

Guide to County of Santa Cruz LHMP 2021 - 2026 Update	
Contents	Updates
Entire document	<ul style="list-style-type: none"> • Minor text edits throughout
How to Use this Plan	<ul style="list-style-type: none"> • No major updates, change date to 2021
Part 1 Introduction and Community Profile	
Chapter 1 Introduction	<ul style="list-style-type: none"> • Referenced CZU Lightning Fire • Introduced climate change as a new hazard • Added natural environmental resources to values at risk, in addition to people and property
1.1 Hazard Mitigation	<ul style="list-style-type: none"> • No major updates
1.2 Acknowledgements	<ul style="list-style-type: none"> • Updated Board of Supervisors and Emergency Management Council (EMC) rosters, and removed 10-year-old list of original project team members.
1.3 Summary	<ul style="list-style-type: none"> • Referenced CZU Fire and establishment of OR3 • Updated Table 1 • Revised goal to protect Santa Cruz County’s unique character, scenic beauty, and values from being compromised by hazard events to add the phrase, “in the natural and built environment” • Updated mitigation action completion percentages
Chapter 2 Community Profile	
2.1 Community Profile	<ul style="list-style-type: none"> • Updated Tables 2 and 3 • Added new Table 4 • Updated staff/student data for local higher education facilities • Updated income and commute patterns • Updated economic trends data • Referenced General Plan Safety Element amendments • Added statistics on English language proficiency
2.2 Community Vision	<ul style="list-style-type: none"> • Included all goals from General Plan Land Use Element
2.3 Community Facilities	<ul style="list-style-type: none"> • Updated Figures 4, 5, and 6 • Added County-maintained roads to list of major infrastructure • Clarified description of critical facilities and shelters
Part 2 The Planning Process	
Chapter 3 The Planning Process	
3.1 The Purpose of the Plan	<ul style="list-style-type: none"> • Noted that the purpose of the plan is not only to meet the requirements of the Disaster Mitigation Act (DMA), but to also meet the needs of the community and place further emphasis on disaster response, recovery, and resilience following the CZU Lightning Complex Fire.

<p>3.2 Documentation of the Planning Process</p>	<ul style="list-style-type: none"> • Updates describing the Climate Action Strategy (CAS) and Safety Element public process • Updated Table 6 • Added the 2021 update process • Noted that COVID-19 influenced the public outreach process
<p>3.3 Local Capabilities Assessment and Integration</p>	<ul style="list-style-type: none"> • Referenced the current update • Added a description of the new OR3
<p>Part 3 Hazard Identification and Risk Assessment</p>	
<p>Risk Assessment of Hazards in Santa Cruz</p>	<ul style="list-style-type: none"> • Updated Table 8 to add freezing events and debris flow hazard • Updated Table 9 to add debris flow hazard and increased risk of climate change hazard
<p>Chapter 4 Earthquakes and Liquefaction</p>	
<p>4.1 Risk Assessment</p>	<ul style="list-style-type: none"> • Updated description of hazard • Updated Table 10 • Updated Figures 8 and 9 • Update future risk based on best available science • Updated Table 11, narrowed area included in loss calculation from countywide to areas with 0.5 miles of State and County fault zones and in high and very high liquefaction areas. Loss calculation reduced from \$8.7B to \$3.6B. • Add reference to loss calculation study completed by State • Updated Table 12 • Updated development trends
<p>4.2 Mitigation Strategy</p>	<ul style="list-style-type: none"> • No updates to mitigation strategy, goals, or actions
<p>Chapter 5 Wildfires</p>	
<p>5.1 Risk Assessment</p>	<ul style="list-style-type: none"> • Update description of hazard and increased risk • Updated Figure 12 • Added description of CZU Lightning Complex Fire • Updated Table 13 • Updated Table 14, increased area included in loss calculation from County-mapped Critical Fire Hazard areas to State mapped Very High, High, and Moderate Fire Hazard Severity Zones. Loss calculation increased from \$1.5B to \$6.2B. • Updated development trends.
<p>5.2 Mitigation Strategy</p>	<ul style="list-style-type: none"> • Add to the list of mitigation strategies implemented by other agencies, Code Red, Zonehaven, roadside brush clearing, indigenous land stewardship, hazardous fuels management • Update mitigation strategy description from Safety Element amendments

	<ul style="list-style-type: none"> • Added two additional mitigation actions to include hazardous fuel reduction projects and support for residents rebuilding after the CZU Lightning Complex Fire • Added description of FireSafe Santa Cruz County and voter-approved increase in funding for CSA 48 to 2021 Progress Report • Also noted contributions from independent “grass roots” fire safe councils including Soquel, South Skyline, and Bonny Doon Fire Safe Councils
Chapter 6 Floods and Coastal Storms	
6.1 Risk Assessment	<ul style="list-style-type: none"> • Update Figure 13 • Moved repetitive loss properties to separate section • Added new information on coastal flood hazard vulnerability from sea level rise • Update Table 18, increasing loss calculation from \$841M to \$1.3B reflecting increased property value with no change to the mapped hazard area • Updated development trends
6.2 Mitigation Strategy	<ul style="list-style-type: none"> • Add Pajaro River Flood Risk Management Project to list of mitigation actions.
Chapter 7 Drought	
7.1 Risk Assessment	<ul style="list-style-type: none"> • Updated description of hazards based on Water Resources Annual Report, Environmental Health Services Water Resources Section, and Regional Water Management Foundation • Updated Table 19 • Updated Figure 18 • Updated development trends
7.2 Mitigation Strategy	<ul style="list-style-type: none"> • Updated drought goals and mitigation actions to add support for land use policies that result in reduced water use per capita • Updated mitigation strategy to reference IRWM and SGMA and summarize related project types and delete completed projects • Updated information on recycled water, groundwater storage, and water transfers
Chapter 8 Tsunami	
8.1 Risk Assessment	<ul style="list-style-type: none"> • Updated Figure 19 • Update Table 20, increasing the loss calculation from \$471M to \$738M reflecting increased property value with no change to mapped hazard area • Updated development trends,
8.2 Mitigation Strategy	<ul style="list-style-type: none"> • Updated mitigation actions to include installation of signage defining tsunami evacuation zones
Chapter 9 Coastal Erosion	

