13. SONOMA RESOURCE CONSERVATION DISTRICT

13.1 LOCAL HAZARD MITIGATION PLANNING TEAM

Primary Point of Contact

Valerie Quinto, Executive Director 1221 Famers Lane, Suite F Santa Rosa, CA 95405 Telephone: 707-569-1448 x102 e-mail Address: <u>vminton@sonomarcd.org</u>

Alternate Point of Contact

Aaron Fairbrook, Program Manager 1221 Farmers Lane, Suite F Santa Rosa, CA 95405 Telephone: 707-569-1448 x 106 e-mail Address: <u>afairbrook@sonomarcd.org</u>

This annex was developed by the local hazard mitigation planning team, whose members are listed in Table 13-1.

Table 13-1. Local Mitigation Planning Team Members		
Name	Title	
Valerie Quinto	Executive Director	
Aaron Fairbrook	Program Manager	
Erica Mikesh	Partner Engineer	
Jessica Pollitz	Engineer	
Jason Wells	Forester	
Anya Starovoytov	Project Manager	
Katie Robbins	Project Manager	

13.2 JURISDICTION PROFILE

13.2.1 Overview

Sonoma RCD was incorporated in its current form in 2013. The District was the result of a series of District formations and reorganizations between 1946 and 2013. Each District was formed by vote of local landowners (as made possible by Division 9 of the CA Public Resources Code), and the reorganizations were each carried out to increase efficiency and consistent delivery of conservation services throughout that majority of the county. In its more than 70 year history, Sonoma RCD has focused on providing conservation services to willing landowners, helping them be part of the solution to pressing natural resource issues through non-regulatory pathways.

The climate of Sonoma RCD varies from the fog-influenced coastline to the warmer interior valleys. Rainfall varies widely across the landscape, averaging around 25 inches per year in much of the District, but reaching an average of 75 inches per year in the wetter northwest corner.

The Sonoma RCD is governed by a 7-member Board of Directors, each of whom serve as volunteers and are appointed by the County Board of Supervisors. The RCD Board also includes non-voting Associate and Emeritus Directors.

The Sonoma RCD Board of Directors assumes responsibility for the adoption of this plan and for overseeing its implementation. Development of this annex was carried out by Executive Director Valerie Quinto.

13.2.2 Service Area

Sonoma Resource Conservation District (RCD) is in Sonoma County

The current boundaries generally extend from the area south of the Sonoma-Mendocino county line, west of the Sonoma-Lake and Sonoma-Napa county line, north of the mainstem Russian River, east of the Laguna de Santa Rosa mainstem, and south of the Stemple Creek watershed divide to the Sonoma-Marin county line, encompassing an area of over 1,500 square miles.

13.2.3 Assets

Table 13-2 summarizes the assets of the District and their value.

Table 13-2. Special Purpose District Assets		
Asset	Value	
Equipment		
Pickup truck	\$35,000	
Office equipment	\$45,000	
Total:	\$80,000	
Critical Facilities and Infrastructure		
Office (rented) 1221 Farmers Lane, Suite F, Santa Rosa 95405	N/A	
Total:	\$0	

13.3 CURRENT TRENDS

According to the 2010 US Census, less the population claimed by Gold Ridge RCD (the two RCDs make up the entirety of the County), the population of Sonoma RCD as of 2010 was over 460,000. According to the Sonoma County Economic Development Board, between 2010 and 2017 the population of Sonoma County has grown by 7.4 percent.

The Sonoma RCD District includes a wide variety of land uses, reflecting the overall diversity of land uses within the County. The RCD does not have authority of land use decisions, and as such does not maintain data on development trends.

Areas added to the District in recent years consisted of 12 islands that were surrounded by the District's boundaries but not previously included in its sphere of influence. The annexation was part of the District's 2013 reorganization, and was carried out at the request of the Local Agency Formation Commission and with the consent of the two Districts involved with the reorganization.

