



Coachella Valley Regional Water Management Group









September 13, 2012





Agenda

- Welcome Introductions
- Overview of CV IRWM DAC Program
- Introduction to CV IRWM Planning
- DAC Outreach Efforts and Planning
- Initial DAC Characterization Maps
- 501(c)3 Participation in DAC Characterization/Mapping
- Groundwater Quality and Flood Risk Studies
- Issue Identification and Project Development
- How You Can Participate



Overview of DAC Program

- Expanded DAC outreach activities
- Use of GIS data to identify and characterize smaller DAC areas and flood control needs
 - Research by local non-profit organizations
- Identification of DAC issues
- Identification DAC projects
- Development of engineering and management plans for priority projects
- Coordination with IRWM Plan Update



Introduction to IRWM Plan

- Integrated Regional Water Management (IRWM) goals
 - Develop long-term water supply reliability,
 - Improve water quality, and
 - Protect natural resources.
- The CV IRWM Region published its first IRWM Plan in 2010 (www.cvrwmg.org)
- \$4 million received in 2011 from DWR for projects of WATER.



DEPAR

TIE OF CALIFORN

Where is Coachella Valley IRWM Region?



- Generally follows the Whitewater River watershed, also known as the Coachella Valley.
- Primarily within Riverside County, some portions of San Bernardino and San Diego counties.



Who is Leading the Coachella Valley IRWM Program?

- The Coachella Valley Regional Water Management Group (CVRWMG), which is composed of the five Coachella Valley water purveyors.
 - Coachella Water Authority
 - Mission Springs Water District
 - Coachella Valley Water District
 - Desert Water Agency
 - Indio Water Authority





IRWM Accomplishments

- IRWM Plan Adopted: December 2010.
- \$1 million IRWM Planning Grant Awarded: February 2011
- \$4 million IRWM Implementation Grant Awarded: August 2011
- \$1 million IRWM Disadvantaged Community (DAC) Outreach Grant Awarded: February 2012
- DAC Outreach Program: Now 2013
- Process to Update IRWM Plan: Now 2014







IRWM PLAN UPDATE KEY COMPONENTS





DAC 2010 IRMW Plan Outreach Efforts and Planning

- DAC Issues Group
- DAC-specific issues identified
- Grant funding awarded to projects that benefit DACs:
 - Short-Term Arsenic Treatment Project awarded approximately \$550,000.
 - Project involves installation of reverse osmosis systems in DACs in the East Valley to address arsenic concerns from non-municipal groundwater wells
 - Sponsored by a local non-profit serving DACs: Pueblo Unido CDC
 - Groundwater Quality Protection Program Desert Hot Springs awarded approximately \$1,000,000
 - Project involves extending a municipal wastewater collection system to eliminate the need for on-site septic systems. This project will benefit DACs in Desert Hot Springs.
 - Sponsored by a public agency: Mission Springs Water District



DAC 2010 IRMW Plan Outreach Efforts and Planning

Overview of DAC-specific issues identified in the 2010 IRWM Plan

DAC Water-Related Issues				
Торіс	Issue Statement			
Affordability	Addressing DAC water-related issues without increasing rates. ¹			
Connection to the Sewer System	The need for septic to sewer conversion is great, but jurisdictional issues or high			
	costs may delay or prohibit project construction. ¹			
Water Supply	Other groundwater sources, such as wells above the perched aquifer, hot water			
	basin wells, and agricultural wells, are not suitable for drinking. In places where			
	wells are contaminated, other water sources such as hauled water can be scarce or			
	entirely inaccessible. ¹			
	Many DACs are not within urban areas, making water supply even more difficult.			
Woton Supply	One example is concentrated communities of farm workers in rural areas. Rural			
water Suppry	water treatment systems (point of source or other new technologies) and training			
	are needed in these rural/remote areas. ¹			
	Flooding and storm water management improvements are needed to address			
Flooding and Stormwater	flooding hazards in DAC areas, particularly in unincorporated communities. ²			
	2010			
1. CVRWMG DAC meeting - May 20, 2010				
2. 2007 DAC Community Planning Group Notes; CVRWMG DAC meeting - May 20, 2010				



