A small waterfall cascading down a mossy rock in a lush, green forest. The water is clear and flows over several small steps. The surrounding vegetation is dense and vibrant green, with many ferns and other tropical plants. The scene is captured from a slightly elevated angle, looking down at the waterfall.

Na Mea Wai Apau

All Things Relating to Water

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

Jessie Cohen

IS489 Environmental Practicum



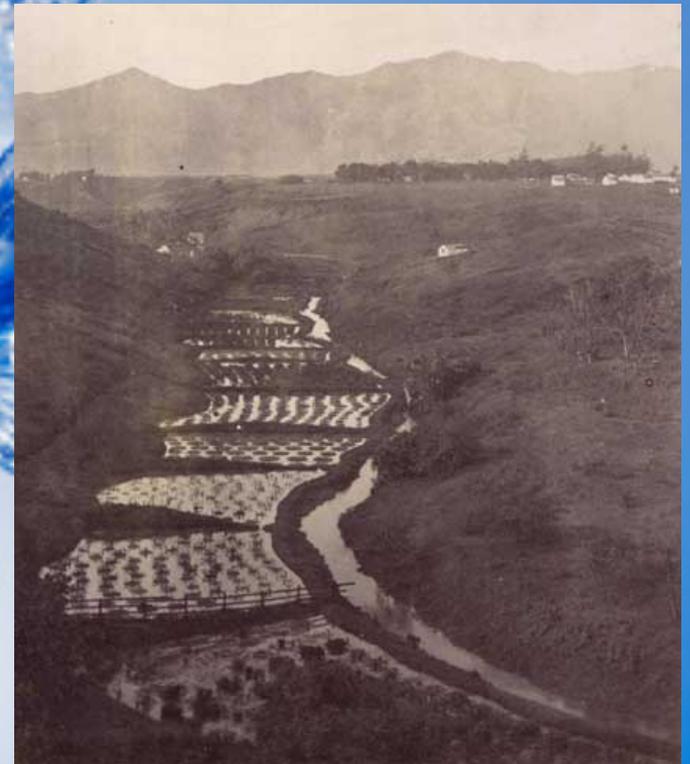
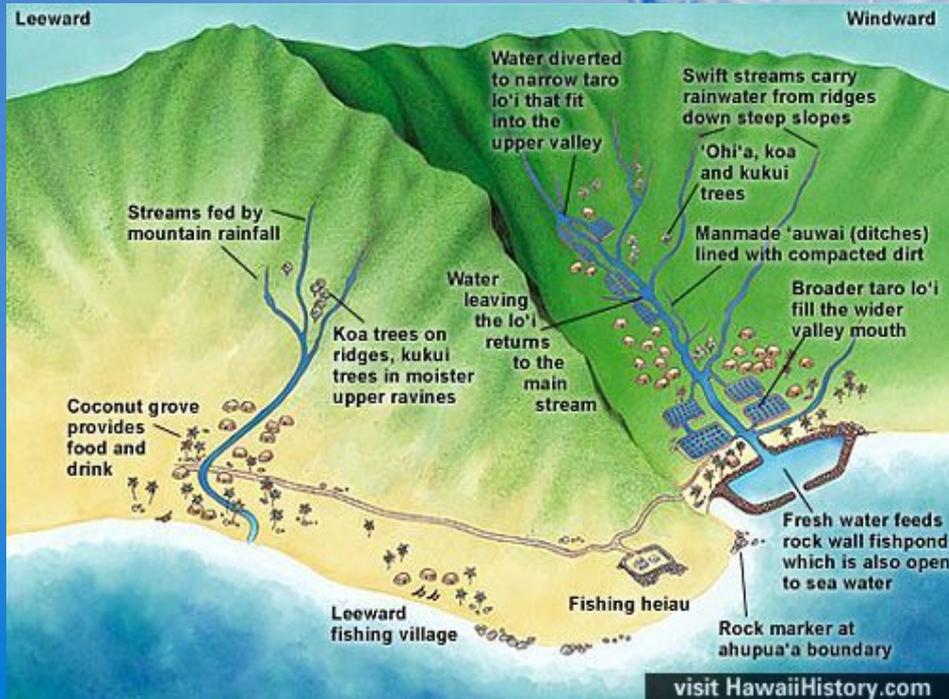
“Water is the essence of life, sustaining every being on this planet. Without water, there would simply be no plants, no animals, and no people. . . .”

