



MARIN MUNICIPAL WATER DISTRICT





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Your Water System



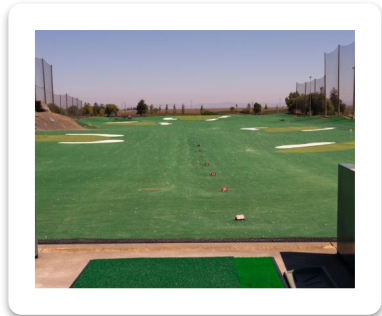
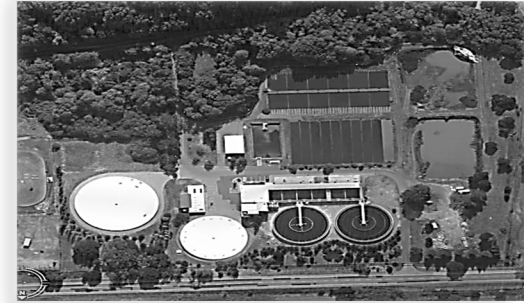
Mt. Tam Rainfall



7 Reservoirs



2 Treatment Plants



Recycled Water



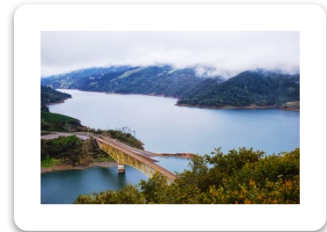
(600 AF/yr)

Habitat (12,925 AF/yr)

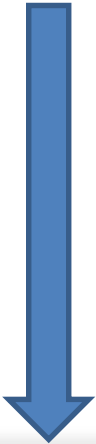


Russian River

77%



21%



22,800 AF/yr

190,000 residents



128 Storage Tanks, 97 Pump Stations



900 miles pipelines



FY 2019 CIP Budget Comparison

Agency	No. of Connections	Pipes/Tanks/ Pump Stations	% of Local Supply	FY 2019 CIP Budget (\$M)
MMWD	61,000	900/128/97	79%	\$20
Santa Rosa	53,000	600/24/20	10%	\$13
DSRSD	24,000	280/14/17	0%	\$16
Santa Cruz	25,000	300/16/18	100%	\$32
Alameda CWD	83,000	900/13/14	40%	\$32.6
EBMUD	389,000	4,100/168/140	0%	\$367



MMWD's Aging Facilities

Facility	Total Number	Number with Years in Service	
		>50 years	> 75 years
Storage Tanks	128	55 (43%)	11 (9%)
Pipelines (miles)	900	439 (49%)	76 (8%)
Reservoirs	7	5 (70%)	3 (43%)
Treatment Plants	3	2 (100%)	0



- 300+ miles of cast iron pipe remain in system
- Cost to replace 1 mile of pipe = **\$1.5M**



Leak on 65 year old cast iron pipe in Fairfax (June 10th)



10-Year Capital Improvement Plan



Seismic Upgrades to Clarifiers (\$20M)



Replace 50 miles of pipes (\$96M)



Replace Ross Reservoir (\$16M)