13.4 CAPABILITY ASSESSMENT

This section describes an assessment of existing capabilities for implementing hazard mitigation strategies. The introduction at the beginning of this volume of the hazard mitigation plan describes the components included in the capability assessment and their significance for hazard mitigation planning.

Findings of the capability assessment were reviewed to identify opportunities to expand, initiate or integrate capabilities to further hazard mitigation goals and objectives. Where such opportunities were identified and determined to be feasible, they are included in the action plan. The "Analysis of Mitigation Actions" table in this annex identifies these as community capacity building mitigation actions. The findings of the assessment are presented as follows:

- An assessment of planning and regulatory capabilities is presented in Table 13-3.
- An assessment of fiscal capabilities is presented in Table 13-4.
- An assessment of administrative and technical capabilities is presented in Table 13-5.
- An assessment of education and outreach capabilities is presented in Table 13-6.
- Classifications under various community mitigation programs are presented in Table 13-7.
- The community's adaptive capacity for the impacts of climate change is presented in Table 13-8.

Table 13-3. Planning and Regulatory Capability		
	Date of Most	
Plan, Study or Program	Recent Update	Comment
Lower Sonoma Creek Flood Management and Ecosystem Enhancement Study	2012	
Sonoma and Carriger Creek Alluvial Fan Assessment	2012	
Petaluma Valley Historical Hydrology and Ecology Study	2018	
Petaluma Watershed Enhancement Plan (draft)	2015	Update currently underway
Mill Creek Watershed Management Plan	2015	
Maacama and Upper Mark West Creek Integrated Watershed Management Plan (draft)	2015	
Program: LandSmart Planning	N/A	
Program: LandSmart On-the-Ground	N/A	
Program: LandSmart Water Resources	N/A	
Sonoma County Community Wildfire Protection Plan (CWPP)	2016	Update currently underway
Sonoma County Hazard Mitigation Plan	2016	Update currently underway
Public Resources Code, Section 9—Resource Conservation	2017	Enabling state legislation for natural resource conservation.
Sonoma County Recovery and Resiliency Framework	2018	Potential Actions: NR 1.2.46, 1.2.8, 1.3.1, 2.1.13, 2.1.5, 2.2.2, 2.4.1, 2.4.3, 2.4.5, 3.1.2, 3.1.8, 3.2.6, 3.4.3.
Upper Mark West Watershed CWPP	2018	
Fitch Mountain CWPP	2019	
Fort Ross Area CWPP		
Grove Street Area CWPP	2020	
Mill Creek Area CWPP	2020	
Santa Rosa Fire Department CWPP	2020	

TETRA TECH

Table 13-4. Fiscal Capability		
Financial Resource	Accessible or Eligible to Use?	
Capital Improvements Project Funding	Yes	
Authority to Levy Taxes for Specific Purposes	Yes	
User Fees for Water, Sewer, Gas or Electric Service	No	
Incur Debt through General Obligation Bonds	Yes	
Incur Debt through Special Tax Bonds	Yes	
Incur Debt through Private Activity Bonds	No	
State-Sponsored Grant Programs	Yes	
Development Impact Fees for Homebuyers or Developers	No	
Federal Grant Programs	Yes	
Other—Foundation Grants, Donations	Yes	

Table 13-5. Administrative and Technical Capability				
Staff/Personnel Resource	Available?	Department/Agency/Position		
Planners or engineers with knowledge of land development and land management practices	Yes	2 Licensed Civil Engineers (1 shared with Gold Ridge RCD); 1 Registered Professional Forester (shared with Gold Ridge RCD); 1 Certified Professional In Erosion & Sediment Control; several other staff with professional expertise in land management practices		
Engineers or professionals trained in building or infrastructure construction practices	Yes	2 Licensed Civil Engineers (same as above)		
Planners or engineers with an understanding of natural hazards	Yes	Same as above		
Staff with training in benefit/cost analysis	No	N/A		
Surveyors	Yes	Engineers		
Personnel skilled or trained in GIS applications	Yes	Several of the staff identified above		
Scientist familiar with natural hazards in local area	Yes	Same as above		
Emergency manager	No	N/A		
Grant writers	Yes	Same as above + Executive Director		

