

PART III: ANNEXES

SECTION 14. ANNEX A: RESOURCES

The following resources were used in the development and update of the Las Virgenes-Malibu Council of Governments Multi-Jurisdictional Hazard Mitigation Plan. In addition to the resources listed, information sources included city documents such as General Plans, Master Plans, Comprehensive Financial Reports, studies, and reports.

Name	Category	Web Site Address	Description
2016 California Jurisdictions Addressing Climate Change	State Government	http://opr.ca.gov/planning/icarp/	Climate Change Program and Data
Army Corps of Engineers	Federal Government	www.usace.army.mil	Flood and dam information
Association of State Floodplain Managers	Research, Educational, and Standards Organizations	www.floods.org	Flood mitigation and planning information
Building Seismic Safety Council (BSSC)	Research, Educational, and Standards Organizations	www.bssconline.org	Earthquake and seismic code information
California Climate Change	State Government	http://climatechange.ca.gov/	Climate Change Data
California Department of Conservation: Southern California Regional Office	State Government	www.consrv.ca.gov	Earthquake and flood information
California Department of Transportation (Caltrans)	State Government	www.dot.ca.gov	Transportation and traffic information
California Department of Water Resources (DWR)	State Government	www.water.ca.gov	Flood information
California Division of Forestry & Fire Protection	State Government	www.fire.ca.gov	Fire codes, landslide, wildfire mitigation and programs
California Division of Mines and Geology (DMG)	State Government	www.consrv.ca.gov	Earthquake information
California Geological Survey, Department of Conservation	State Government	www.consrv.ca.gov	Earthquake information
California Governor's Office of Emergency Services (Cal OES)	State Government	www.oes.ca.gov	State hazard mitigation guidance
California in 2050: Some Sizzling Predictions	State Government	www.cpuc.ca.gov	Temperature Rise Prediction for California
California Nevada Climate Applications Program (CNAP)	Research, Educational, and Standards Organizations	https://scripps.ucsd.edu/programs/cnap/	Climate Change and Santa Ana Wind Information and Map
California Number of Extreme Heat Days by Year	Research, Educational, and Standards Organizations	http://cal-adapt.org/tools/extreme-heat/	Temperature Rise Prediction for California
California Resources Agency	State Government	www.resources.ca.gov	Earthquake information

Name	Category	Web Site Address	Description
California State Controller's Office	State Government	www.sco.ca.gov/and_state_cafr.html	City Comprehensive Financial Reports
California-Nevada Climate Applications Program	Research, Educational, and Standards Organizations	https://wrcc.dri.edu/Climate/Tracker/CA/index.html	Climate Change Data
City of Agoura Hills	Local Government	www.ci.agoura-hills.ca.us	Local profile, planning, hazard, and mitigation information
City of Agoura Hills, Commercial and Residential Projects Second Quarter 2018 Quarterly Report	City of Agoura Hills	www.ci.agoura-hills.ca.us/government/departments/planning-community-development/development-summaries	Commercial and Residential Development Projects, 2018
City of Calabasas	Local Government	www.ci.calabasas.ca.us	Local profile, planning, hazard, and mitigation information
City of Hidden Hills	Local Government	www.hiddenhillscity.org	Local profile, planning, hazard, and mitigation information
City of Malibu	Local Government	www.malibucity.org	Local profile, planning, hazard, and mitigation information
City of Westlake Village	Local Government	www.wlv.org	Local profile, planning, hazard, and mitigation information
Comprehensive Annual Financial Report 2016-2017 for the City of Agoura Hills	City Data	www.ci.agoura-hills.ca.us/government/departments/finance/comprehensive-annual-finance-report	City data (including employer and revenue data)
Comprehensive Annual Financial Report 2016-2017 for the City of Malibu	City Data	www.malibucity.org/317/Financial-Reports	City data (including employer and revenue data)
Comprehensive Annual Financial Report 2016-2017 for the City of Westlake Village	City Data	www.wlv.org/158/Administrative-Services-Financial-Manage	City data (including employer and revenue data)
Comprehensive Annual Financial Report for the Fiscal Year Ended June 2017 for the City of Calabasas	City Data	www.cityofcalabasas.com/pdf/documents/finance/cafrs/cafr-2017.pdf	City data (including employer and revenue data)
Department of Homeland Security	Federal Government	www.dhs.gov	Terrorism response, preparedness, and threats
Federal Bureau of Investigation	Federal Law Enforcement	www.fbi.gov	Terrorism response, active shooter incidents, preparedness, and threats
Federal Emergency Management Agency (FEMA)	Federal Government	www.fema.gov	Federal Disaster Information, Flood Information Rate Maps (FIRM), and Landslide Information
FEMA 100-Year Floodplain Map	Federal Government	http://gis.bam.water.ca.gov/bam/	FEMA Effective 100-Year Floodplain Map for the LVMCOG Region
FEMA National Flood Hazard Layer (Official)	Research, Educational, and Standards Organizations	www.arcgis.com	FIRM Data
Firewise	Research, Educational, and	www.firewise.org	Fire / wildfire mitigation and programs

Name	Category	Web Site Address	Description
	Standards Organizations		
Fresno Bee	News Organization	www.fresnobee.com	History of Wildfires in California
Google Maps	Public Resource	www.maps.google.com	Maps and Satellite Images
Indicators of Climate Change in California, Office of Environmental Health Hazard Assessment (OEHHA)	Research, Educational, and Standards Organizations	https://oehha.ca.gov	Climate and Sea Level Rise Data
Intellicast	Public Resource	www.intellicast.com	Weather and Climate Data
International Code Council, Los Angeles Basin Chapter	Research, Educational, and Standards Organizations	www.icclabc.org	Building Code information
Las Virgenes Municipal Water District	Utility	www.lvmwd.com	Water and dam information
Los Angeles County Department of Beaches and Harbors	Local and Regional Government	http://file.lacounty.gov/dbh/cms1_145176.jpg	Zuma Beach information
Los Angeles County Fire Department	Local and Regional Government	www.lacofd.org	Fire codes and wildfire mitigation and programs
Los Angeles County Office of Emergency Services	Local and Regional Government	www.lacoa.org	Disaster and mitigation information. Disaster Management Areas.
Los Angeles County Office of the Assessor	Local and Regional Government	www.assessor.lacounty.gov	Property tax information
Los Angeles County Public Works Department	Local and Regional Government	www.ladpw.org	Earthquake and debris removal information
Los Angeles Sheriff's Department	Local Law Enforcement	www.sheriff.lacounty.gov	Terrorism response, preparedness, and threats
Malibu Road Landslide Assessment District Annual Report	Private Contractor	www.malibucity.org/DocumentCenter/View/16867/Malibu-Road-Annual-Report-2016-2017	Fugro, Annual Report July 2016 through June 2017 Malibu Road Landslide Assessment District, June 2017
NASA / JPL-Caltech	Research, Educational, and Standards Organizations	http://photojournal.jpl.nasa.gov/catalog/PIA03445	Santa Ana Wind Information and Map
National Environmental Modeling and Analysis Center (NEMAC) University of North Carolina, Asheville	Research, Educational, and Standards Organizations	https://climate-explorer.nemac.org	Sea Level Rise Map
National Flood Insurance Program (NFIP)	Federal Government	www.fema.gov/nfip	Flood information
National Integrated Drought Information System	Federal Government	www.drought.gov/drought/states/california www.drought.gov/drought/california-no-stranger-dry-conditions-drought-2011-2017-was-exceptional	California Drought Information
National Interagency Fire Center (NIFC)	Federal Government	www.nifc.gov	Fire codes and wildfire mitigation and programs

Name	Category	Web Site Address	Description
National Resources Conservation Service (NRCS), US Department of Agriculture	Federal Government	www.nrcs.gov	Flood mitigation, landslide, and watershed projects
National Transportation Safety Board (NTSB)	Federal Government	www.nts.gov	San Bruno Pipeline Explosion Information
National Weather Service	Federal Government	www.weather.gov www.weather.gov/media/sgx/documents/weatherhistory.pdf	Weather and Climate Data
National Weather Service Climate Prediction Center	Federal Government	www.cpc.ncep.noaa.gov/products/expert_assessment/sdo_summary.php	Drought Outlook Data and Map
NOAA	Federal Government	www.noaa.gov	Weather and Climate Data
Office of the State Fire Marshal (OSFM)	State Government	www.osfm.fire.ca.gov	Fire codes and wildfire mitigation and programs
Pipelines and Hazards Materials Safety Division	Federal Government	www.phmsa.dot.gov	Pipeline Data
Robert D. Niehaus, Inc.	The Economic Impacts of the Montecito Mudslides	http://www.rdniehaus.com/rdn/wp-content/uploads/2018/03/RDN_Montecito_Mudslides_Impacts-1.pdf	Montecito Mudslide Report
Sea Level Rise Map for Malibu Coast	Research, Educational, and Standards Organizations	www.cal-adapt.org	Climate and Sea Level Rise Data
Southern California Area Governments	Local and Regional Government	www.scag.ca.gov	Principal Property Tax Payers and Employers
Southern California Association of Governments (SCAG)	Local Government	www.scag.ca.gov	City profiles, data, and maps
Southern California Earthquake Center (SCEC)	Research, Educational, and Standards Organizations	www.scec.org	Earthquake and fault information
Southern California Seismic Network	Research, Educational, and Standards Organizations	http://www.scsn.org	Earthquake and fault information
Southern California Edison Public Safety Power Shutoff Process	Utility	www.sce.com/wps/wcm/connect/9ef7f86a-ca79-41c8-b34f-b0dd449baf39/PSPS_Timeline.pdf?MOD=AJPERES	Electric Utility Emergency Power Shutoff Process Timeline
Terrorism Research	Research, Educational, and Standards Organizations	www.terrorism-research.com	Terrorism Information
The National Drought Mitigation Center University of Nebraska-Lincoln	Research, Educational, and Standards Organizations	https://droughtmonitor.unl.edu/CurrentMap/StateDroughtMonitor.aspx?West	Drought Maps
U.S. Census Bureau	Federal Government	www.census.gov www.census.gov/quickfacts	City and Regional demographic data
U.S. Census, American Fact Finder	Federal Government	https://factfinder.census.gov	City and Regional demographic data
U.S. Department of Health & Human Services	Federal Government	https://aspe.hhs.gov/poverty-guidelines	Average U.S. Poverty Level

Name	Category	Web Site Address	Description
U.S. Department of the Interior, Bureau of Reclamation	Federal Government	www.usbr.gov	Flood information
U.S. Fire Administration (USFA) of the Federal Emergency Management Agency	Federal Government	www.usfa.fema.gov	Fire codes and wildfire mitigation and programs
U.S. Geological Survey	Federal Government	www.usgs.gov https://pubs.usgs.gov/of/2013/1170/g/pdf/ofr2013-1170g.pdf	Earthquake information and SAFRR Tsunami Scenario Study (2013)
U.S. Geological Survey (USGS) Sea Level Rise Presentation	Federal Government	www.malibucity.org/DocumentCenter/View/14656/Sea-Level-Rise-From-Global-to-Local	Sea Level Rise Presentation for the City of Malibu
U.S. State Department	Federal Government	www.state.gov/j/ct/list/c14151.htm	Terrorism Information
USC Geospatial Institute	Research, Educational, and Standards Organizations	www.spatial.usc.edu	Area and hazard mapping, loss estimates, and HAZUS
USGS National Landslide Information Center	Federal Government	www.landslides.usgs/nlic	Landslide information
USGS Water Resources	Federal Government	www.water.usgs.gov	Flood information
Western Regional Climate Center	Research, Educational, and Standards Organizations	https://wrec.dri.edu	Climate Data
Western States Seismic Policy Council (WSSPC)	Research, Educational, and Standards Organizations	www.wsspc.org	Earthquake information

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SECTION 15. ANNEX B: MEETING AGENDAS AND ATTENDEES

The following pages provide agendas and attendee information for meetings involving hazard mitigation or the LVMCOG Hazard Mitigation Plan update.

