







Regional Advisory Committee Purpose

- ✓ Represent the broad interests and perspectives in the region
- ✓ Assist in the completion of the Merced Integrated Regional Water Management Plan (IRWM) Plan
- ✓ Encourage cooperative planning among various aspects of water resources management in the Merced Region
- ✓ Review regional water management issues and needs, goals and objectives, plans and projects, and future funding and governance
- ✓ Advise the Regional Water Management Group (RWMG) and the governing bodies on these topics

RAC Ground Rules

- ✓ Civility is required.
 - ✓ Treat one another with courtesy.
 - ✓ Respect the personal integrity, values, motivations, and intentions of each member.
 - ✓ Be honest, fair, and as candid as possible.
 - ✓ Participate with an open mind and respect for other's interests.
 - ✓ Personal attacks and stereotyping will not be tolerated.
- ✓ Creativity is encouraged.
 - ✓ Think outside the box and welcome new ideas.
 - ✓ Build on the ideas of others to improve results.
 - ✓ Disagreements will be treated as problems to be solved rather than battles to be won.
- ✓ Efficiency is important.
 - ✓ Participate fully, without distractions.
 - ✓ Respect time constraints and be succinct.
 - ✓ Let one person speak at a time.
- ✓ Constructiveness is essential.
 - ✓ Take responsibility for the group as a whole and ask for what you need.
 - ✓ Enter commitments honestly, and keep them.
 - ✓ Delay will not be employed as a tactic to avoid an undesired result.

Today's Agenda

- ✓ Introductions
- ✓ Approve Revised RAC Materials
- ✓ Discuss Regional Overview
- ✓ Develop IRWM Plan Objectives
- ✓ Discuss Disadvantaged Community (DAC) Outreach Approach
- ✓ Review Technical Workshop Overview and Timing
- ✓ Identify Next Steps
- ✓ Public Comment

RAC Materials for Discussion and Approval

- ✓ RAC Purpose and Charter
- ✓ Governing Procedures

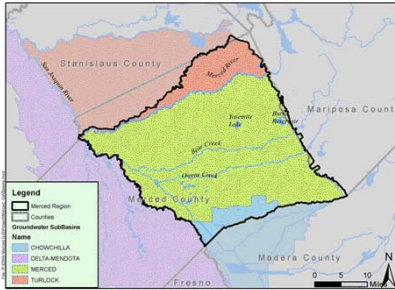
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Documents for Review

- ✓ Notes from RAC Meeting #1 (May 22, 2012)
- ✓ Plan Inventory Technical Memorandum (3 Parts)
 - ✓ Summary of Information Gathered / Reviewed
 - ✓ Relation to Local Water Planning (IRWM Plan chapter)
 - ✓ Region Description (IRWM Plan chapter)
- ✓ Land Use Planning Technical Memorandum
 - ✓ Relation to Local Land Use (IRWM Plan chapter)

Merced Region Encompasses the Northeastern Portion of Merced County

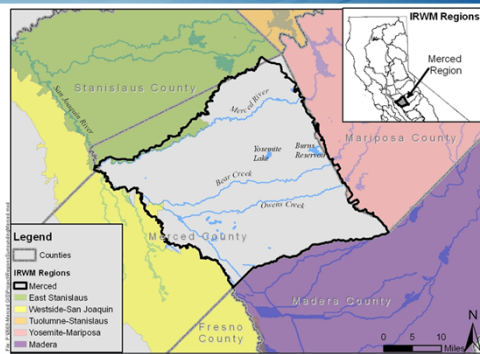


The Regional Boundary was Approved by DWR Because the Region is Unique

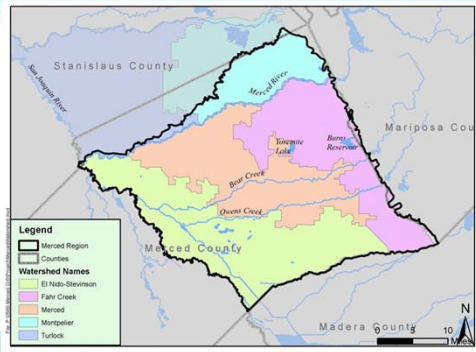
- ✓ Overlies (slightly larger than) the Merced Groundwater Subbasin
- ✓ No DWR-designated groundwater basins are located east of Merced County to the crest of the Sierra
- ✓ Land use patterns to the east are dominated by national forest, timber, recreation, tourism, and rangeland grazing of forested areas
- ✓ The Delta-Mendota Subbasin (West of the San Joaquin River) is unique due to the composition of the contributing parent/alluvial materials and reliance on imported water sources



