

WILDFIRES – North Coast is Highly Vulnerable to Wildfires

	Top 20 Largest California Wildfires						
FIRE NAME (CAUSE)	DATE	COUNTY	ACRES	STRUCTURES	DEATHS		
1 AUGUST COMPLEX (Under Investigation)	August 2020	Mendocino, Humboldt, Trinity, Tehama Glenn Lake & Colusa	1,032,648	935	1		
2 DIXIE (Under Investigation)*	July 2021	Butte, Plumas, Lassen, & Tehama	844,081	1,282	0		
3 MENDOCINO COMPLEX (Under Investigation)	July 2018	Colusa, Lake, Mendocino & Glenn	459,123	280	1		
4 SCU LIGHTNING COMPLEX (Under Investigation)	August 2020	Stanislaus, Santa Clara, Alameda, Contra Costa, & San Joaquin	396,624	222	0		
5 CREEK (Under Investigation)	5 CREEK (Under Investigation) September 2020 Fresno & Madera		379,895	853	0		
6 LNU LIGHTNING COMPLEX (Under Investigation)	6 LNU LIGHTNING COMPLEX (Under Investigation) August 2020 Napa, Solano, Sonoma, Yolo, Lake, & Colusa 363,220		1,491	6			
7 NORTH COMPLEX (Under Investigation)	7 NORTH COMPLEX (Under Investigation) August 2020 Butte, Plumas & Yuba 318,93		318,935	2,352	15		
8 THOMAS (Powerlines)	December 2017	Ventura & Santa Barbara	281,893	1,063	2		
9 CEDAR (Human Related)	October 2003	San Diego	273,246	2,820	15		
10 RUSH (Lightning)	August 2012	Lassen	271,911 CA / 43,666 NV	0	0		
11 RIM (Human Related)	August 2013	Tuolumne	257,314	112	0		
12 ZACA (Human Related)	July 2007	Santa Barbara	240,207	1	0		
13 CARR (Human Related)	July 2018	Shasta County & Trinity	229,651	1,614	8		
14 MATILIJA (Undetermined)	September 1932	Ventura	220,000	0	0		
15 CALDOR (Under Investigation)	August 2021	El Dorado	204,390	729	0		
15 CALDOR (Under Investigation) 16 WITCH (Powerhnee) 17 KLAMAIT HIEATER COMPLEX (Lighthning) 18 MARELE CONE (Lighthning)	October 2007	San Diego	197,990	1,650	2		
17 KLAMATH THEATER COMPLEX (Lightning)	June 2008	Siskiyou	192,038	0	2		
17 KLAMATH THEATER COMPLEX (Lightning) 18 MARBLE CONE (Lightning) 19 LAGUNA (Puerline) 19 LAGUNA (Puerline)	July 1977	Monterey	177,866	0	0		
19 LAGUNA (Powerlines)	September 1970	San Diego	175,425	382	5		
20 MONUMENT (Under Investigation)	August 2020	Trinity	174,706	50	0		

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Examples of Sonoma Water's On-Going Efforts on Adaptation

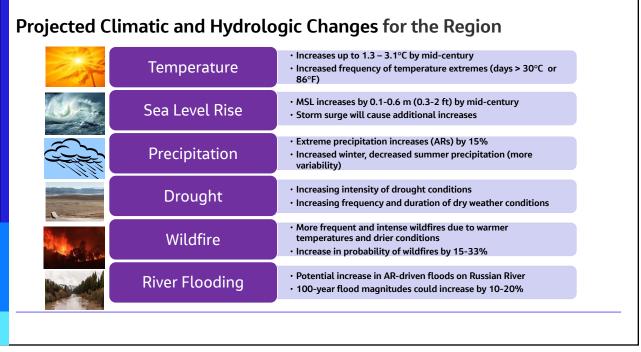
- Partnering with Center for Western Weather and Water Extremes (CW3E), USGS, and NOAA for Climate Science
- Forecast Informed Reservoir Operations (FIRO)
- Advanced Quantitative Precipitation Information (AQPI)
- Fire Camera Alert System (AlertWildfire)
- NOAA Habitat Blueprint Adaptive Management and Restoration
- Local Hazard Mitigation Plan (LHMP)
- Climate Adaptation Plan (CAP)
- Water Supply Resiliency Study
- Central Sonoma Watershed Project Vulnerability Assessment
- Sonoma OneRain Network
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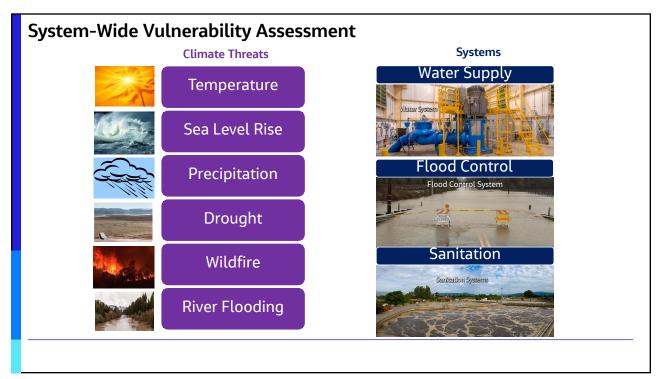
Sonoma Water's Climate Adaptation Plan