DAC Outreach Program Companion Project to IRWM Plan Update



- Project Development, Identification, Planning and Engineering
- DAC Outreach Program Model



Outcomes

Interaction between the DAC Program and IRWMP Update

IRWM Plan Update

Public/Tribal Outreach

DAC Water Quality Evaluation

Integrated Flood Management

DAC Technical Support



DAC Program

Public/Tribal Outreach

DAC Issue Characterization

DAC Flood Risk Mapping

DAC Project Technical Support



CVIRWM DAC Program Organization





Outreach

- Engage Planning Partners July
- Expand to agencies and non-profit groups in workplan July and August
- Expand with recommendations from above and from DAC Workshop - September
- Mail, email, phone, web, fliers
- All contact information added to DAC outreach database
- Expand to broader community as appropriate -October/January



CVRWMG Website: www.cvrwmg.org



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Regional water management

GETTING INVOLVED PROJECTS

ADDITIONAL RESOURCES

Disadvantaged Community (DAC) Outreach Project

LIBRARY



MAPS

Background Info

The Coachella Valley Regional Water Management Group (CVRWMG), has entered into a contract with the Department of Water Resources (DWR) to develop a Disadvantaged Community (DAC) Outreach Demonstration Program for the Coachella Valley Integrated Regional Water Management Region.

The CVRWMG has contracted with RMC Water and Environment, Inc.,

and Integrated Planning and Management Inc., to perform outreach and work with DAC groups related to water in the Coachella Valley.

Project Scope

ABOUT US

The DAC Program methods will include expanded outreach efforts, the development and use of mapping data to characterize smaller DAC areas and flood control needs within DAC areas, a needs assessment for DACs in the Region, identification of existing or proposed projects intended to benefit DACs, development of engineering and project management plans for priority DAC projects, and work items to ensure that information and outcomes from the DAC Program are included within the Coachella Valley IRWM Plan Update. This 12-16 month project along with four others will inform DWR's statewide DAC program in the future.

Project Documents

<u>Workplan</u> <u>Contact Update Form</u> <u>DAC Library</u>

Project Links

DAC Mailing List Add or Update





Indio Water Authority Your Water Our Responsibility.

P



Characterization of DAC Areas and Groups

DAC Groups

- Characterize regarding water needs and issues
- Characterize groups that are not involved with water but related
- Area/issue served
- Form to complete
- Other sources

DAC Areas

- More detailed view
- Map/GIS based information
- Census and beyond
- Other sources
 - WQ issues
 - Affordability
 - WW issues
 - Anomalies



Characterization and Maps

- Characterize Areas and Neighborhoods
 - Census and Demography
 - Tapestry Community Data
 - Comparative measures for DAC
 - DWR
 - Local Indicators and Data
 - Geographic Economic Data
 - Areas of focus
 - Additional information and mapping



Study Area

- IRWM Areas
- DAC Areas according to DWRWater Districts for Reference
- Later Slides show DAC status
- MHI = \$60,882 (2010)
- DAC = 80% MHI \$48,706
 SDAC = 60% MHI \$36,529





CVRWMG Median Household Income as Percent



CVRWMG Population Density per Square Mile



CVRWMG Dominant Tapestry Profile



Tapestry Characterization Combinations

Dominant Tapestry by Tract	12. Up and Coming Families	16. Enterprising Professionals	24. Main Street, USA	31. Rural Resort Dwellers	38. Old and Newcomers	43. The Elders	49. Senior Sun Seekers	57. Simple Living
01. Top Rung	13. In Style	19. Milk and Cookies	29. Rustbelt Retirees	33. Midlife Junction	38. Industrious Urban Fringe	46. Rooted Rural	52. Inner City Tenants	58. NeWest Residents
10. Pleasant-Ville	15. Silver and Gold	21. Urban Villages	30. Retirement Communities	35. International Marketplace	41. Crossroads	47. Las Casas	58. Rural Bypasses	59. Southwestern Families

The versatility of Community Tapestry provides several methods of dividing the 65 segments into summary groups for a broader view of U.S. neighborhoods.