The Region Has Neighbors on All Sides

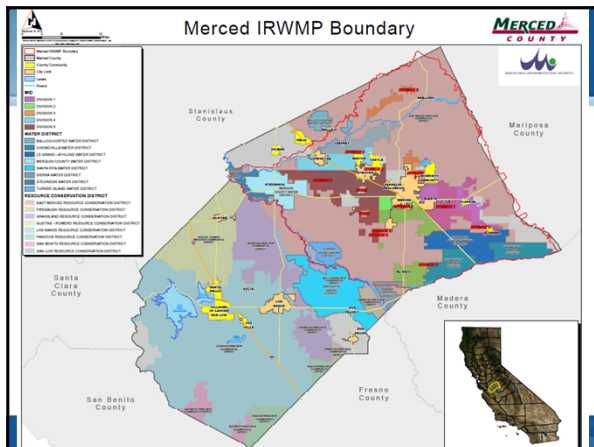


The Region Includes Five Primary Sub-watersheds



Water Service is Provided by Public and Private Suppliers

Public Water Suppliers	Private Water Suppliers
<ul style="list-style-type: none"> Merquin County Water District Le Grand Community Services District Le Grand/Ahlonc Water District Chowchilla Water District Winton Water and Sanitary District City of Atwater City of Livingston Merced Irrigation District Stevinson Water District Turner Island Water District Planada Community Service District City of Merced 	<ul style="list-style-type: none"> Meadowbrook Water Company Black Rascal Water Company Lone Tree Mutual Water Company

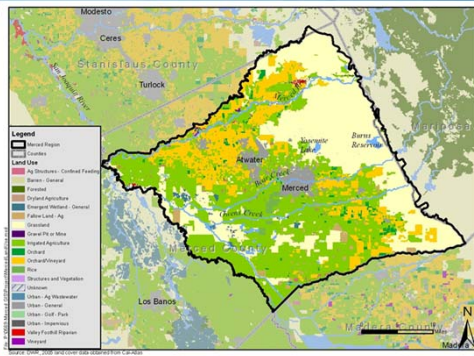


Much of the Region is within FEMA Flood Hazard Zones

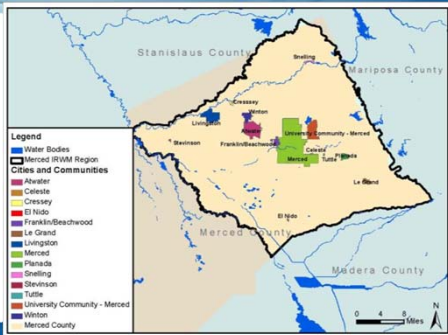


- ✓ Zone A: Inundation by the 100 year flood (not by detailed methods)
- ✓ Zone AE: 100 year flood zone, by detailed methods
- ✓ Zone AH: 100 year flood zone - shallow flooding (ponding) from 1'-3'
- ✓ Zone AO: 100 year flood zone - shallow flooding (sheet flow on sloping terrain) from 1'-3'
- ✓ Zone D: Possible undetermined flood hazards
- ✓ Zone X: Minimal flood hazard
- 0.2 Percent Annual Chance Flood Hazard: Inundation by 500 year flood

Merced Region Land Use / Land Cover



Land Use Agencies within the Region



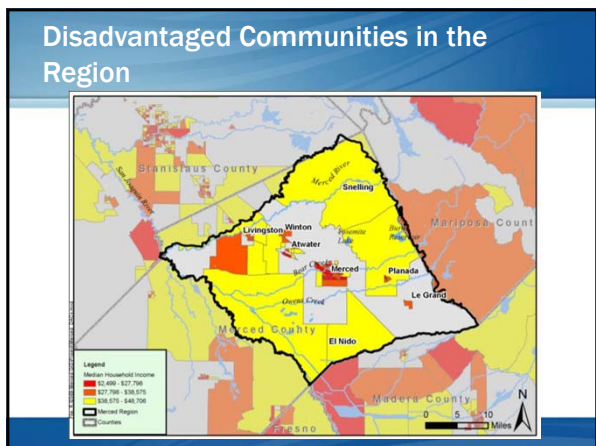
Impaired Waterbodies in the Merced Region

Water Body	Pollutant/ Stressor	Potential Sources
Deadman Creek	Chlorpyrifos	Agriculture
	<i>Escherichia coli (E. Coli)</i>	Unknown
Duck Slough	Chlorpyrifos	Agriculture
	Copper	Unknown
	<i>E. Coli</i>	Unknown
	Lead	Unknown
	Sediment Toxicity	Unknown
Jones Drain	Unknown Toxicity	Unknown
	Copper	Unknown
	Lead	Unknown
Miles Creek	Dissolved Oxygen	Unknown
	Diuron	Agriculture

