



Urban Water Management Plan

Public Workshop
February 17, 2021



Video: Intro to the Urban Water Management Plan Update

The graphic is set against a light blue background. On the left, there is a white-bordered box containing a checklist. At the top of this box is a horizontal bar and a small circular icon of a house and trees. The checklist items are:

- Water Supply Reliability**
- Conservation**
- Water Quality**
- Future Demand**
- Climate Change**

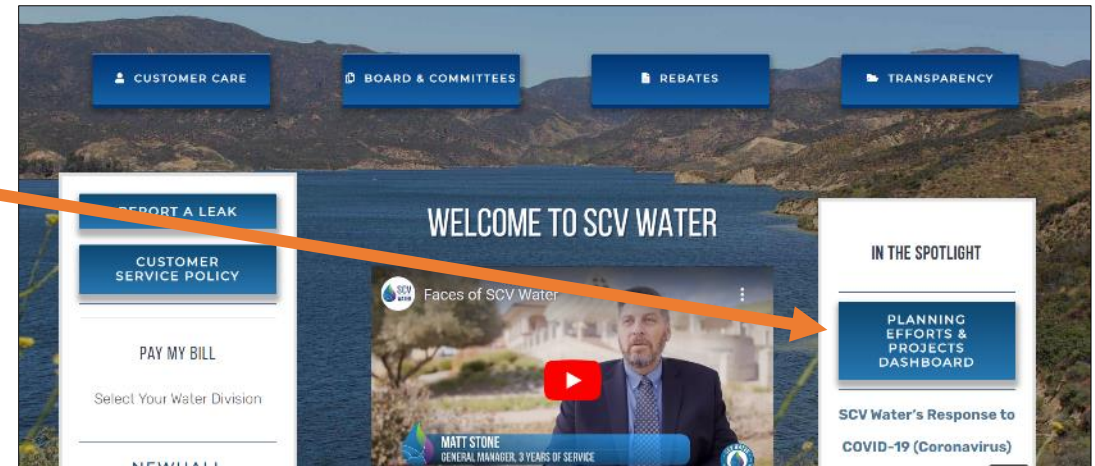
Below the checklist are several horizontal lines representing text. To the right of the checklist is a large purple rectangle with the text 'URBAN WATER MANAGEMENT PLAN' in white, bold, sans-serif capital letters, stacked vertically.



This public workshop is being recorded and will be posted on the website:

www.yourSCVwater.com

Go to:
Planning Efforts &
Projects Dashboard to
Learn More



Agenda

1. Welcome

2. Presentations and Discussion

- Urban Water Management Plan Compliance with Water Use Reduction Targets ★
- Demand and Conservation Analysis ★
- Drought Risk Assessment ★

3. Wrap Up

★ Q&A/Discussion



We need your input!

www.yourSCVwater.com/uwmp

Comment & Question Form

COMMENT & QUESTION FORM

We welcome your questions, comments and suggestions on the Urban Water Management Plan. If you have input specific to a recent workshop, be sure to use the appropriate link on this page. For other general comments, contact us through the form below:

My comments or questions on the Urban Water Management Plan

If you would like a direct response, please provide your name and email.

Name

First

Last

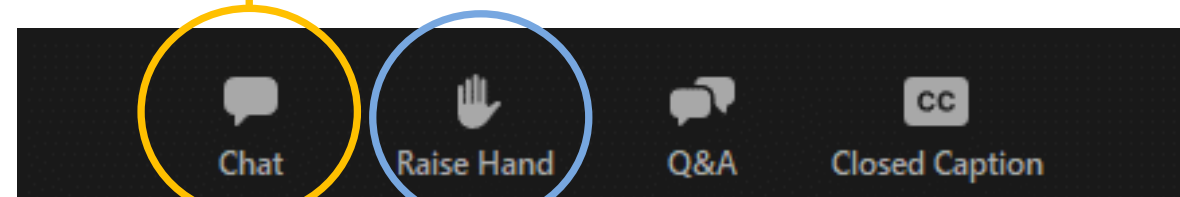
Email

SUBMIT



For Q&A/Discussion

If you have a question, put it in the chat by clicking the chat button.



Use the Raise Hand function if you would like to speak directly.

If on phone, push *9 to raise hand.



Welcome | Introductions



Sarah Fleury
SCV Water



Lisa Maddaus
Maddaus Water
Management



Lauren Everett
Kennedy Jenks



Joan Isaacson
Kearns & West



Welcome | Introductions



A&N Technical Services Inc.

KEARNS WEST



KJ | Kennedy Jenks



Luhdorff &
Scalmanini
Consulting Engineers



Maddaus Water Management Inc.

Geosyntec 
consultants

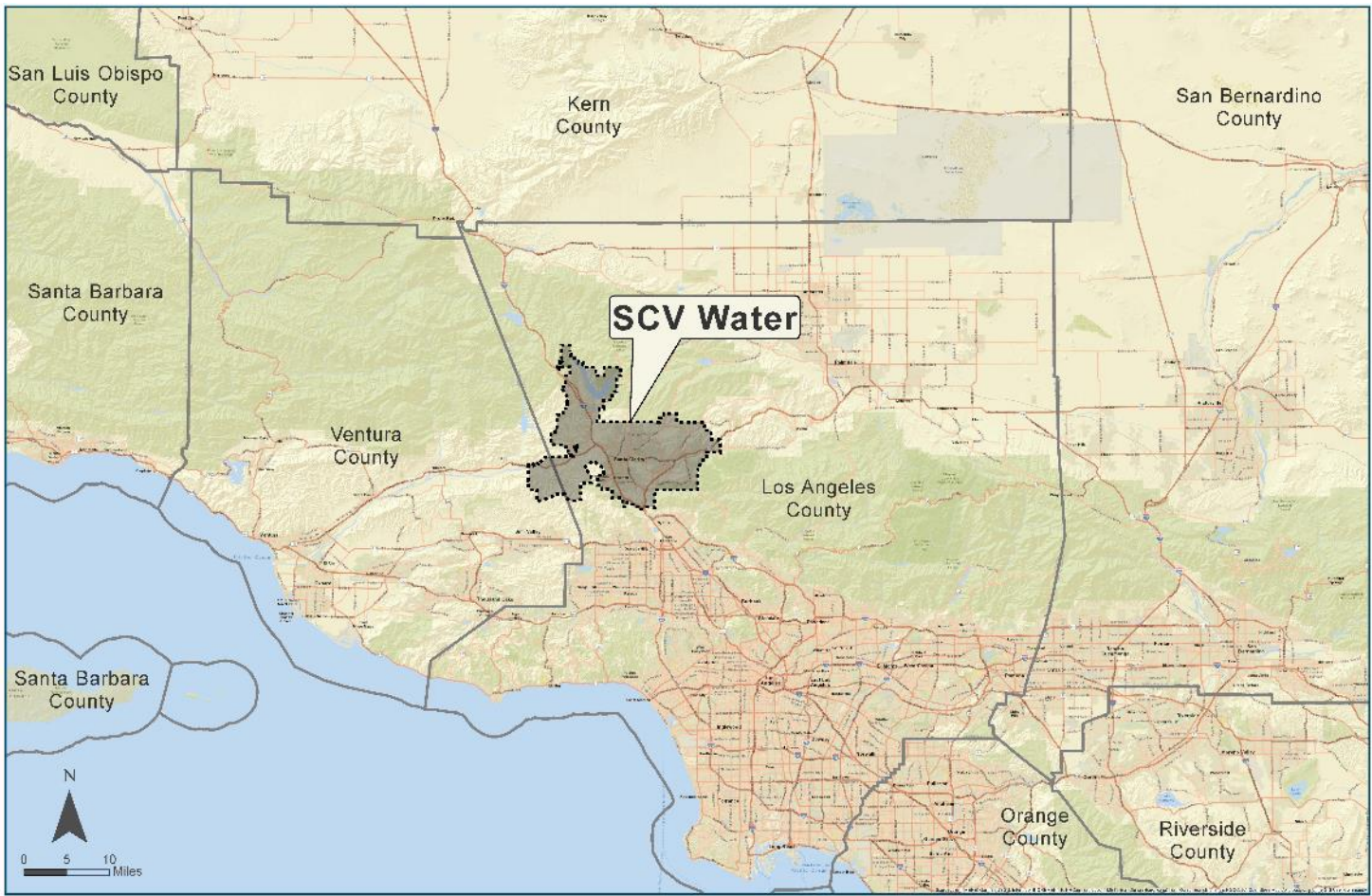
engineers | scientists | innovators

BBK

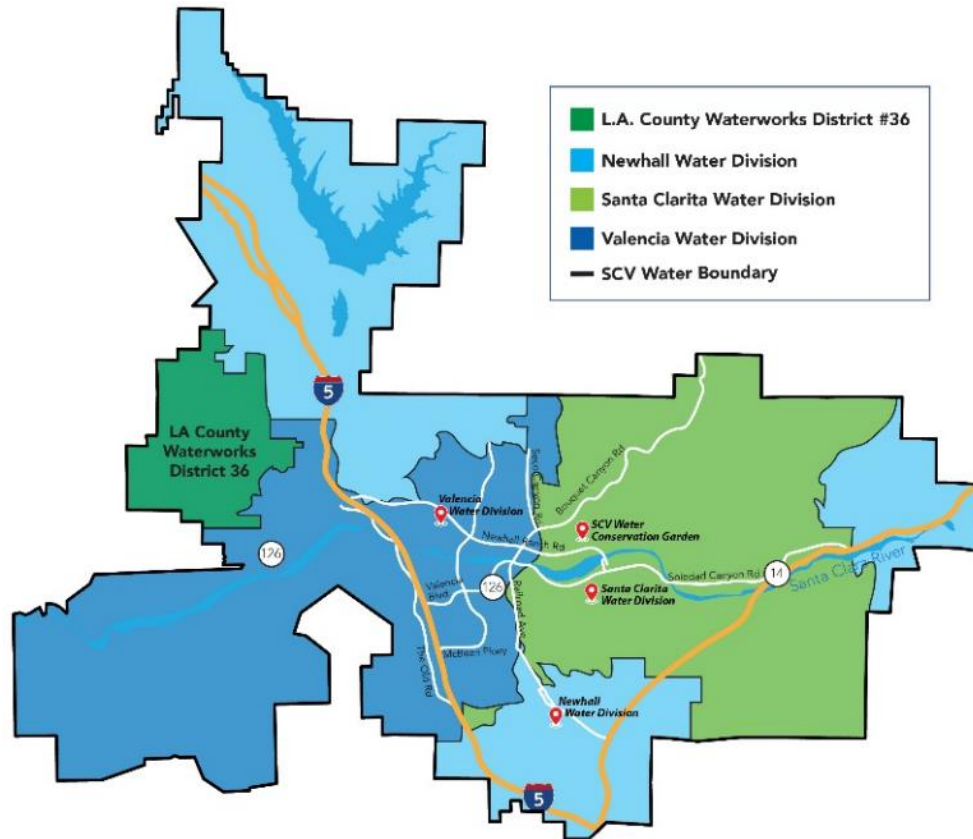
BEST BEST & KRIEGER 
ATTORNEYS AT LAW



SCV Water | Who We Are



SCV Water | Who We Are



A full-service regional water agency located in the Santa Clarita Valley

- 195 square miles
- 74,000 retail customers
- 273,000 population served

Formed on January 1, 2018 by an act of the State Legislature (SB 634)



