Demand Projections

2020 UWMP

Prepared by: Melissa Bland, Program Manager



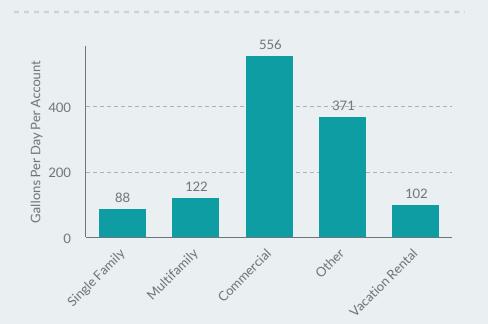
KEY ASSUMPTIONS

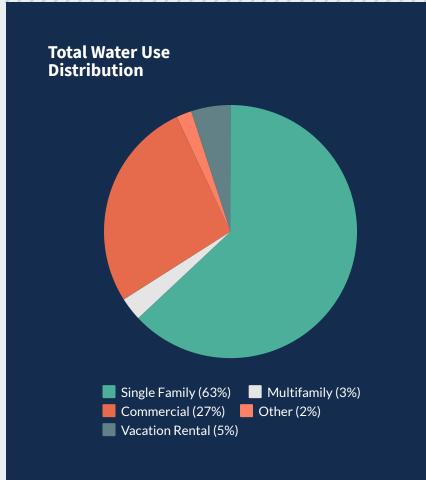
Water Demand Base Year

2013, 2018, 2019

Population Data Source

Utility Billing Data, 2010 Census, 2019 ACS, AirDNA



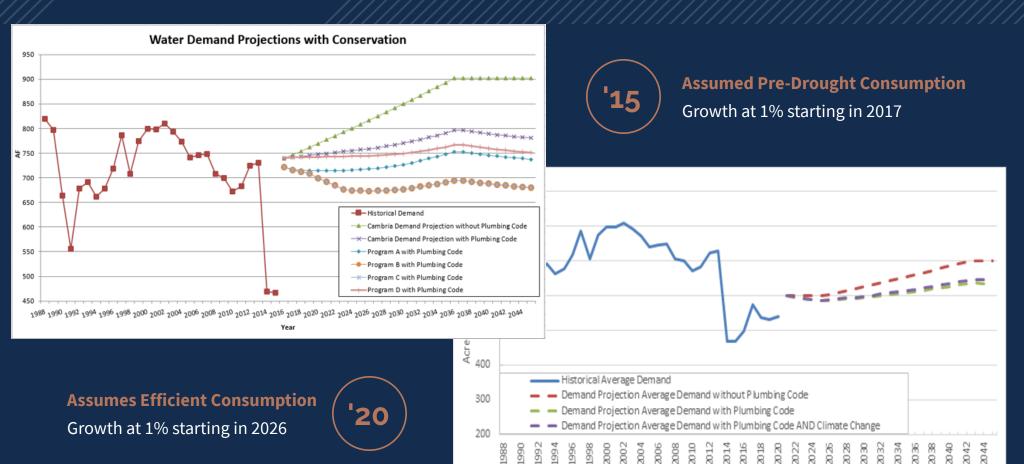


RESULTS OF ANALYSIS

Note: Population values have been rounded to the nearest 100 people, demand to the nearest 10 AFY.

	2020 (Actual)	2025	2030	2035	2040	2045
Population	6,032	6,000	6,300	6,500	6,800	6,900
Demands with NO Passive Savings (AFY)		600	630	660	690	700
Demands with Passive Savings (AFY)	540	580	590	610	630	630
Demands with Passive Savings AND Climate Change (AFY)		590	600	620	640	650

2015 - 2020 PLAN COMPARISON



The data tells a story, but the future is unwritten.

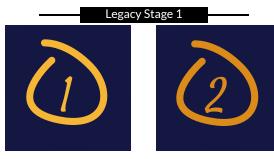
Questions?

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Water Shortage Severity Stages



Water Use Efficiency is a Way of Life



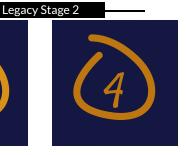
Water Shortage Watch





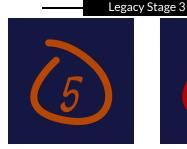
Water Shortage Warning





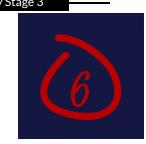
Water Shortage Emergency





Extreme Water **Shortage Emergency**





Exceptional Water Shortage Emergency

















DRY SEASON

Start Date April - October



Gradient -0.53 - 4.93

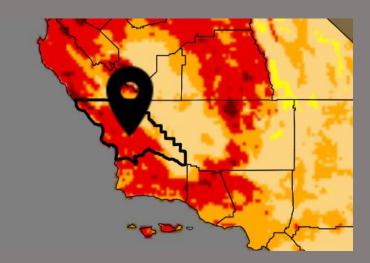
SAN SIMEON

Well Levels 0.88' to 25.3'

WBE/WBW

Well Levels 2.84 - 11.35





SHORTAGE INDICATORS

DECISION POINTS

Are the allocations appropriately sized?

Residential Average in CCF	75 th Percentile	95 th Percentile
7.13 CCF	8.71 CCF	15.25 CCF

At least 1,000 customers per billing cycle over 8 CCF Based on 2016-2020 CCSD billing data for dry season

Does your Board support the excess use surcharge structure? Or...

Tiered System

Tier

% used in Excess Fee per CCF

< 25%

> 25%

500% 1000% Current System

Offense

First Subsequent Fee per CCF

500% of all units in excess of allotment 1000% of all units in excess of allotment

Using today's rates...

a 500% penalty charge would equate to \$61.05 per CCF a 1000% penalty charge would equate to \$122.10 per CCF