Climate Change Analysis in IRWM Plans

- A Brief History of Climate Change Legislation Requirements in IRWM Plans
- IRWM Plan Standards and the Climate Change Handbook for Regional Planning
- Overview of IRWM Project Types Addressing Climate Change
- Example Projects



Background of IRWM Plan

- IRWM Planning Act of 2002 (SB1672 Costa)
 - Encouraged the formation of regions and the preparation of IRWM plans
 - Identified IRWM Plan Standards, but required DWR to fully develop
 - No funding or incentives provided
- IRWM Plans not mandated, but required to receive Implementation Grant Funds



History of IRWM Climate Change Legislation

- Proposition 50, the Water Security, Clean Drinking Water,
 Coastal and Beach Protection Act of 2002
 - Authorized \$500M for IRWM Program
 - Program Guidelines established 15 IRWM Plan Standards
 - IRWM Plans were evaluated and scored as part of Implementation grant application reviews
 - "Plan" refers to an IRWM Plan or the collection of individual planning documents that function as an IRWM Plan or an Integrated Coastal Watershed (ICWM) Plan.
 - No specific mention of climate change requirements but water supply,
 water quality, infrastructure and DAC goals address climate change



History of IRWM Climate Change Legislation

- Proposition 84, the Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Bond Act of 2006 – climate change requirements specified
 - Authorized \$1B for IRWM Program
 - \$30M for IRWM Plan development
 - SB 2x-1 (Perata), 2008
 - Repealed and replaced IRWM Planning Act of 2002
 - Revised existing and added IRWM Plan Standard (16 Total)
 - DWR updated IRWM Guidelines in 2010 and 2012
 - 2010 Guidelines required IRWM plans to include a preliminary analysis of the effects on the region due to climate change
 - 2012 Guidelines required Climate Change Vulnerability Assessment



History of IRWM Climate Change Legislation

- Proposition 1, The Water Quality, Supply, and Infrastructure Improvement Act of 2014
 - Authorized \$510M for IRWM Program
 - IRWM 2016 Plan Standards: Updates to 2012 IRWM Plan Standards
 - Requires IRWM plans to address climate change adaption and mitigation
 - Affects eight of 16 Plan Standards
 - Region Description
 - Plan Objectives
 - Resource Management Strategies (RMS)
 - Project Review Process
 - Plan Performance and Monitoring

- Local Water Planning
- Local Land Use Planning
- Stakeholder Involvement
- Climate Change



IRWM Plan Standards Addressing Climate Change Handbook Requirements

Climate Change

- At a minimum, the vulnerability evaluation must be equivalent to the vulnerability assessment contained in the Climate Change Handbook for Regional Water Planning, Section 4 and Appendix B (Vulnerability Assessment Checklist)
- A list of prioritized vulnerabilities, based on the vulnerability assessment and the IRWM's decision making process, which includes a determination regarding the feasibility for the RWMG to address the priority vulnerabilities

Region Description

- Describe likely climate change impacts as determined by the Vulnerability
 Assessment in the Region Description
- Resource Management Strategies
 - Demonstrate how the effects of climate change on its region are factored into your region's RMS

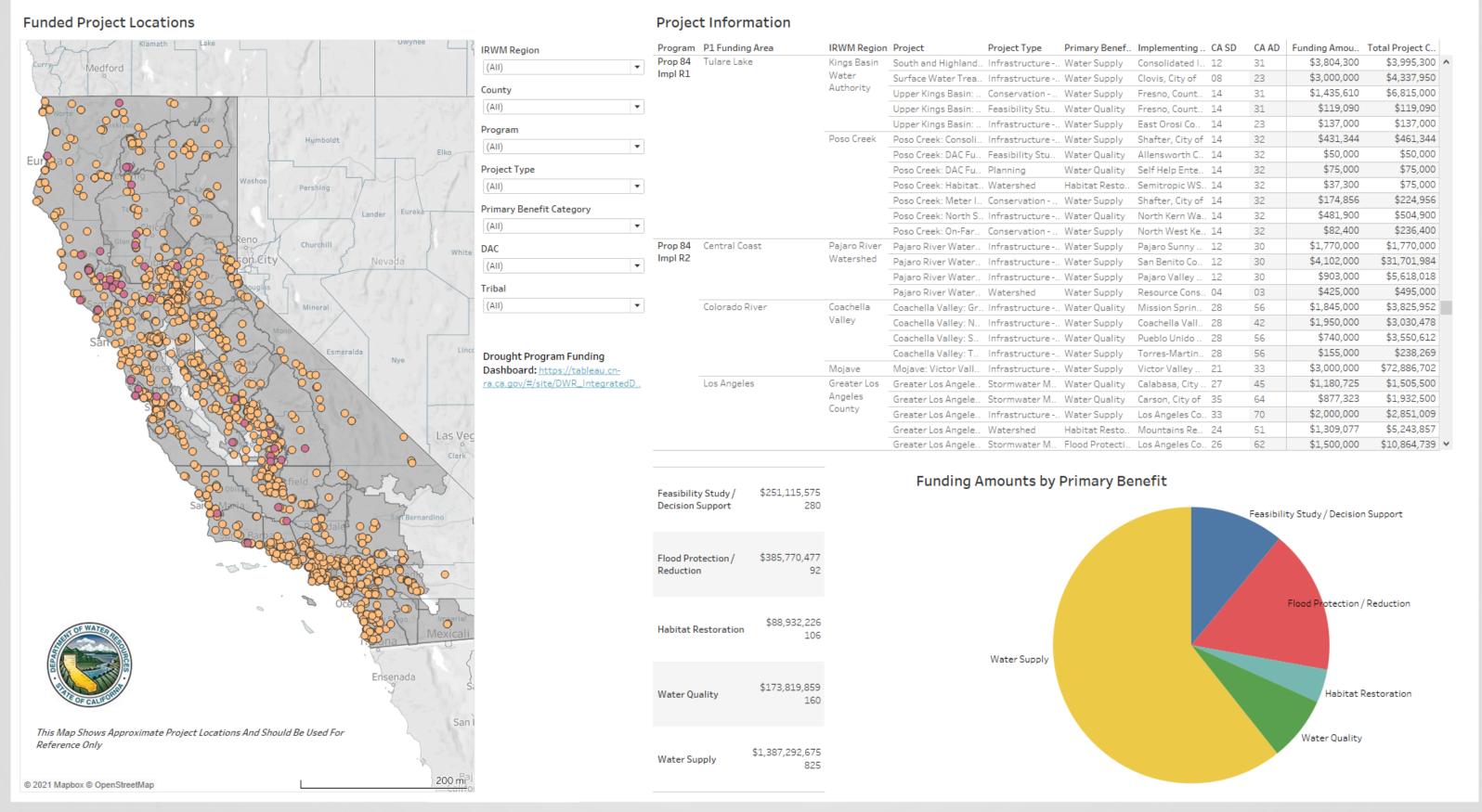


Overview of IRWM Project Types and Relation to Climate Change

- Groundwater or Surface Water Projects that Reduce Demand or Increase Supply
- Reducing Water Demand to Increase Supply
- Flood Projects Address Flashy Floods and Provide Other Benefits
- Stormwater Capture Projects to Increase Water Supply and/or Reduce Flooding
- Habitat Restoration
- DAC and Tribal Outreach



Tableau Presentation for Project Types – I will do this interactively





Example Projects

To Be Determined – as time allows

Comments or Questions?

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