SCV WATER PLANNING EFFORTS & PROJECTS

Water for Today & Tomorrow



Groundwater
Sustainability Plan



Urban Water
Management Plan



Water Shortage
Contingency Plan



Recycled
Water Planning



Rate Case
Planning



PFAS

To learn more visit: www.yourSCVwater.com/planning



SCV WATER PLANNING EFFORTS & PROJECTS

Water for Today & Tomorrow



Groundwater Sustainability Plan



Urban Water Management Plan



Water Shortage Contingency Plan



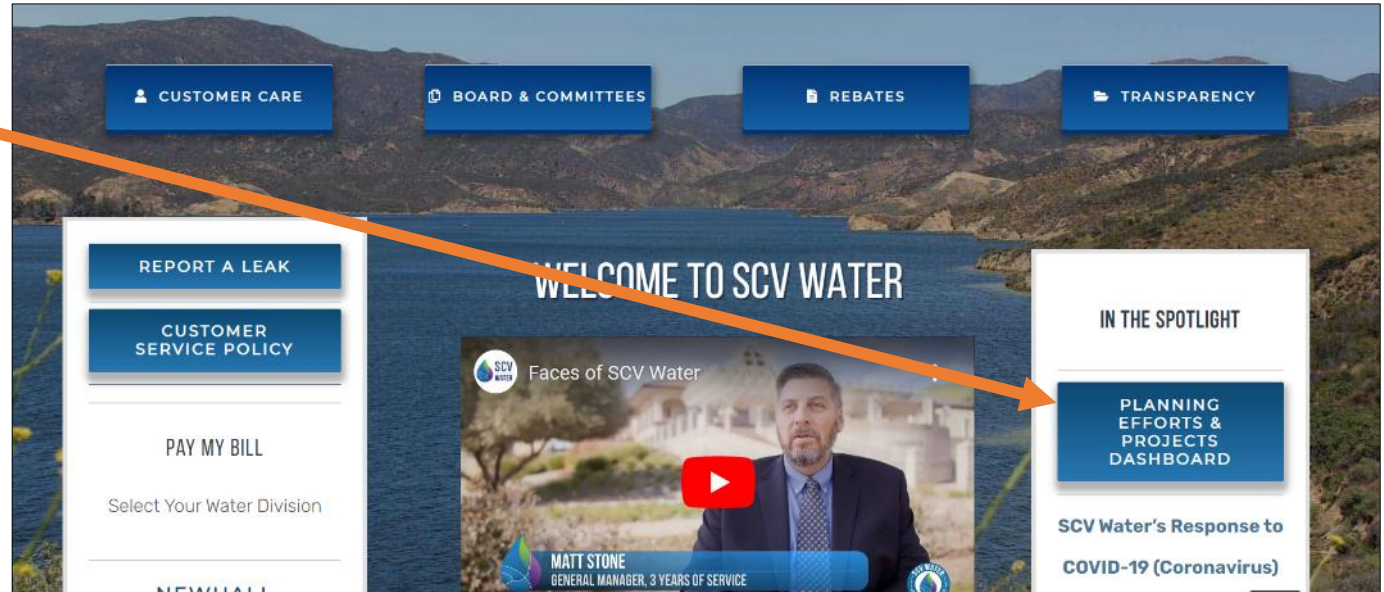
Recycled Water Planning



Rate Case Planning



PFAS



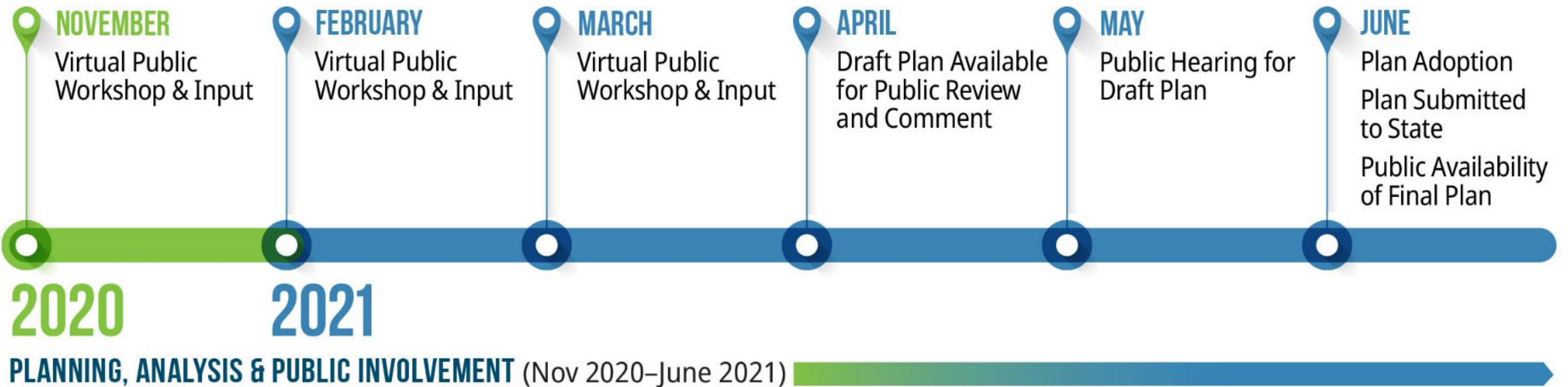
The screenshot shows the SCV Water website homepage with a navigation bar at the top containing: CUSTOMER CARE, BOARD & COMMITTEES, REBATES, and TRANSPARENCY. The main content area features a 'WELCOME TO SCV WATER' header, a 'REPORT A LEAK' and 'CUSTOMER SERVICE POLICY' menu, a 'PAY MY BILL' section with a 'Select Your Water Division' dropdown, a video player for 'Faces of SCV Water' featuring Matt Stone, and an 'IN THE SPOTLIGHT' section with a 'PLANNING EFFORTS & PROJECTS DASHBOARD' button and a link to 'SCV Water's Response to COVID-19 (Coronavirus)'. An orange arrow points from the dashboard button in the screenshot to the corresponding icon in the left-hand menu.

www.yourSCVwater.com



Urban Water Management Plan

TIMELINE & MILESTONES:



What is an Urban Water Management Plan?

A long-term resource planning document in which urban water suppliers evaluate their supplies and demands to ensure that adequate water supplies are available to meet existing and future water needs, in a sustainable manner.



Why a 2020 Urban Water Management Plan Update?

Required by UWMP Act and subsequent legislation

Required every five years

Develops a guidance framework to evaluate and enhance the availability, reliability and quality of water supplies

Identifies gaps between supply and demand through time (20-year analysis required)

Due July 1, 2021



Public Workshop 1 Recap

- November 18, 2020
- Topics:
 - What is an Urban Water Management Plan
 - Water Supply Characteristics
 - Climate Change Considerations
- Visit: www.yourSCVwater.com/uwmp



You're invited! Join us for SCV Water's first virtual Urban Water Management Plan (UWMP) workshop on November 18, 2020, from 6:30 p.m. – 8:30 p.m. The UWMP update will address several key issues that contribute to clean, reliable water for today and tomorrow.

To learn more, visit: <http://ow.ly/fu2v50Ce4TK>





**Urban Water Management Plan
Compliance with
Water Use Reduction Targets**

SBx7-7 Compliance

- Water Conservation Act of 2009 (Senate Bill x7-7) was enacted in November 2009
- Requires 20% reduction in per capita water use in gallons per capita per day (GPCD) by 2020
- Baseline water use first reported in the 2010 UWMP
 - 10% minimum reduction reported in 2015 UWMP
 - 20% reduction achieved and will be reported in 2020 UWMP Plan
- The Agency has successfully developed and implemented conservation programs over the last two decades which contributes to meeting these targets



Process for Determining SBx7-7 Baseline and Water Use Reduction Targets

Population

- Based on US Census or Dept of Finance
- Yearly Population Estimates

GPCD

- Population
- Production (AFY)
- Annual GPCD

Baseline Water Use

- Based on 1995-2010 data

SBx7-7 Targets

- 20% reduction from baseline
- Calculate Targets
 - 2015
 - 2020



Achieving the 2020 SBx7-7 Target

	Pop (2020)	Weight	2020 Target (gallons per capita per day)	2020 Weighted Target (gallons per capita per day)	Compliance	
NCWD	49,085	17%	214	37	2020 Total Pop	280,588
SCWD	131,729	47%	226	106	2020 Total Water Use	64,266 AFY
VWC	99,774	36%	267	95	2020 GPCD	204
Total	280,588	100%		238	2020 Weighted Target (GPCD)	238
					Target Met?	YES

2020 Actual Water Use Compared to 2020 Target demonstrates that the 2020 GPCD goal has been met.

“Information about units was added on 2/18/21”



Achieving the 2020 SBx7-7 Target

- Compliance is reported in the 2020 UWMP
- Current data indicates that 20% reduction target met/exceeded -> Approximate 25% reduction in water use from the baseline
- Allows for continued eligibility for grants and/or loans
- More specific water use objectives being developed by State Water Resources Control Board. To be reported on in future UWMPs.



Questions? Ideas? Feedback?



The background features a white central area framed by curved, overlapping bands of dark blue and light green. The top and bottom edges are defined by these bands, which curve inward towards the center. The text is centered within the white space.

