

Development of Statewide Water Conservation Plan

Commission on Water Resource Management
Project Update Meeting

November 16, 2011



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**US Army Corps
of Engineers**



Overview

- Project Summary
- Water Conservation Advisory Group
- Statewide Water Use Information
- Water Conservation Best Management Practices
- Project Schedule and Next Steps



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Statewide Water Conservation Project Summary

- Develop a coordinated statewide water conservation planning strategy and policy framework
- Develop a statewide water conservation program to implement the planning and policy framework
- Work collaboratively with stakeholders to achieve water conservation objectives
- Create a statewide water conservation plan with Strategic Goals and Objectives, Outreach Plan, Implementation Plan, and Funding Plan

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Some Important Water Use Sectors

- County water departments
- Public water systems
- Agriculture
- State government
- Military
- Landscape industry
- Golf courses
- Industrial / commercial
- Traditional & customary
- Environmental



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Water Conservation Advisory Group (WCAG)

Purpose

- Guide the study efforts
- Provide subject matter input
- Assist with policy and program development
- Review and comments on the goals and State Water Conservation Plan

Representation

- State and federal agencies and departments
- Municipal water suppliers
- Agricultural water users
- Hawaii Golf Course Superintendents Assoc.
- Military installations
- Farm Bureau
- Landscape industry
- Homeowners/home builders
- Hotel/lodging association
- Environmental interests
- Office of Hawaiian Affairs
- University of Hawaii- Manoa

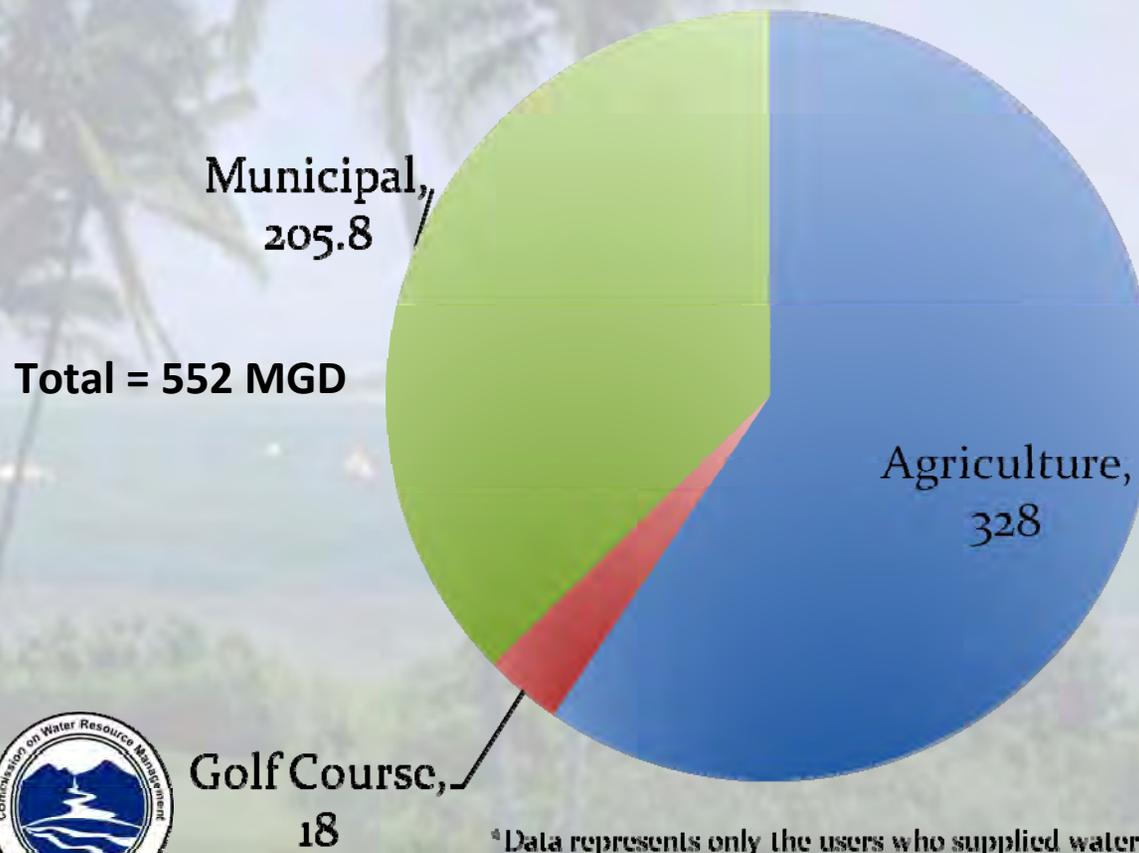
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Statewide Water Use

Statewide Water Usage*
(mgd)



*Data represents only the users who supplied water usage data.

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Water Use Profile - Agriculture

Average Annual Water Usage for Agricultural Systems (mgd)



*Kekaha/Kokee Ditches represent the total diversions, not the end use at fields as for other systems shown.

Total Reported Annual Water Use = 328 mgd



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This pie chart represents data received for a combination of various years (1995-2010).

