



Napa Valley Groundwater Sustainability Plan Advisory Committee

Napa Valley Drought Contingency Plan

February 11, 2021

Meeting Agenda

- What is a Drought Contingency Plan?
- Progress to Date
 - Water Supply and Demand Analysis
 - Vulnerability Assessment
 - Mitigation and Response Actions
 - Administrative and Organizational Framework
- Interface between the DCP and GSP
- Next Steps for the DCP





What is a Drought Contingency Plan?

Drought Contingency Plan

- Drought Contingency Plans address
 - How will we recognize the next drought in early stages
 - How will drought affect us
 - How can we protect ourselves from the next drought
- Drought Resiliency Projects
 - These projects are referred to as "mitigation actions" in the DCP
 - Are implemented to mitigate effects of drought



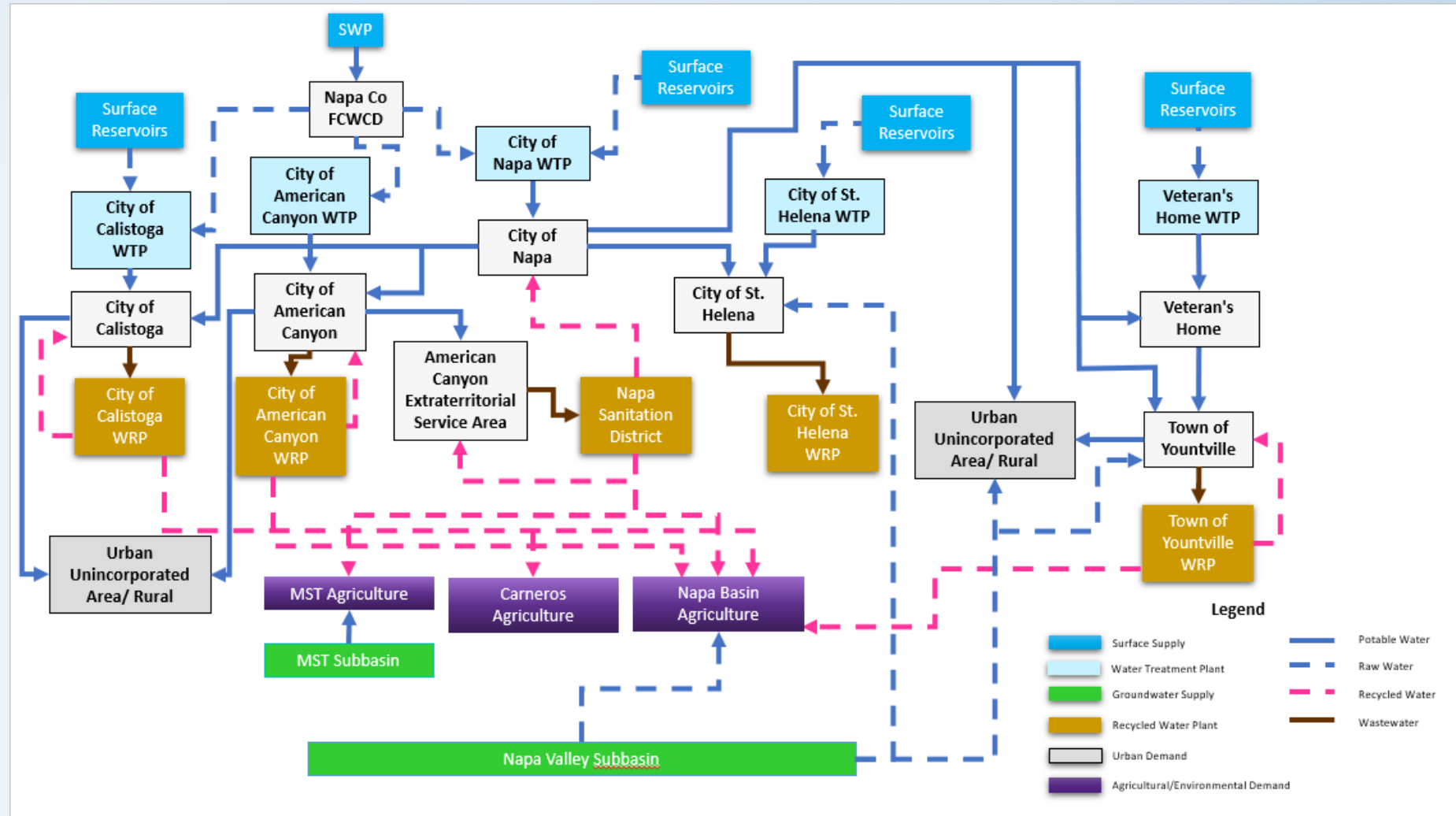
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Progress to Date and Ongoing Activities