- LifeMode: 12 summary groups based on lifestyle and lifestage
- Urbanization: 11 summary groups based on geographic and physical features along with income
- Custom or industry specific: Optimizing groups to provide more focused applications

LifeMode Group Segment Codes L1 High Society 01, 02, 03, 04, 05, 06, 07 L2 Upscale Avenues 09, 10, 11, 13, 16, 17, 18 L3 Metropolis 20, 22, 45, 51, 54, 62 L4 Solo Acts 08, 23, 27, 36, 39 L5 Senior Styles 14, 15, 29, 30, 43, 49, 50, 57, 65 L6 Scholars and Patriots 40, 55, 63 L7 High Hopes 28, 48 L8 Global Roots 35, 38, 44, 47, 52, 58, 60, 61 L9 Family Portrait 12, 19, 21, 59, 64 L10 Traditional Living 24, 32, 33, 34 L11 Factories and Farms 25, 37, 42, 53, 56 L12 American Quilt 26, 31, 41, 46



Tapestry Community

Characterize neighborhoods



Detailed descriptions at: http://www.geowize.com/PDF%20Docs/co mmunity-tapestry-handbook.pdf

38 Industrious Urban Fringe



Demographic

Family is central to Industrious Urban Fringe neighborhoods. Slightly more than half of these households have children. Married-couple families (54 percent of households) and single-parent families (17 percent) comprise most of these households. Multigenerational households are relatively common. The comparatively low median age of 28.5 years reflects the high proportion of children. Approximately 57 percent of these residents are Hispanic. More than onefourth of the residents are foreign born, bringing rich, diverse cultures to these urban outskirt neighborhoods.

Socioeconomic

The median household income is \$42,901; the median net worth is \$54,484. The large average household size of 3.42 lowers the amount of discretionary income compared to segments with similar income. Settled on the fringe of metropolitan cities, these households take advantage of the proximity to metropolitan cities to pursue employment opportunities. These residents rely mainly on work in the manufacturing, construction, retail trade, and service industry sectors for their livelihood. Educational attainment levels are lower than U.S. levels, and the unemployment rate is higher.

Residential

Approximately half of the Industrious Urban Fringe households are located in the West; 40 percent are in the South. States with the highest household concentrations are California, Texas, and Florida. Homeownership is at 67 percent, and the median home value is \$166,992. Single-family dwellings are the dominant household structure in these neighborhoods. Living farther out from urban centers allows many to find the space for an affordable home in which to raise their families.

Preferences

Industrious Urban Fringe households balance their budgets carefully. Mortgage payments take priority. They shop at Wal-Mart, Kmart, Target, and other major discount stores for baby and children's products. They dine out less often than average households. Many have no financial investments or retirement savings other than their homes and are less likely than average to carry health insurance.

Keeping in touch is important to these residents. They often have a second phone line at home and purchase various phone services. They enjoy watching movies, both at theaters and at home. It's quite common for them to make multiple visits to a movie theater in a month. Newspapers and magazines are not the best media to reach the *Industrious Urban Fringe* households. Television and radio are more effective. Residents watch television just as much as average U.S. householders but subscribe to cable less often. They listen to the radio frequently, tuning in to contemporary hit and Hispanic stations.





CVRWMG Dominant Tapestry Profile



Northern/West





South/East



Avonuo (18

CA UN



Northern and Southern CVRWMG Study Area





Indio NDAC Population Density and MHI







Oasis DAC Population Density and MHI





Characterization and Maps

- Characterize Areas and Neighborhoods
 - Census and Demography
 - Tapestry Community Data
 - Comparative measures for DAC
 - DWR
 - Local Indicators and Data
 - Geographic Economic Data
 - Are these accurate characterizations?
 - Areas of focus
 - Additional outreach, information and mapping