Table 13-6. Edu	ucation and C	Outreach
-----------------	---------------	----------

Criterion	Response	
Do you have a public information officer or communications office?	Yes	
Do you have personnel skilled or trained in website development?	Yes	
Do you have hazard mitigation information available on your website? If yes, briefly describe: Fire recovery resources page <u>https://sonomarcd.org/resources/fire-recovery/</u>	Yes	
Do you use social media for hazard mitigation education and outreach? If yes, briefly describe: Posts directing the public to written resources, informational meetings, and technical assistance available	Yes	
Do you have any citizen boards or commissions that address issues related to hazard mitigation? <i>If yes, briefly describe:</i> Board of Directors and project-specific advisory committees (e.g. convened to prioritize projects to be implemented through a specific grant)	Yes	

Criterion	Response
Do you have any other programs already in place that could be used to communicate hazard-related information? If yes, briefly describe: Workshops (in-person and virtual); youth education programs; one-on-one or small group technical assistance	Yes
Do you have any established warning systems for hazard events? If yes, briefly describe:	No

Table 13-7. Community Classifications			
	Participating?	Classification	Date Classified
FIPS Code	No		
DUNS#	Yes	170143106	
Community Rating System	No		
Building Code Effectiveness Grading Schedule	No		
Public Protection	No		
Storm Ready	No		
Firewise	No		
Tsunami Ready	No		

Table 13-8.	Adaptive	Capacity for	or Climate	Change

Criterion		Jurisdiction Ratinga
Technical C	apacity	
	-level understanding of potential climate change impacts Our team regularly uses knowledge of wildfire, drought, and sensitive species impacts in our work	High
Jurisdiction	-level monitoring of climate change impacts	Low
Comment:	In most cases, we rely on partners or consultants for monitoring. Our most active widespread monit groundwater level monitoring.	toring efforts are
Technical re	sources to assess proposed strategies for feasibility and externalities	Medium
Comment:	Our team has significant experience with construction feasibility of land management practices, and change considerations such as drought into project planning	d incorporates climate
Jurisdiction	-level capacity for development of greenhouse gas emissions inventory	Low
Comment:		
Capital plan	ning and land use decisions informed by potential climate impacts	Medium
Comment:	We have capacity for this in the rural and agricultural setting, not for public infrastructure	
Participation	n in regional groups addressing climate risks	Medium
Comment:	Collaboration with other RCDs, Carbon Cycle Institute, other technical partners, Regional Climate F	Protection Authority
Implementa	tion Capacity	
	rity/mandate to consider climate change impacts during public decision-making processes Division 9 of Public Resources Code; CEQA; grant program requirements	High
	rategies for greenhouse gas mitigation efforts	High
	Carbon farming, forest management	
	rategies for adaptation to impacts	High
	Numerous climate adaption projects, including carbon farming, water reliability, forest management	
Champions	for climate action in local government departments Champions at both Board and staff levels	High

Criterion		Jurisdiction Rating ^a
Political su	pport for implementing climate change adaptation strategies	High
Comment:	Elected officials, agencies, landowners, and other stakeholders rely on us to implement climate ada programs	ptation through our
Financial re	sources devoted to climate change adaptation	Medium
Comment:	We bring in significant grant funding for this work, but our capacity is limited by the need to seek gra	ants
Local author	rity over sectors likely to be negative impacted	Low
Comment:	We have no regulatory authority.	
Public Capa	city	
Local resid	ents knowledge of and understanding of climate risk	Medium
Comment:	We serve a large and diverse district. While many residents have knowledge and understanding of connected to these issues.	risks, others are not as
Local reside	ents support of adaptation efforts	Medium
Comment:	Similar to the above, there are many passionate supporters of adaptation efforts, and others who at this issue.	re not as connected to
Local reside	ents' capacity to adapt to climate impacts	Medium
Comment:	In addition to gaps in knowledge and interest among some residents, technical and financial resour some.	ces are also a barrier for
Local econo	my current capacity to adapt to climate impacts	Medium
Comment:		
	stems capacity to adapt to climate impacts	Medium

Low = Capacity does not exist or could use substantial improvement; Unsure= Not enough information is known to assign a rating.