Disadvantaged Communities (DACs) in the Region

City or Community	Population	Median Household Income	DAC*
El Nido	330	\$29,115	Yes
Winton	10,613	\$29,586	Yes
Le Grand	1,659	\$35,694	Yes
Planada	4,584	\$35,880	Yes
Merced	78,958	\$39,834	Yes
Atwater	28,168	\$42,226	Yes
Livingston	13,058	\$46,198	Yes
California	37,253,956	\$60,883	N/A

* A disadvantaged community (DAC) is a census block with a median household income (MHI) that is less than 80% of the statewide average MHI (\$48,706).



Merced Boasts a Diverse Population

City or Community	White	Hispanic / Latino	Asian	Other
City of Merced	30.00%	49.60%	11.80%	8.60%
City of Atwater	35.80%	52.60%	5.00%	6.60%
City of Livingston	8.00%	73.10%	17.00%	1.90%
County of Merced	31.90%	54.90%	7.40%	5.80%
California	40.10%	37.60%	13.00%	9.30%

Additional Information being Gathered to Complete the Region Description

- ✓ Groundwater and surface water supply projections for a 20-year horizon
- ✓ Water demands for a 20-year horizon
- ✓ Information on coordination with neighboring regions
- ✓ GIS mapping of future (build out) land use
- ✓ Additional information on the following water suppliers:
 - ✓ Merquin County Water District
 - ✓ Stevinson Water District
 - ✓ Black Rascal Water Company
 - ✓ Lone Tree Mutual Water Company
 - ✓ Meadowbrook Water Company

Please Provide Comments on these Working Draft Documents!

Please send comments to: awatson@rmcwater.com
by Tuesday, July 10th

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Regional Issues

- ✓ Cones of depression in the Chowchilla, Livingston and Merced areas due to groundwater pumping
- ✓ Projected growth and associated increased water demands
- ✓ Potential salt and nutrient issues
- ✓ Water supply and quality needs of disadvantaged communities
- ✓ Flooding impacts in Black Rascal Creek and other areas
- ✓ Water-based recreation needs
- ✓ Wastewater management needs
- ✓ Ecologically sensitive areas such as Grasslands Ecological Area, Merced River riparian corridor, and San Joaquin River corridor
- ✓ Others?

Example Regional Objectives from Other Regions

- ✓ Provide reliable water supply for residential and commercial, agricultural, and recreation needs
- ✓ Manage groundwater levels to reduce overdraft and minimize subsidence
- ✓ Maximize water conservation, water recycling, and capture and infiltration of runoff
- ✓ Protect and improve water quality
- ✓ Preserve / restore / enhance the water-related local environment
- ✓ Manage flood risks, including current acute needs and needs for future development
- ✓ Maximize stakeholder involvement and stewardship in water resource management
- ✓ Address water-related needs of disadvantaged communities
- ✓ Maintain affordability of water

Potential Objectives and Performance Measures Based on Local Management Plans

✓ Refer to Example Goals and Objectives Memorandum, Table 1

Example Objectives	Example Performance Measures
Protect and improve water supply reliability.	1. Occurrence of voluntary and / or mandatory water use restrictions
Maximize water use efficiency.	1. Estimated annual savings from demand management programs 2. Volume of water per year put to beneficial reuse
Protect and improve water quality for all beneficial uses, consistent with the Basin Plan.	1. New 303(d) listings and / or delistings 2. Surface water and groundwater quality
Minimize potential for groundwater overdraft.	1. Groundwater surface elevation
Protect, restore, and improve natural resources.	1. Acres of habitat protection / restoration / enhancement completed per year 2. Development trends in the largest and most ecologically sensitive areas of Merced County (including the Grasslands Ecological Area, Merced River riparian corridor, and San Joaquin River corridor)
Protect groundwater and surface water resources from contamination.	1. Number of programs employed / dollars committed to pollution prevention programs
Address water-related needs of disadvantaged communities (DACs)	1. Projects implemented that focus on meeting critical water-related needs of DACs

Example Objectives	Example Performance Measures
Minimize flooding impacts.	1. Flows at the Black Rascal Creek diversion 2. Recommendations implemented to mitigate nuisance flooding in problem areas
Improve coordination of land use and water resources planning.	1. Number of cooperative planning meetings held between land use and water resource planning entities 2. Number of General Plans with water resource elements
Protect and enhance water-based recreation opportunities.	1. Number of new projects providing new or enhanced water-based recreation opportunities
Minimize stormwater impacts on water quality.	1. Pollutant discharge events from stormwater systems 2. New 303(d) listings and / or delistings
Establish and maintain effective communication among water resource stakeholders in the Region.	1. Number of stakeholders and members of the public attending IRWM-related meetings 2. Number of collaborative projects jointly implemented by multiple entities
Effectively address climate change adaptation and/or mitigation in water resource management.	1. Number of projects implemented that consider climate change

Brainstorming Objectives

- ✓ Three questions to identify objectives:
 - ✓ What are high priority objectives for regional water management in the Merced region?
 - ✓ In what ways could the Merced region improve or integrate water management?
 - ✓ What should water management look like in the Merced region in 20 years?