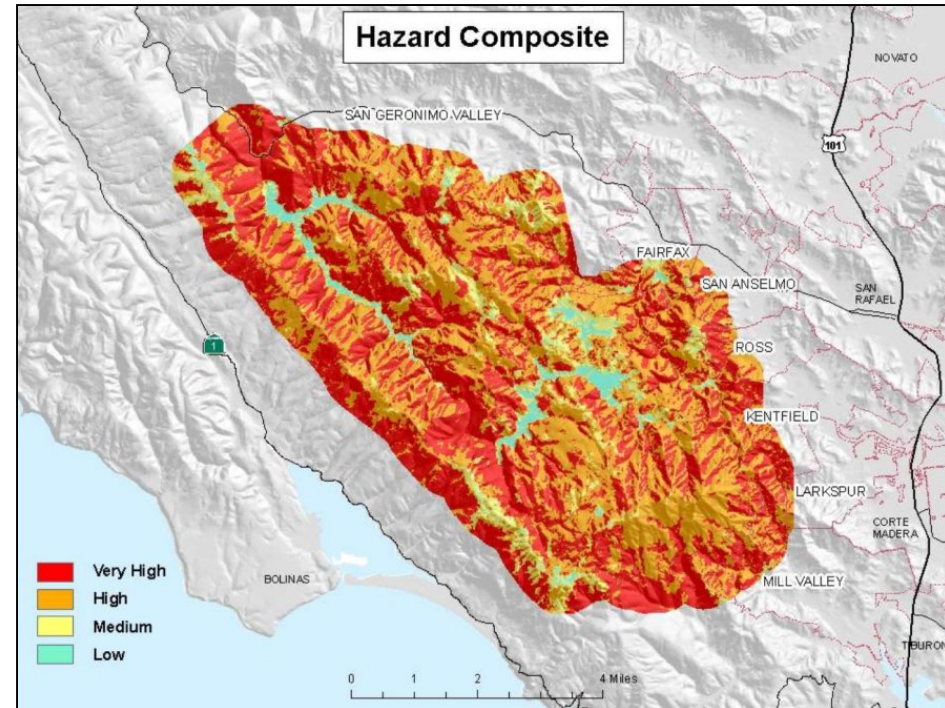


Rehabilitate Smith Saddle Tanks (\$7M)



Watershed Wildfire Risk

- Over 13,000 structures within 1 mile, and 25,000 structures within 2 miles
- CPUC rated as a Tier 3 Fire Risk
- Rated as High to Very High under CalFire's Fire Hazard Severity Zones.
- Increased Fuel Loads due to:
 - Sudden Oak Death
 - Invasive plants
 - Encroachment of Douglas fir
 - Fire suppression
- Potential impacts to water supply infrastructure and water quality