13.5 INTEGRATION REVIEW

For hazard mitigation planning, "integration" means that hazard mitigation information is used in other relevant planning mechanisms, such as capital facilities planning, and that relevant information from those sources is used in hazard mitigation. This section identifies where such integration is already in place, and where there are opportunities for further integration in the future. Resources listed at the end of this annex were used to provide information on integration. The progress reporting process described in Volume 1 of the hazard mitigation plan will document the progress of hazard mitigation actions related to integration and identify new opportunities for integration.

13.5.1 Existing Integration

Some level of integration has already been established between local hazard mitigation planning and the following other local plans and programs:

- Sonoma RCD Strategic Direction 2017-2020—Includes the following goal: Landowners and managers are empowered to manage their land in ways that promote resiliency to wildfires and other natural disasters. Communities are supported to come together and plan for natural disasters and emergencies in ways that protect natural resources in addition to human health & safety
- Mill Creek Integrated Hydrologic Model & Streamflow Enhancement Study *and* Mark West Creek Flow Availability Analysis (both currently in draft)—Address climate change impacts in hydrologic

modeling and identify projects to mitigate drought impacts to flow availability for both humans and fish/wildlife

- Watershed planning documents identified in Table 13-3—These documents identify and prioritize various actions relevant to climate adaptation
- **CWPPs identified in Table 13-3**—Provide a general overview and assessment of wildfire risks and prioritizes tasks to increase fire resiliency at the neighborhood level and certified by local officials.

13.5.2 Opportunities for Future Integration

The capability assessment presented in this annex identified the following plans and programs that do not currently integrate hazard mitigation information but provide opportunities to do so in the future:

- **Future hydrologic or sediment modeling**—The RCD has identified watersheds where such modeling would be helpful to inform projects that alleviate flooding and/or stream bank erosion.
- Watershed- or neighborhood-wide forest management plans—This approach could more efficiently (than individual plans) meet forest management planning needs for some areas
- **County CWPP Update**—The update includes more robust stakeholder participation in the planning and prioritization of wildfire risk reduction projects, and increased science-based risk assessment and GIS mapping.
- Sonoma County Strategic Plan—The five-year Strategic Plan will provide context to inform policies and projects that are funding for the next five years. The plan will guide how to align short and long-term objectives so the County Board of Supervisors' actions reflect a clear sense of purpose.
- Sonoma County General Plan Update—The General Plan is a policy document that establishes a vision for the future of Sonoma County. It prioritizes, organizes, and directs development and conservation for 20-year increments and was last updated in 2008.
- **Future Local CWPPs or similar plans**—Additional documents that provide a general overview and assessment of wildfire risks and prioritizes tasks to increase fire resiliency at the neighborhood level and certified by local officials.

13.6 RISK ASSESSMENT

13.6.1 Jurisdiction-Specific Natural Hazard Event History

Table 13-9 lists past occurrences of natural hazards for which specific damage was recorded in Sonoma RCD. Other hazard events that broadly affected the entire planning area, including Sonoma RCD, are listed in the risk assessments in Volume 1 of this hazard mitigation plan.

13.6.2 Hazard Risk Ranking

Table 13-10 presents a local ranking of all hazards of concern for which this hazard mitigation plan provides complete risk assessments. As described in detail in Volume 1, the ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy. Mitigation actions target hazards with high and medium rankings.