Prioritizing Objectives

- ✓ Discussion: Should the objectives be prioritized?

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IRWM Plans Must Identify Critical Water-Related Needs of Disadvantaged Communities

- ✓ Merced Region is unique in that virtually the entire region is classified as a DAC
- ✓ Prop 84 has set-asides for projects designed to address critical water needs of DACs
- ✓ Implementing effective outreach is key to identifying critical DAC water needs

DAC Outreach Approach

- ✓ Outreach will be through the facilities of existing service or community organizations in the areas of:
 - ✓ Le Grand
 - ✓ Planada
 - ✓ South Merced
 - ✓ Atwater
 - ✓ Livingston
- ✓ DAC outreach meetings will:
 - ✓ Introduce the communities to the IRWM program
 - ✓ Provide a forum for communicating the water-related issues in each area

Potential Water-Related Issues of DACs

Organizations and Individuals to Contact Regarding DAC Needs

- ✓ Organizations
 - ✓ Golden Valley Health Center
 - ✓ Building Healthy Communities
 - ✓ Merced Outreach Project (MOP)
 - ✓ Housing Authority of the County of Merced
 - ✓ Community religious organizations
 - ✓ Others?
- ✓ RAC Members
 - ✓ Connie Farris, Meadowbrook Water Company
 - ✓ Irene De La Cruz, Between Friends / Entre Amigos
- ✓ Other Individuals?

Questions for RAC

- ✓ What communities or neighborhoods should be included in our DAC outreach?
- ✓ What are the water issues in these communities?
- ✓ How can we best involve these communities in IRWM planning?

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The IRWMP will be Supported by a Series of Technical Studies

- ✓ Climate Change
- ✓ Integrated Flood Management
- ✓ Water Conservation
- ✓ Salt & Nutrient Management
- ✓ Groundwater Recharge



Technical Workshops Are Planned to Understand Critical Needs and Objectives in Each Technical Area

- ✓ All RAC members, stakeholders, and members of the public are welcome to attend, and workshops will be publically noticed
- ✓ Workshops will be held here, in the Sam Pipe's Room, before the July RAC meeting
- ✓ Each Study will have a one-hour workshop
- ✓ Everyone is welcome to attend one or more workshops

Schedule for Technical Workshops

Time	Study / Event
9:00 am – 10:00 am	Salt and Nutrient Management
10:00 am – 11:00 am	Conservation
11:00 am – 12:00 pm	Climate Change
1:00 pm – 2:00 pm	Groundwater Recharge
2:00 pm – 5:00 pm	Regularly Scheduled RAC Meeting

Stakeholder Workshop Focused on Merced Region IRWMP

- ✓ Public workshop open to any interested stakeholders
- ✓ Purpose: provide an overview of the IRWM Program, Merced Region, timeline for Plan development, and opportunities to get involved
- ✓ Timing: August 2012

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Next Steps

- ✓ Comments to awatson@rmcwater.com by July 10, 2012
- ✓ Technical Workshops: July 24, 2012 from 9:00 am – 2:00 pm
- ✓ Next Meeting: July 24, 2012 from 2:00 pm – 5:00 pm
- ✓ Topics for Next Meeting
 - ✓ More objectives and performance measures
 - ✓ Resource management strategies
 - ✓ Project review process
- ✓ Materials in Advance of Next Meeting
 - ✓ Final RAC Charter and Governing Procedures
 - ✓ Revised Plan Inventory TM, Land Use Planning TM
 - ✓ Draft Objectives TM
 - ✓ Draft Resource Management Strategies TM
 - ✓ "Straw man" project review process approach

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Contacts

- ✓ **Merced RWMG Work Plan Management Committee**
 - ✓ Merced Irrigation District- Hicham Eital: heltal@mercedid.org
 - ✓ County of Merced- Ron Rowe: rrowe@co.merced.ca.us
 - ✓ City of Merced- Michael Wegley: wegleym@cityofmerced.org
- ✓ **Consultants**
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