Demand and Conservation Analysis

Overview | Current and Future Demands and Conservation in Santa Clarita Valley

- How are we going to grow as a community?
 - One Valley One Vision (OVOV) General Plan
 - City Land Use Planners
 - County Land Use Planners
- How are we going to plan appropriately for our water needs now and into the future?
 - Water providers: Santa Clarita Valley (SCV) Water and Los Angeles County Water District (LACWD) 36
- Important Definitions: water use, consumption, demand, production

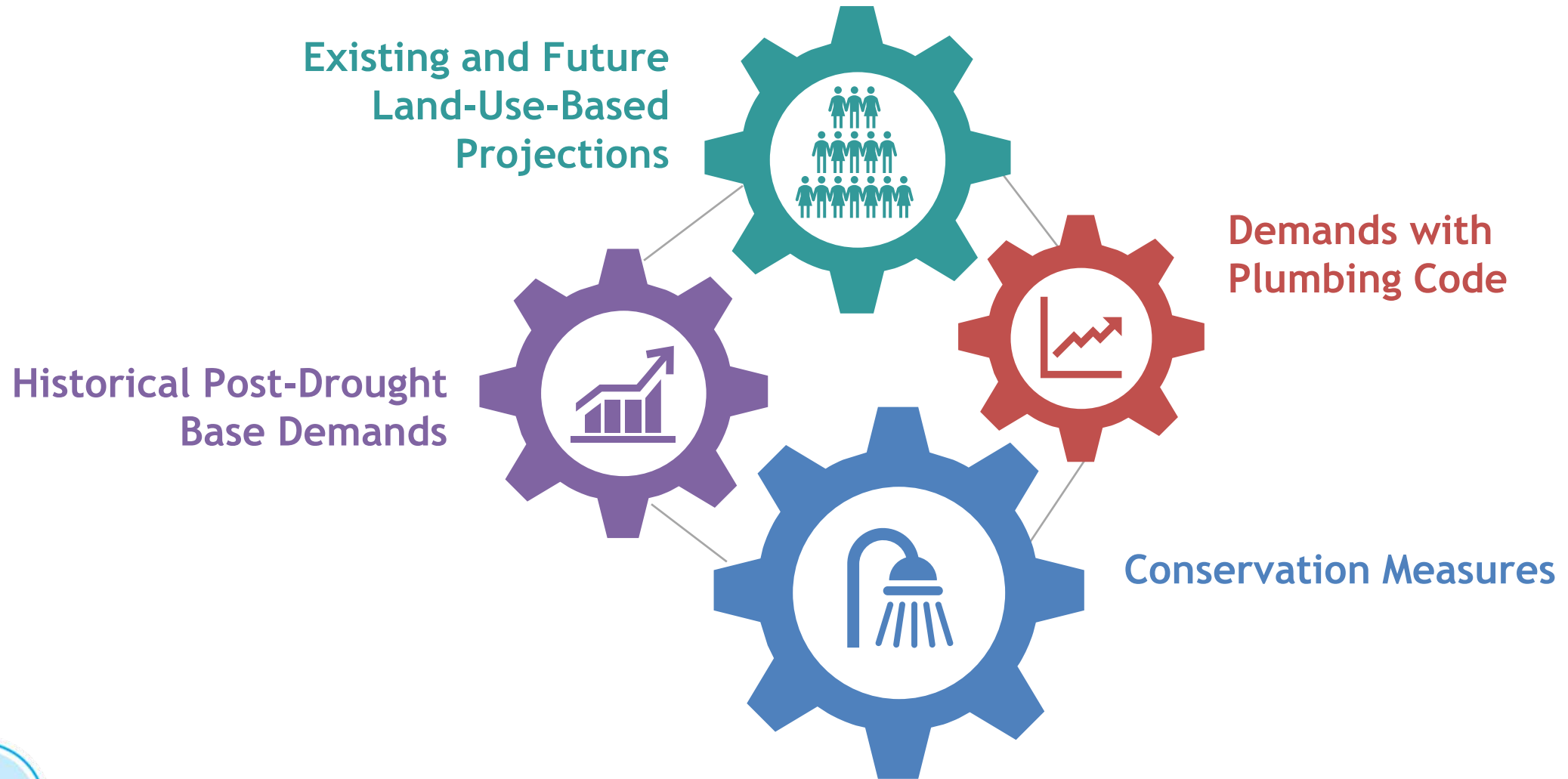


Purpose | Demand and Conservation Analysis

- On-going monitoring of water consumption, implementing water conservation and planning for the SCV community
- Urban Water Management Plan (UWMP) due every 5 years
 - Long-range planning document to identify future water demands and project attainable conservation goals
- Update for 2020 UWMP
 - Best available information for future demand land-use-based forecast
 - Worked carefully with City and County Land Use Planners
- Result of a careful modeling exercise based on community's historical water use and planned future needs