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DISASTER MANAGEMENT AREA B MEETINGS

January 2013 Area B Meeting

Date: January 10, 2013

Location: City of Agoura Hills

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Continue review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 1. Section 2: Plan Review Guiding Principles (page 5 and 6)
 - a) Focus on Mitigation Strategy
 - b) Review for Intent, as well as Compliance
 - c) Process is as important as the Plan itself
 - d) This is the Community's Plan
 - e) Foster Relationships
- III. Wrap up
 - A. Next Area B HazMit Quarterly Meeting.
 1. April 11, 2013 Host: City of Calabasas
- IV. Adjournment

June 2013 Area B Meeting

Date: June 20, 2013

Location: City of Westlake Village

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Continue review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 1. Section 3: Completing the Plan Review Tool (page 7 and 11)
 - a) Regulation Checklist (Overview)
 - b) Plan Assessment (Overview)
 - c) Multi-Jurisdiction Summary Spreadsheet (Overview)
- III. Wrap up
 - A. Next Area B HazMit Quarterly Meeting.
 1. July 11, 2013 Host: City of Malibu
- IV. Adjournment

July 2013 Area B Meeting

Date: July 18, 2013

Location: City of Malibu

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Continue review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 1. Section 4: Regulation Checklist (page 13)
 - a) Regulation Checklist - Introduction
 - i. What does Section 4 provide?
 - ii. Is the guidance limited and to what?
 - iii. What does the guidance not provide?
 - iv. What elements does the Regulation Checklist include?
 - v. Does FEMA require a specific format for the plan or its contents?
 - vi. Terms are provided in the guidance. Referring to this guidance, what is the difference between the terms jurisdiction and community?
 - vii. What is the important distinction between “shall” and “must” versus “should”?
- III. Wrap up
 - A. Next Area B HazMit Quarterly Meeting.
 1. October 17, 2013 Host: City of Lancaster
- IV. Adjournment

October 2013 Area B Meeting

Date: October 17, 2013

Location: City of Lancaster

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Continue review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 1. Section 4.1- Element A: Planning Process (page 14)
 - a) Quick Overview of Requirements
 - i. §201.6(b)
 - (a) Open public involvement process which “shall” include
 - (b) §201.6(b)(1)
 1. Public opportunity to comment during draft
 - (c) §201.6(b)(2)
 1. Others opportunity to be involved in planning process
 - (d) §201.6(b)(3)
 1. Incorporation into what currently exists
 - ii. §201.6(c)(1)
 - (a) “Shall” document your process of planning

- iii. §201.6(c)(4)(i)
 - (a) “Shall” document your plan’s 5-year maintenance process
- iv. §201.6(c)(4)(iii)
 - (a) Maintenance process “shall” include how public participation will continue through the maintenance process
- b) Planning Process Overall Intent (page 14-15)
 - i. Effective and open planning process helps to ensure that citizens understand risks and vulnerability and they can work with the jurisdiction to support policies, actions and tools that over the long-term will lead to a reduction in future losses.

III. Wrap up

A. Next Area B HazMit Quarterly Meeting.

- 1. January 16, 2014 Host: City of Agoura Hills

IV. Adjournment

January 2014 Area B Meeting

Date: January 16, 2014

Location: City of Agoura Hills

Agenda

I. Call to Order

- A. Attendance sign-in sheet.
- B. Welcome and Introductions.

II. Topic/Discussion

A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.

1. Section 4.1- Element A: Planning Process continued (page 15)

a) Begin reviewing the six - Planning Process Elements and their Requirements.

i. Element A1.

- (a) “Does the Plan document the planning process, including how it was prepared and who was involved in the process for each jurisdiction?”
- (b) Review and discuss each of the five requirements that must be met in Element A1.

ii. What is the Intent of Element A1?

III. Wrap up

A. Next Area B HazMit Quarterly Meeting.

- 1. April 17, 2014 Host: City of Calabasas

IV. Adjournment

April 2014 Area B Meeting

Date: April 17, 2014

Location: City of Calabasas

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
 - II. Topic/Discussion
 - A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 - 1. Section 4.1- Element A: Planning Process continued (page 15-16)
 - a) Continue reviewing the six - Planning Process Elements and their Requirements.
 - i. Element A2.
 - (a) “Does the Plan document an opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, agencies that have the authority to regulate development as well as other interests to be involved in the planning process 44 CFR 201.6(b)(2)?”
 - (b) Review and discuss each of the three requirements that must be met in Element A2.
 - (c) What is the Intent of Element a. “To demonstrate a deliberative involves _____ needed responsibility or ___ hazard mitigation activities, affected by the plan’s III.
- III. Wrap up
 - A. Next Area B HazMit Quarterly Meeting.
 - 1. July 14, 2014 Host: City of Agoura Hills
- IV. Adjournment

July 2014 Area B Meeting

Date: July 17, 2014

Location: City of Agoura Hills

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 - 1. Section 4.1- Element A: Planning Process continued (page 16-17)
 - a) Continue reviewing the six - Planning Process Elements and their Requirements.
 - i. Element A3.
 - (a) “Does the Plan document how the public was involved in the planning process during the drafting stage?”
 - (b) The plan must
 - 1. _____
 - 2. _____

- (c) What is the Intent of Element A3?
 - 1. “To ensure citizens _____ what the community is doing on their behalf, and to provide a chance for _____ on community vulnerabilities and mitigation activities that will inform the plan’s content. Public involvement is also an opportunity to _____ the public about hazards and risks in the community, types of activities to _____ those risks, and how these impact them.”
 - ii. Element A4
 - (a) “Does the Plan document the review and incorporation of existing plans, studies, reports, and technical information?”
 - (b) The plan must
 - 1. _____
 - 2. _____
 - (c) What is the Intent of Element A4?
 - 1. “To identify existing _____ and _____, shared _____, and past and ongoing _____ that can help inform the mitigation plan. It also helps identify the existing _____ and _____ mechanisms to implement the mitigation strategy.
- III. Wrap up
 - A. Next Area B HazMit Quarterly Meeting.
 - 1. Oct 9, 2014 Host: City of Lancaster
- IV. Adjournment

October 2014 Area B Meeting

Date: October 9, 2014

Location: City of Lancaster

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 - 1. Section 4.1- Element A: Planning Process continued (page 17)
 - a) Continue reviewing the six - Planning Process Elements and their Requirements.
 - i. Element A5.
 - (a) “Is there discussion on how the community(ies) will continue public participation in the plan maintenance process?”
 - (b) The plan must describe

and

 - (c) What is the Intent of Element A5?

1. “To identify how the public will continue to have an opportunity to participate in the plan’s _____ and _____ over time.”
- ii. Element A6
 - (a) “Is there a description of the method and schedule for keeping the plan current (monitoring, evaluation and updating the mitigation plan within a 5-year cycle)?”
 1. The plan must identify how, when, and by whom the plan will be
 2. _____
 3. _____
 4. The plan must include the title of the _____ or name of the _____/_____ responsible for leading each of these efforts.
 - (b) What is the Intent of Element A6?
 1. “To establish a _____ for jurisdictions to track the progress of the plan’s _____. This also serves as the basis of the next plan _____.”

III. Wrap up

A. Next Area B LHMP Quarterly Meeting.

- a) Jan 15, 2015 Host: City of Agoura Hills

IV. Adjournment

January 2015 Area B Meeting

Date: January 15, 2015

Location: City of Agoura Hills

Agenda

I. Call to Order

- A. Attendance sign-in sheet.
- B. Welcome and Introductions.

II. Topic/Discussion

A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.

1. Section 4.2- Element B: Hazard Identification & Risk Assessment (page 18-19)

- a) Begin reviewing section containing four elements of Hazard ID & Risk Assessment

i. Overall Intent of Element B.

- (a) Risk assessment provides factual basis for activities proposed in the strategy that will reduce losses from identified hazards.
 1. It provides a clear connection between community’s vulnerability and hazard mitigation actions.
 2. It provides sufficient information to identify and prioritize actions.
- (b) Risk assessment needs to be _____, _____, and _____.
- (c) During a plan update local jurisdictions access current and future vulnerability and integrate new data from recent events and new studies.

- (d) FEMA looks at _____ of information, not _____ of information.
- (e) Mitigation Plan’s vulnerability assessment regulations includes several “optional” requirements – indicated by the term “should”

III. Notes

IV. Wrap up

- A. Next Area B LHMP Quarterly Meeting.
 - 1. Apr 16, 2015 Host: City of Palmdale

V. Adjournment

June 2015 Area B Meeting

Date: June 18, 2015

Location: City of Westlake Village

Agenda

I. Call to Order

- A. Attendance sign-in sheet.
- B. Welcome and Introductions.

II. Topic/Discussion

- A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 - 1. Section 4.2- Element B: Hazard Identification & Risk Assessment
 - a) Begin reviewing the four elements and their requirements (page 19)
 - i. Element - B1
 - (a) Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction?
 - (b) Intent – to understand the potential and chronic hazards
 - b) Requirements – B1
 - i. The plan must include a _____ of the natural hazard
 - ii. The plan must provide the _____ for the omission of any natural hazards that are commonly recognized
 - iii. The description of profile, must include information on _____, previous _____, and _____ probability for each hazard.
 - iv. For participating jurisdictions in a multi-jurisdictional plan, the plan must describe any hazards that are unique and/or varied from those affecting the _____ planning area.

III. Notes

IV. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
<http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
- F. FEMA IS-393 Introduction for Hazard Mitigation
<https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
- G. FEMA / CSTI G-393 Mitigation
- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
<https://www.fema.gov/media-library/resources-documents/collections/6>
- I. FEMA 386-1 “Getting Started – building Support for Mitigation Planning”
- J. FEMA 386-2 “Understanding Your Risks – identifying hazards and estimating losses”
- K. FEMA 386-3 “Developing the Mitigation Plan – identifying actions and implementing strategies”
- L. FEMA 386-4 “Bringing the Plan to Life – implementing the hazard mitigation plan”
- M. FEMA “Local Mitigation Planning Handbook” http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- N. FEMA “Local Mitigation Plan Review Guide” (Oct 1, 2011)
http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
- O. FEMA “Integrating Hazard Mitigation into Local Planning”
http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf
- P. FEMA “Mitigation Ideas” http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
- Q. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans

V. Wrap up

- A. Next Area B LHMP Quarterly Meeting.
 - 1. July 16, 2015 Host: City of Santa Clarita

VI. Adjournment

October 2015 Area B Meeting

Date: October 8, 2015

Location: City of Lancaster

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the new Local Mitigation Plan Review Guide dated Oct 1, 2011.
 1. Section 4.2- Element B: Hazard Identification & Risk Assessment
 - a) Begin reviewing the four elements and their requirements (page 19)
 - i. Element - B1
 - (a) Does the Plan include a description of the type, location, and extent of all natural hazards that can affect each jurisdiction?
 - (b) Intent – to understand the potential and chronic hazards
 - ii. Requirements – B1
 - (a) The plan must include a _____ of the natural hazard
 - (b) The plan must provide the _____ for the omission of any natural hazards that are commonly recognized
 - (c) The description of profile, must include information on _____, previous _____, and _____ probability for each hazard.
 - (d) For participating jurisdictions in a multi-jurisdictional plan, the plan must describe any hazards that are unique and/or varied from those affecting the _____ planning area.
- III. Notes
- IV. Other Helpful Resources
 - A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
 - B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
 - C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
 - D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
 - E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
 1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
 - F. FEMA IS-393 Introduction for Hazard Mitigation
 1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
 - G. FEMA / CSTI G-393 Mitigation
 - H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
 1. <https://www.fema.gov/media-library/resources-documents/collections/6>
 2. FEMA 386-1 “Getting Started – building Support for Mitigation Planning”
 3. FEMA 386-2 “Understanding Your Risks – identifying hazards and estimating losses”
 4. FEMA 386-3 “Developing the Mitigation Plan – identifying actions and implementing strategies”
 5. FEMA 386-4 “Bringing the Plan to Life – implementing the hazard mitigation plan”
 - I. FEMA “Local Mitigation Planning Handbook”

1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
 - J. FEMA “Local Mitigation Plan Review Guide” (Oct 1, 2011)
 1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
 - K. FEMA “Integrating Hazard Mitigation into Local Planning”
 1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf
 - L. FEMA “Mitigation Ideas”
 1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
 - M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans
- II. Wrap up
- A. Next Area B LHMP Quarterly Meeting.
 1. January 21, 2016 Host: City of Agoura Hills
- III. Adjournment

April 2016 Area B Meeting

Date: April 21, 2016

Location: City of Palmdale

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the FEMA “Local Mitigation Plan Review Guide” dated Oct 1, 2011.
 1. Section 4.2- Element B: Hazard Identification & Risk Assessment
 - a) Continue reviewing the four elements and their requirements (page 20)
 - i. Element – B2
 - (a) Does the Plan include information on previous occurrences of hazard events and the probability of future hazard events for each jurisdiction?
 1. Intent – To understand potential impacts to the community based on information on the hazard events that have occurred in the past and the likelihood they will occur in the future.
 - ii. Requirements – B2
 - (a) The plan must include the HISTORY of previous hazard events for each of the identified hazards.
 - (b) The plan must include the PROBABILITY of future events for each identified hazard.
 1. Probability means the likelihood of the hazard occurring and may be defined in terms of
 - a. general descriptors
 - i. for example, unlikely, likely, highly likely

- ii. If general descriptions are used, then they must be defined in the plan. For example, “highly likely” could be defined as equals near 100% chance of occurrence next year or happens every year.
 - b. historical frequencies
 - c. statistical probabilities
 - i. for example: 1% chance of occurrence in any given year
 - d. and/or hazard probability maps.
- iii. **Plan updates must include hazard events that have occurred since the last plan was developed.**

III. Notes

IV. Handouts

- A. FEMA “Getting Started: Building Support for Mitigation Planning” FEMA 386-1/September 2002

