

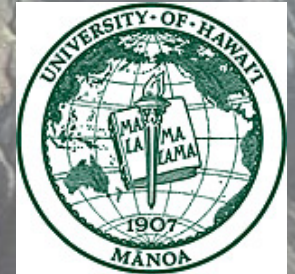
# Introduction to Watershed Planning

**Kathy Chaston**  
**NOAA National Ocean Service**  
**Coral Reef Conservation Program**





# Sponsored by Hawaii's Land-based Pollution Threats to Coral Reefs Local Action Strategy & Mauna Kea Soil & Water Conservation District



# Why Watershed Planning?





# Reduce land-based pollution threats to coral reefs



Photo's courtesy of Dr Bill Walsh, DAR

# Workshop Goal

Provide an **overview** of watershed management concepts and planning considerations, and introduce practical tools available for watershed planning



# Audience

- Representatives from watershed groups, community groups, government agencies, public and private planners, and county officials.
- 86 participants, including 2 elected city council members from Hawaii County



# Workshop Objectives

- Provide an introduction to the characteristics and threats to island watersheds, using the Big Island as an example (Waiulaula Watershed)
- Introduce several watershed planning tools that can be used to develop watershed plans
- Provide a case-study of how EPA's watershed plan builder has been used by a watershed group



# Workshop Objectives

- As a practical exercise, develop a list of watershed planning considerations for the Waiulaula watershed on the Big Island
- Provide a networking opportunity for participants





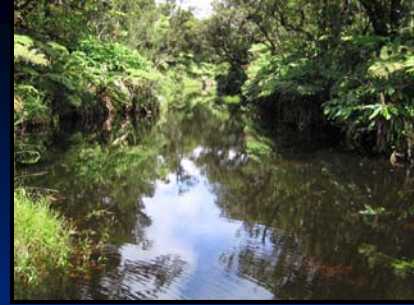
# Workshop Agenda

- **Watershed characteristics & threats**
  - Watershed hydrology & streams (Gordon, Tribble USGS)
  - Terrestrial resources (Melora Purrell, Kohala Watershed Partnership)
  - Coastal & marine resources (Bob Richmond, University of Hawaii)



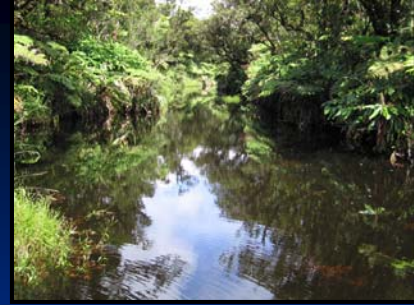
# Workshop Agenda

- **Watershed planning tools**
  - **NRCS rapid watershed assessment**  
(Sharon Sawdey)
  - **Community engagement in Hawaii County** (Dana Okano)
  - **Case-study: EPA's watershed plan builder** (Hudson Slay, DOH and Carolyn Stewart, Wailulula Watershed Group)



# Workshop Agenda

- Group planning exercise:  
Waiulaula watershed
  - Examined 4 areas of the watershed:  
forest, pasture/cropland,  
urban/resort, residential
  - Groups identified a problem &  
solution





# Threats & Solutions

Sediment & nutrient runoff from feral animals, agriculture and development

- Public outreach & education for youth, community, policy makers\*\*\*
- Best management practices to reduce erosion and runoff
- Land-use planning: community development planning to empower local communities
- Policy Development



**Workshop recommendations will be  
used for the development of the  
Waiulaula Watershed Plan**



# Workshop Materials

Available on google site: coralwatershed

<http://sites.google.com/site/coralwatershed/>

\*\*access thru a gmail account





# Acknowledgements

Mahalo nui loa to the Mauna Kea SWCD, Hawaii County & the workshop planning committee: Melissa Iwamoto (HI CZM), Sara Pelleteri (HI DAR), Hudson Slay (HI DOH), Wendy Wiltse (EPA)



# Mahalo

