

A photograph of a small waterfall in a lush, green forest. The water is cascading down a mossy rock face, surrounded by dense vegetation, including ferns and other tropical plants. The scene is captured in a natural, slightly overcast light, emphasizing the vibrant greens of the forest.

Na Mea Wai Apau

All Things Relating to Water

Sponsor: Donna Wong, Executive Director Hawaii's
Thousand Friends

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IS489 Environmental Practicum



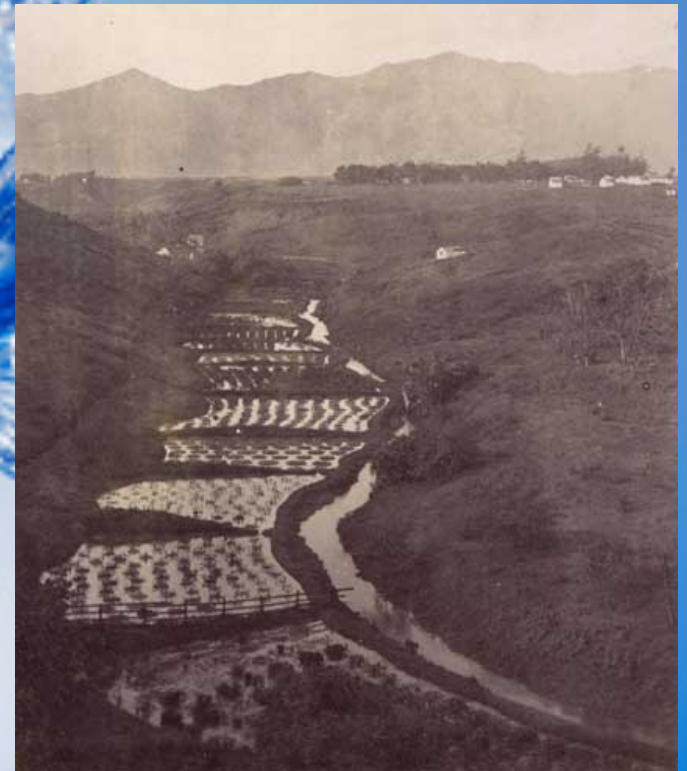
“Water is the essence of life, sustaining every being on this planet. Without water, there would simply be no plants, no animals, and no people. . . .”

www.worldwaterwars.com



“Life is tied to water . . .
Throughout history, secure
access to water has been
essential to social and
economic development and
the stability of cultures and
civilizations.”

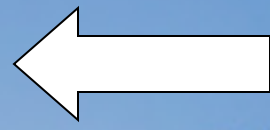
-C.P. Kumar, Scientist
National Institute of Hydrology





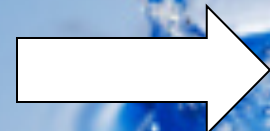
(0173-3-976) (11-18-34-2-45P) (2-1200) WAIKIHI AREA AND DIAMOND HEAD, HONOLULU, T. H.

Oahu 1930's
Just one generation
ago . . .



Oahu 2008
Booming population and
development

Freshwater resources
consumed faster than can
be replenished





Na Mea Wai Apau

- “One-stop” resource for all information pertaining to water
 - planning, conservation, laws and regulations, water quality, Native Hawaiian water rights and practices, current events
- People will be better informed to protect Hawaii’s freshwater resources

Problem Statement

- Hawaii's freshwater resources must be protected from overpopulation, development, consumption and use, commercial interests, legislation attempting to weaken State Water Code
- Website is an invaluable tool to educate and promote public participation

Procedures/Methods

- Collect research materials related to water issues in Hawaii
- Organize research materials by topic
- Present research materials for website





Topic Results

- Intro to freshwater resources
- Cultural history of water
- Current state of water resources
- Laws and regulations
- Water plans and projects
- Water cases
- Current events



Quotes

“Water is . . .
Philosophically,
spiritually water is
sacred, it is Kane I
ka wai ola, the life
giving waters of
Kane.” excerpt
from *Bringing Down
the Water*

Hawaii Constitution Article XI Section 7
“The State has an obligation to protect,
control and regulate the use of Hawaii’s
water resources for the benefit of the
people.”