1. <http://www.fema.gov/media-library/assets/documents/4195>

V. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
- F. FEMA IS-393 Introduction for Hazard Mitigation
1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
- G. FEMA / CSTI G-393 Mitigation
- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
1. <https://www.fema.gov/media-library/resources-documents/collections/6>
2. FEMA 386-1 “Getting Started – building Support for Mitigation Planning”
3. FEMA 386-2 “Understanding Your Risks – identifying hazards and estimating losses”
4. FEMA 386-3 “Developing the Mitigation Plan – identifying actions and implementing strategies”
5. FEMA 386-4 “Bringing the Plan to Life – implementing the hazard mitigation plan”
- I. FEMA “Local Mitigation Planning Handbook”
1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- J. FEMA “Local Mitigation Plan Review Guide” (Oct 1, 2011)
1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
- K. FEMA “Integrating Hazard Mitigation into Local Planning”
1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf
- L. FEMA “Mitigation Ideas”
1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf

- M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans
- VI. Wrap up
 - A. Next Area B LHMP Quarterly Meeting.
 - 1. Oct 13, 2016 Host: City of Lancaster
- VII. Adjournment

July 2016 Area B Meeting

Date: July 21, 2016

Location: City of Santa Clarita

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
 - II. Topic/Discussion
 - A. Review of the FEMA “Local Mitigation Plan Review Guide” dated Oct 1, 2011.
 - 1. Section 4.2- Element B: Hazard Identification & Risk Assessment
 - a) Continue reviewing the four elements and their requirements (page 20)
 - i. Element – B3
 - (a) Is there a description of each identified hazard’s impact on the community as well as an overall summary of the community’s vulnerability for each jurisdiction? 44CFR 201.6(c)(2)(ii)
 - 1. Intent – For each jurisdiction to consider their community as a whole and analyze the potential impacts of future hazard events and the vulnerabilities that could be reduced through hazard mitigation actions.
 - (b) Requirements – B3
 - 1. For each participating jurisdiction, the plan must describe the potential impacts of each of the identified hazards on the community.
 - a. **IMPACT** –
 - i. Means the consequence or effect of the hazard on the community and its assets.

ASSETS are determined by the community and include, for example, people, structures, facilities, systems, capabilities, and/or activities that have value to the community.
 - ii. For example – impacts could be described by referencing historical disaster impacts and/or an estimate of potential future losses (such as percent damage of total exposure).
2. The plan must provide an overall summary of each jurisdiction’s vulnerability to the identified hazards.
 - a. The overall summary of vulnerability identifies structures, systems, populations or other community

assets as defined by the community that are susceptible to damage and loss from hazard events. A plan will meet this sub-element by addressing the requirements described in §201.6(c)(2)(ii)(A-C).

- b. Vulnerable assets and potential losses is more than a list of the total exposure of population, structures, and critical facilities in the planning area.
 - i. An example of an overall summary is a list of key issues or problem statements that clearly describes the community's greatest vulnerabilities and that will be addressed in the mitigation strategy.

III. Notes

IV. Handouts

- A. FEMA "Getting Started: Building Support for Mitigation Planning" FEMA 386-1/September 2002
 1. Missing from last meeting
 2. <http://www.fema.gov/media-library/assets/documents/4195>
- B. FEMA "Understanding Your Risks" FEMA 386-2/August 2001
 1. <http://www.fema.gov/media-library/assets/documents/4241>

V. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
 1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
- F. FEMA IS-393 Introduction for Hazard Mitigation
 1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
- G. FEMA / CSTI G-393 Mitigation
- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
 1. <https://www.fema.gov/media-library/resources-documents/collections/6>
 2. FEMA 386-1 "Getting Started – building Support for Mitigation Planning"
 3. FEMA 386-2 "Understanding Your Risks – identifying hazards and estimating losses"
 4. FEMA 386-3 "Developing the Mitigation Plan – identifying actions and implementing strategies"
 5. FEMA 386-4 "Bringing the Plan to Life – implementing the hazard mitigation plan"
- I. FEMA "Local Mitigation Planning Handbook"
 1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- J. FEMA "Local Mitigation Plan Review Guide" (Oct 1, 2011)
 1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
- K. FEMA "Integrating Hazard Mitigation into Local Planning"
 1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf

- L. FEMA “Mitigation Ideas”
 - 1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
- M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans
- VI. Wrap up
 - A. Next Area B LHMP Quarterly Meeting.
 - 1. Oct 13, 2016 Host: City of Lancaster
- VII. Adjournment

January 2017 Area B Meeting

Date: January 19, 2017

Location: City of Lancaster

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the FEMA “Local Mitigation Plan Review Guide” dated Oct 1, 2011.
 - 1. Section 4.2- Element B: Hazard Identification & Risk Assessment
 - a) Continue reviewing the four elements and their requirements (page 24)
 - i. Element – B4
 - (a) Does the Plan address NFIP insured structures within each jurisdiction that have been repetitively damaged by floods? 44CFR 201.6(c)(2)(ii)
 - 1. Intent – To inform hazard mitigation actions for properties that have suffered repetitive damage due to flooding, particularly problem areas that may not be apparent on floodplain maps. Information on repetitive loss properties helps inform FEMA hazard mitigation assistance programs under the National Flood Insurance Act.
 - a. Requirements – B4
 - ii. The plan **MUST** describe the types (residential, commercial, institutional, etc.) and estimate the numbers of repetitive loss properties located in identified flood hazard areas.
 - (a) **Repetitive loss properties** – are those for which two or more losses of at least \$1000 each have been paid under the National Flood Insurance Program (NFIP) within any 10-year period since 1978.
 - (b) **Severe repetitive loss properties** – are residential properties that have at least four NFIP payments over \$5000 each and the cumulative amount of such claims exceeds \$20,000, or at least two separate claims payments with the cumulative amount exceeding the market value of the building.

Use of flood insurance claim and disaster assistance information is subject to The Privacy Act of 1974, as amended, which prohibits public release of the names of policy holders or

recipients of financial assistance and the amount of the claim payment or assistance.

However, maps showing general areas where claims have been paid can be made public.

If a plan includes the names of policy holders or recipients of financial assistance and the amount of the claim payment or assistance, the plan cannot be approved until this Privacy Act covered information is removed from the plan.

III. Notes

- A. FEMA has developed a Hazard Mitigation Assistance Cost Share Guide for Applicants and Sub-applicants applying for FEMA’s Hazard Mitigation Assistance (HMA) grants.
<https://www.fema.gov/media-library/assets/documents/117020>

IV. Handouts

- A. FEMA “Developing the Mitigation Plan: Identifying Mitigation Actions and Implementation Strategies” FEMA 386-3/April 2003
 - 1. <https://www.fema.gov/media-library-data/20130726-1521-20490-5373/howto3.pdf>

V. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
 - 1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
- F. FEMA IS-393 Introduction for Hazard Mitigation
 - 1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
- G. FEMA / CSTI G-393 Mitigation
- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
 - 1. <https://www.fema.gov/media-library/resources-documents/collections/6>
 - 2. FEMA 386-1 “Getting Started – building Support for Mitigation Planning”
 - 3. FEMA 386-2 “Understanding Your Risks – identifying hazards and estimating losses”
 - 4. FEMA 386-3 “Developing the Mitigation Plan – identifying actions and implementing strategies”
 - 5. FEMA 386-4 “Bringing the Plan to Life – implementing the hazard mitigation plan”

- I. FEMA “Local Mitigation Planning Handbook”
 - 1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
 - J. FEMA “Local Mitigation Plan Review Guide” (Oct 1, 2011)
 - 1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
 - K. FEMA “Integrating Hazard Mitigation into Local Planning”
 - 1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf
 - L. FEMA “Mitigation Ideas”
 - 1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
 - M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans
- VI. Wrap up
- A. Next Area B LHMP Quarterly Meeting.
 - 1. April 20, 2017 Host: City of Palmdale
- VII. Adjournment

April 2017 Area B Meeting

Date: April 20, 2017

Location: City of Palmdale

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the FEMA “Local Mitigation Plan Review Guide” dated Oct 1, 2011. Continue reviewing the five elements (A through E) and their requirements.
 - 1. Section 4.3- Element C: Mitigation Strategy (page 22).
 - a) Overall Intent of Element C - Mitigation strategy.
 - i. Serves as long-term plan for reducing potential losses identified in risk assessment.
 - ii. Stafford Act directs LHMPs to describe actions and strategy.
 - iii. Includes goals and prioritized actions.
 - iv. In plan update, goals and actions are either reaffirmed or updated.
 - b) Element – C1 (One of six requirements for element C).
 - i. Does the Plan document each jurisdiction’s existing authorities, policies, programs and resources, and its ability to expand on and improve these existing policies and programs? 44CFR 201.6(c)(3)
 - (a) Intent
 - 1. To ensure that each jurisdiction evaluates its capabilities to accomplish hazard mitigation actions, through existing mechanisms.
 - a. This is especially useful for multi-jurisdictional plans where local capability varies widely.
 - (b) Requirement

1. The plan must describe each jurisdiction's existing authorities, policies, programs, and resources to accomplish hazard mitigation.
 - a. Examples include, but not limited to:
 - i. Staff involved in local planning activities, public works, and emergency management
 - ii. Funding through taxing authority, and annual budgets
 - iii. Regulatory authorities for comprehensive planning, building codes, and ordinances.

III. Notes

IV. Handouts

- A. FEMA "Developing the Mitigation Plan: Identifying Mitigation Actions and Implementation Strategies" FEMA 386-3/April 2003 (not handed out due to Jan Go-To Meeting)

1. <https://www.fema.gov/media-library-data/20130726-1521-20490-5373/howto3.pdf>

V. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
 1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
- F. FEMA IS-393 Introduction for Hazard Mitigation
 1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
- G. FEMA / CSTI G-393 Mitigation
- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
 1. <https://www.fema.gov/media-library/resources-documents/collections/6>
 2. FEMA 386-1 "Getting Started – building Support for Mitigation Planning"
 3. FEMA 386-2 "Understanding Your Risks – identifying hazards and estimating losses"
 4. FEMA 386-3 "Developing the Mitigation Plan – identifying actions and implementing strategies"
 5. FEMA 386-4 "Bringing the Plan to Life – implementing the hazard mitigation plan"
- I. FEMA "Local Mitigation Planning Handbook"
 1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- J. FEMA "Local Mitigation Plan Review Guide" (Oct 1, 2011)
 1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
- K. FEMA "Integrating Hazard Mitigation into Local Planning"
 1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf
- L. FEMA "Mitigation Ideas"

1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
- M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans
- VI. Wrap up
 - A. Next Area B LHMP Quarterly Meeting.
 1. Oct 12, 2017 Host: City of Lancaster
- VII. Adjournment

January 2018 Area B Meeting

Date: January 18, 2018

Location: City of Agoura Hills

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the FEMA “Local Mitigation Plan Review Guide” dated Oct 1, 2011. Continue reviewing the five elements (A through E) and their requirements.
 1. Section 4.3- Element C: Mitigation Strategy (page 23).
 - a) Element – C2 (One of six requirements for element C).
 - i. Does the Plan address each jurisdiction’s participation in the National Flood Insurance Program (NFIP) and continued compliance with NFIP requirements, as appropriate? 44CFR 201.6(c)(3)(ii)
 - (a) Intent
 1. To demonstrate flood hazard mitigation efforts by the community through NFIP activities.
 - a. Where FEMA is the official administrating Federal agency of the NFIP, participation in the program is a basic community capability and resource for flood hazard mitigation activities.
 - ii. Requirement
 1. The plan must describe each jurisdiction’s participation in the NFIP and describe their floodplain management program for continued compliance.
 - a. Simply stating, “The community will continue to comply with NFIP”, will NOT meet this requirement.
 - b. The description could include, but is not limited to:
 - i. Adoption and enforcement of floodplain management requirements, including regulating new construction in Special Flood Hazard Areas (SGHAs);
 - ii. Floodplain identification and mapping, including any local requests for map updates;
 - iii. Description of community assistance and monitoring activities.

- c. Jurisdictions that are currently not participating in the NFIP and where an Flood Hazard Boundary Map (FHBM) or Flood Insurance Rate Map (FIRM) has been issued may meet this requirement by describing the reasons why the community does not participate.
 - i. **Flood Hazard Boundary Map (FHBM)**. Official map of a community issued by FEMA, where the boundaries of the flood, mudflow and related erosion areas having special hazards have been designated.
 - ii. **Flood Insurance Rate Map (FIRM)**. Official map of a community on which FEMA has delineated the Special Flood Hazard Areas (SFHAs), the Base Flood Elevations (BFEs) and the risk premium zones applicable to the community.