The Task Force Partner Agencies are Physically Linked

- Each of the water supply agencies has shared water supplies or linkages
- Understanding the linkages is critical to addressing drought responses



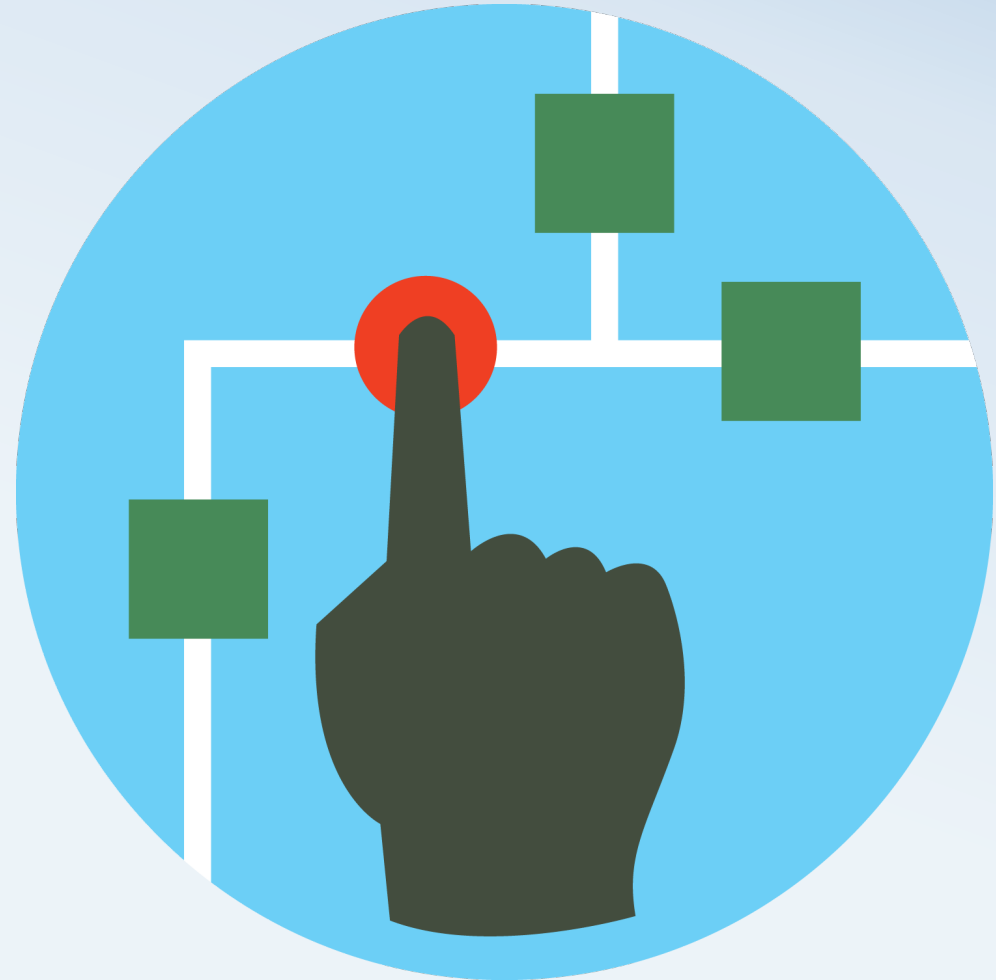
Water Supply and Demand Assessment

- Water supply and demand assessment identified a heavy reliance on limited number of supply sources
- **As a region, there is enough water supply across all year types**
 - *However, some municipalities face supply deficits during drought conditions*