“Water is life. They are draining the life out of us.” -taro farmer
Steven Ho’okano regarding East Maui water diversion

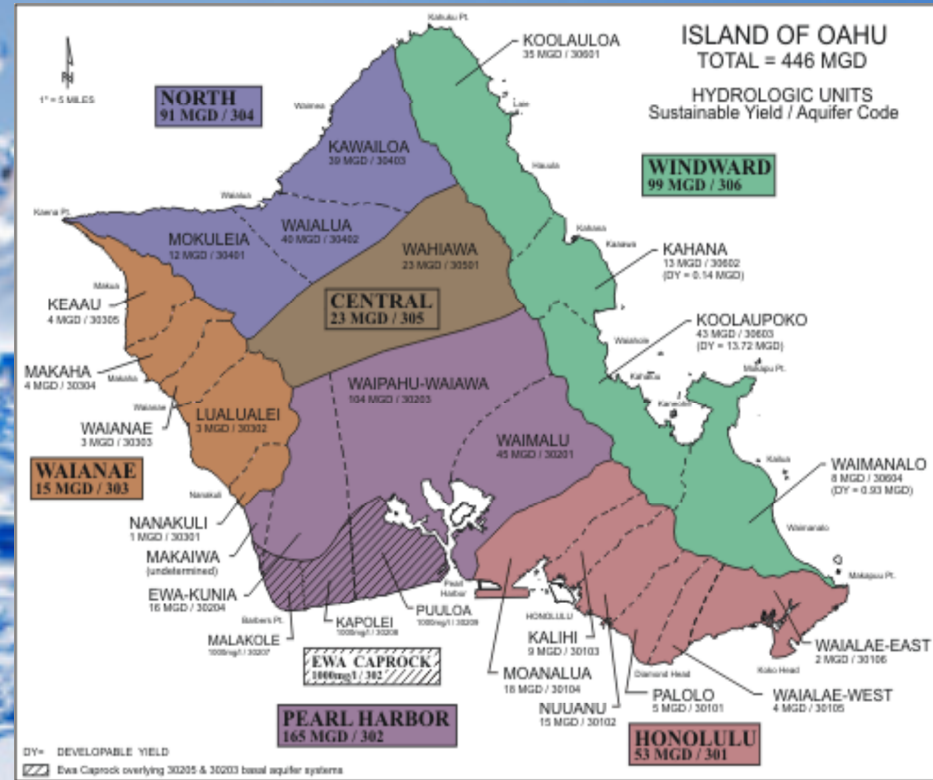
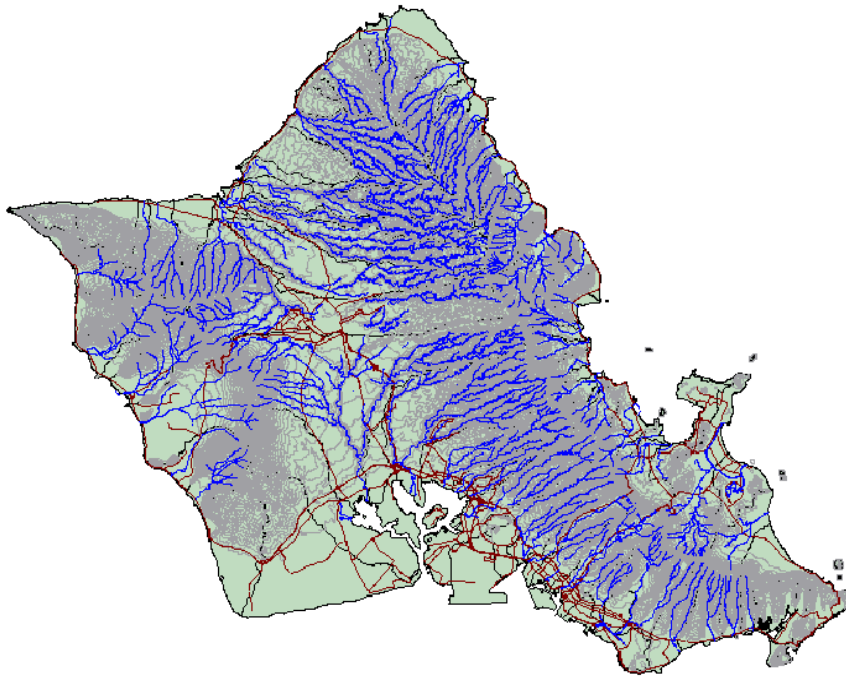
“Ancient Hawaiian life was based around the ahupuaa system of land
management . . . As water flowed from the upland forest, down through the
ahupuaa, it passed from the wao akua, the realm of the gods, to the wao
kanaka, the realm of the humans . . . Water was a gift from the gods, and all
Hawaiians took an active part in its use and conservation.” - Maoli No DVD