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.”

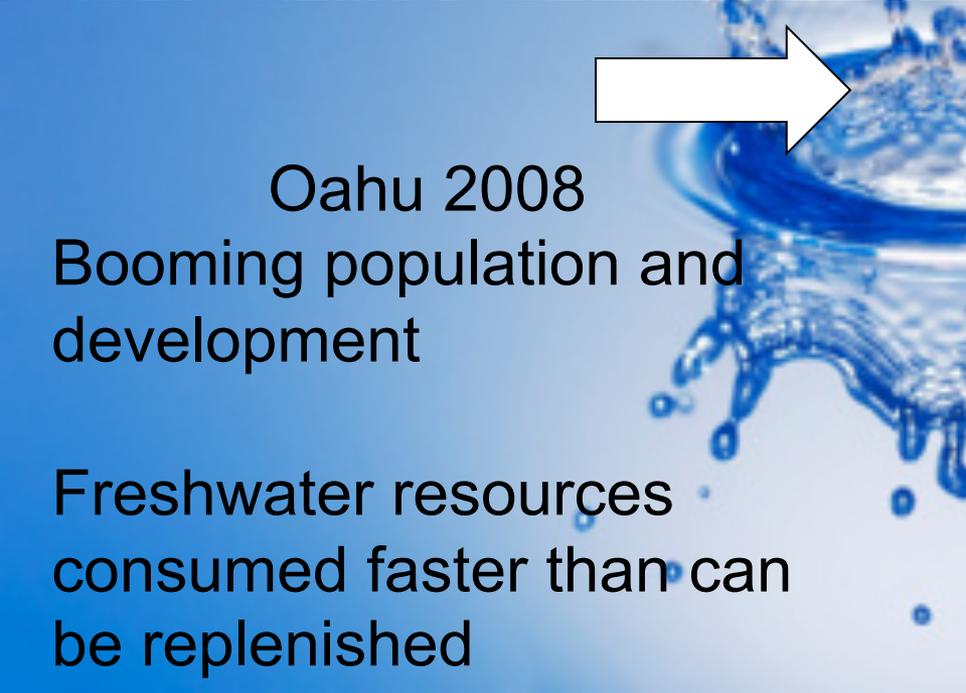
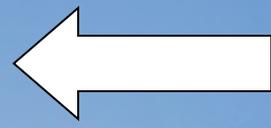
-C.P. Kumar, Scientist
National Institute of Hydrology





(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

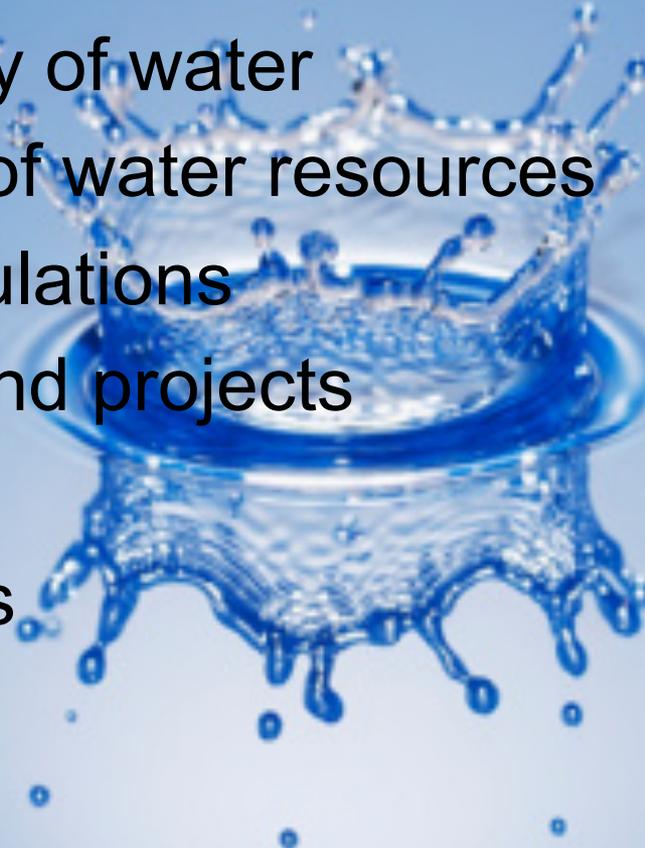
- Collect research materials related to water issues in Hawaii
- Organize research materials by topic
- Present research materials for website





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



Water Resources Research Center
University of Hawaii at Manoa

COMMISSION ON WATER RESOURCE MANAGEMENT

Ke Kahuwai Pono

"The trustee who oversees the rightful sharing of water."