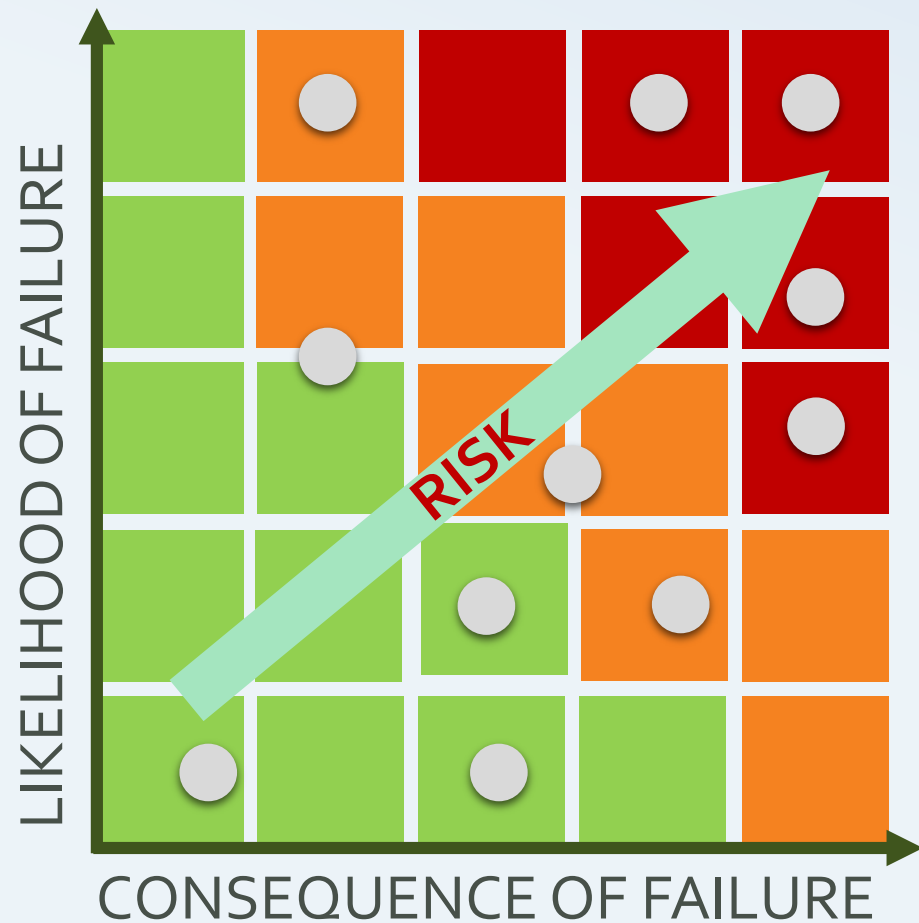


Vulnerability Assessment

- Evaluates specific threats to critical water resources
 - Forms the basis for development of drought response and mitigation actions (i.e., projects)
- In the context of this DCP:
 - *Drought Vulnerability is the extent to which the Partner Agencies, and the region, are exposed or susceptible to risk*



How Can We Assess Vulnerability?