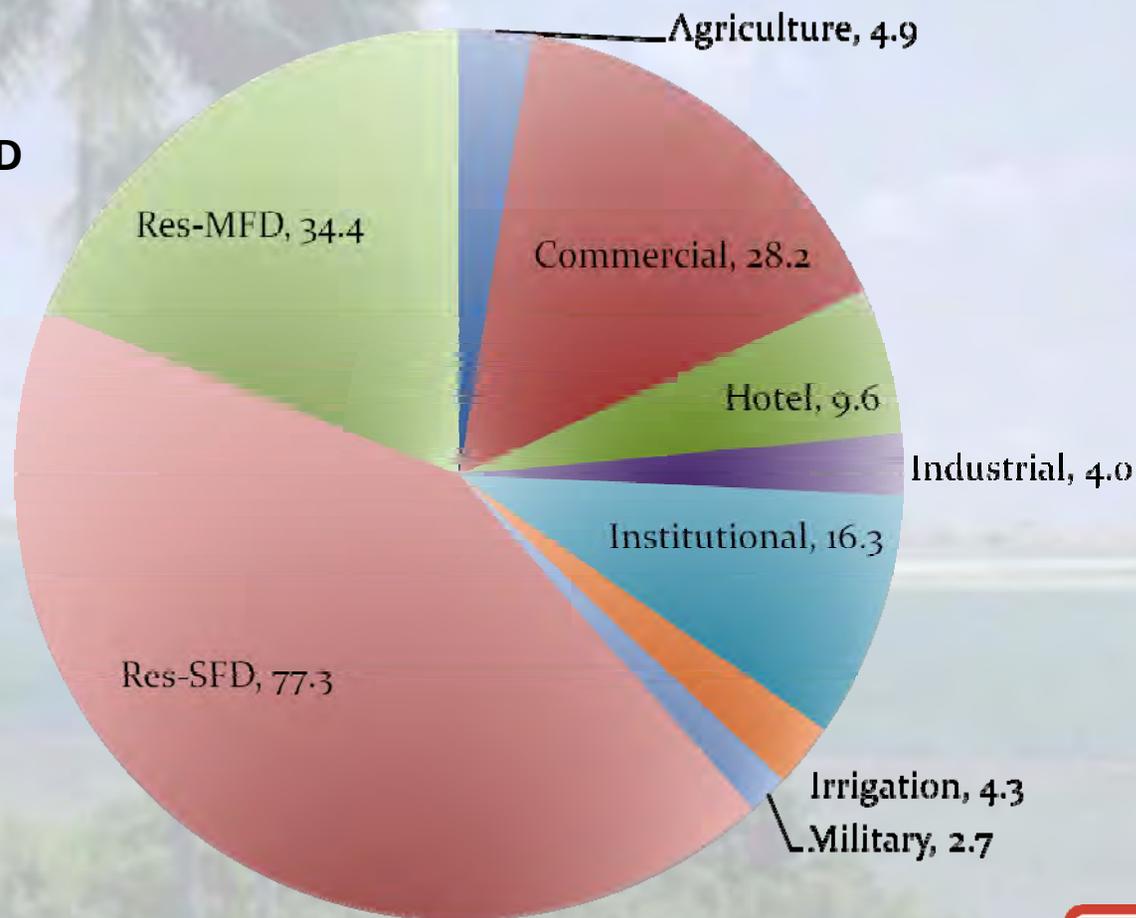




Water Use Profile - Municipal

Statewide (excluding Hawaii-island)
Municipal Average Water Use 2006-2009 (mgd)

Total = 182 MGD



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Water Conservation Advisory Group Meeting #1

- May 23, 2011
- Role of Advisory Group
 - Expectations
- Preliminary data review
 - Data collection assistance
- Water conservation goals
 - Brainstorming
 - State-specific

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Water Conservation Advisory Group Meeting #2

- August 25, 2011
- Agriculture, Golf Courses, Landscape Irrigation
 - BMP breakout groups
 - Implementation breakout groups
- Major outcomes
 - Recommended and endorsed BMPs
 - Implementation strategies
- Next steps
 - Evaluate and summarize recommendations
 - Goals and plans for Agriculture, Golf Courses, and Landscape Irrigation

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Water Conservation Advisory Group Meeting #3

- November 17, 2011
- Municipal and Military
 - BMP breakout groups
 - Implementation exercise
- Expected outcomes
 - Recommended and endorsed BMPs
 - Specifics on Implementation
- Next steps
 - Evaluate recommendations
 - Goals and plans for Municipal and Military

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Project Schedule and Next Steps

Task	2011										2012										
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Establish Water Conservation Advisory Group																					
Establish statewide water conservation goals/objectives; develop water use profile		★																			
Identify water conservation measures in each sector					★																
Identify, evaluate, compare water conservation programs/measures								★													
Identify and develop implementation mechanisms																					
Develop Statewide Water Conservation Plan																					
Submit Draft Statewide Water Conservation Plan																					
Review Draft Statewide Water Conservation Plan																					
2nd Draft Statewide Water Conservation Plan																					
Submit Final Statewide Water Conservation Plan																					
Final presentation to CWRM																					

November 2011
Municipal/Military: Evaluate identified conservation measures; discuss results and define goals; discuss implementation

March 2012
Discuss proposed implementation

Review Draft Plan
September 2012

Present Final Plan/Discuss implementation process and schedule

November 2012
Final Presentation to CWRM

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A tropical landscape featuring several tall palm trees in the foreground on the left. In the middle ground, there is a large body of water (a bay or lagoon) with several small boats. In the background, a large, rounded hill or island is visible under a blue sky with scattered white clouds. The overall scene is bright and sunny.

Questions and Discussion