BOARD OF WATER SUPPLY
City and County of Honolulu



HSRC

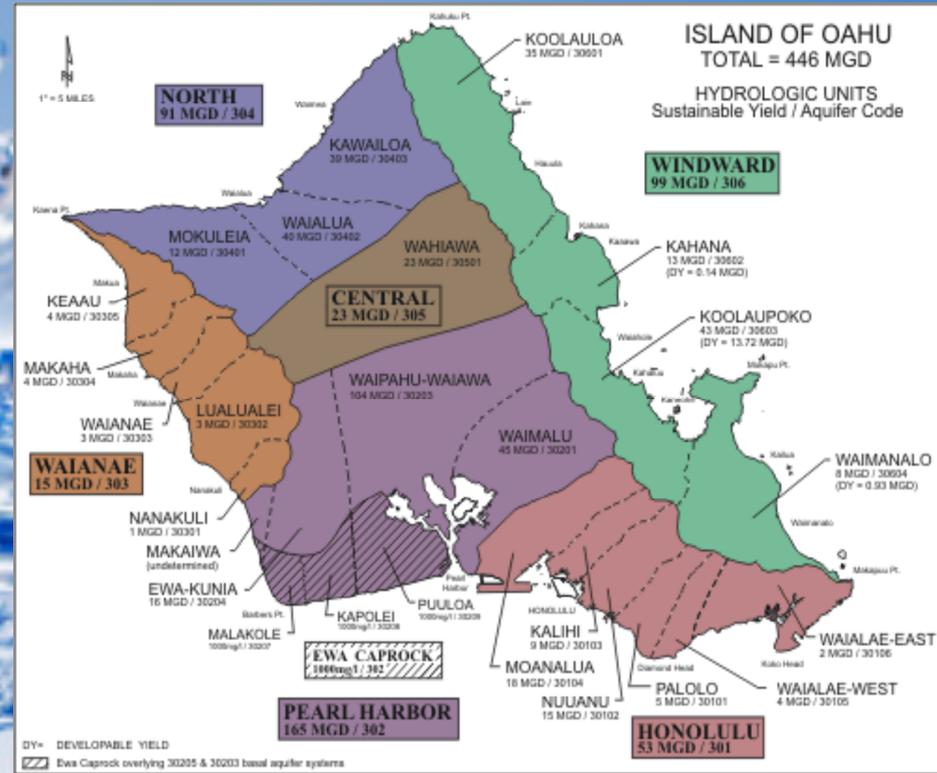
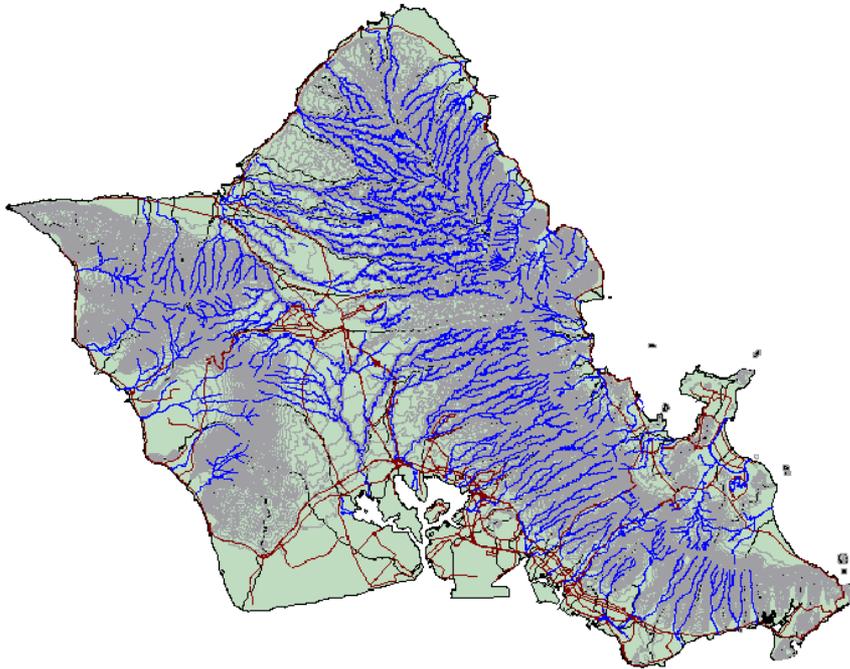