State Water Code “It is recognized that the waters of the State are held for
the benefit of the citizens of the State. It is declared that the people of the
State are beneficiaries and have a right to have the waters protected for
their use.”

Links



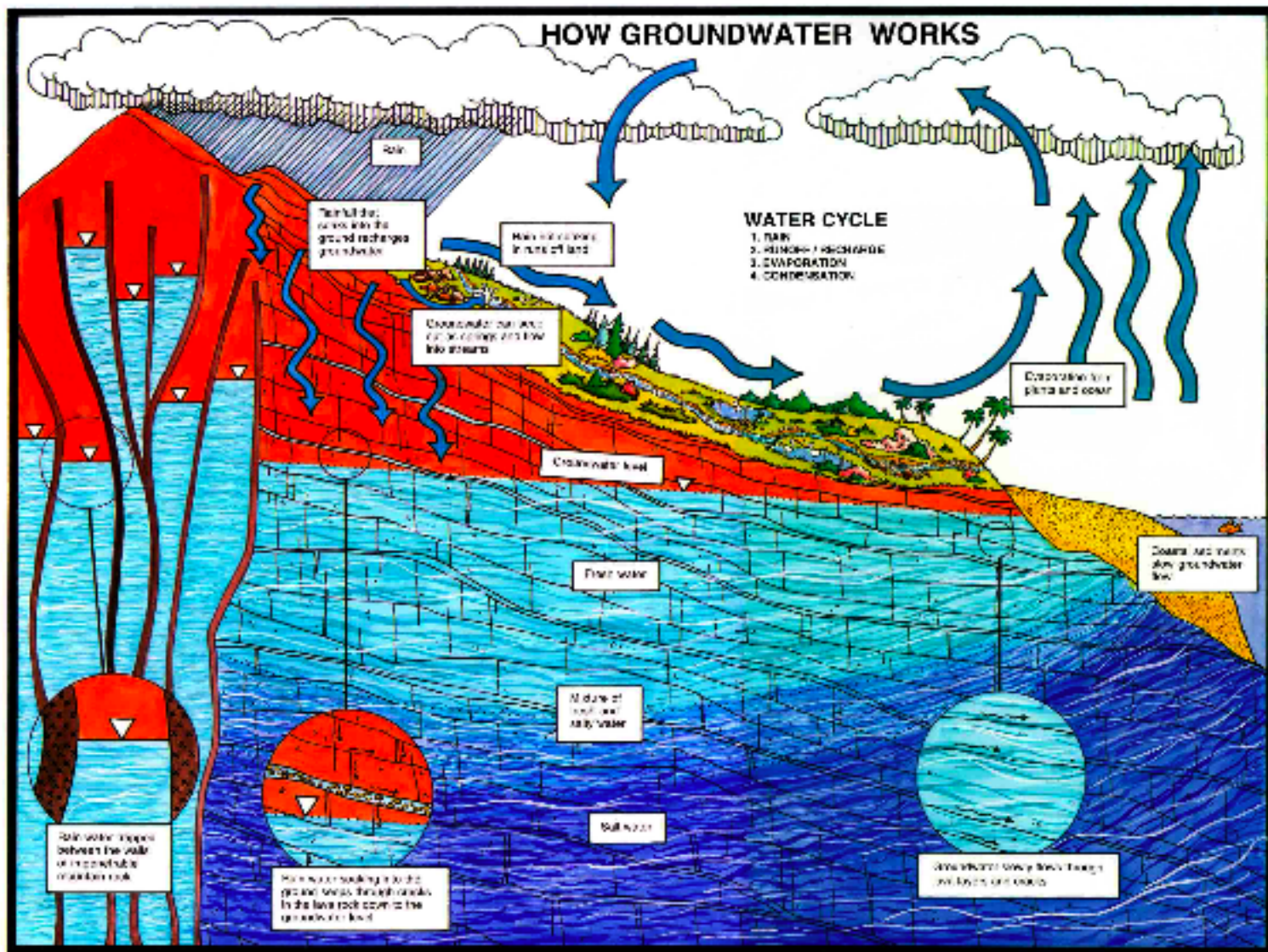
Visual Aids



03/31/2000

Map Projection: Universal Transverse Mercator

HAWAI'I'S GROUNDWATER



Other Media

- Conservation tips
- Bulletins
- Brochures
- Keiki Corner
- Videos

7-Ways to Save Water

Uwe Ka Lani Ola Ka Honua...

When the heavens weep, the earth lives.

Inscribed at the entrance of the Board of Water Supply's Public Service Building, this Hawaiian proverb recognizes that all life on earth needs water for sustenance.

Oahu's limited water resources and growing population have brought us to the era of water conservation. These tips will help you to make water conservation a way of life and save hundreds of gallons of water every month.

Please do more . . . about using less.

1. Water lawns just 2-3 times a week.

Even during the summer, lawns do not need to be watered every day. By watering only once every three days, you promote deeper root growth and that makes your lawn more water efficient.

2. Don't Water lawns between 9am and 5pm.

Less water evaporates when the sun isn't out, so more gets into the lawn. Watering at night or early in the morning is by far the most effective way to water.

3. Check for leaky plumbing and toilets.