Table 13-9. Past Natural Hazard Events								
Type of Event	FEMA Disaster #	Date	Damage Assessment					
Drought (Sonoma & Mendocino Counties)	N/A	Declared April 21, 2021	Unknown					
Wildfire (Glass)	FM-5376-CA	September 27, 2020	Unknown					
Wildfire (LNU Lightning)	FM-5331-CA	August 17, 2020	Unknown					
Wildfire (Kincade)	FM-5295-CA	October 24, 2019	Unknown					
Severe Winter Storms, Flooding, Landslides, and Mudslides	DR-4434-CA	February 24 – March 1, 2019	Unknown					
Wildfire (Nuns)	FM-5220-CA	October 8, 2017	Unknown					
Wildfire (Tubbs)	FM-5215-CA	October 8, 2017	Unknown					
Severe Winter Storms, Flooding, and Mudslides	DR-4308-CA	February 1 – 23, 2017	Unknown					
Severe Winter Storms, Flooding, and Mudslides	DR-4305-CA	January 18 – 23, 2017	Unknown					
Drought	N/A	2014-2016	Unknown					

Table 13-10. Hazard Risk Ranking						
Rank	Hazard	Category				
1	Wildfire	High				
1	Drought	High				
1	Flood	High				
2	Landslide	Medium				
2	Severe Weather	Medium				
2	Earthquake	Medium				
2	Dam Failure	Medium				
2	Sea Level Rise	Medium				
3	Tsunami	Low				

13.6.3 Jurisdiction-Specific Vulnerabilities

Volume 1 of this hazard mitigation plan provides complete risk assessments for each identified hazard of concern. The following jurisdiction-specific issues have been identified based on a review of the results of the risk assessment, public involvement strategy, and other available resources:

• Agricultural Hazards—Agricultural land and rangeland are vital to the economy and important to consider when addressing issues related to groundwater, watersheds, and wildfire. Most of the agricultural hazards in the District are weather related (e.g., freeze, hail, prolonged high temperatures, wind, flood, drought). Other hazards include insects and disease.

Mitigation actions addressing these issues were prioritized for consideration in the action plan in this annex.

13.7 HAZARD MITIGATION ACTION PLAN

Table 13-11 lists the actions that make up the hazard mitigation action plan for this jurisdiction. Table 13-12 identifies the priority for each action. Table 13-13 summarizes the mitigation actions by hazard of concern and mitigation type.

			Table 13-11. Hazard Mitigation	Action Plar	n Matrix	
Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline
			uation of Operations Plan for the Distr	ict		
		ſ	inundation, wildfire, severe weather			
Existing	6	Sonoma RCD	N/A	Low	General funds	Short- term
that may cau	use damage (electronic file storage to the cloud in sibility at the office			asters
Hazards Miti			Earthquake, dam inunda			
Existing	6	Sonoma RCD	N/A	Medium	HMGP	Short- term
personal sca	ale		and education to the community rega	arding hazar	ds and opportunities to mitigate or	na
	I		ought, landslide, severe weather			A
Existing & New	4, 10, 2	Sonoma RCD	Ag + Open Space, RCDs, Sonoma Water, UC Cooperative Extension, County of Sonoma, NGOs, Fire Safe Sonoma, local fire districts	Medium	General funds; cooperative agreements with local government agencies; grants and contracts from agencies such as CA Department of Food & Agriculture, CA Wildlife Conservation Board, CalFire	Ongoing
	D-4—Develop g <u>ated:</u> Droug		urce and storage systems for commu	nities and in	dividuals.	
Existing	4, 2	Sonoma RCD	Russian River Coho Partnership	High	CA Wildlife Conservation Board	Ongoing
holding cap <u>Hazards Miti</u>	acity with ind <u>gated:</u> Droug	lividuals a ht, flood, la	yies to Improve soil health including c nd communities. andslide, agricultural hazards	-		
Existing & New	4, 2, 10	Sonoma RCD	Ag + Open Space, RCDs, Regional Climate Protection Authority, Zero Waste Sonoma, Carbon Cycle Institute, North Coast Soil Health Hub, NGOs	High	CA Department of Food & Agriculture; USDA-NRCS; Restore CA; CA Wildlife Conservation Board	Ongoing
and commu	nities.		ent agroforestry practices including h	edgerows, w	indrows, riparian plantings with in	dividuals
Existing	<u>galeu:</u> Droug 4, 6, 9	Sonoma RCD	storms, agricultural hazards Ag + Open Space, RCDs, Regional Climate Protection Authority, Zero Waste Sonoma, Carbon Cycle Institute, North Coast Soil Health Hub, NGOs	High	CA Department of Food & Agriculture; USDA-NRCS; Restore CA; CA Wildlife Conservation Board	Ongoing