III. Notes

IV. Handouts

- A. FEMA “Bringing the Plan to Life: Implementing the Hazard Mitigation Plan” FEMA 386-4/Aug 2003

1. https://www.fema.gov/media-library-data/20130726-1521-20490-9008/fema_386_4.pdf

V. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities

1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>

- F. FEMA IS-393 Introduction for Hazard Mitigation

1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>

- G. FEMA / CSTI G-393 Mitigation

- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9

1. <https://www.fema.gov/media-library/resources-documents/collections/6>
2. FEMA 386-1 “Getting Started – building Support for Mitigation Planning”
3. FEMA 386-2 “Understanding Your Risks – identifying hazards and estimating losses”
4. FEMA 386-3 “Developing the Mitigation Plan – identifying actions and implementing strategies”
5. FEMA 386-4 “Bringing the Plan to Life – implementing the hazard mitigation plan”

- I. FEMA “Local Mitigation Planning Handbook”

1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf

- J. FEMA “Local Mitigation Plan Review Guide” (Oct 1, 2011)

1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf

- K. FEMA “Integrating Hazard Mitigation into Local Planning”

1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf

- L. FEMA “Mitigation Ideas”
 - 1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
- M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans
- VI. Wrap up
 - A. Next Area B LHMP Quarterly Meeting.
 - 1. Apr 19, 2018 Host: City of Palmdale
- VII. Adjournment

April 2018 Area B Meeting

Date: April 19, 2018

Location: City of Palmdale

Agenda

- I. Call to Order
 - A. Attendance sign-in sheet.
 - B. Welcome and Introductions.
- II. Topic/Discussion
 - A. Review of the FEMA “Local Mitigation Plan Review Guide” dated Oct 1, 2011. Continue reviewing the five elements (A through E) and their requirements.
 - 1. Section 4.3- Element C: Mitigation Strategy (page 24).
 - a) Element – C3 (One of six requirements for element C).
 - i. Does the Plan include goals to reduce/avoid long-term vulnerabilities to the identified hazards? 44CFR 201.6(c)(3)(i)
 - (a) Intent
 - 1. To guide the development and implementation of hazard mitigation actions for the community(ies).
 - a. Goals are statements of the community’s visions for the future.
 - (b) Requirement
 - 1. The plan must include general hazard mitigation goals that represent what the jurisdiction(s) seeks to accomplish through mitigation plan implementation.
 - a. GOALS are broad policy statements that explain what is to be achieved.
 - b. Goals MUST be consistent with the hazards identified in the plan.
- III. Notes
- IV. Handouts
 - A. None

V. Other Helpful Resources

- A. Cal OES Hazard Mitigation Grants Branch – Main number 916-845-8150
- B. Cal OES Hazard Mitigation Planning Division – Main number 916-845-8177
- C. FEMA Planning – <http://www.fema.gov/multi-hazard-mitigation-planning>
- D. FEMA Assistance – <http://www.fema.gov/hazard-mitigation-assistance>
- E. FEMA IS-318 Hazard Mitigation Planning for Local and Tribal Communities
 - 1. <http://training.fema.gov/is/courseoverview.aspx?code=IS-318>
- F. FEMA IS-393 Introduction for Hazard Mitigation
 - 1. <https://training.fema.gov/is/courseoverview.aspx?code=is-393.a>
- G. FEMA / CSTI G-393 Mitigation
- H. FEMA State and Local Mitigation Planning How-To Series/Guides #1-#9
 - 1. <https://www.fema.gov/media-library/resources-documents/collections/6>
 - 2. FEMA 386-1 “Getting Started – building Support for Mitigation Planning”
 - 3. FEMA 386-2 “Understanding Your Risks – identifying hazards and estimating losses”
 - 4. FEMA 386-3 “Developing the Mitigation Plan – identifying actions and implementing strategies”
 - 5. FEMA 386-4 “Bringing the Plan to Life – implementing the hazard mitigation plan”
- I. FEMA “Local Mitigation Planning Handbook”
 - 1. http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema_local_mitigation_handbook.pdf
- J. FEMA “Local Mitigation Plan Review Guide” (Oct 1, 2011)
 - 1. http://www.fema.gov/media-library-data/20130726-1809-25045-7498/plan_review_guide_final_9_30_11.pdf
- K. FEMA “Integrating Hazard Mitigation into Local Planning”
 - 1. http://www.fema.gov/media-library-data/20130726-1908-25045-0016/integrating_hazmit.pdf
- L. FEMA “Mitigation Ideas”
 - 1. http://www.fema.gov/media-library-data/20130726-1904-25045-0186/fema_mitigation_ideas_final508.pdf
- M. CFR Title 44 – Emergency Management & Assistance §201.6, Local Mitigation Plans

VI. Wrap up

- A. Next Area B LHMP Quarterly Meeting (no meeting in July)
 - 1. Oct 11, 2018 Host: City of Lancaster

VII. Adjournment

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LVMCOG HAZARD MITIGATION PLAN KICK-OFF MEETING

Date: February 20, 2018

Location: City of Hidden Hills

Attendees

| Name | City | Name | City |
|-------------------|------------------------|-------------------|---------------------------|
| John JT Treichler | Agoura Hills | Kevin Ryan | Hidden Hills |
| Louis Celaya | Agoura Hills | Terry Dipple | LVMCOG Executive Director |
| Debbie Larson | Calabasas | Susan Duenas | Malibu |
| Jim Jordan | Calabasas | Philippe Eskandar | Westlake Village |
| Name | Title and Organization | Name | Title and Organization |
| Prashant Kumar | President & CEO, MLC | Bob Takemura | Managing Partner, MLC |
| Debbie Dorsey | BA, MLC | | |

MEETING SIGN-IN

Las Virgenes-Malibu Council of Governments
2018 Multi-Jurisdictional Hazard Mitigation Plan Update
Project Kickoff
February 20, 2018
10:00 a.m. – 11:00 a.m.

| Name | Initials | City / Title | E-Mail Address |
|-------------------|-----------|---------------------------|----------------------------------------------------------------------------------------|
| Debbie Larson | <i>DL</i> | Calabasas | dlarson@cityofcalabasas.com |
| John JT Treichler | <i>JT</i> | Agoura Hills | jtreichler@ci.agoura-hills.ca.us |
| Kevin Ryan | <i>KR</i> | Hidden Hills | eoc@hiddenhillscity.org |
| Louis Celaya | <i>LC</i> | Agoura Hills | lcelaya@ci.agoura-hills.ca.us |
| Philippe Eskandar | <i>PE</i> | Westlake Village | philippe@wlv.org |
| Susan Duenas | | Malibu | sduenas@malibucity.org |
| Terry Dipple | <i>TD</i> | LVMCOG Executive Director | tdipple@msn.com |
| <i>Jim Jordan</i> | <i>JJ</i> | <i>Calabasas</i> | <i>jordan@cityofcalabasas.com</i> |
| Prashant Kumar | <i>PK</i> | President & CEO, MLC | Prashant.kumar@MLCHQ.com |
| Bob Takemura | <i>BT</i> | Managing Partner, MLC | Bob.takemura@MLCHQ.com |
| Debbie Dorsey | <i>DD</i> | Consultant, MLC | Debbie.dorsey@MLCHQ.com |

mlc

LVMCOG 2018 HMP Update Kickoff Meeting Signin.docx 1

Figure 103: LVMCOG HMP Update Kick-off Meeting Sign-in

Agenda

Purpose: To provide an overview of the Hazard Mitigation Plan update process including required information and participation from each city

- I. Introduction
- II. HMP Update Process Overview
 - MLC Overview
 - Project Purpose and Objectives

HMP Purpose

 - To provide an action plan that includes resources and information to assist residents as well as the public and private sectors to plan for and mitigate the impacts of disasters – thereby reducing risk and preventing financial losses

HMP Objectives

 - To protect life, property, and the environment
 - Increase public awareness
 - Improve Emergency Management (through mitigation efforts, planning, and coordination)
 - Project Phases
 - Phase I: Initiate and Plan
 - Planning and Preparation (initial scheduling, survey preparation, etc.)
 - Phase 2: Execution
 - Issue On-line Risk and Hazard Mitigation Survey
 - Complete HMP Updates
 - Phase 3: HMP Review (each City)
 - Phase 4: City Council Approvals and Submission to CAL-OES and FEMA
 - MLC to Make Any Needed Updates (based on feedback from CAL-OES and/or FEMA)
 - Participation Requirements
 - Community Outreach Requirements
 - Estimated Schedule
- III. Information Requirements
 - Update on Mitigation Projects and Activities (refer to existing HMP)
 - Any Risk Maps or HAZUS Reports from Each City (if available)
 - Planned Mitigation Projects or Activities (new)
- IV. Wrap-up
 - Review and Next Steps
 - Customize Risk and Hazard Mitigation On-line Survey (MLC)
 - Post Survey to City Web Sites and Publicize
 - Obtain Information and Updates from Each City
 - Plan and Schedule Hazard Mitigation Public Outreach Meetings (later in project)
 - City Council Approvals - After the HMP Update Complete

SECTION 16. ANNEX C: COMMUNITY DISASTER PREPAREDNESS AND RISK SURVEY

DISASTER PREPAREDNESS AND RISK SURVEY RESULTS

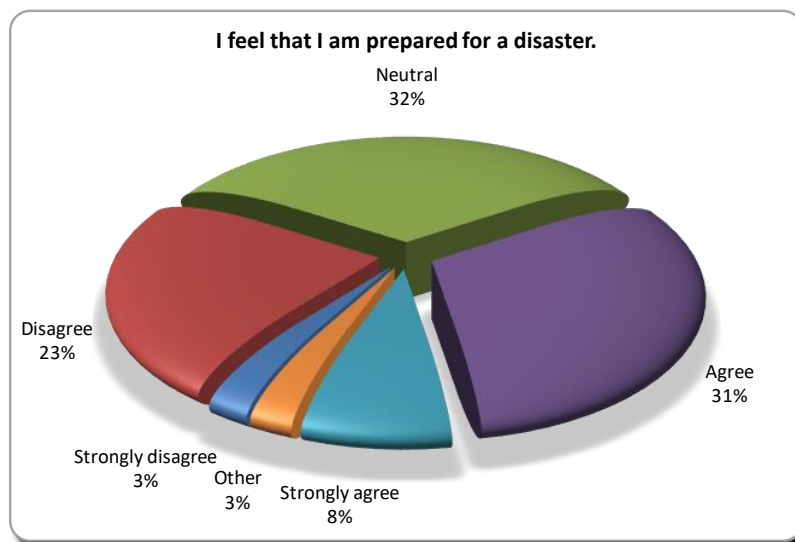
A Disaster Preparedness Risk Survey was used to encourage public participation in mitigation planning and provide input into the Hazard Mitigation Planning process. The survey included questions regarding perceived risks, actual losses, and mitigation activities.

The survey also provided a forum for the public to provide their input on future planning efforts and enables emergency management personnel to better focus their mitigation efforts. The following tables provide the survey results. Surveys were made available online via each city’s website and as hard copies.

The data gathered was used to help local officials better plan for disasters as well as communicate with citizens and educate residents on mitigation steps to reduce the risk of loss. The survey was administered and maintained by MLC and Associates, Inc. A total of 119 completed surveys were received. The results of the survey are provided below. In some cases, comments were summarized, consolidated, and edited for clarity.