Fire Fuels Reduction

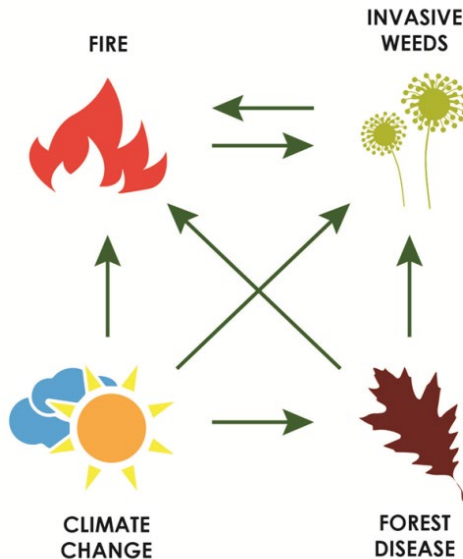




Approaches to Reducing Wildfire Risk

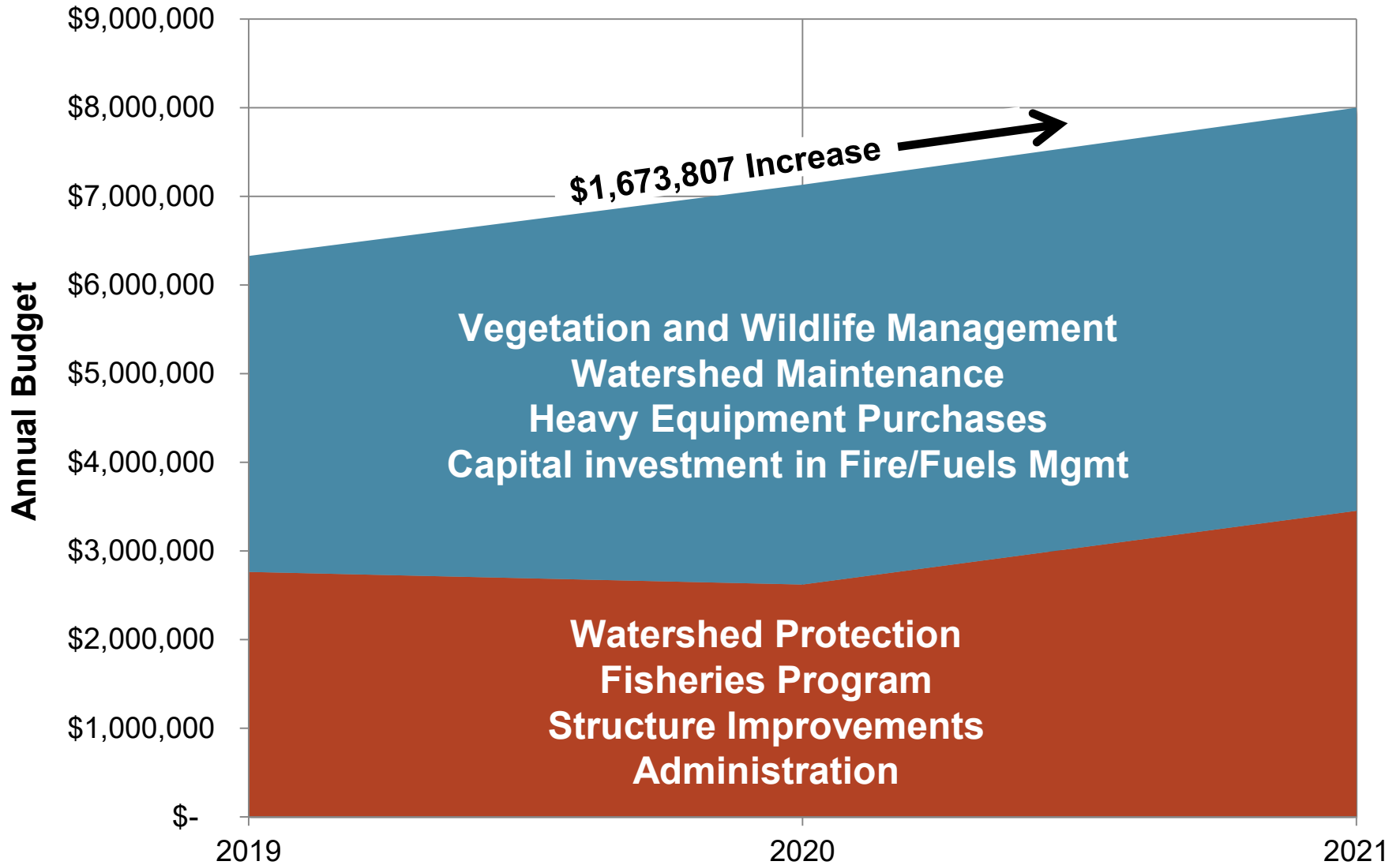


- **Maintenance and Construction of Fuel Breaks** (1,000 acres) primary, secondary, wide area, and defensible space.
- **Emergency Access** (100 miles) fire road clearance and road maintenance.
- **Fire Response** wildland fire-fighting capabilities, Type 3 engine and water tanker, and MERA.
- **Vegetation Management** resilient forest project, invasive species, prescribed burns, Douglas fir thinning and the *Draft Biodiversity, Fire, and Fuels Integrated Plan* (BFFIP).
- **Agency Coordination** Marin County Fire, Office of Emergency Services, PG&E, Conservation Corps North Bay, and FireSafe Marin.