SCV Water Demand Study Approach



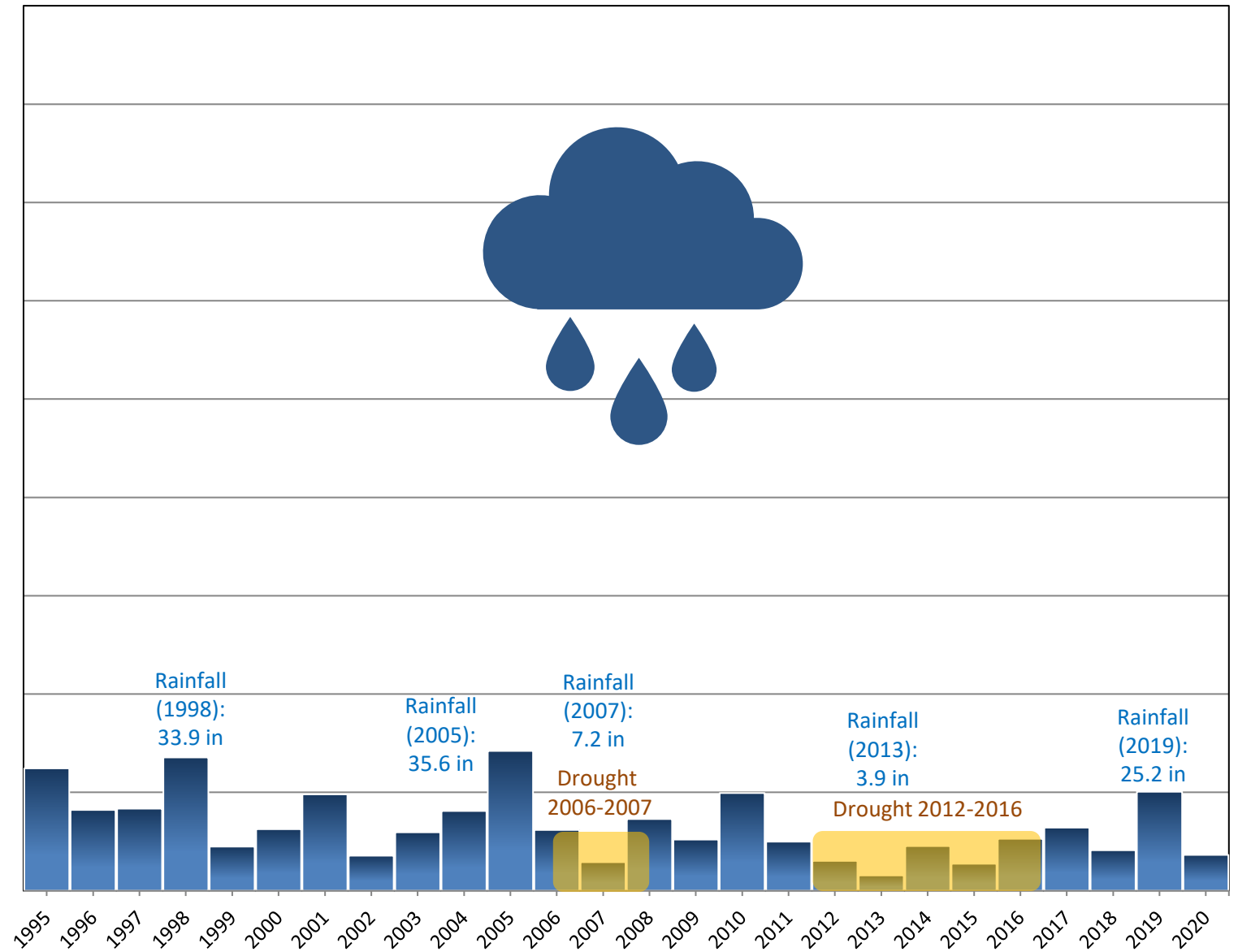
Historical Post-Drought Base Demands



Historical Trends

1995-2020

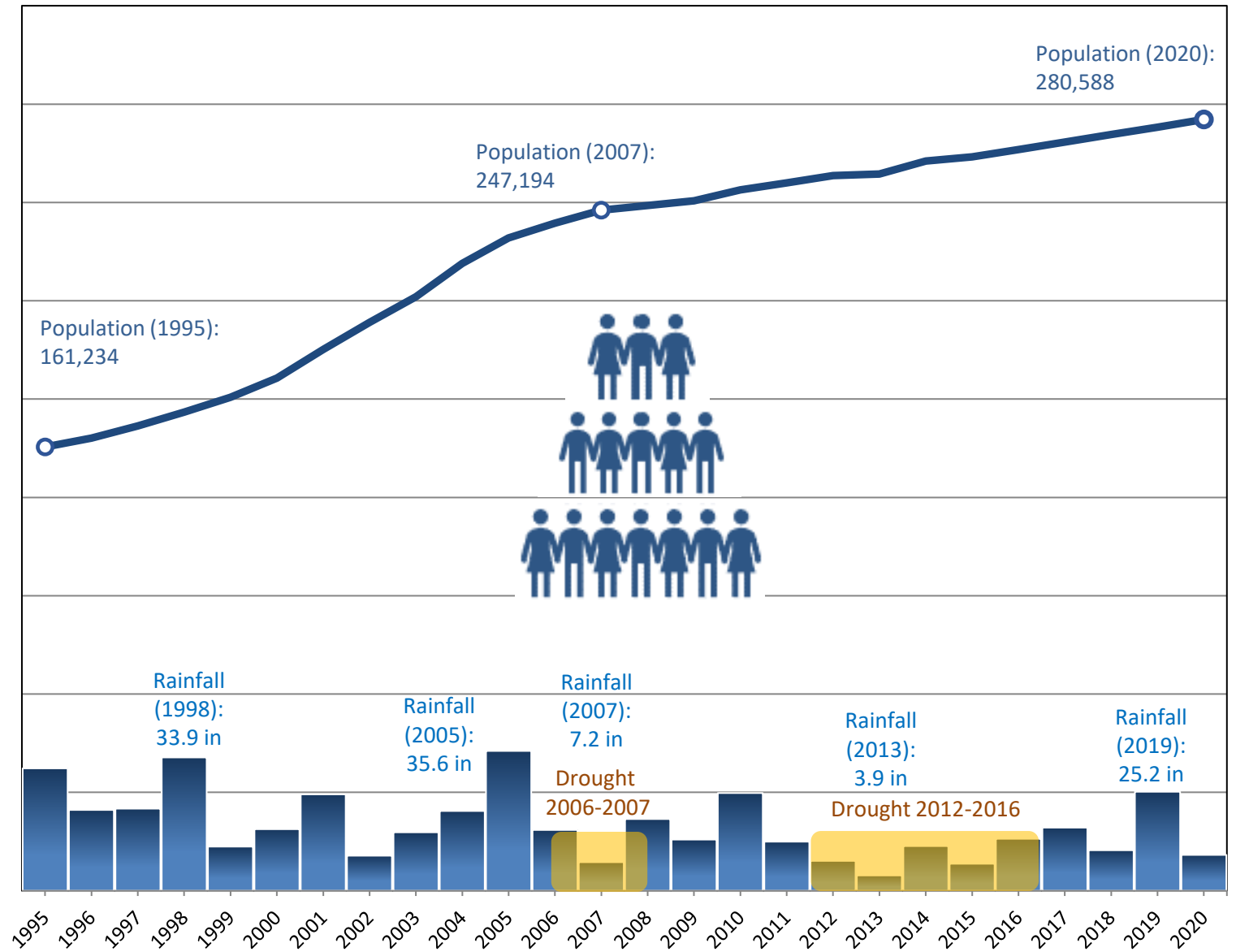
- Rainfall



Historical Trends

1995-2020

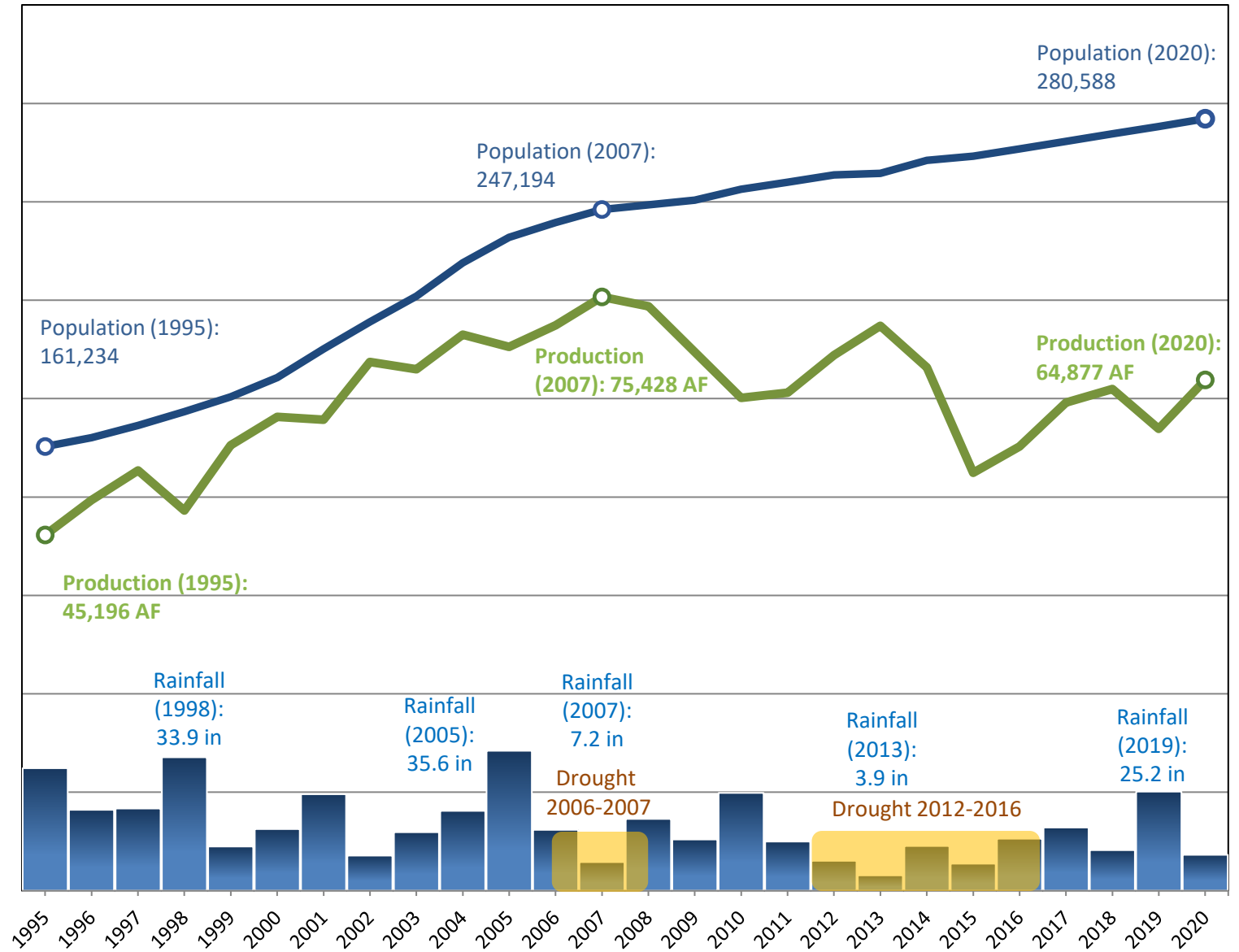
- Rainfall
- Population



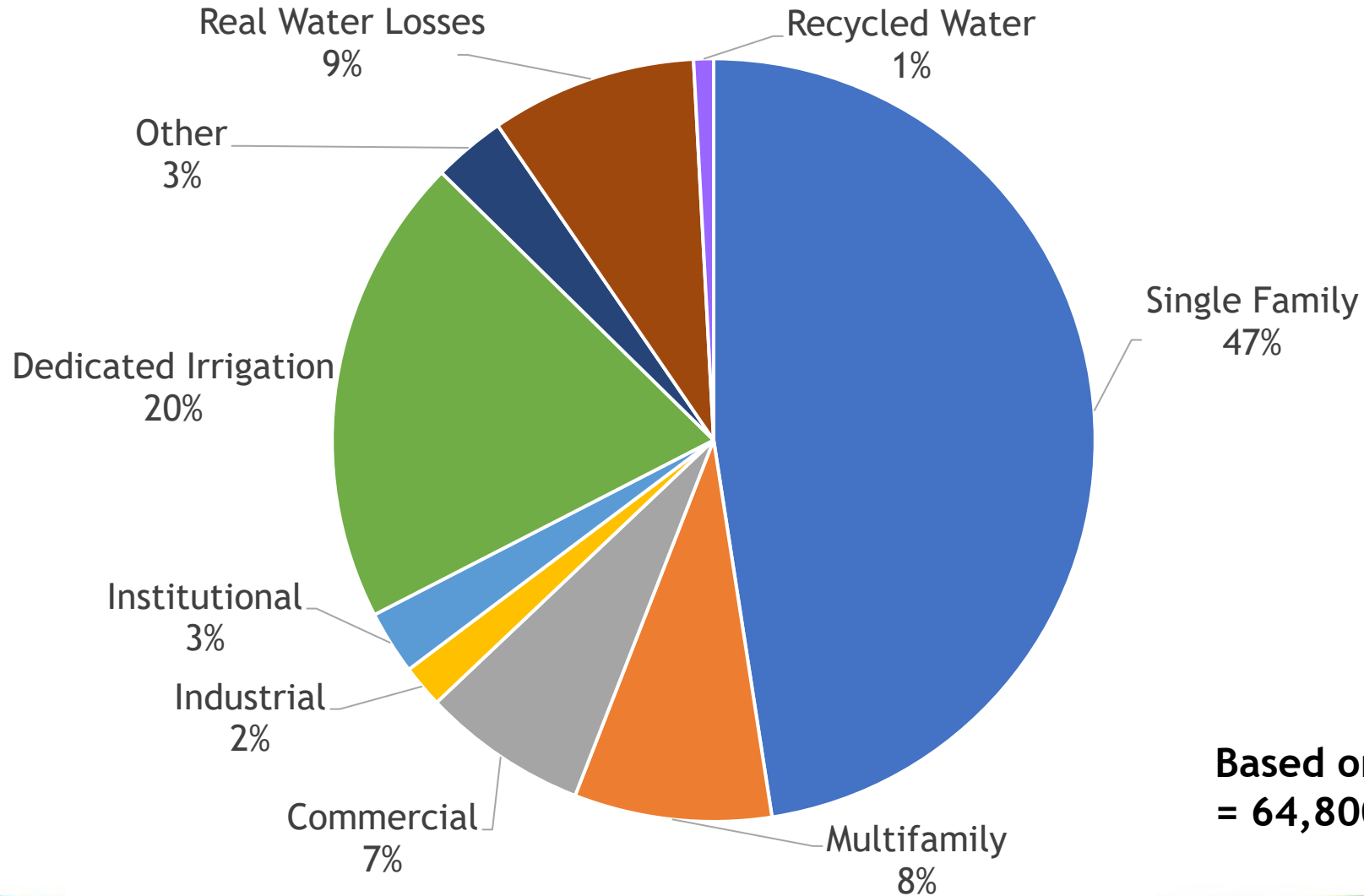
Historical Trends

1995-2020

- Rainfall
- Population
- Production



Total Water Use by Customer Type 2020



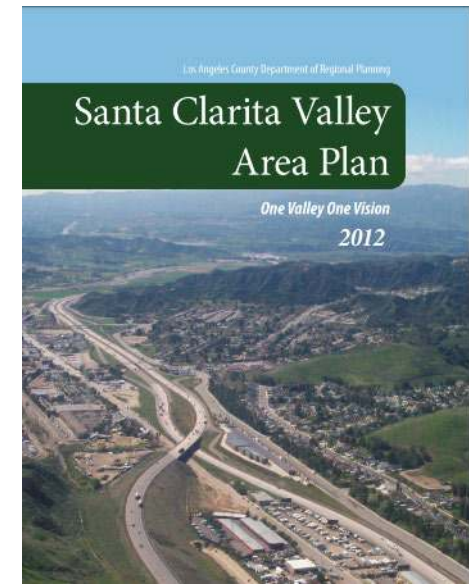
**Based on Total 2020 Demand
= 64,800 AFY**



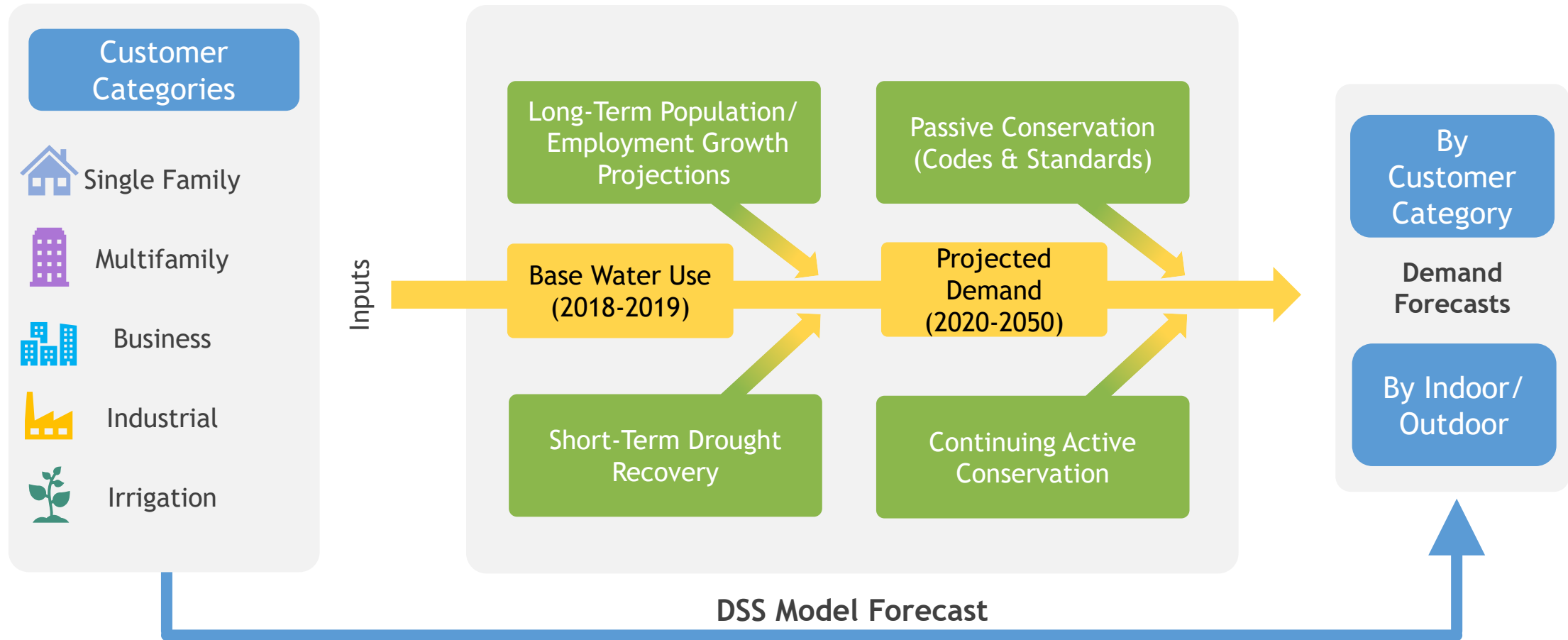
Existing and Future Land-Use-Based Projections