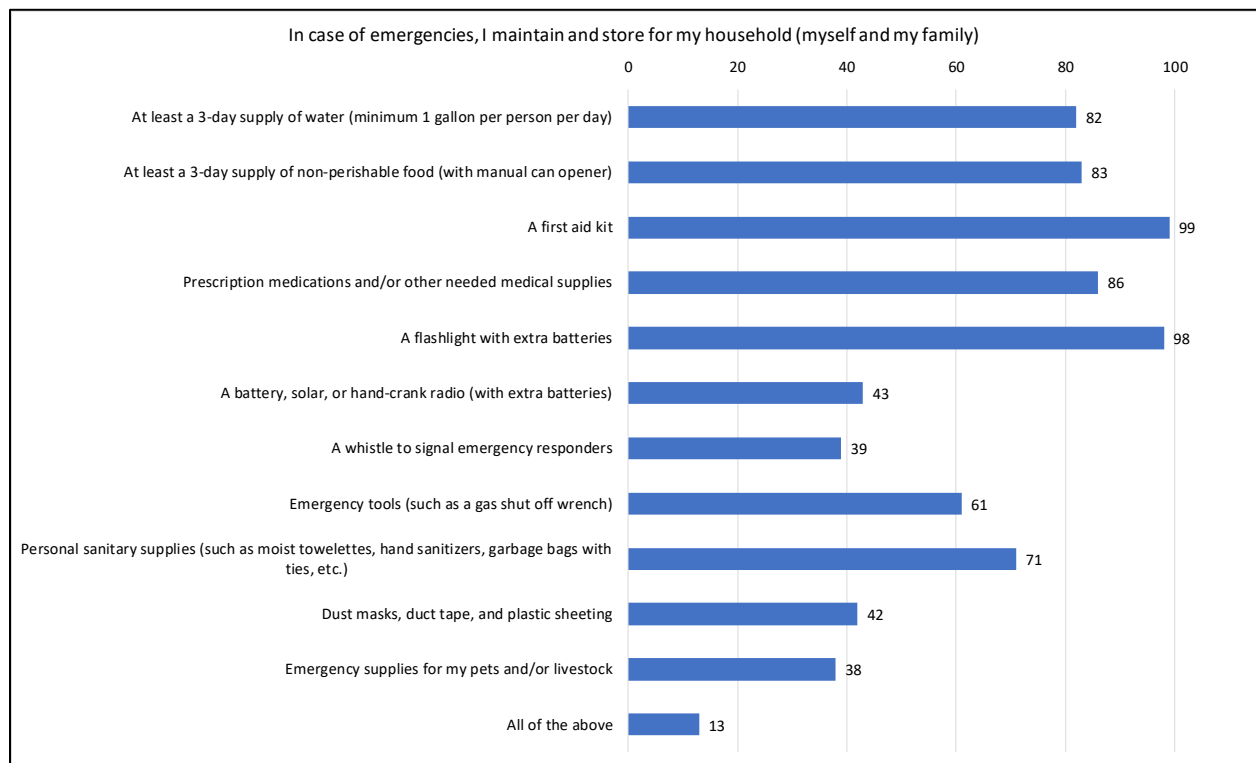
1. I feel that I am prepared for a disaster.

| Value | Count | Percent |
|-------------------|-------|---------|
| Strongly disagree | 3 | 2.5% |
| Disagree | 27 | 22.9% |
| Neutral | 38 | 32.2% |
| Agree | 37 | 31.4% |
| Strongly agree | 10 | 8.5% |
| Other | 3 | 2.5% |
| Not Applicable | 0 | 0% |



2. In case of emergencies, I maintain and store for my household (myself and my family).

| Value | Count | Percent |
|------------------------------------------------------------------------------------------------------|-------|---------|
| At least a 3-day supply of water (minimum 1 gallon per person per day) | 82 | 10.9% |
| At least a 3-day supply of non-perishable food (with manual can opener) | 83 | 11.0% |
| A first aid kit | 99 | 13.1% |
| Prescription medications and/or other needed medical supplies | 865 | 11.4% |
| A flashlight with extra batteries | 98 | 13.0% |
| A battery, solar, or hand-crank radio (with extra batteries) | 43 | 5.7% |
| A whistle to signal emergency responders | 39 | 5.2% |
| Emergency tools (such as a gas shut off wrench) | 61 | 8.1% |
| Personal sanitary supplies (such as moist towelettes, hand sanitizers, garbage bags with ties, etc.) | 71 | 9.4% |
| Dust masks, duct tape, and plastic sheeting | 42 | 5.6% |
| Emergency supplies for my pets and/or livestock | 38 | 5.0% |
| All of the above | 13 | 1.7% |

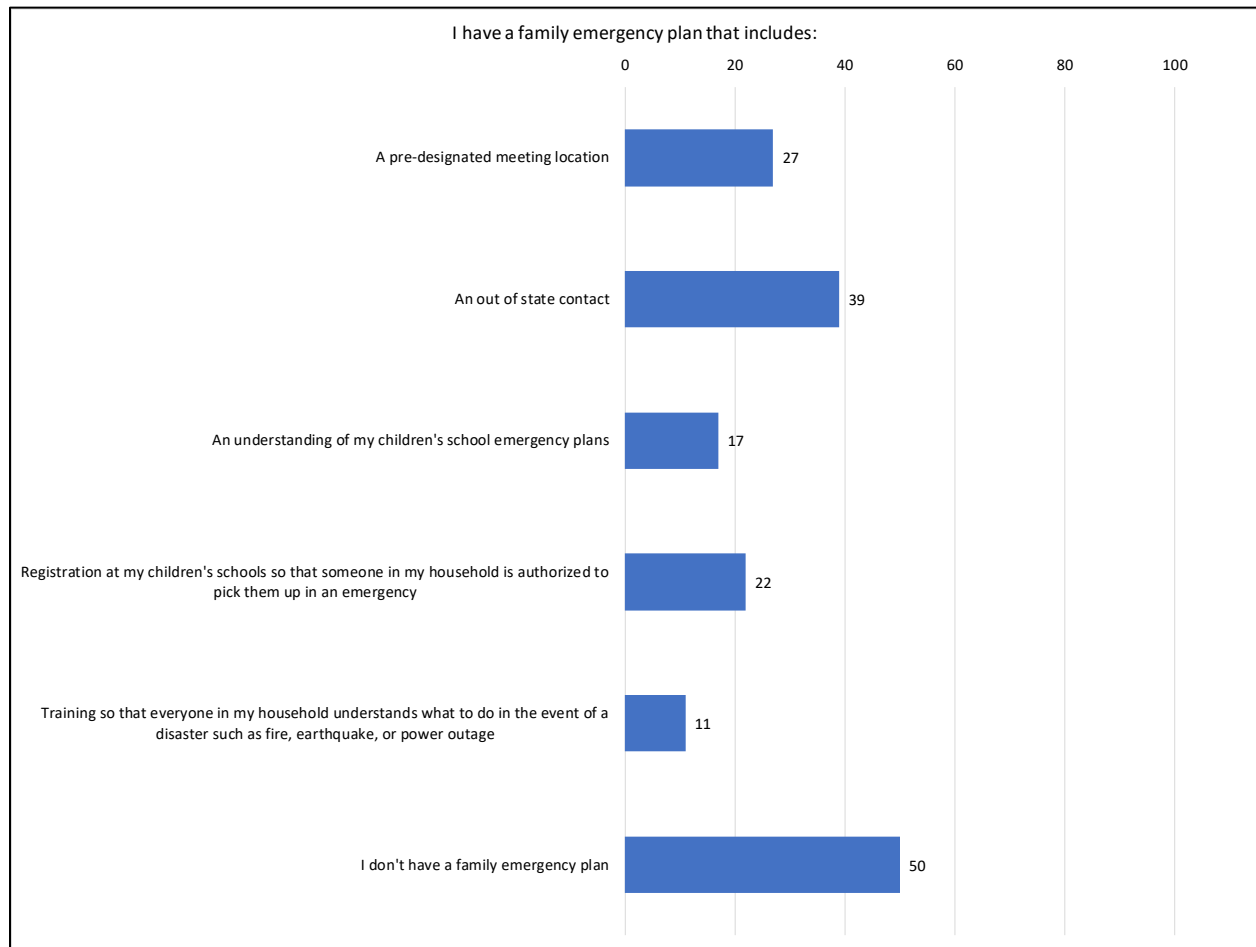


Other emergency items include:

- Barricade Gel
- Cash
- Emergency Contact Information
- Full Gas Tank
- Grab and Go Bag
- Portable Generator
- Sleeping Bag
- Sunscreen
- Portable Toilet
- Solar Charger
- Water Barrel

3. I have a family emergency plan that includes: (check all that apply)

| Value | Count | Percent |
|------------------------------------------------------------------------------------------------------------------------|-------|---------|
| A pre-designated meeting location | 27 | 16.3% |
| An out of state contact | 39 | 23.5% |
| An understanding of my children's school emergency plans | 17 | 10.2% |
| Registration at my children's schools so that someone in my household is authorized to pick them up in an emergency | 22 | 13.3% |
| Training so that everyone in my household understands what to do in the event of a disaster such as fire or earthquake | 11 | 6.6% |
| I don't have a family emergency plan | 50 | 30.1% |

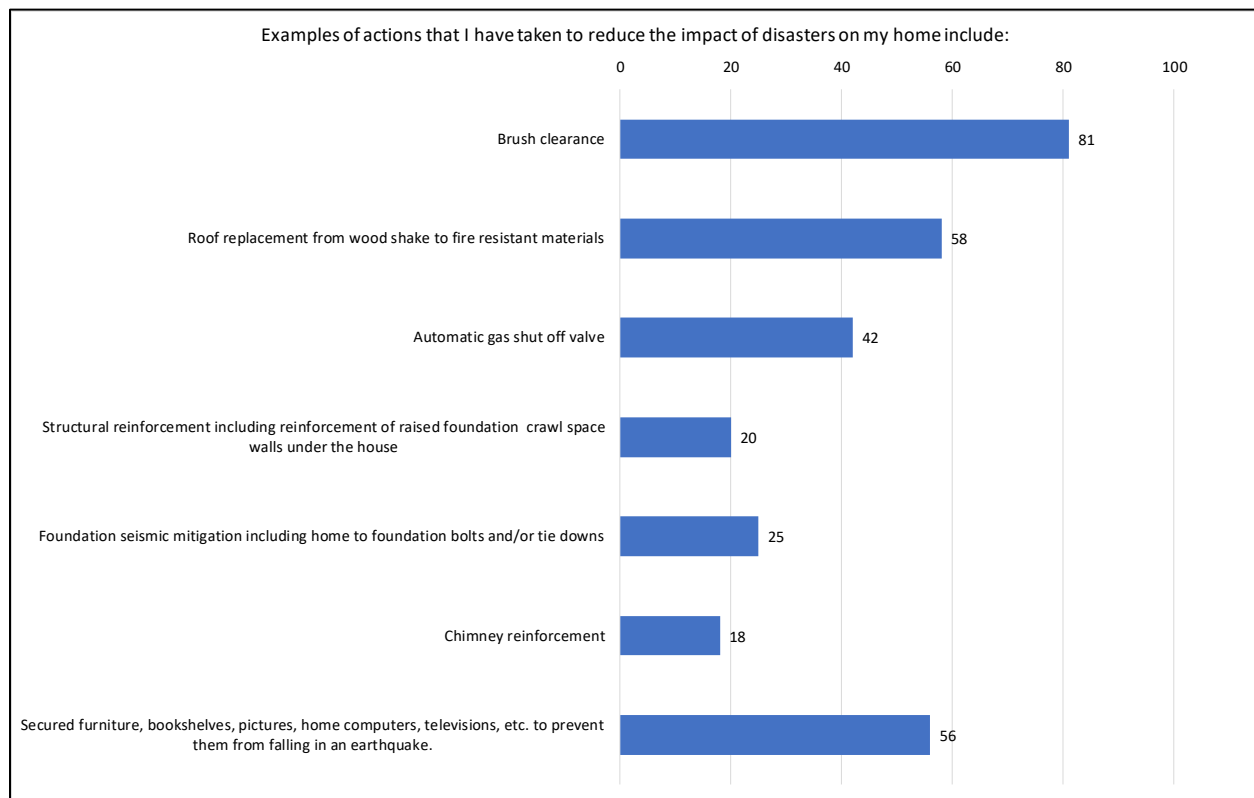


Other emergency plan items include:

- In state long distance contact
- Pet evacuation plan

4. Examples of actions that I have taken to reduce the impact of disasters on my home include:

| Value | Count | Percent |
|----------------------------------------------------------------------------------------------------------------------------|-------|---------|
| Brush clearance | 81 | 27.0% |
| Roof replacement from wood shake to fire resistant materials | 58 | 19.3% |
| Automatic gas shut off valve | 42 | 14.0% |
| Structural reinforcement | 20 | 6.7% |
| Foundation reinforcement | 25 | 8.3% |
| Chimney reinforcement | 18 | 6.0% |
| Secured furniture, bookshelves, pictures, home computers, televisions, etc. to prevent them from falling in an earthquake. | 56 | 18.7% |

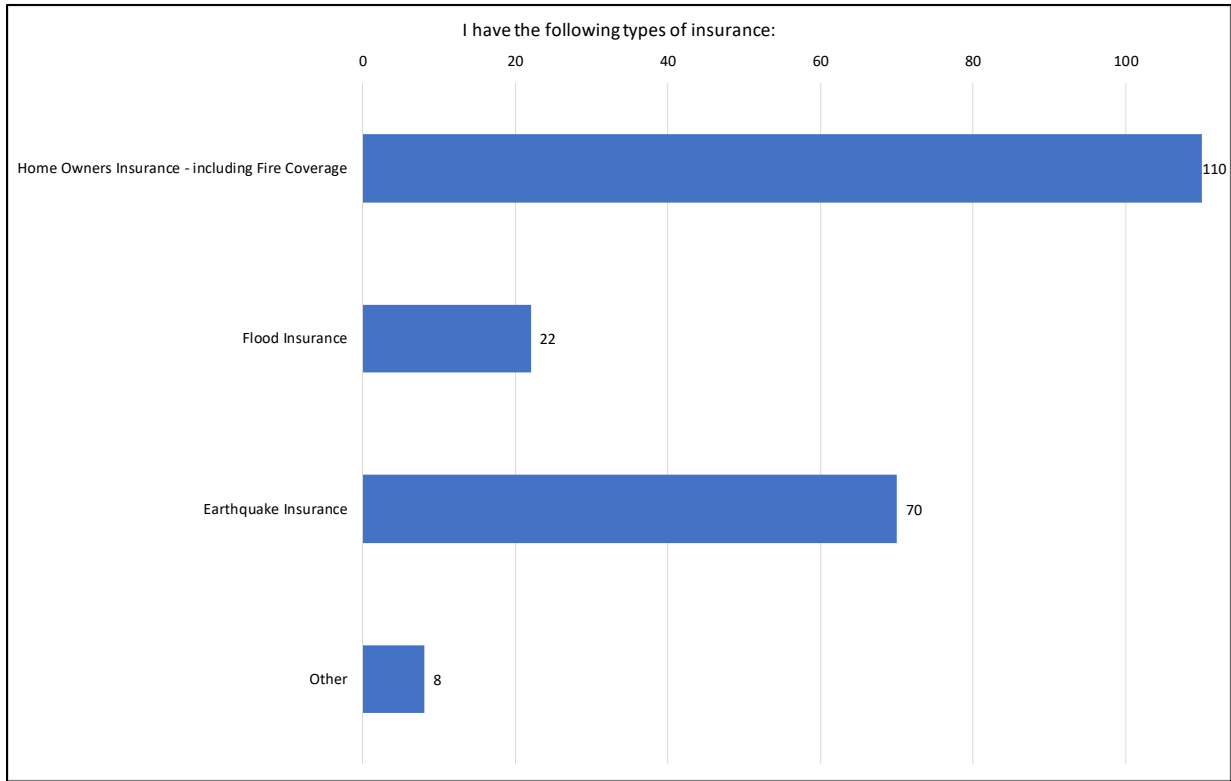


Other home mitigation examples include:

- Annual Drain Clearance
- Barricade Gel (for wildfire)
- Concrete Siding to Replace Wood Exterior Panels
- Emergency Lighting
- Emergency Supplies
- Extra Water Hoses
- Extra Propane for Heating and Cooking
- Fire Retardant Hand-sprayer (for wildfire)
- Flame Stop Coating on Exterior Walls
- Food and Water Storage
- Lightning Mitigation
- Planted Succulents Around Home
- Screens Over Roof Drains
- Sump Pump
- SunFire Defense SPF3500 (for wildfire)
- Upgraded Fire Hose Connector
- Water Tank (5,000 gallons)

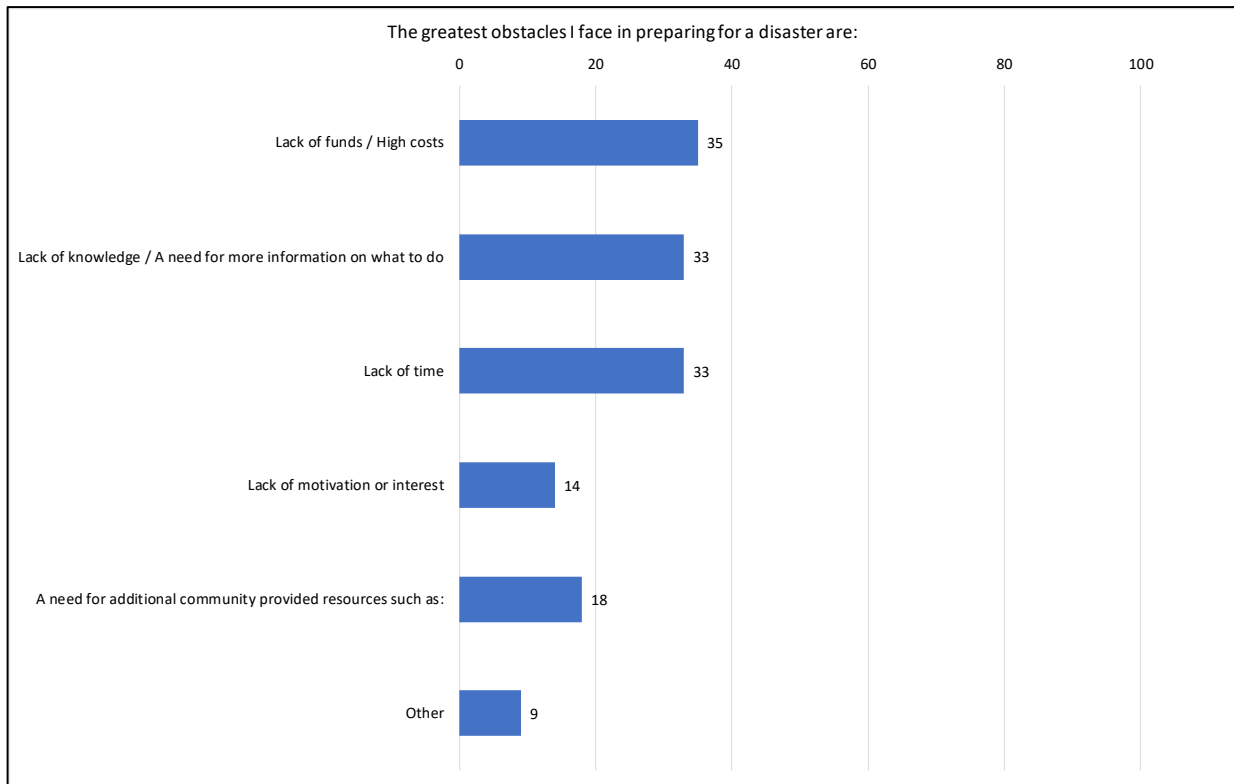
5. I have the following types of insurance: (check all that apply)

| Value | Count | Percent |
|-------------------------------------------------|-------|---------|
| Home Owners Insurance - including Fire Coverage | 110 | 52.4% |
| Flood Insurance | 22 | 10.5% |
| Earthquake Insurance | 70 | 33.3% |
| Other | 8 | 3.8% |



6. The greatest obstacles I face in preparing for a disaster are:

| Value | Count | Percent |
|---------------------------------------------------------------|-------|---------|
| Lack of funds / High costs | 35 | 24.6% |
| Lack of knowledge / A need for more information on what to do | 33 | 23.2% |
| Lack of time | 33 | 23.2% |
| Lack of motivation or interest | 14 | 9.9% |
| A need for additional community provided resources such as: | 18 | 12.7% |
| Other | 9 | 6.3% |

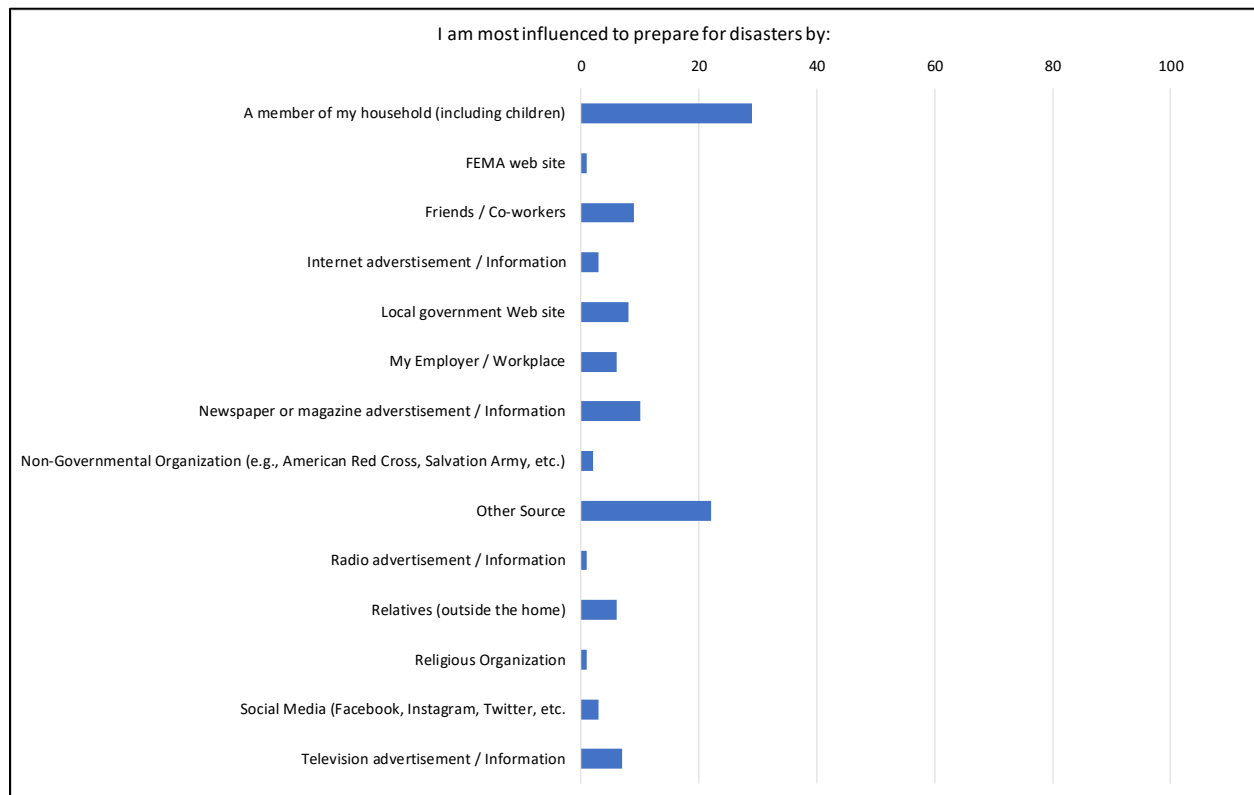


Other additional resources needed include:

- Charmlee Park Fire Protection
- Electrical System Backup to Supply Water Pumps and Underground Water Supplies (for firefighting)
- Emergency Shelter
- Evacuation Plan / Local Meeting Place
- Government Regulations for Habitat Protection
- Improved Emergency Call / Notification Capabilities
- Improved Road Access and Road Maintenance
- Improved Understanding of How Residents will be Contacted in an Emergency
- Sell Disaster Packs (not for profit)
- Space to House Supplies
- Traffic Mitigation / Development Limits
- Training
- Understanding of Where to Buy Supplies

7. I am most influenced to prepare for disasters by:




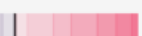

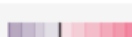


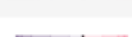

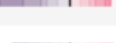


| Value | Count | Percent |
|--------------------------------------------------------------------------------|-------|---------|
| A member of my household (including children) | 29 | 26.9% |
| FEMA web site | 1 | 0.9% |
| Friends / Co-workers | 9 | 8.3% |
| Internet advertisement / Information | 3 | 2.8% |
| Local government Web site | 8 | 7.4% |
| My Employer / Workplace | 6 | 5.6% |
| Newspaper or Magazine Advertisement / Information | 10 | 9.3% |
| Non-Governmental Organization (e.g., American Red Cross, Salvation Army, etc.) | 2 | 1.9% |
| Other Source | 22 | 20.4% |
| Radio advertisement / Information | 1 | 0.9% |
| Relatives (outside the home) | 6 | 5.6% |
| Religious Organization | 1 | 0.9% |
| Social Media (Facebook, Instagram, Twitter, etc.) | 3 | 2.8% |
| Television advertisement / Information | 7 | 6.5% |




Other additional major influencers include:

- CERT
- Common Sense
- Family, Friends, Co-workers, and Religious Organizations (all)
- Media Reports
- Personal Experience
- Self-motivation

8. The survey respondents ranked a list of hazards from highest to lowest risk to their community. The Top 5 hazards in order of priority were Wildfires, Earthquakes, Drought, Power Outages, and Climate Change.