- Risk is a combination of:
 - Likelihood of occurrence
 - Consequences of occurrence
- **Risk = Consequence x Likelihood**
 - Consequence = significance of the supply source (both regional and local)
 - Likelihood = uncertainty factors that contribute to loss of supply

Climate Change is also Considered



High level assessment of climate change in the Napa Valley:

- Climate Change is projected to make planning for water supply and demand imbalances even more challenging
- While existing water supply data does account for climate variability, climate change has the potential to impact the availability and reliability of supplies
- Future climate impacts, including changes to temperature and precipitation, must be considered when assessing supply
- DCP and GSP are consistent, however GSP includes more detailed analysis

Summary of Vulnerability Assessment

- There are different risks for different agencies, depending on the supply
- Each agency's level of exposure is dependent on their level of reliance on any one given supply source
- The likelihood of supply reduction is based on uncertainty factors and regional significance of each supply
- Mitigation and response actions (i.e., projects) should focus on reducing consequence and/or reducing likelihood



What are Drought Mitigation & Response Actions?

Drought Mitigation Actions

- Programs and strategies implemented during non-drought period
- Address water supply vulnerabilities specific to this region
- Reduce the need for drought response activities during drought

Drought Response Actions

- Near-term actions, triggered during specific stages of drought, to manage limited supply and decrease severity of immediate impacts
- Response actions can be quickly implemented and provide expeditious benefits

Mitigation and Response Actions – Progress to Date

- Developed and discussed Mitigation and Response Actions list
- DCP metrics were used to evaluate Mitigation and Response Actions
- Further evaluating and developing 3 mitigation actions



Administrative and Organizational Framework

Describes the Structure and Identifies who Implements the DCP Tasks

- Includes roles, responsibilities, and procedures necessary to:
 - Conduct drought monitoring
 - Initiate response actions, including emergency response actions
 - Initiate mitigation actions
 - Describe a process and schedule for monitoring, evaluating, and updating the DCP (generally every 5 years)
- Based on Task Force feedback, currently drafting the framework to help support DCP implementation





Interface between the DCP and GSP

Introduction

- DCP scope was developed in Spring 2019 and emphasized:
 - Strong, project-oriented outcomes
 - Collaboration to maximize support for project implementation funding
- Subsequent formation of the Napa Valley GSA, and future development of the GSP, presented an opportunity for regional collaboration
- Several commonalities between DCP and GSP tasks interface



Comparison of DCP and GSP Tasks

Overview of DCP and GSP Task Linkages	
DCP	GSP
Task 1. Initial Drought Contingency Plan Steps	Task 9. Napa Valley Subbasin Sustainability Goal
Task 2. Background, Study Area, and Participating Agencies	Task 2. Plan Area
Task 3. Water Supplies and Demands	Task 6. Groundwater and Surface Water Conditions Task 7. Historical, Current and Projected Water Supplies
Task 4. Drought Monitoring Process	
Task 5. Vulnerability Assessment	Task 8. Water Budget
Task 6. Mitigation Actions	Task 11. Sustainable Groundwater Management: Projects and Management Actions Task 12. Plan Implementation
Task 7. Response Actions	
Task 8. Organizational and Implementation Framework and Stakeholder Outreach	11.2. Education and Collaboration Communication and Outreach
Task 9. Update Process	12.5. Periodic Evaluation by GSA
Task 10. Drought Contingency Plan Document	Task 12. Plan Implementation <ul style="list-style-type: none"> 12.1. Summary 12.2. Summary of Recommendations
Task 11. Project Management	.

Importance of Collaboration between Studies



- Napa Valley has limited new water supply options, both studies are likely to identify a similar set of issues and potential solutions
- DCP and GSP are complementary:
 - Demonstrate a united effort on leveraging local, state, and federal funds to benefit regional water management
 - Provide equitable benefit and costs
 - Create broad stakeholder support for future project implementation

Continued Interface between the DCP and GSP

- The DCP will be completed prior to completion of the GSP
- Consulting teams will integrate information as appropriate
- Future implementation partnerships are anticipated between the DCP and GSA





Next Steps for the DCP

Next Steps for DCP

- DRAFT DCP due Spring 2021
- Napa Valley DCP website for information and input is up and running

www.napawatersheds.org/dcp

- Questions or Comments?