DAC Mapping - Non-Profit Assistance

- Non-profits hired to conduct research to identify location of smaller DAC communities
- September 13 Workshop Fill out "CV IRWM DAC Identification Project - Non-Profit Participation Form"

Form sent to known DAC stakeholders

- Late September Non-profit interviews conducted.
 Selection based on past project work, type of expertise, and geographical focus area
- Project work completed in January 2013



DAC Groundwater Quality Evaluation -Work Flow Diagram

Collect & Evaluate Data

Identify Areas of Concern

Identify Groundwater Quality & COCs in Areas of Concern

Collect existing monitoring plans

dentify and prioritize data gaps

IRWMP Projects to directly address DAC needs Recommend specific studies to address data

gaps

Identify & evaluate projects to restore drinking water quality



Coachella Valley Groundwater Basins



DAC Areas of Concern



List of Data Requested

- Groundwater Quantity Data
 - Groundwater elevations
 - DAC and/or municipal supply well locations
 - Well construction details (specifically screened depths)
- Groundwater Quality Data
 - Water quality/monitoring data
 - Information to establish the water-bearing zone that correlates with the water quality data
 - Geostatistical analyses
 - Plume delineations (natural and man-induced plumes), including depths
 - Information regarding existing groundwater treatment systems
- Monitoring
 - Monitoring programs
 - Location and screened depths of wells being monitored
 - Water quality sampling and analysis parameters
 - Frequency of sampling/data evaluation
 - Reporting methodologies
- Other Information
 - Location of septic systems
 - Groundwater Management Plans
 - Groundwater-specific studies



Example: GAMA Data





Example: USGS Groundwater Quality Study





Source: Ground-Water Quality Data in the Coachella Valley Study Unit, 2007: Results from the California GAMA Program

Constituents Analyzed

- Dissolved oxygen
- pH
- Alkalinity
- Turbidity
- Volatile Organic Compounds
- Polar pesticides & degredates
- Pesticides & degredates
- Pharmaceutical compounds
- Dissolved Organic carbon
- Wastewater indicator compounds
- Perchlorate

- 1,2,3-trichloropropane
- Nutrients
- Major and minor ions and trace elements
- Arsenic, chromium and iron
- Hydrogen & oxygen isotopes
- Carbon & Carbon14 isotopes
- Uranium isotopes
- Radioactivity
- Noble gases
- Bacterial indicators
- Viral indicators



Flood Management Study

- Identify and characterize flooding locations
- Utilize existing information FEMA
- Add State info "Flood Future: Recommendations for Managing CA's Flood Risk" Report
- Identify current and planned flood control projects



FEMA Flood Hazards





Existing Information on Flooding (FEMA) Flood Hazard with Landuse Encroachments



Existing Information on Flooding (FEMA) Flood Hazard with Landuse Encroachments



Identification of DAC Issues – Preliminary List

- Issue Cost of conversion to combined/advanced treatment or connection to sewer
- Issue Provision of quality water supply and wastewater services
- Issue Accurate DAC stakeholder data
- Issue Coordination between cities, tribes, county, and water agencies



Project Identification and Development

- Identify potential DAC projects
- Project selection Round 2 Prop 84 Implementation Grant
 - Fast tracking "ready-to-go" project(s)
 - Enter project into database from September 10 October 19
 - Project evaluated by Planning Partners and CVRWMG
- Future rounds of Prop 84
 - Enter project into database
 - Round 3 in 2015



How We Can Help You With Your Project

- Provide technical support with workplan, budget, schedule, and supporting materials
- Guidance on what makes a project more competitive
- Entering project into database
- If selected, support developing budget, workplan, and schedule





How You Can Participate in this Program

- Participate in our DAC Workshops
- Help us reach out to other DAC stakeholders
 - Complete Stakeholder Contact and Issues Update form
- Contact us if your Non-Profit Organization is interested in working on DAC characterization

Complete the Non-Profit Participation Form

Join the DAC Issues Group, to get more involved

Complete Stakeholder Contact and Issues Update form







Coachella Valley Regional Water Management Group







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