Department of Health

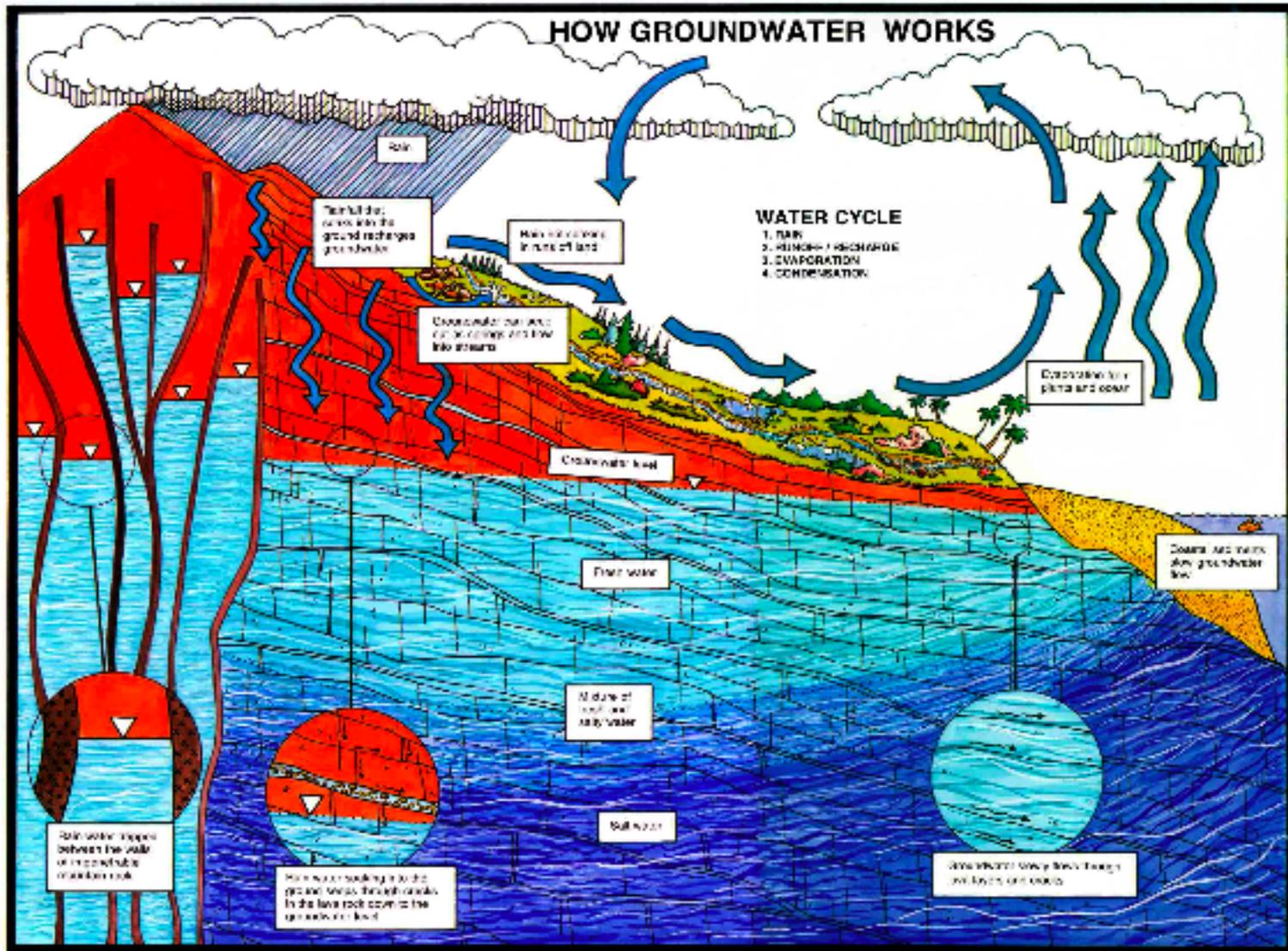


Healthy People • Healthy Communities • Healthy Islands

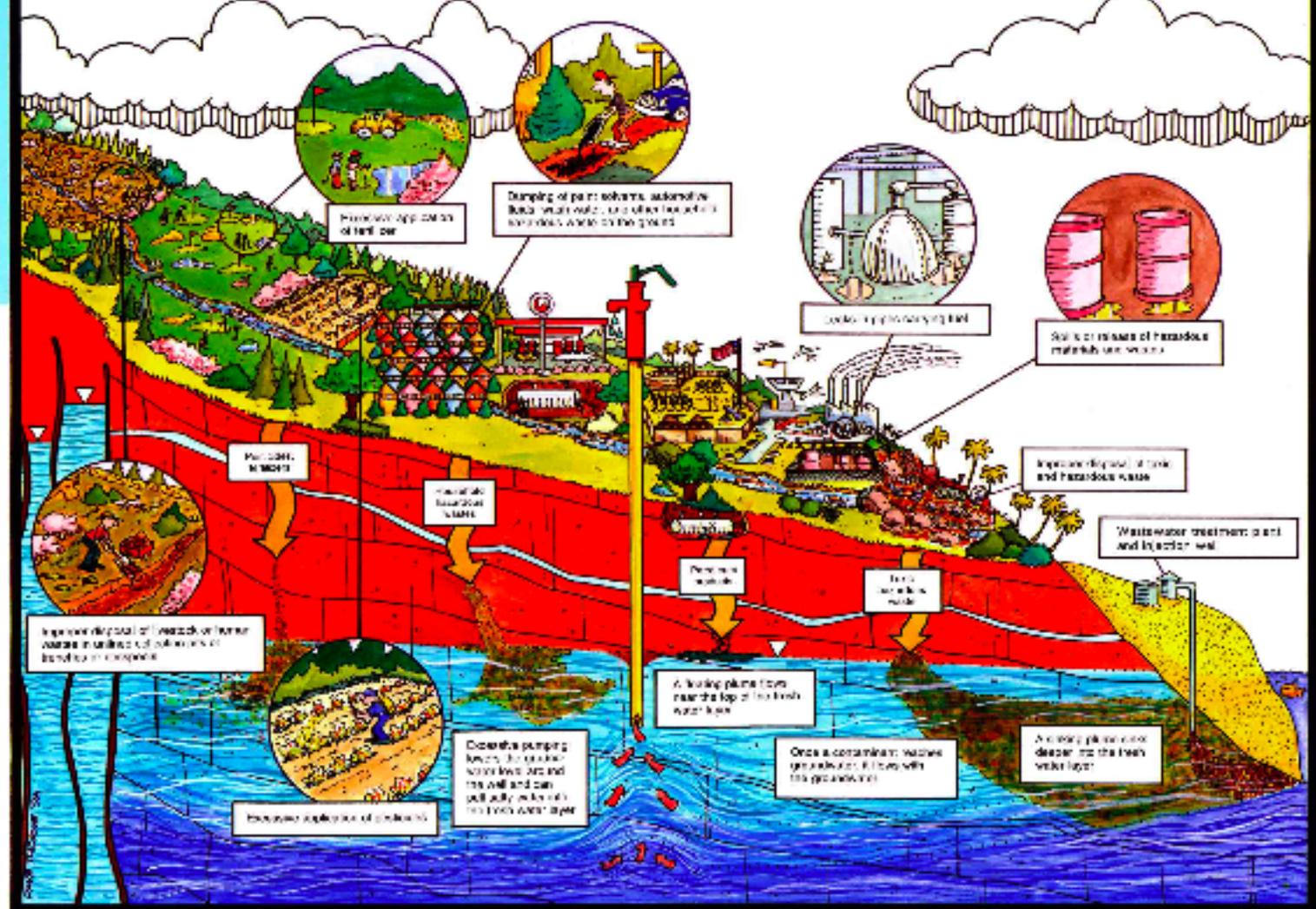
Visual Aids



HAWAI'I'S GROUNDWATER



POTENTIAL GROUNDWATER CONTAMINATION SOURCES



The poster was produced by the
 Hawaii Department of Health,
 with funding from a grant from the
 U.S. Environmental Protection Agency. 01-01-00

For more information, please contact:

Hawaii Department of Health
 Office for the Protection Program
 P.O. Box 2079
 Honolulu, HI 96820-2079
 (808) 596-2556

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.