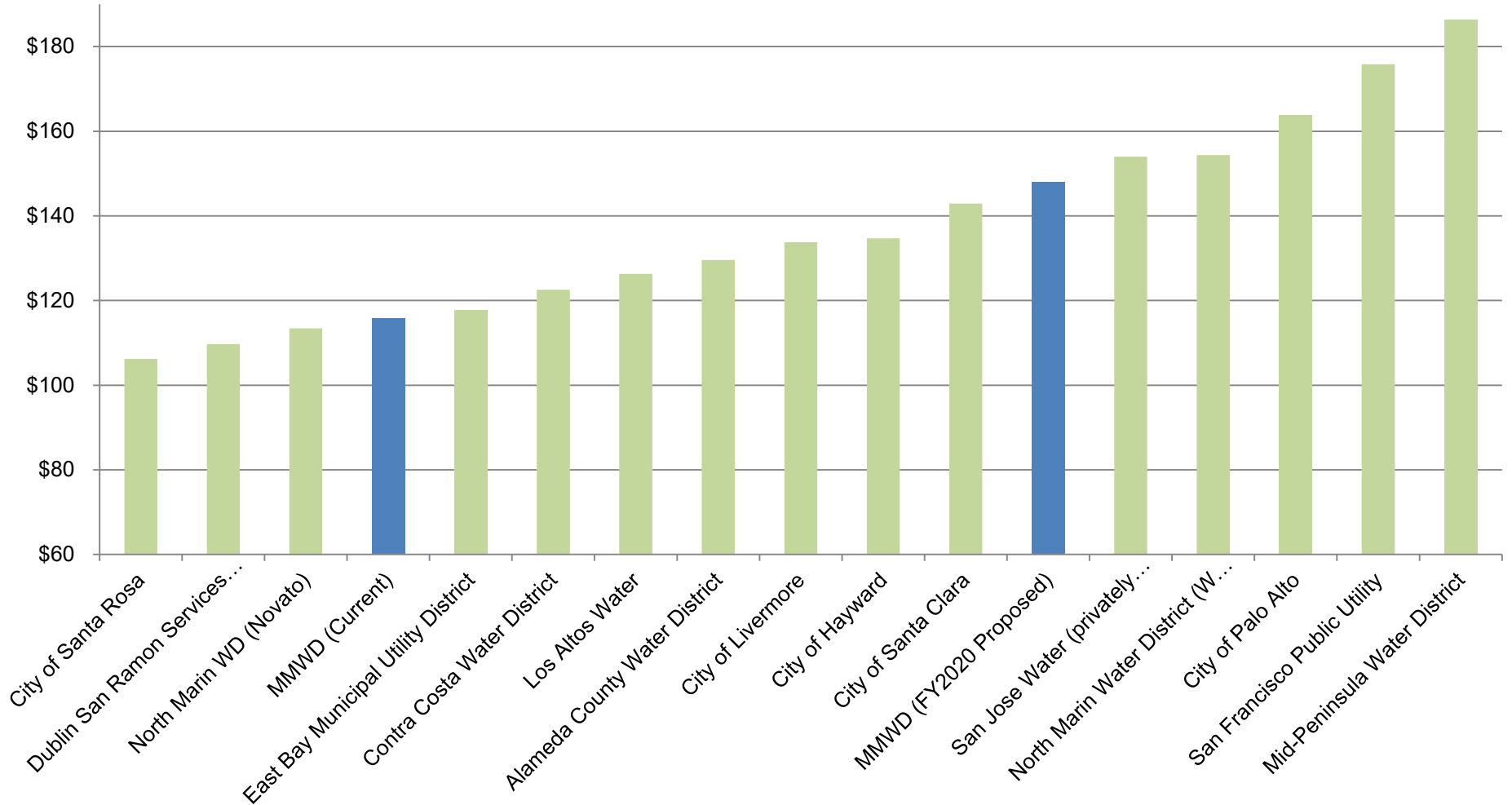
Watershed Budget Increases





Water Agency Rate Comparison