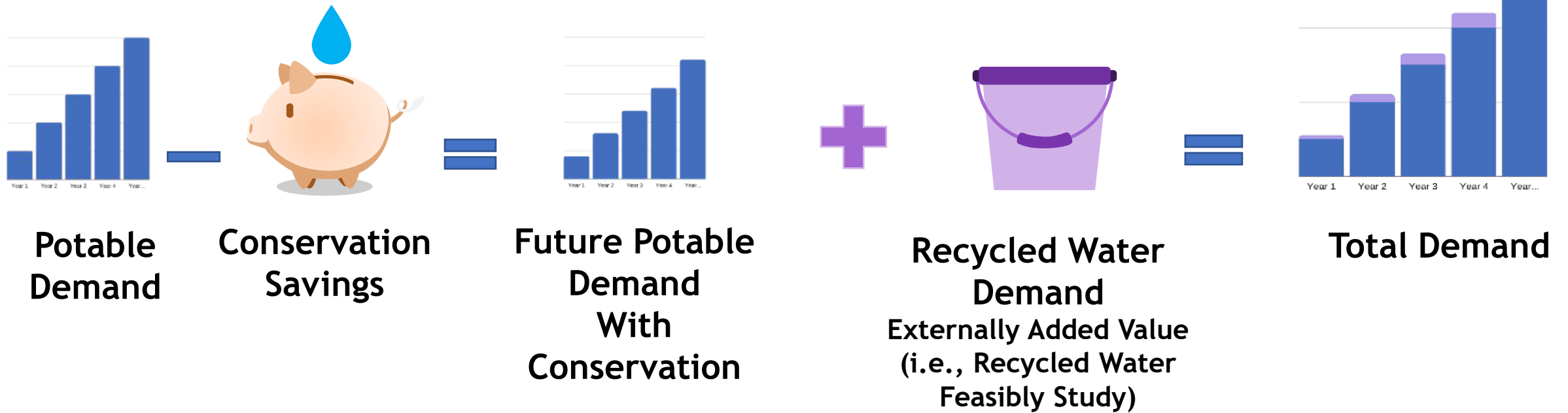
Overview of the Demand Forecast Development



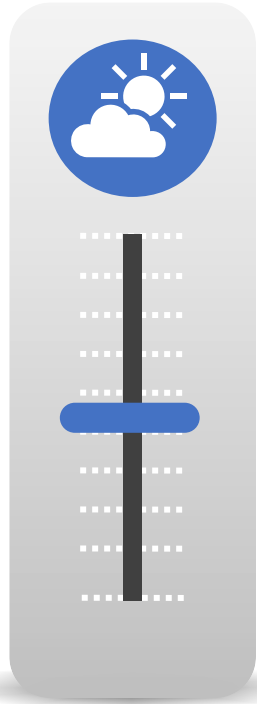
Decision Support System (DSS) Least Cost Planning Model Flow



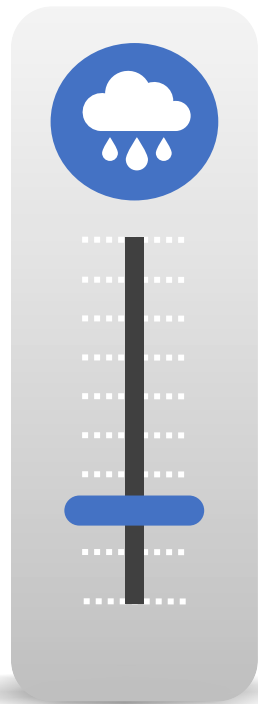
Accounting for Benefits of Conservation and Recycled Water



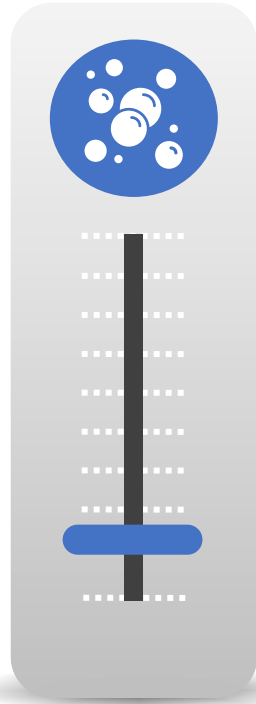
Adjustments to Future Demand Forecast



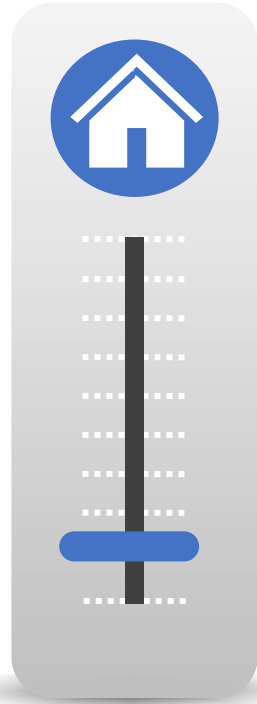
Climate Change
& Weather
Normalization



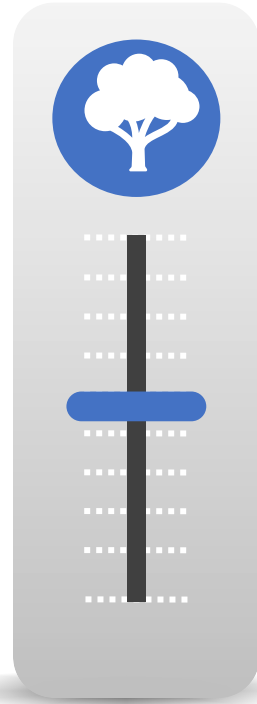
Drought
Rebound



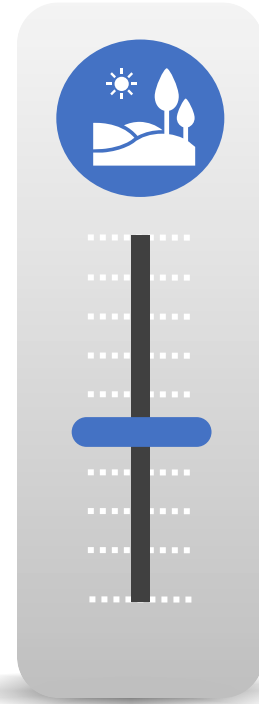
COVID-19



Accessory
Dwelling
Units



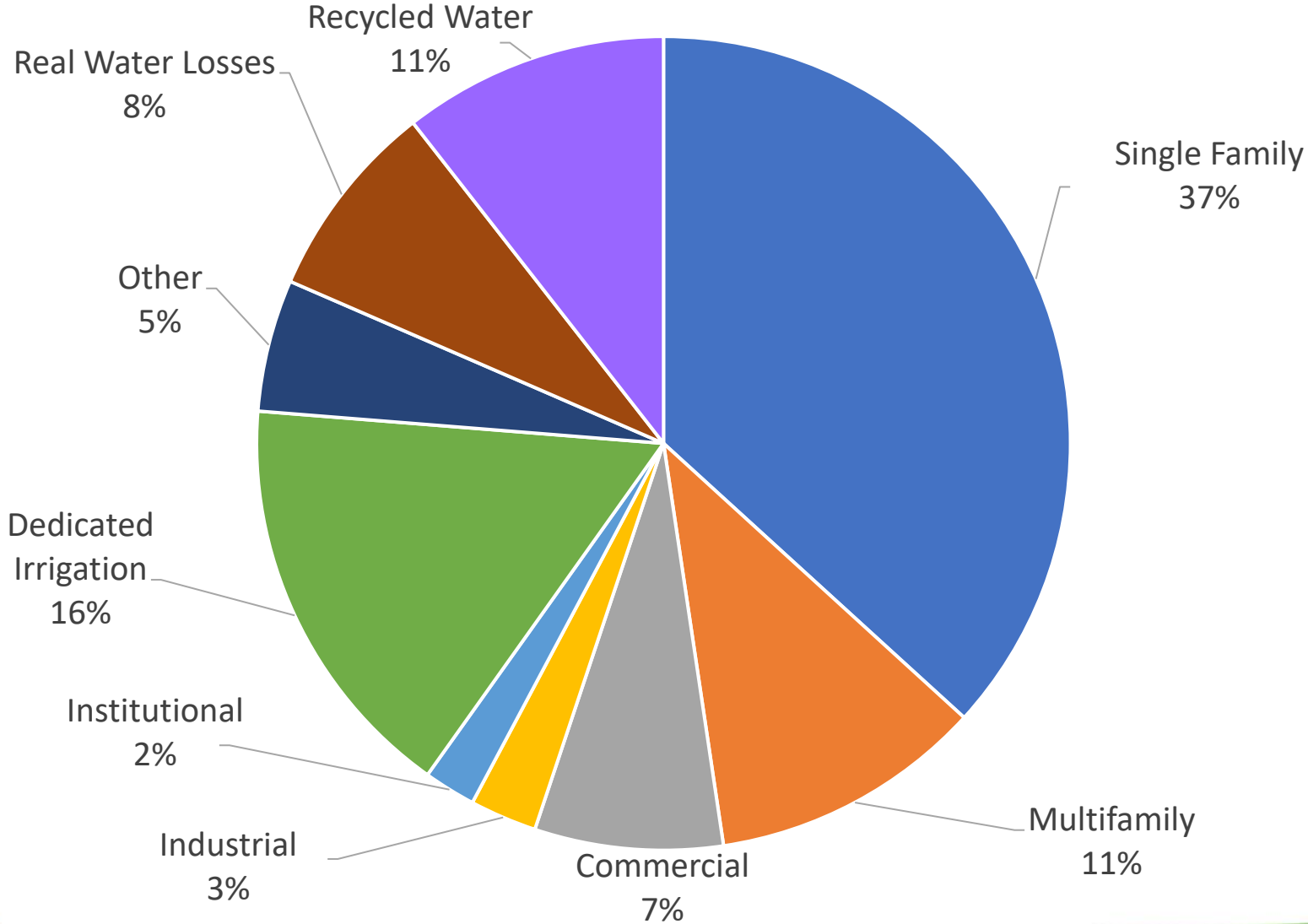
Irrigation
Demand
Factor



Outdoor
Conservation
Potential



Projected Water Use by Customer Type 2050*



***Based on Total Demand with Climate Change without Conservation**



Conservation Savings



Passive Savings from Plumbing Code

Water
Efficiency
Codes &
Standards

State Standards

- 2019 CALGreen New Buildings
- 2016 CA Code of Regulations Title 20 (adopted 2015)
- Assembly Bill 715 (2014)
- Senate Bill 837 (2011)
- Senate Bill 407 (2009)
- Federal Energy Policy Act (1992)