	1	1				
Benefits New or						
Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline
			nservation measures with agricultural			
			agement, and alternative water source		neidunng inngation scheddinng and	4
-	i <u>gated:</u> Droug					
Existing	4, 2	Sonoma RCD	Agricultural support organizations (e.g. RCDs, University of California Cooperative Extension, Farm Bureau, Community Alliance with Family Farmers)	High	CA Department of Food & Agriculture; USDA-NRCS; CA Department of Water Resources	Ongoing
Action SRC	D-8—Plan, de	sign, and	implement stormwater management a	and attenuat	ion projects	
Hazards Miti	i <u>gated:</u> Flood,	Drought				
Existing & New	10, 4, 2, 9	Sonoma RCD	Groundwater Sustainability Agencies, Land protection organizations	High	State Water Board; Department of Conservation; Wildlife Conservation Board; BRIC	Ongoing
Action SRC	D-9—Protect,	enhance,	or restore inland buffers by improvin	g wetland he	ealth and size, and reducing saltwa	ater
intrusion.				-	-	
	i <u>gated:</u> Sea le					
Existing & New	4, 8, 10	Sonoma RCD	Ag & Open Space, Sonoma Water, Sonoma Land Trust, USDA	High	Ag & Open Space, BRIC, Sonoma Water, Sonoma Land Trust, USDA, EPA, State Coastal Conservancy, Private Foundations	Ongoing
Action SRC	D-10—Pursue	e long-terr	n permitting solutions for levee maint	enance	,	
	i <u>gated:</u> Flood	Ū				
Existing	10, 2	Sonoma RCD	Participating landowners/managers; state, federal, regional, and local permitting agencies	High	Participating landowner contributions; HMGP	Ongoing
Action SRC	D-11—Plan, d	lesign and	I implement slope stability and erosio	n control me	easures where necessary and feas	ible
	i <u>gated:</u> Lands	lide, wildfir	e			
Existing	9	Sonoma RCD		High	USDA-NRCS	Ongoing
catastrophic planning, ar	c wildfire (inc	vith comm luding suj uel breaks	nunities to plan and implement defens oport for prescribed burn association along strategic locations including a	community	grazing programs, forest manage	
Existing & New	2, 9, 4	Sonoma RCD	RCDs, County of Sonoma, COPE groups, Fire Safe Councils, Good Fire Alliance, Land protection organizations, Audubon Canyon Ranch Fire Forward program	High	National Association of Conservation Districts; BRIC; USDA-NRCS; CalFire	Ongoing
forest mana	D-13—Engag gement plans i <u>gated:</u> Wildfir	S.	I provide guidance to communities de	veloping co	mmunity-scale plans such as CWF	PPs or
Existing & New	2, 9, 4		Fire Safe Sonoma, COPE groups, Fire Safe Councils	Medium	National Association of Conservation Districts; BRIC	Ongoing

Benefits New or Existing Assets	Objectives Met	Lead Agency	Support Agency	Estimated Cost	Sources of Funding	Timeline
Action SRCI wildfire	D-14—Plan ai	nd implem	ent landscape-scale vegetation mana	igement to re	educe the risk of damage from ca	itastrophic
Hazards Mitig	<u>gated:</u> Wildfir	e				
Existing & New	2, 4, 9	Sonoma RCD	Land protection organizations, Audubon Canyon Ranch Fire Forward program:	High	USDA-NRCS; CalFire; BRIC	Ongoing

a. Short-term = Completion within 5 years; Long-term = Completion within 10 years; Ongoing= Continuing new or existing program with no completion date

See the introduction to this volume for list of acronyms used here.

