural & farming water needs

Drought & wildfire risk

Residents not served by a public water system

Reliable water supply

October 16, 5:30 – 7:30 PM HANA – Helene Hall

October 22, 2:30 – 4:30 PM KAHIKINUI – Kaupo Community Resource Center

October 30, 5:30 – 7:30 PM WAILUKU – Kahului Community Center

November 4, 5:30 – 7:30 PM KO`OLAU – Haiku Community Center

November 7, 5:30 – 7:30 PM CENTRAL – Kula Community Center

December 2, 5:30 – 7:30 PM LAHAINA – Lahaina Civic Center

Status of the USGS hydrologic study of the Ha'ikū aquifer

- ✓ East Maui Source Development Feasibility Study completed December 2024
- ✓ Updated USGS proposal, concurrence by East Maui Consent Decree plaintiffs on additional monitoring well test protocol

Commission staff will continue to support development of DWS water conservation programs, loss control and implement the findings of water audits.

- ✓ Water shortage and conservation plan completed April 2024
- ✓ Implementing demand side priority measures in the plan
- ✓ Perform field measurements to confirm accuracy of production and customer meters
- ✓ Ramp up leak detection to reduce water losses

https://waterresources.mauicounty.gov/101/Water-Use-Development-Plan



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SUMMARY WATER USE AND DEVELOPMENT PLAN BACKGROUND

- CWRM adopted the Maui Island Water Use and Development Plan (WUDP) in June 2023 with four conditions
- This afternoon we would like to provide you with a quick overview of the Summary WUDP's scope and organization



SUMMARY

WATER USE AND DEVELOPMENT PLAN

Scope: Provide a summary of the WUDP including its planning context,

rationale, values, and policy

Intent: Complement the full WUDP

Target

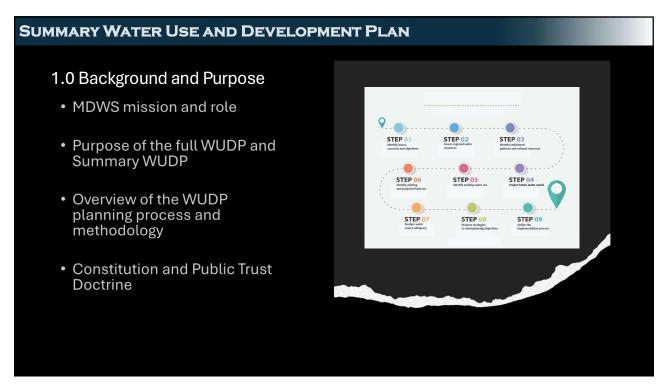
Audience: General public

The Summary WUDP does not include new policy or data beyond what was included in the CWRM approved Water Use and Development Plan



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Summary WUDP
2.0 Historical and Cultural
Context

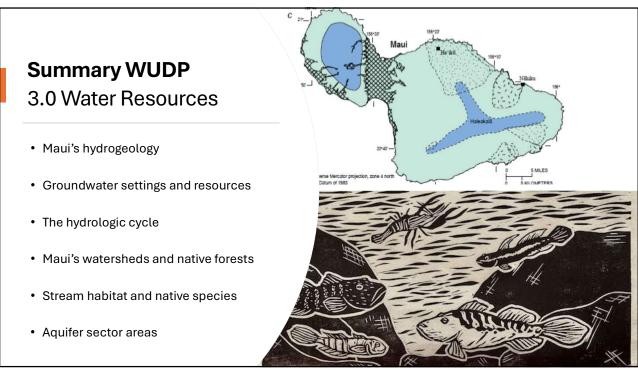
• Ahupua'a System

• The importance of continuous stream flow from mauka to makai

• The use of stream water for drinking, daily life, and sustainable agriculture

• The Kanaka Maoli water sharing system

• Native Hawaiian water rights



Ground and Surface Water Transfers Municipal Systems **Summary WUDP** 4.0 MDWS Water Systems MDWS role and responsibilities • Overview of MDWS public water systems treatment_plant • The role of ground and surface Aquifer water NAKULA Municipal well, county or private Lahaina Pipes Central Pipes · Ground and surface water Upcountry Pipes transfers Hana pipes