SCV Measures

- Fixture Retrofit on Resale/Water Account Change
- New Development Submetering
- Landscape & Irrigation Codes



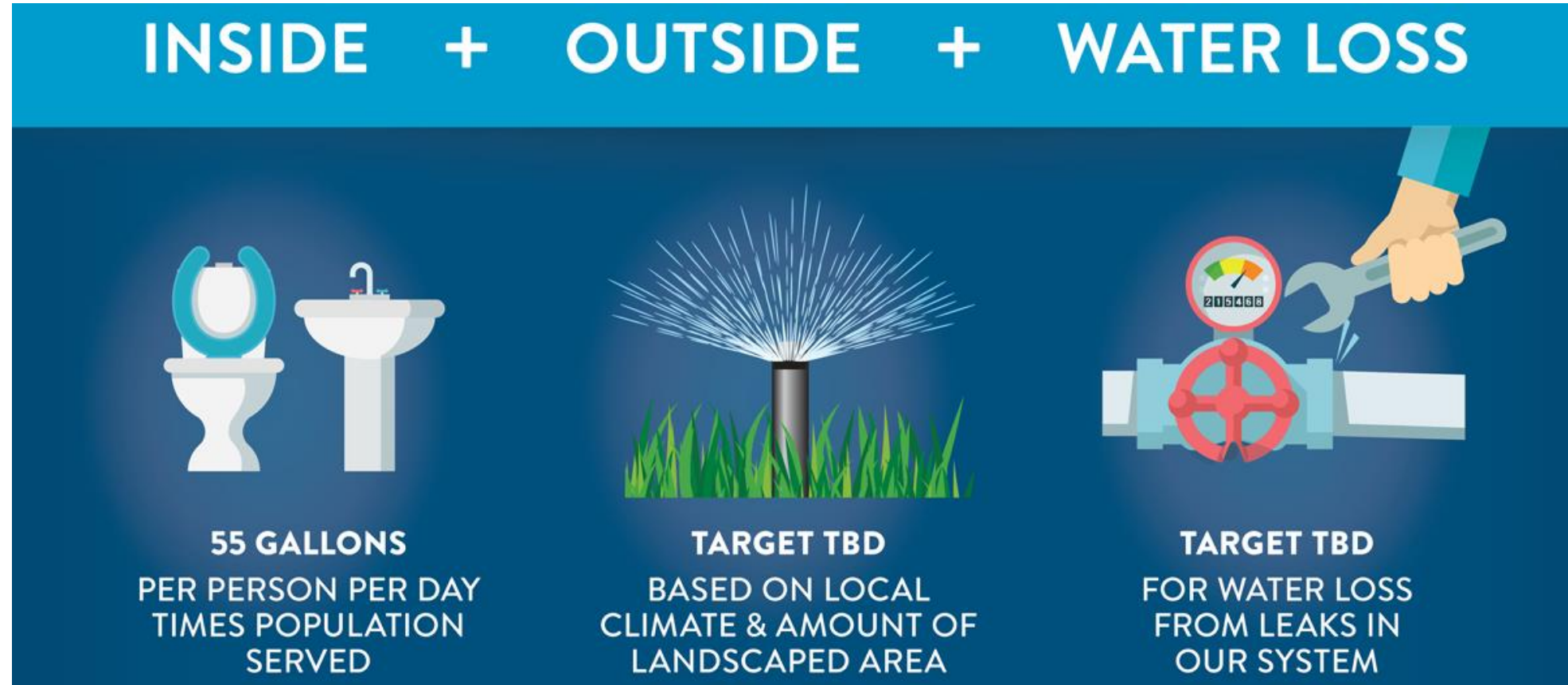
Current Water Conservation Program

- Water waste prevention
- Landscape design standards
- Website, videos, conservation line
- Water checkup appointments
- School programs
- Rebates
- Gardening certifications & classes
- Irrigation budgets