9.1 Risk Assessment	<ul style="list-style-type: none"> • Updated Figure 20 • Added new information on coastal flood hazard vulnerability from sea level rise • Updated Table 21, increasing the loss calculation from \$156M to \$356M reflecting increased property value with no change to mapped hazard area • Updated development trends
9.2 Mitigation Strategy	<ul style="list-style-type: none"> • Update mitigation actions to clarify seawall replacement should reduce impacts on public access and sand supply • Reference recently updated Safety Element and policies amendments related to coastal development
Chapter 10 Dam Failure	
10.1 Risk Assessment	<ul style="list-style-type: none"> • Update Figure 23 • Update Table 23, increasing the loss calculation from \$199M to \$208M reflecting increased property value with no change to mapped hazard area • Updated development trends
10.2 Mitigation Strategy	<ul style="list-style-type: none"> • No update to mitigation strategy, goals, or actions
Chapter 11 Landslide	
11.1 Risk Assessment	<ul style="list-style-type: none"> • Update list of factors contributing to the landslide hazard to include wildfire and stormwater mismanagement • Update Figure 24 • Updated vulnerability assessment to describe increased debris flow hazard as a result of the CZU Lightning Complex Fire • Updated Table 24, increasing the area included in the loss from mapped landslide hazard areas to mapped landslide hazard areas and slopes greater than 50 percent. Loss calculation increased from \$3.8B to \$5.2B. • Updated development trends
11.2 Mitigation Strategy	<ul style="list-style-type: none"> • Added two additional mitigation actions to include enhancement of early warning systems and response to the increased debris flow hazard as a result of the CZU Lightning Complex Fire
Chapter 12 Expansive Soils	
12.1 Risk Assessment	<ul style="list-style-type: none"> • Updated Figure 26 • Updated Table 25, increasing loss calculation from \$2.8B to \$4B with no change in mapped hazard area • Updated development trends
12.2 Mitigation Strategy	<ul style="list-style-type: none"> • No update to mitigation strategy, goals, or actions
Chapter 13 Climate Change	
13.1 Risk Assessment	<ul style="list-style-type: none"> • Updated the description of the hazards • Updated information on best available science

	<ul style="list-style-type: none"> • Updated vulnerability assessment • Updated development trends • Updated mitigation actions and progress report
13.2 Mitigation Strategy	<ul style="list-style-type: none"> • No update to mitigation strategy, goals, or actions • Added mitigation strategy regarding expanding use and functionality of targeted shelters countywide as all hazards resiliency centers • Added 2021 Progress Report providing information on County efforts to implement Climate Action Strategies related to adaptation to climate change
Chapter 14 Multi-Hazard Summary	<ul style="list-style-type: none"> • No updates
Part 4 Mitigation Strategy	
Chapter 15 Mitigation Strategy	
15.1 Mitigation Strategy	<ul style="list-style-type: none"> • Added objectives related to fire recovery and increasing resilience of community members that may be disproportionately impacted by hazards • Added two overall mitigation strategies to include improvement and refinement of evacuation plans and support for Community Organizations Assisting in Disaster (COAD) • Added mitigation strategies regarding hazardous fuel reduction and CZU fire recovery • Added mitigation strategies regarding post fire debris flow risk • Added mitigation strategy regarding resilient shelters • Adjusted prioritization of actions based on updated risk assessments, loss calculations, and capability.
Part 5 Plan Maintenance Process	
Chapter 16 Plan Maintenance Process	
16.1 Monitoring, Evaluating and Updating the Plan	<ul style="list-style-type: none"> • No updates
16.2 Incorporation into Existing Planning Mechanisms	<ul style="list-style-type: none"> • No updates
16.3 Continued Public Involvement	<ul style="list-style-type: none"> • No updates
Part 6 Adoption by the Board of Supervisors	
Appendices	

Appendix A Hazards Not a Risk to Santa Cruz County	<ul style="list-style-type: none"> • Updated references
Appendix B Acronyms and Abbreviations	<ul style="list-style-type: none"> • Added Office of Response, Recovery, and Resilience
Appendix C Glossary of Terms	<ul style="list-style-type: none"> • No updates
Appendix D Critical County Facilities	<ul style="list-style-type: none"> • Updated list of critical facilities and shelters depicted in Figure 6 • Added Boulder Creek wastewater plant
Appendix E Senior Assisted Living Facilities	<ul style="list-style-type: none"> • Updated
Appendix F Public Schools	<ul style="list-style-type: none"> • Updated
Appendix G Private Schools	<ul style="list-style-type: none"> • Updated
Appendix H Successful Programs and Projects	<ul style="list-style-type: none"> • Add establishment of OR3
Appendix I Tsunami Response Plan Concept of Operations	<ul style="list-style-type: none"> • No updates
Appendix J Tsunami Inundation Map Preparation Methodology	<ul style="list-style-type: none"> • No updates
Appendix K Map of Urban and Rural Services Lines	<ul style="list-style-type: none"> • No updates
Appendix L Mitigation Action Progress Report	<ul style="list-style-type: none"> • Update information on each form consistent with updated information in the body of the updated LHMP • Update responsible staff for each action • Updated information for new mitigation actions to be provided in the next LHMP update