Test for leaks: turn off water, check your water meter, and check the meter again two hours later. If the numbers have advanced, there is a leak. You can check your toilet for leaks by using a free Board of Water Supply test tablet. Call **748-5000** for more information.

4. Install water-efficient plumbing fixtures.

Older toilets waste 5 gallons or more every flush. Older showerheads waste up to 5 gallons every minute. An aerator on your kitchen faucet can save up to 5 gallons daily. **Toilet rebates** are currently available to residents who are switching from an high-flush to a low-flush toilet, and there are plans to offer rebates or incentives for other water-efficiency upgrades.

5. Take shorter showers.

Every minute you trim from your shower saves 3 to 6 gallons of water. So get in and out a little faster, or pause the water while you lather, shave or shampoo.

A close-up photograph of a pink flower with green leaves in the foreground, with a blurred background of water splashing over rocks. The text is overlaid on the upper left portion of the image.

“This is a battle for the future. If you control the water you control the island, you control the future.” - Calvin Hoe, taro grower and teacher at the Indigenous School in Waiahole

Acknowledgements

A lush tropical waterfall scene with dense green foliage and water cascading over rocks. The water is white and frothy as it falls, surrounded by various tropical plants and ferns. The background is a dense wall of green trees and bushes.

Mahalo to Donna Wong, Executive Director of Hawaii's Thousand Friends, for this opportunity to assist with the creation of *Na Mea Wai Apau* and for supporting the EVS program at UHM.