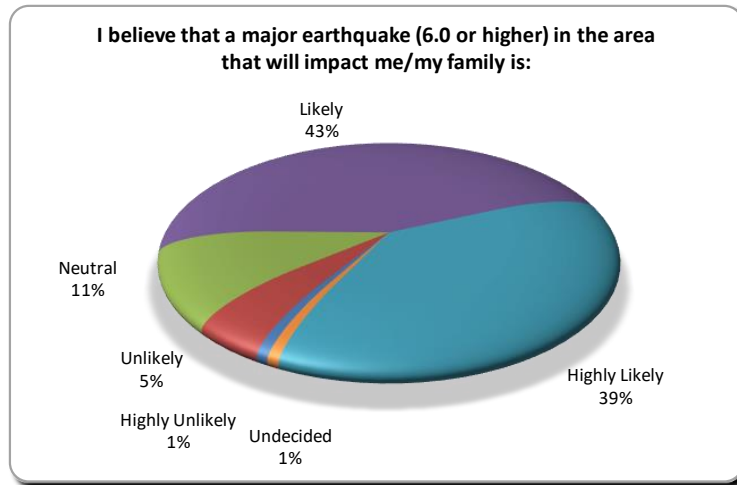
| Item | Overall Rank | Rank Distribution | Score |
|-----------------------------|--------------|---------------------------------------------------------------------------------------|-------|
| Wildfires | 1 |  | 1,272 |
| Earthquakes (Major) | 2 |  | 989 |
| Droughts | 3 |  | 897 |
| Power Outages | 4 |  | 802 |
| Climate Change | 5 |  | 722 |
| Landslides / Mud Slides | 6 |  | 601 |
| Severe Windstorms | 7 |  | 599 |
| Severe Winter Storm | 8 |  | 464 |
| Floods | 9 |  | 441 |
| Terrorist Activities | 10 |  | 412 |
| Coastal Erosion | 11 |  | 372 |
| Hazardous Materials Release | 12 |  | 344 |
| Tsunamis | 13 |  | 342 |



Lowest Rank Highest Rank

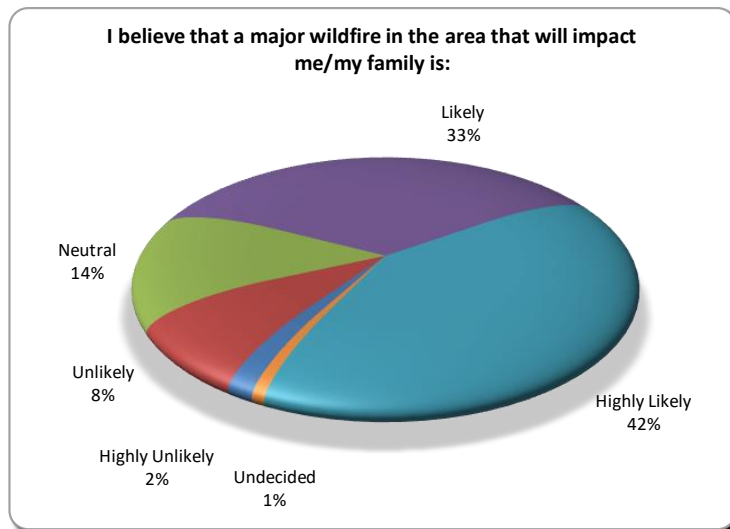
9. I believe that a major earthquake (6.0 or higher) in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 46 | 39.0% |
| Likely | 51 | 43.2% |
| Neutral | 13 | 11.0% |
| Unlikely | 6 | 5.1% |
| Highly Unlikely | 1 | 0.8% |
| Undecided | 1 | 0.8% |

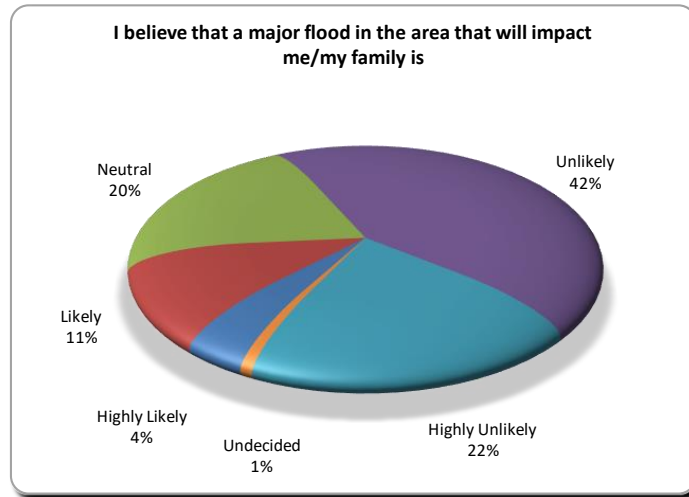


10. I believe that a major wildfire in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 49 | 41.9% |
| Likely | 39 | 33.3% |
| Neutral | 16 | 13.7% |
| Unlikely | 10 | 8.5% |
| Highly Unlikely | 2 | 1.7% |
| Undecided | 1 | 0.9% |



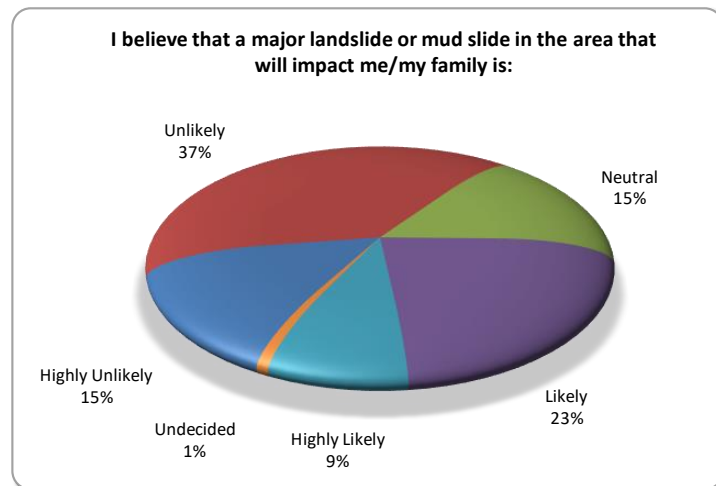
11. I believe that a major flood in the area that will impact me/my family is:



| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 5 | 4.2% |
| Likely | 13 | 11.0% |
| Neutral | 23 | 19.5% |
| Unlikely | 50 | 42.4% |
| Highly Unlikely | 26 | 22.0% |
| Undecided | 1 | 0.8% |

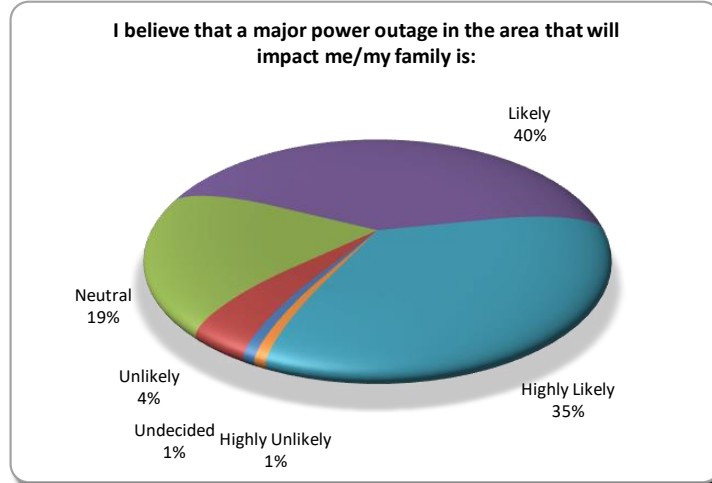
12. I believe that a major landslide or mudslide in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 11 | 9.3% |
| Likely | 27 | 22.9% |
| Neutral | 18 | 15.3% |
| Unlikely | 44 | 37.3% |
| Highly Unlikely | 17 | 14.4% |
| Undecided | 1 | 0.8% |



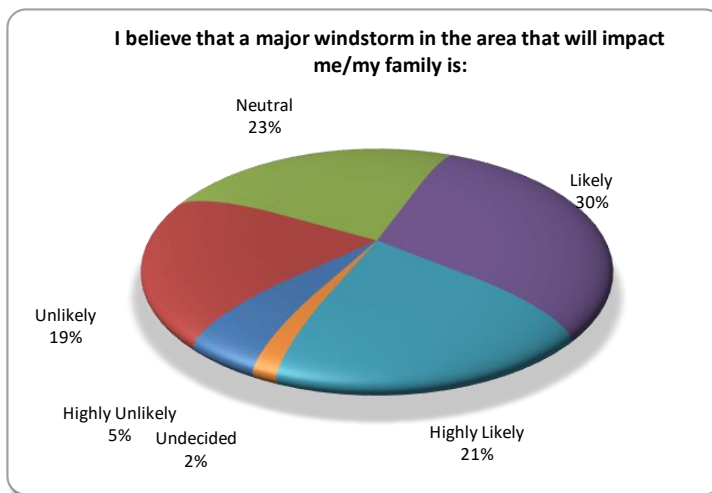
13. I believe that a major power outage in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 42 | 35.6% |
| Likely | 47 | 39.8% |
| Neutral | 22 | 18.6% |
| Unlikely | 5 | 4.2% |
| Highly Unlikely | 1 | 0.8% |
| Undecided | 1 | 0.8% |



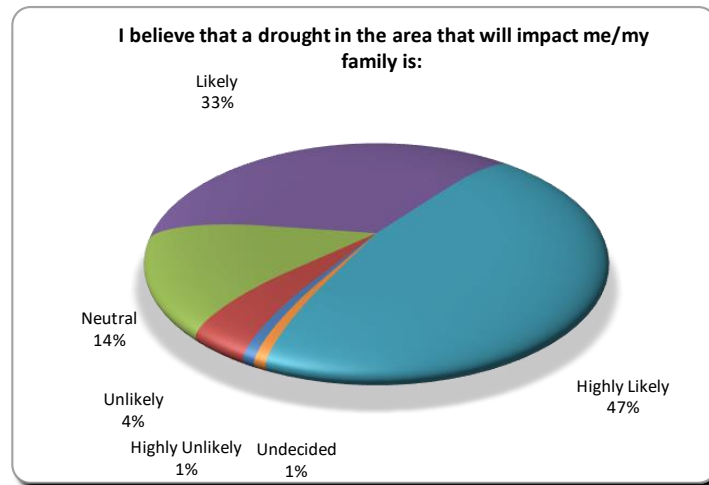
14. I believe that a major windstorm in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 25 | 21.2% |
| Likely | 35 | 29.7% |
| Neutral | 27 | 22.9% |
| Unlikely | 23 | 19.5% |
| Highly Unlikely | 6 | 5.1% |
| Undecided | 2 | 1.7% |



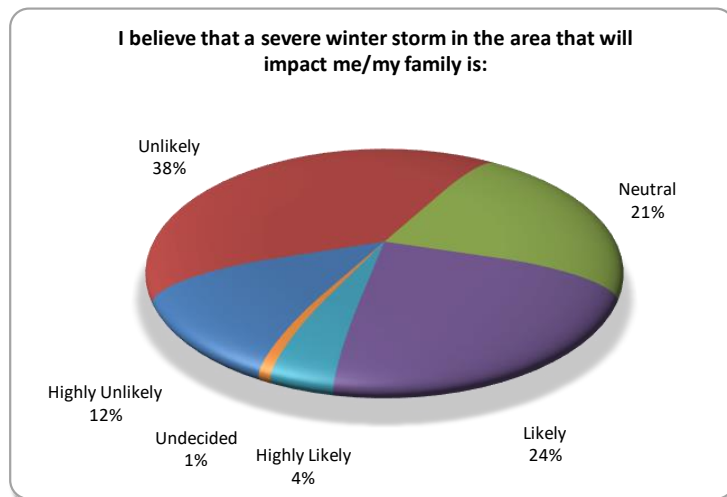
15. I believe that a major drought in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 55 | 47.0% |
| Likely | 39 | 33.3% |
| Neutral | 16 | 13.7% |
| Unlikely | 5 | 4.3% |
| Highly Unlikely | 1 | 0.9% |
| Undecided | 1 | 0.9% |



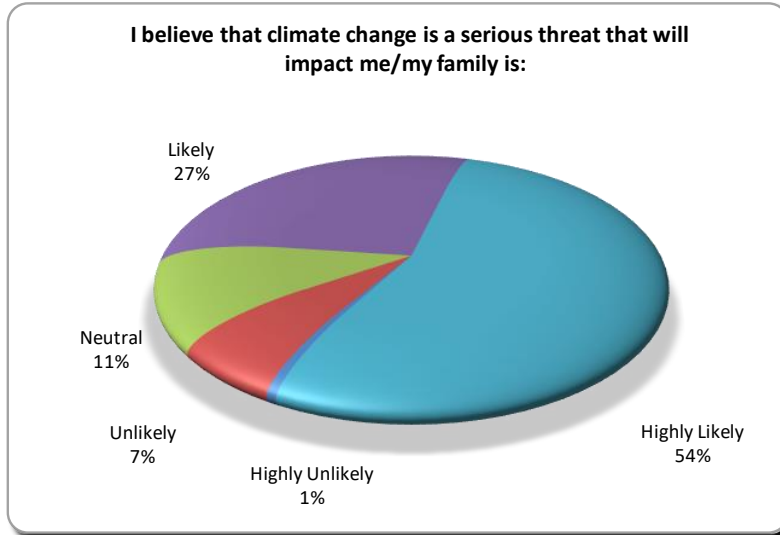
16. I believe that severe winter storm in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 5 | 4.2% |
| Likely | 28 | 23.7% |
| Neutral | 25 | 21.2% |
| Unlikely | 45 | 38.1% |
| Highly Unlikely | 14 | 11.9% |
| Undecided | 1 | 0.8% |



