Disadvantaged Community Involvement Program (DACIP): Engaging Underserved Communities in Regional Water Management

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Project Overview

Disadvantaged Community Involvement Program (DACIP)

• Funded by Prop 1 via CA Department of Water Resources

• Main Goals
  o Identify and engage DACs
  o Increase understanding of DAC water resource needs
  o Develop data-driven solutions for selecting projects for technical assistance
Completed Work

Establish Pilot Area

Data Collection, Processing, and Synthesis
Completed Work

- Establish Pilot Area
- Data Collection, Processing, and Synthesis
- Perform DAC Modeling
- Identify Priority DACs
DAC Modeling

- Existing Models
- Models Used
  - Stress Model
  - Street Weighted Model
    (in collaboration with Dr. Mike Reibel – Cal Poly Pomona)
Completed Work

1. Establish Pilot Area
2. Data Collection, Processing, and Synthesis
3. Perform DAC Modeling
4. Identify Priority DACs
5. Community Outreach and Education
Completed Work

Establish Pilot Area

Data Collection, Processing, and Synthesis

Perform DAC Modeling

Identify Priority DACs

Community Outreach and Education

Community and Institutional Needs Assessments
Community and Institutional Needs Assessments

6. What water-related issues are of greatest concern in your community?*

Choose your top 3 concerns.

- Drinking water quality
- Drinking water availability
- Water availability (wildfire suppression, agriculture, other)
- High cost of water
- Issues related to wastewater (sewer or septic systems)
- Flooding

Top 3 Water-Related Concerns Within Communities

<table>
<thead>
<tr>
<th>Concern</th>
<th>Survey Count</th>
</tr>
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<tbody>
<tr>
<td>Drinking water quality</td>
<td>241</td>
</tr>
<tr>
<td>High cost of water</td>
<td>189</td>
</tr>
<tr>
<td>Trash and industrial contamination</td>
<td>151</td>
</tr>
<tr>
<td>More shade trees</td>
<td>108</td>
</tr>
<tr>
<td>Access to clean safe water</td>
<td>108</td>
</tr>
<tr>
<td>Wastewater</td>
<td>94</td>
</tr>
<tr>
<td>Water available for fire and agriculture</td>
<td>89</td>
</tr>
<tr>
<td>Drinking water availability</td>
<td>68</td>
</tr>
<tr>
<td>Flooding</td>
<td>57</td>
</tr>
<tr>
<td>Water recreation safety</td>
<td>21</td>
</tr>
<tr>
<td>Regulations</td>
<td>20</td>
</tr>
<tr>
<td>Other</td>
<td>47</td>
</tr>
</tbody>
</table>
Themes

Community & Institutional
- Needs & Strengths
- Availability & Quality of Water Resources
- Institutional-Community Engagement
- Institutional-Community Collaborations

Institutional
- Barriers to Accessing Water Resources
- Water Resources Infrastructure & Regulations
- Agency Capacity & Technical Needs to Serve Community
- Climate Change

Ventura Example

4. List three things you like about your community.

5. What are the three things your community needs the most?
Connects, Disconnects, Opportunities

- **Disconnects**
  - Affordable Housing & Development
  - Water Rates vs Regulatory Compliance, O&M
  - Institutional-Community Engagement/Relationships

- **Connects**
  - Climate Change Concerns (infrastructure, droughts, supply)
  - Unsheltered Populations in Waterways
  - Barriers to Engagement (internet, time, resources)

- **Opportunities**
  - Utilize greenspace to address Water Quality
  - Diverse & Flexible Engagement Strategies
  - Community inclusion in IRWM and other collaborations.
Ongoing and Future Work

Develop Project Evaluation Tool

• Technical Assistance Proposed Projects Evaluation Dashboard (TAPPED)
  • Assists decisionmakers with data-driven project evaluation and selection
  • Uses multi criteria decision analysis (MCDA)
  • Interactive and user-friendly
Project Evaluation

Select Project Type → Select Criteria → Assign Relative Importance → List of Ranked Projects

TAPPED

Create Evaluation for Education

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Project Rankings

1. A STEM and Water Resources Summer Youth Program CSUSB Water Resources Institute
2. Dual Language (Spanish and English) learning workshops based on water topics relevant to Agriculture, Landscaping and Restoration in Ventura County.
3. Garden Acres Mutual Water Company Sustainable Water Assurance for the Next Generation (SWAN) Bilingual Education Program

Project Locations

[Map of Georgia showing project locations]
TAPPED Demo

TAPPED
Technical Assistance Proposed Projects Evaluation Dashboard
Disadvantaged Community Involvement Program

Login

About TAPPED
TAPPED is an interactive online application for evaluating technical assistance projects using a data-driven approach. TAPPED allows for project data exploration, project ranking, and project evaluation by combining project description data, evaluation criteria, and reference data.
Ongoing and Future Work

- Develop Project Evaluation Tool

  - Project Selection

  - Project Technical Assistance
Questions?

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