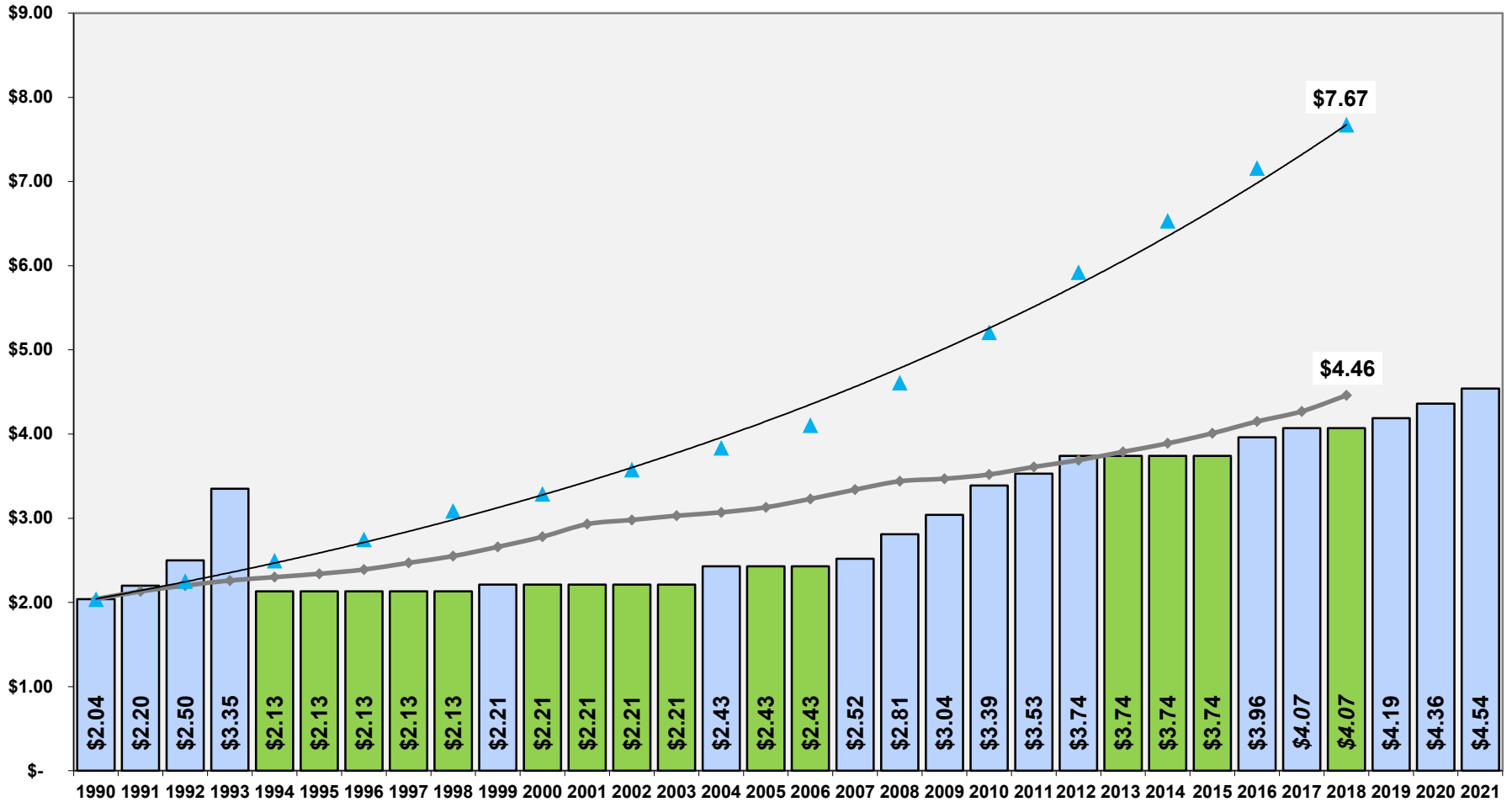
Bimonthly Cost of Water for Single Family Residential Customers (5/8" meter and 17ccf)