Guide Sonoma Water's assessment of climate risks to water supply, sanitation, and flood control infrastructure and operations, and to serve as a roadmap for developing, evaluating, and implementing adaptation strategies to improve the resilience of the Sonoma Water's systems





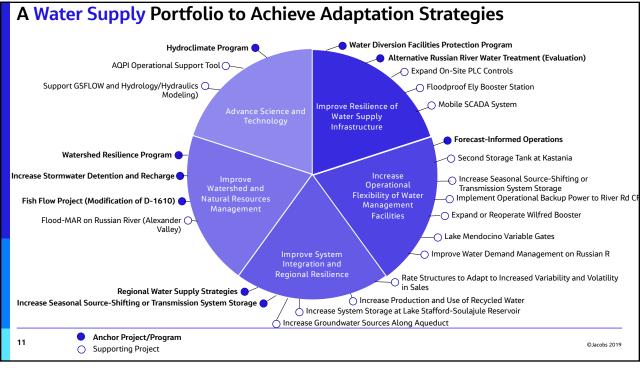


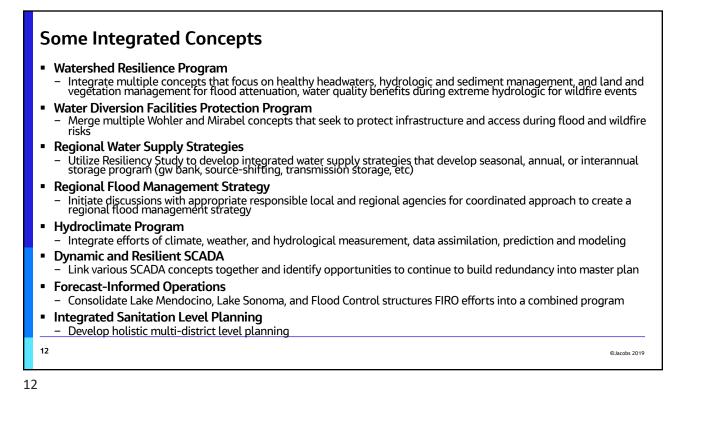


			1						
						Sensitivity			
Vulnerability & Ri	sk Assessment		Low = 1	Low=1 L	Moderate/Low = 2 M/1	Moderate = 3 H	Moderate/High = 4	High = 5 H	
Vulnerability = Sensitivity x Adaptive Capacity		lty.		L	м	M/H	н	н	
	-	Adaptive Capacity	Moderate = 3	L	L	м	м	н	
		4	Moderate/High = 4	L	L	L	м	м	
			High = 5	L	L	L	L	ы	
				Consequence					
Risk =			Very Likely = 5	Negligible = 1 L	Minor = 2	Moderate = 3 H	Major = 4 H	Severe = 5 H	
Consequence x Likelihood									
			Likely = 4	L	м	м	н	н	
Consequence	Likelihood	Likelihood	Likely = 4 Moderate = 3	L	L	м	м	н	
System FunctionSocial	Likelihood Degree of confidence climate projections	Likeli hood							
System Function	Degree of confidence	Likelihood	Moderate = 3	L	L	м	м	н	
 System Function Social Governance 	Degree of confidence	Likelihood	Moderate = 3 Unlikely = 2	L L	L	L	M M	H M	

Major Vulnerabilities -	Water	Suppl	y System
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Facility/Asset	Temp	Sea Level Rise	Extreme Precip	River Flooding	Drought	Wildfire
Mirabel Diversion Facilities				Н	М	Н
Wohler Diversion Facilities				Н	М	Н
Wohler Chlorination and Corrosion Control			M/H	M/H		M/H
Mirabel Chlorination and Corrosion Control			L	L		L
River Road Chlorination			M/H	Н		
Ely Booster			н			
Kawana Booster			М			
Upper Russian River Supply (Watershed and Lake Mendocino)	М				М	М
Lake Sonoma	М				М	М
10		H = hig	h M = mod	erate L = lo	W	©Jacobs 201





Questions?

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