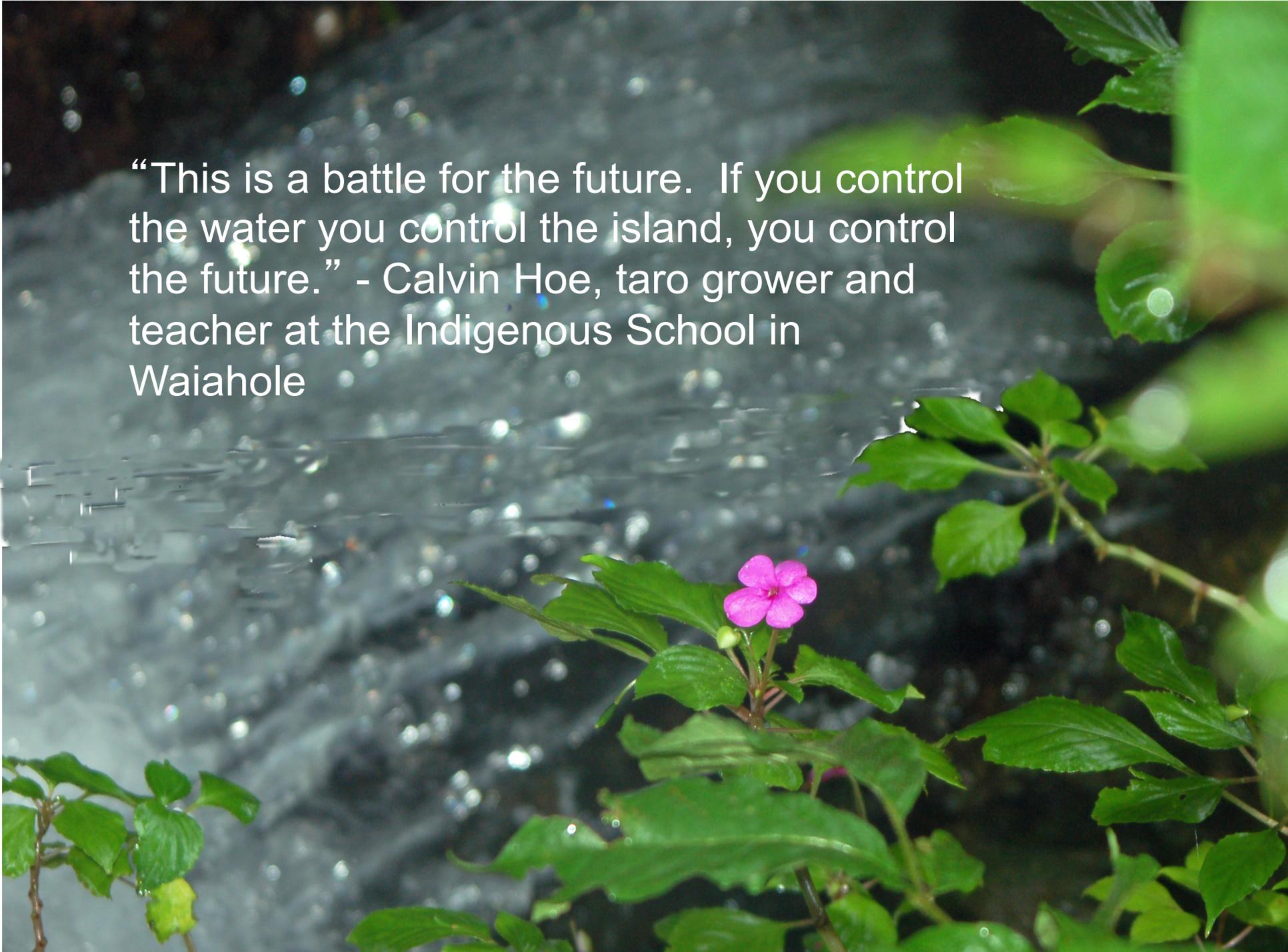
Test for leaks: turn off water, check your water meter, and check the meter again two hours later. If the numbers have advanced, there is a leak. You can check your toilet for leaks by using a free Board of Water Supply test tablet. Call **748-5000** for more information.

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 water is in motion, creating a bokeh effect of light and dark spots. The flower is a small, five-petaled pink blossom with a green bud next to it. The leaves are vibrant green and have a slightly serrated edge. The overall scene is a natural, outdoor setting, likely a stream or waterfall.

“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.