Note: Fire Flow program not included.



Tier 1 Rate History

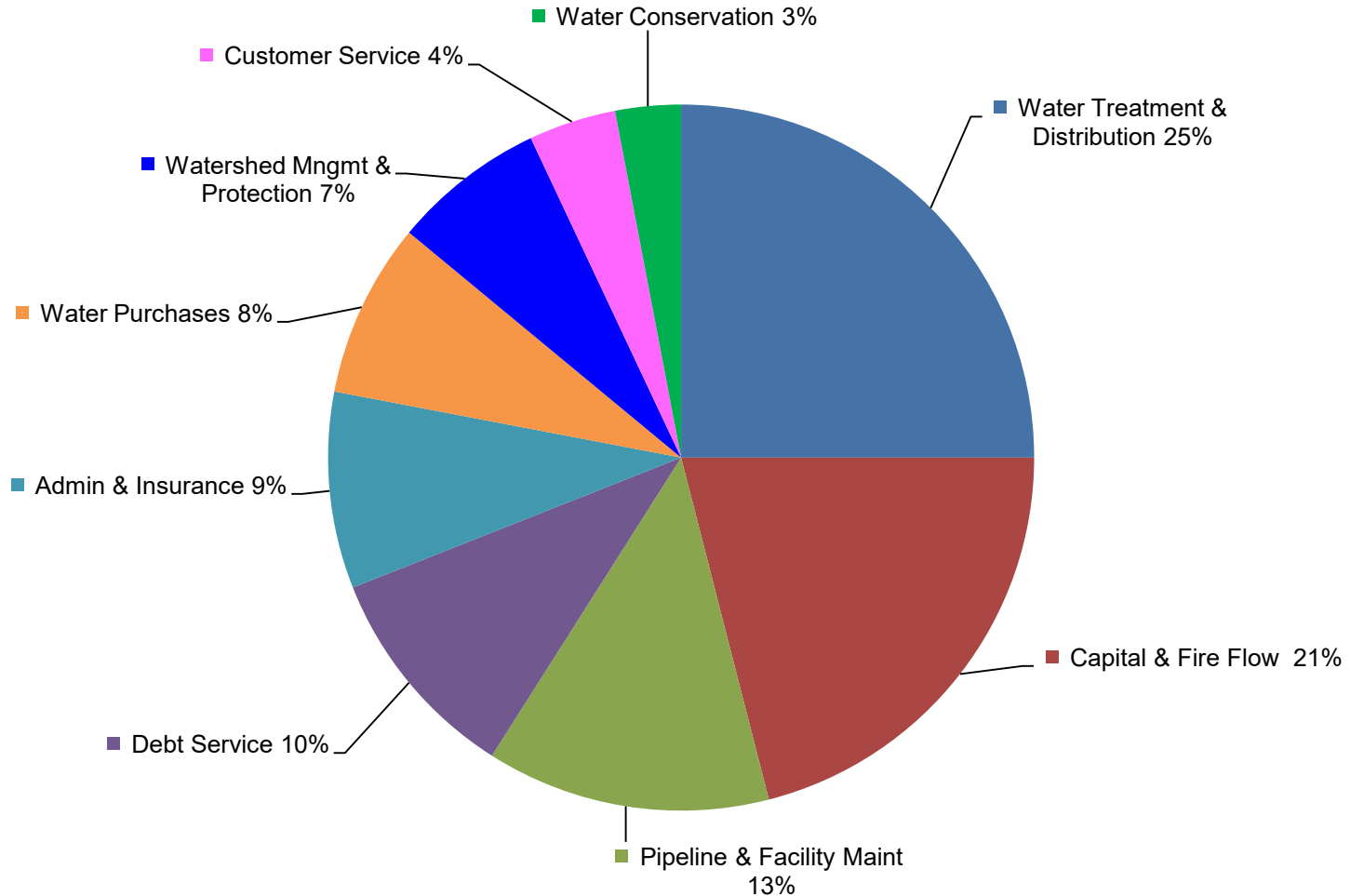




Budget Overview

Where Does Each Dollar Go?

FY20 overall budget totals \$105.2 million



Since FY2010 staffing numbers have been reduced from 266 to 240



MMWD is proposing to raise water rates to:

- invest in our aging infrastructure
- responsibly manage the growing demands on the watershed, including wildfire mitigation and protection
- continue to deliver high quality water – 24/7/365

The proposed rate changes include two main components, effective 7/01/2019:

- An increase to the water use (tiered rates) and fixed charges averaging a 4% revenue increase to keep pace with increasing costs to fund MMWD's ongoing operations and maintenance needs.
- A new Capital Maintenance Fee (CMF) to fund ongoing investments in critical water system projects and projects to reduce wildfire risk on Mt. Tam.



Capital Maintenance Fee

(including fire & fuels management)

Meter Size	# of Meters	% of Customers	Annual Per Meter Charge \$	Annual Revenue
5/8"	41,227	68.08%	163.50	\$ 6,740,615
3/4"	3,404	5.62%	245.25	\$ 834,831
1"	12,774	21.09%	408.74	\$ 5,221,245
1 1/2"	2,278	3.76%	817.47	\$ 1,862,197
2"	650	1.07%	1,307.95	\$ 850,168
3"	157	0.26%	2,861.14	\$ 449,199
4"	44	0.07%	5,150.05	\$ 226,602
6"	19	0.03%	11,444.54	\$ 217,446
8"	5	0.01%	19,619.21	\$ 98,096
10"	-	0.00%	31,063.75	\$ -
Totals	60,558	100.00%		\$ 16,500,398

**5/8" meters make up 69% of all accounts
and 74% of all single family residential accounts**



Impact to Average Customer

Average Single-Family Residential Customer Impact*						
For 5/8" meter size	Current Rates	Proposed July 1, 2019	Proposed July 1, 2020	Proposed July 1, 2021	Proposed July 1, 2022	Proposed July 1, 2022
Service Charge	\$36.79	\$39.66	\$41.25	\$42.90	\$44.62	\$46.41
Watershed Management Fee	\$9.78	\$10.29	\$10.71	\$11.14	\$11.59	\$12.06
Tier 1 Water Usage 17 CCFs	\$69.19	\$71.23	\$74.12	\$77.18	\$80.41	\$83.64
Total Bi-monthly Bill	\$115.76	\$121.18	\$126.08	\$131.22	\$136.62	\$142.11
Per Month	\$57.88	\$60.59	\$63.04	\$65.61	\$68.31	\$71.06
Monthly Increase		\$2.71	\$2.45	\$2.57	\$2.70	\$2.75
Annual Capital Maintenance Fee**		\$163.50	\$170.04	\$176.84	\$183.92	
Monthly		\$13.63	\$14.17	\$14.74	\$15.33	
Total Monthly Increase		\$16.34	\$16.62	\$17.31	\$18.03	

*based on average ratepayer bi-monthly usage of 17CCF's

**assumes Engineering News-Record (ENR) indexing (4% annual maximum)



- **Affordability**

- Increased access to the Service Charge Waiver Program for low income residents
- Implemented a new Super Water Saver program

- **Meter Size**

- Addressing meters upsized for non-consumption reasons (fire sprinkler systems, pressure zones)

- **Year-to-year Impact**

- Phasing in the CMF to lessen the year-to-year impact



- **Transparency**
 - CMF collection method
- **Public Process**
 - Public meetings
 - Citizen Advisory Panel on Infrastructure Investments