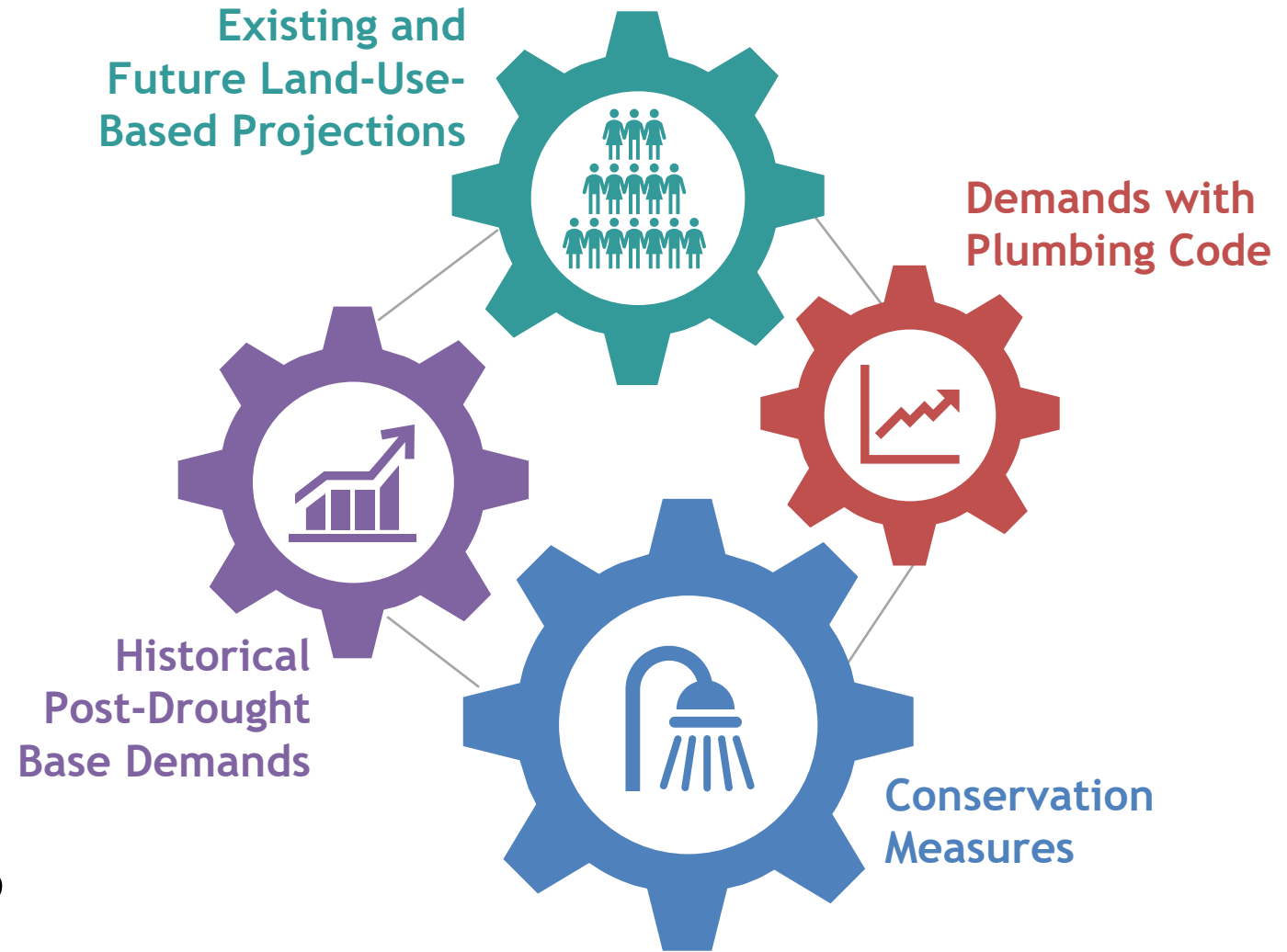
State Water Use Legislation

Senate Bill 606 and Assembly Bill 1668

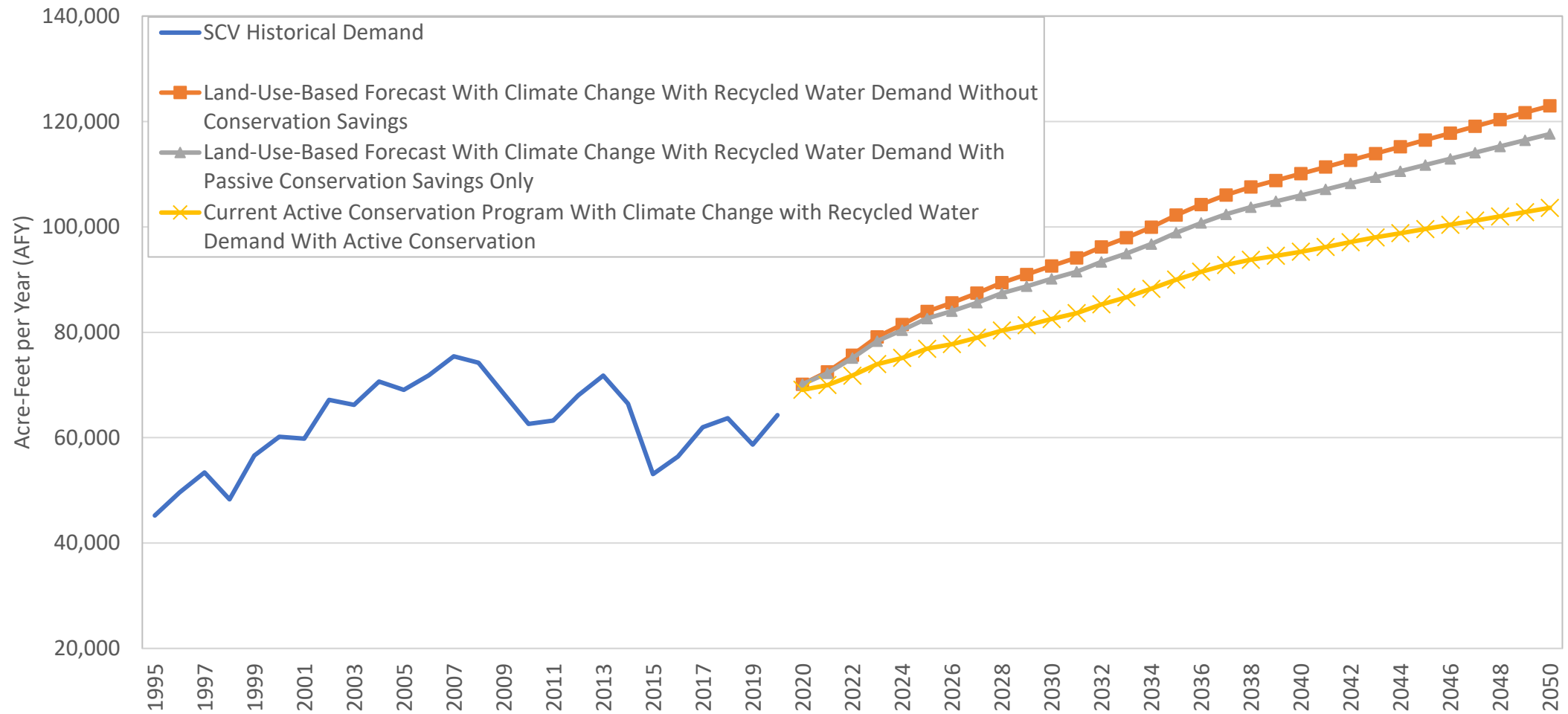


Analysis Summary

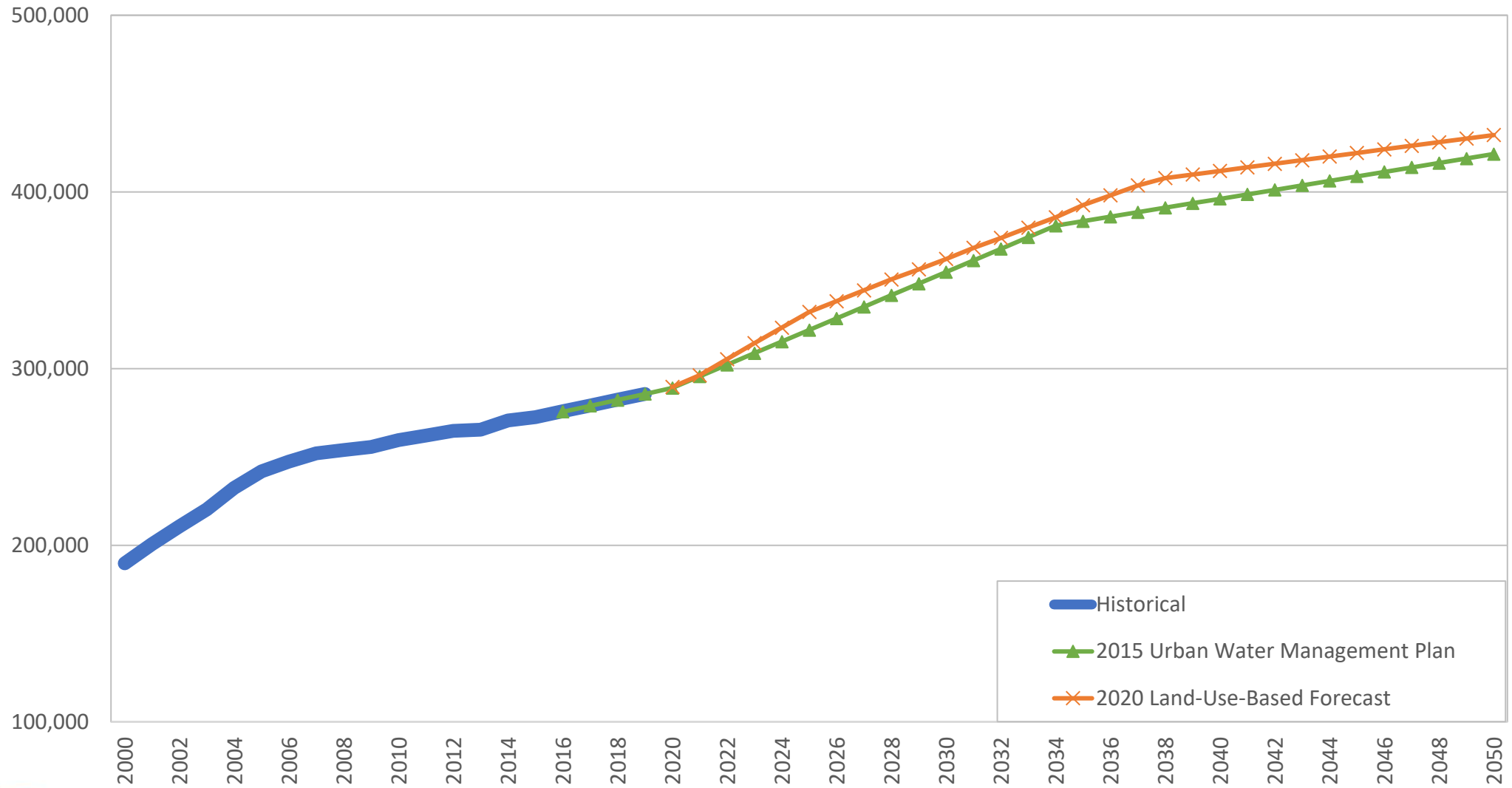
- Land-use-based forecasts were detailed and prepared with City and County Planning staff
- Adjustments were needed for more accuracy
- Careful accounting of potable and non-potable demands
- Overall refinements ended up similar to the 2015 UWMP



Valleywide Potable and Recycled Water Demand Forecast Results



Valleywide Future Population Projections



Conclusions

- Historically total demand tracked with population
- Future production will be less due to:
 - changes in land use types with smaller lot sizes
 - conservation makes a significant impact
- Population growth 40% at buildout
- Water demand going up 32% (on average 1% per year)



Questions? Ideas? Feedback?





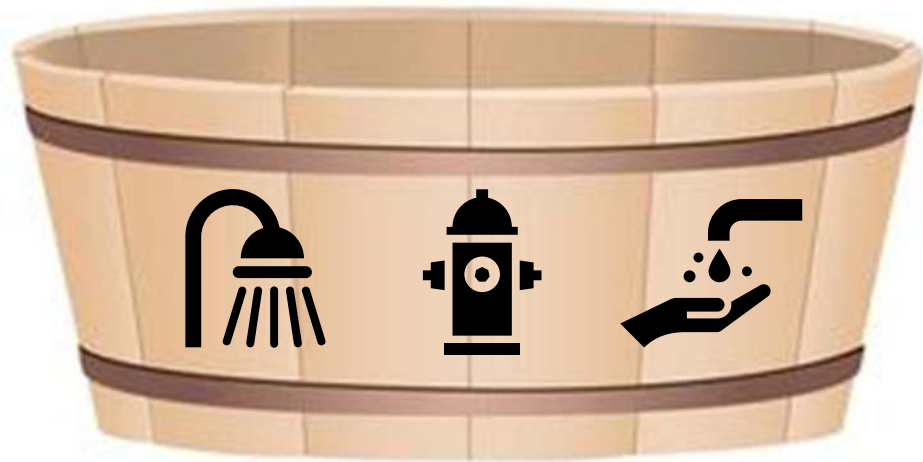
Drought Risk Assessment

Overview

- Water Supply Reliability
- Urban Water Management Plan Requirements
- Drought Risk Assessment



Water Reliability = “Water availability for all health and safety needs”



Santa Clarita’s Water Needs



Santa Clarita’s Water Supplies



SCV Water & Urban Water Management Planning Continues

Drought Risk Assessment **MUST** include a description of the:

- Best available data and methods used
- Updated basis for the supply shortage conditions
- Careful determination of the reliability of each source
- Comparison of total water supplies and needs during the drought

Water Code Section 10635(b)



Water Supply Reliability Planning

Long
Term

- 20+ Year Analysis (buildout)

Short
Term

- Single Dry Year
- Multiple Dry Years
- Annual Reliability *
- Drought Risk Assessment *

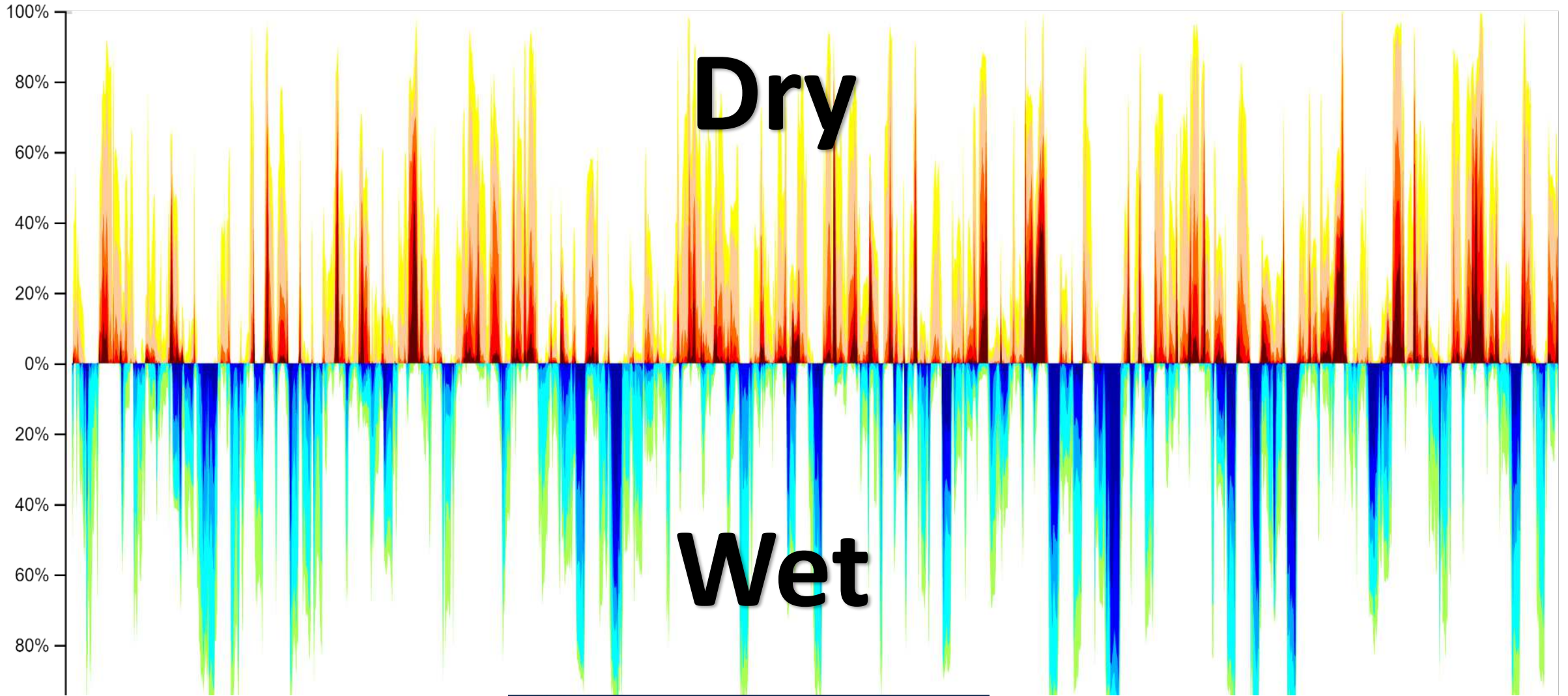
* = New 2020 Requirement



Drought Risk Assessment

- Evaluate risk under severe drought period
 - Worst historical 5 consecutive driest years on record
 - Assume it happens from 2021-2025
- Assess Demands with growth projections (5 years)
- Include Supply changes (5 years)
- Test the near-term reliability
 - Expose any seasonal or limited-term vulnerability issues
 - Apply Water Shortage Contingency Plan as needed