	Table 13-12. Mitigation Action Priority									
Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Cost?	Is Project Grant- Eligible?	Can Project Be Funded Under Existing Programs/ Budgets?	Implementation Priority ^a	Grant Pursuit Priority ^a		
SRCD-1	1	Medium	Low	Yes	Unknown	Yes	High	Low		
SRCD-2	1	High	Medium	Yes	Unknown	Yes	High	Low		
SRCD-3	3	High	Medium	Yes	Yes	Partially	High	Medium		
SRCD-4	2	High	High	Yes	Yes	No	High	High		
SRCD-5	3	High	High	Yes	Yes	No	High	High		
SRCD-6	3	Medium	High	No	Yes	No	Medium	Medium		
SRCD-7	2	High	High	Yes	Yes	No	Medium	Medium		
SRCD-8	4	High	High	Yes	Yes	No	Medium	Medium		
SRCD-9	3	Medium	High	No	Yes	No	Low	Low		
SRCD-10	2	High	Medium	Yes	Unknown	Partially	High	High		
SRCD-11	1	High	High	Yes	Yes	No	Medium	Medium		
SRCD-12	3	High	High	Yes	Yes	No	High	High		
SRCD-13	3	High	High	Yes	Yes	No	Medium	Medium		
SRCD-14	3	High	High	Yes	Yes	No	High	High		

a. See the introduction to this volume for explanation of priorities.

		Table	13-13. Analy	ysis or writiga	mon Actions						
		Action Addressing Hazard, by Mitigation Type ^a									
Hazard Type	Prevention	Property Protection	Public Education & Awareness	Natural Resource Protection	Emergency Services	Structural Projects	Climate Resilient	Community Capacity Building			
High-Risk Hazar	ds										
Wildfire		SRCD-11, 12, 14	SRCD-3, 13	SRCD-11, 14	SRCD-1, 2	SRCD-4	SRCD-4, 14	SRCD-3, 12, 13, 14			
Drought			SRCD-3	SRCD-4, 5, 6, 7, 8		SRCD-4, 8	SRCD-4, 5, 7, 8	SRCD-3			
Flood		SRCD-9, 10	SRCD-3	SRCD-5, 8, 9		SRCD-8	SRCD-5, 8, 9	SRCD-3, 10			
Medium-Risk Ha	zards										
Landslide		SRCD-11	SRCD-3	SRCD-5, 11			SRCD-5	SRCD-3			
Severe weather			SRCD-3	SRCD-6	SRCD-1, 2			SRCD-3			
Dam Failure					SRCD-1, 2						
Earthquake					SRCD-1, 2						
Sea Level Rise		SRCD-9		SRCD-9			SRCD-9				
Low-Risk Hazard	ds										
Tsunami		SRCD-9		SRCD-9			SRCD-9				

a. See the introduction to this volume for explanation of mitigation types.

13.8 INFORMATION SOURCES USED FOR THIS ANNEX

The following technical reports, plans, and regulatory mechanisms were reviewed for this annex.

- **County of Sonoma General Plan 2020** for identifying pertinent development and conservation regulations.
- Sonoma County Community Wildfire Protection Plan (CWPP) for identifying measures to reduce wildfire risk.
- Sonoma County Recovery and Resiliency Framework for identifying relevant potential actions and community resiliency.

The following outside resources and references were reviewed:

• **Hazard Mitigation Plan Annex Development Toolkit**—The toolkit was used to support the identification of past hazard events and noted vulnerabilities, the risk ranking, and the development of the mitigation action plan.