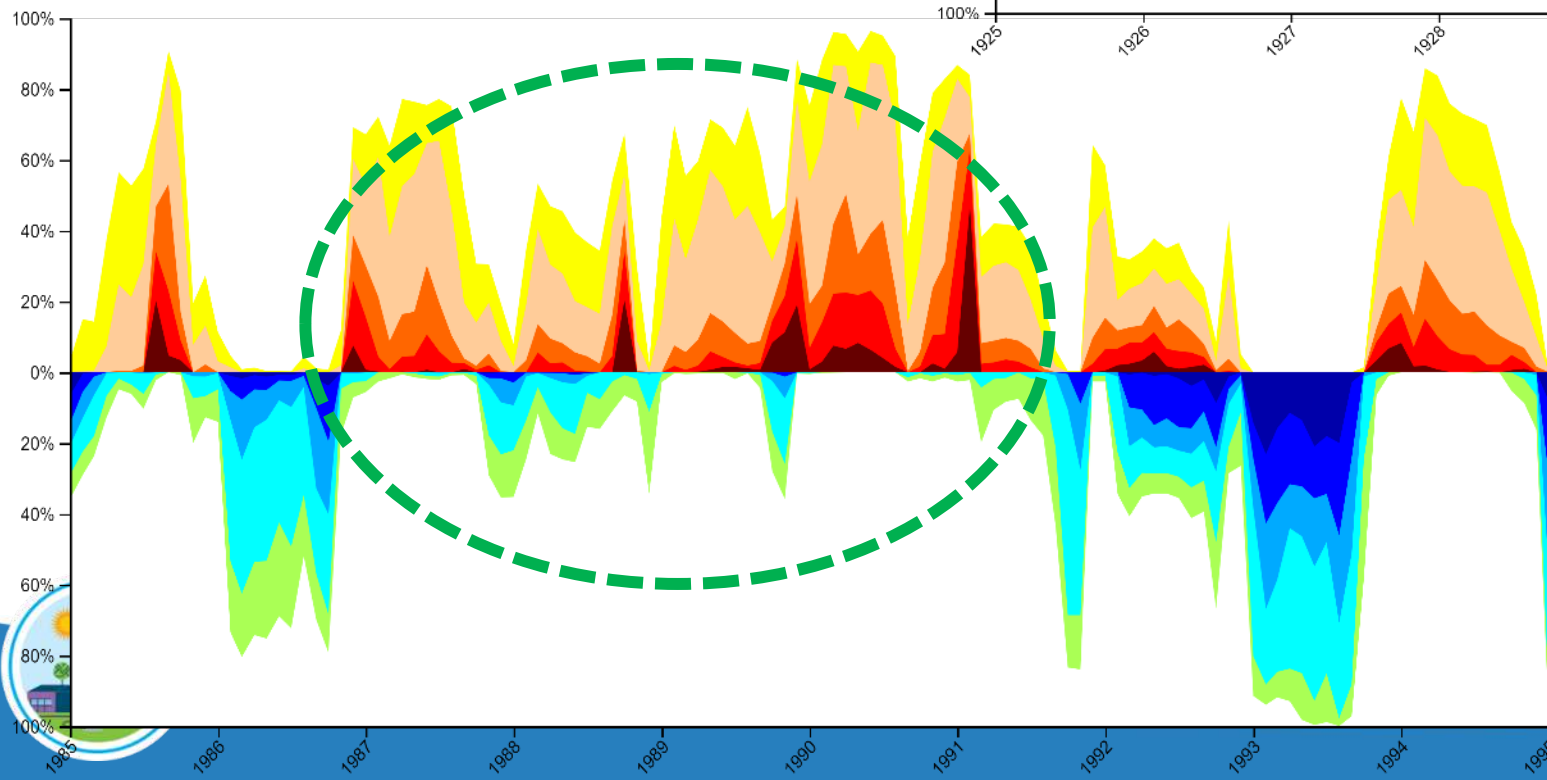
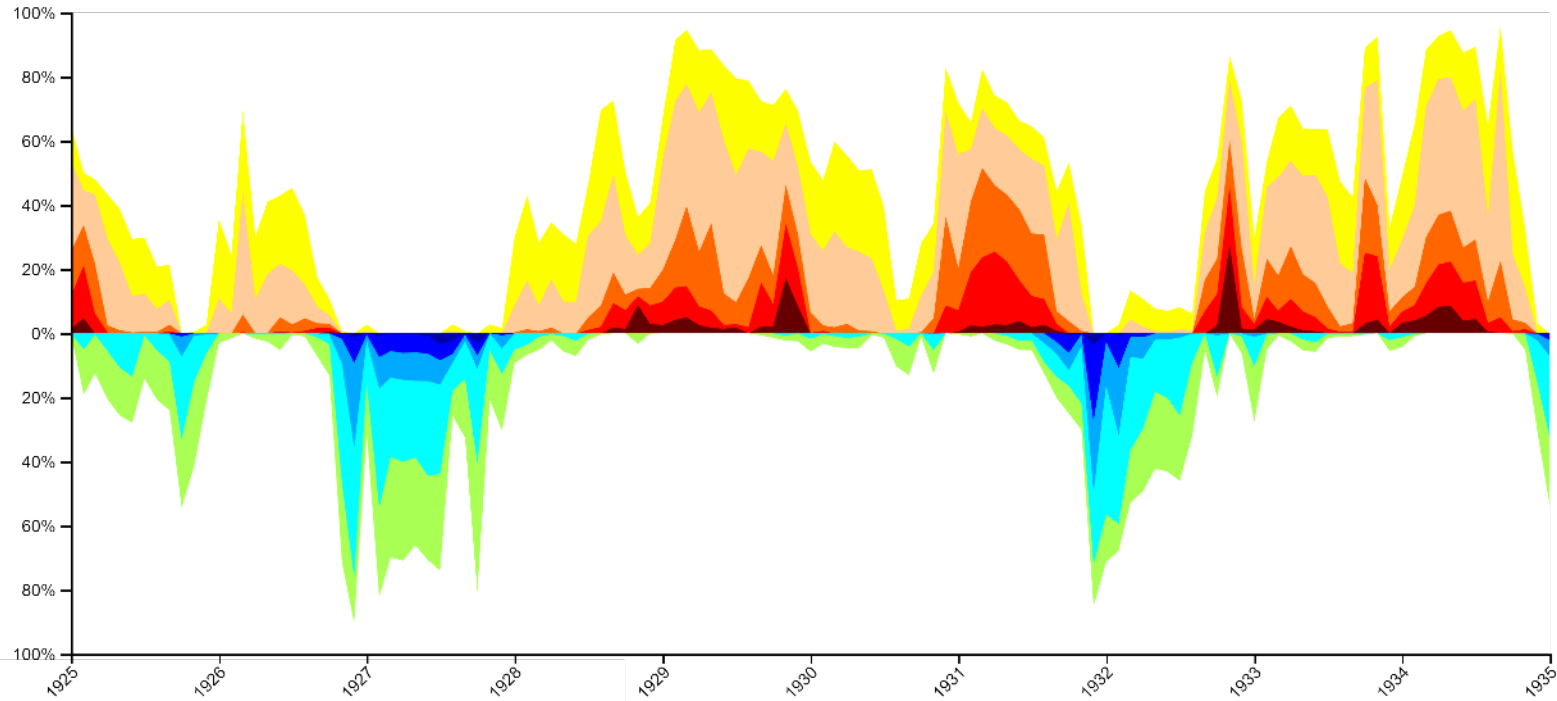




<https://www.drought.gov/historical-information?state=california>



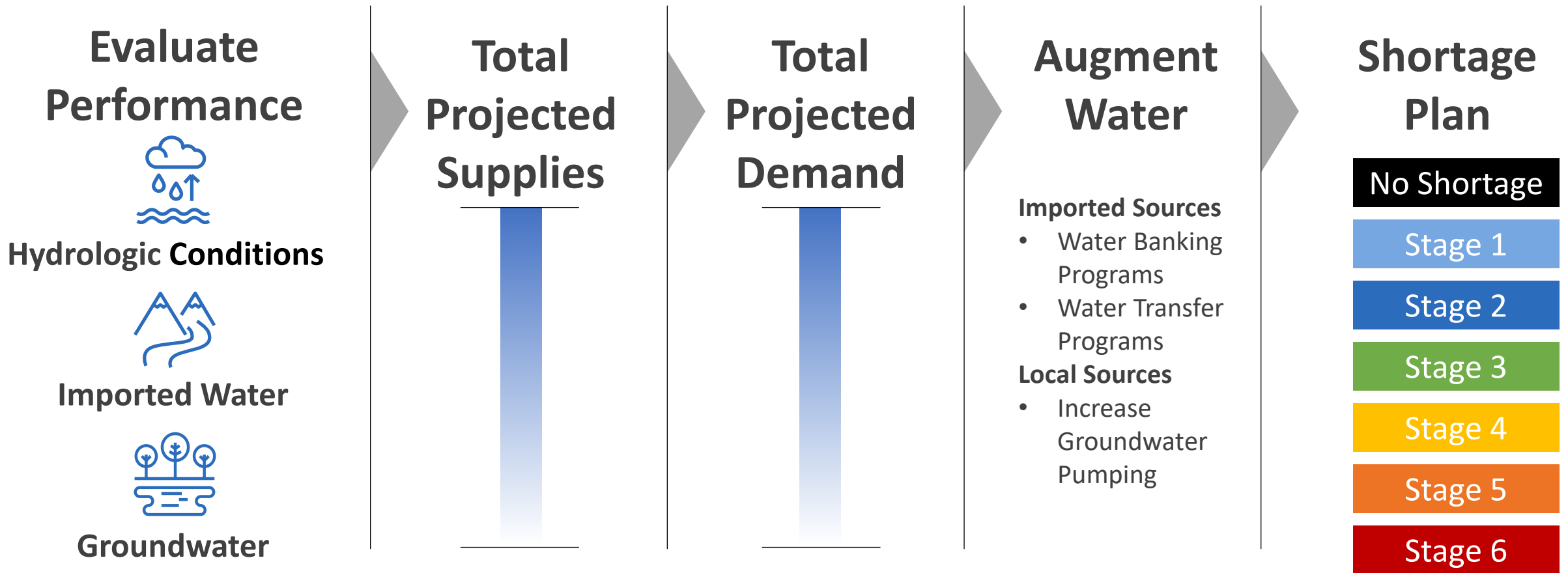
1925-1935



1985-1995



Steps SCV Will Take During a Drought



Water Shortage Contingency Plan and Response Actions

- Droughts cause short term water shortage conditions
- SCV Water Supply Actions
 - Dry Year Water Supplies
 - Increase groundwater pumping
- Customer Response Actions
 - Drought response actions
- Incorporated in Urban Water Management Plan

Water
Supplies



Water
Needs



Questions? Ideas? Feedback?



The background features a white central area framed by curved, layered borders in shades of blue and green. The top and bottom borders consist of a dark blue outer layer, a medium blue inner layer, and a light green innermost layer. The text "Wrap Up" is centered in the white space.

Wrap Up

Urban Water Management Plan

TIMELINE & MILESTONES:



We need your input!

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Comment & Question Form

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My comments or questions on the Urban Water Management Plan

If you would like a direct response, please provide your name and email.

Name

First

Last

Email

SUBMIT



Thank You

Online Comment & Question Form
Virtual Public Workshop 3: March 22
Stay Engaged & Share the Information

www.yourSCVwater.com/uwmp