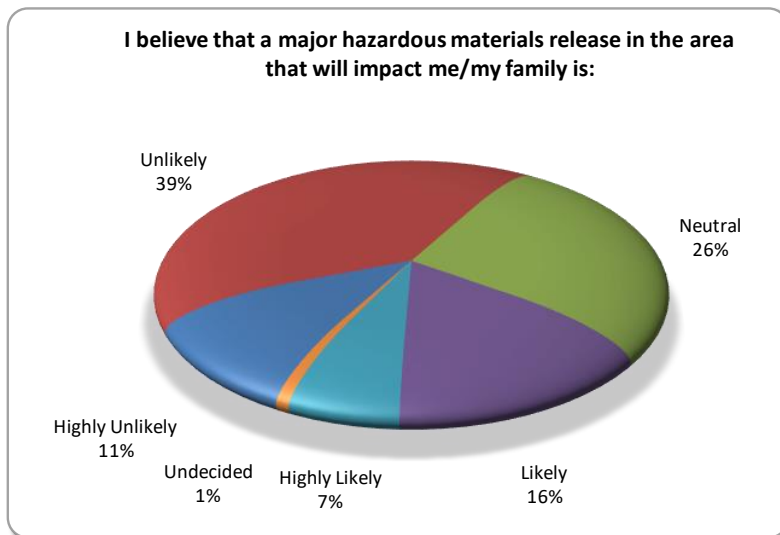
17. I believe that climate change is a serious threat that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 250 | 54.3% |
| Likely | 124 | 27.0% |
| Neutral | 51 | 11.1% |
| Unlikely | 32 | 7.0% |
| Highly Unlikely | 3 | 0.7% |



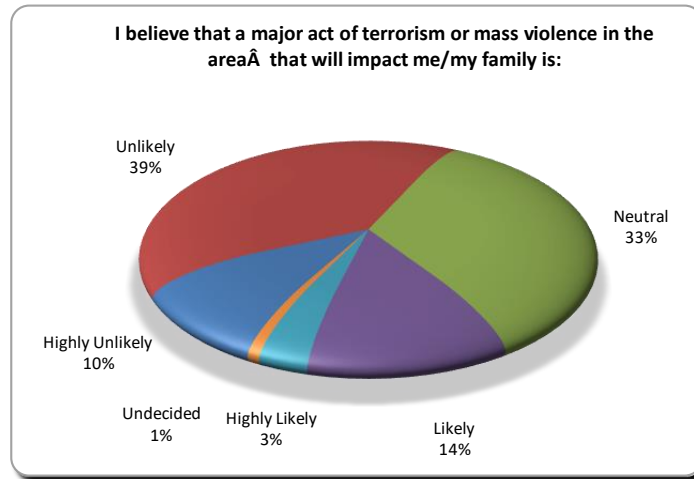
18. I believe that a major hazardous materials release in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 8 | 6.8% |
| Likely | 19 | 16.1% |
| Neutral | 31 | 26.3% |
| Unlikely | 46 | 39.0% |
| Highly Unlikely | 13 | 11.0% |
| Undecided | 1 | 0.8% |



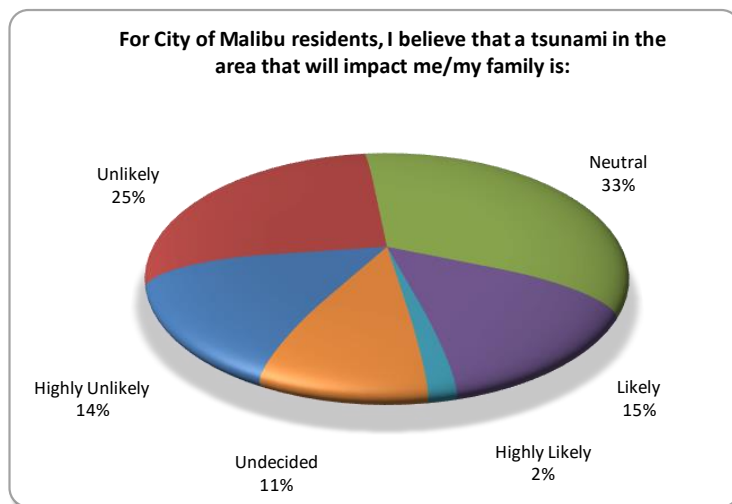
19. I believe that a major act of terrorism in the area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 4 | 3.4% |
| Likely | 16 | 13.7% |
| Neutral | 39 | 33.3% |
| Unlikely | 45 | 38.5% |
| Highly Unlikely | 12 | 10.3% |
| Undecided | 1 | 0.9% |



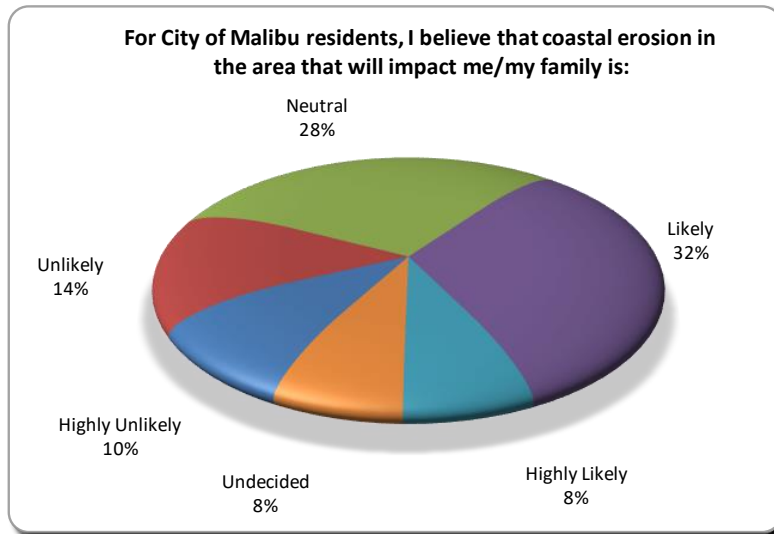
20. I believe that a tsunami in the Malibu area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 1 | 1.8% |
| Likely | 8 | 14.5% |
| Neutral | 18 | 32.7% |
| Unlikely | 14 | 25.5% |
| Highly Unlikely | 8 | 14.5% |
| Undecided | 6 | 10.9% |



21. I believe that a coastal erosion in the Malibu area that will impact me/my family is:

| Value | Count | Percent |
|-----------------|-------|---------|
| Highly Likely | 4 | 8.0% |
| Likely | 16 | 32.0% |
| Neutral | 14 | 28.0% |
| Unlikely | 7 | 14.0% |
| Highly Unlikely | 5 | 10.0% |
| Undecided | 4 | 8.0% |



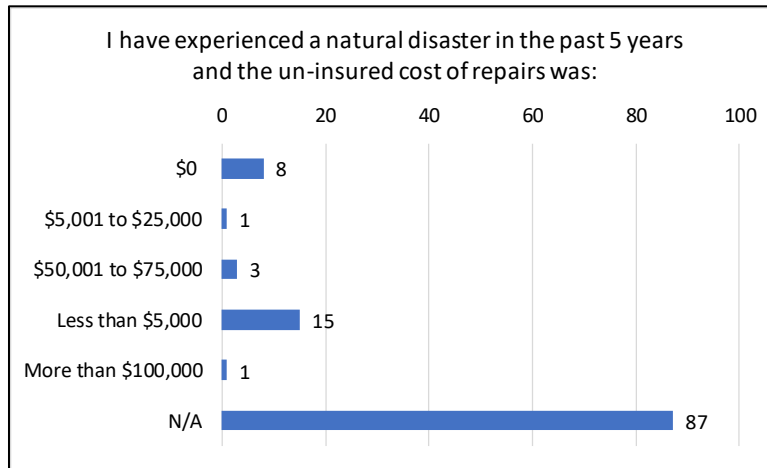
22. List other significant hazards or events that you are concerned about. Note: Responses were edited and summarized to consolidate similar comments.

- A phone number that will call our landlines and cell phones in case of an emergency, so we could add it to our ok to Do Not Disturb iPhone lists
- An ability to know when fires near us could impact our city vs. being close but not likely coming our way
- All our neighborhoods should have sustainable non-fire hazard plantings as well, by law and fuel modification plans
- Chronic air pollution
- Continued construction and over-development that is congesting the area. We do not have the necessary roads, water supply, etc., to support additional growth.
- Decimation of wildlife and the ecosystem due to rat poisons and other pesticide use
- Earthquake and Tsunami events affecting the Diablo Canyon Power Plant in San Luis Obispo County
- EMF, RF, Water and Air quality
- Ensure that evacuation routes are kept accessible and limit development to help prevent gridlock
- Extinction of wildlife due to misinformation about pollution and human encroachment on wildland areas
- Evacuation route accessibility
- Gun culture and return to the wild west form of vigilantism

- Homeless population growth
- If there is a wildfire or severe wind, the electrical wires will be down and will cause fire and make it impossible to evacuate - there will be no water because the wires and pump are not undergrounded, as occurred in the last fire in Big Rock, 1993
- Increased traffic, air pollution, SFV being overcrowded/overpopulated, increased crime, not enough police policing, lax criminal laws, drug epidemic
- Marketing for getting more CERT members and video of what to do in a fire and animal evacuation that can run on our Channel 3 when we are in high threat situations -- because few are motivated to learn when all is ok
- Some sort of fire watch in the Ahmanson, the rangers do fire watch in other parts of their parks, but not that park
- Overdevelopment encroaching into open space/wildlife habitat
- PCH or the nearby canyon roads being closed blocking evacuation routes
- Private patrol companies should train with the Sheriff to assist if neighborhoods that need evacuating and all should be outfitted with bullhorns, not just the Sheriff
- Test our emergency numbers regularly
- The electric company shutting off power in high wind situations (people with medical conditions cannot live safely without electricity)
- Too many drug rehab places here 4-5 on one block (they will not know how to evacuate and will be zero support to neighbors)
- We need our own police station
- Wildfires caused by camping, the SMMC and the MRCA need to respect Malibu residents' concerns regarding this risk and not add campsite in high risk areas
- Wildfire is a major concern
- Wildfires started by the homeless

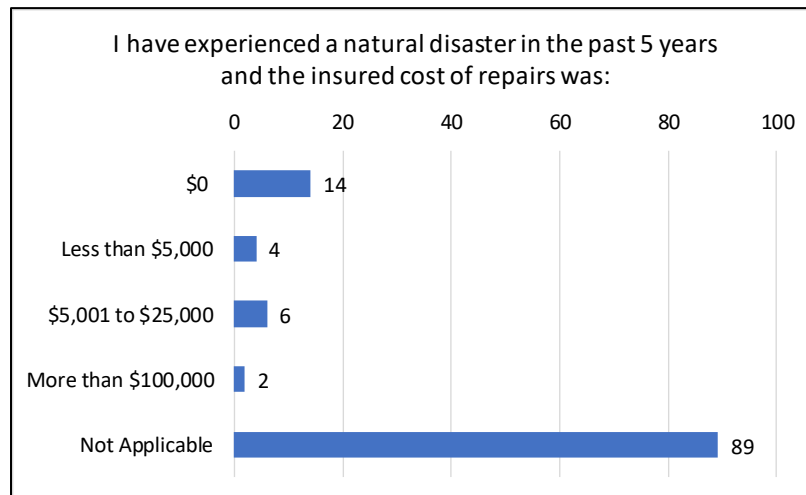
23. I have experienced a natural disaster in the past 5 years and the un-insured cost of repairs was:

| Value | Count | Percent |
|----------------------|-------|---------|
| \$0 | 8 | 7.0% |
| \$5,001 to \$25,000 | 1 | 0.9% |
| \$50,001 to \$75,000 | 3 | 2.6% |
| Less than \$5,000 | 15 | 13.0% |
| More than \$100,000 | 1 | 0.9% |
| N/A | 87 | 75.7% |



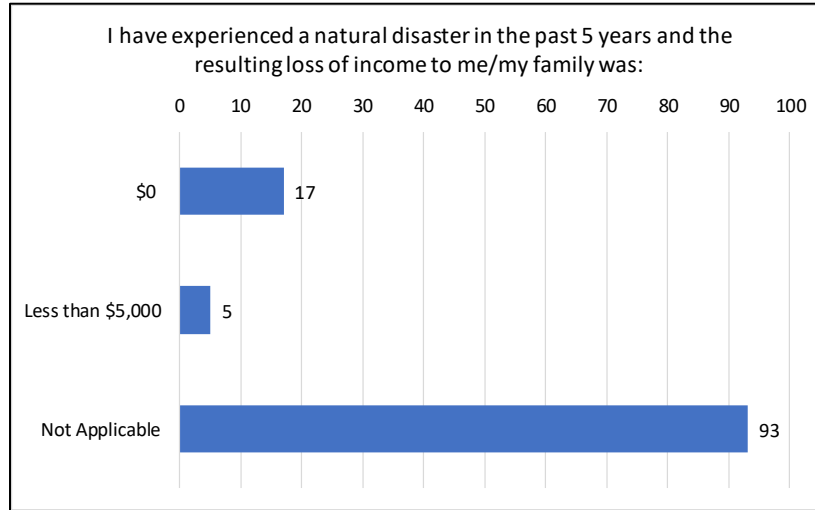
24. I have experienced a natural disaster in the past 5 years and the insured cost of repairs was:

| Value | Count | Percent |
|---------------------|-------|---------|
| \$0 | 14 | 12.2% |
| Less than \$5,000 | 4 | 3.5% |
| \$5,001 to \$25,000 | 6 | 5.2% |
| More than \$100,000 | 2 | 1.7% |
| Not Applicable | 89 | 77.4% |



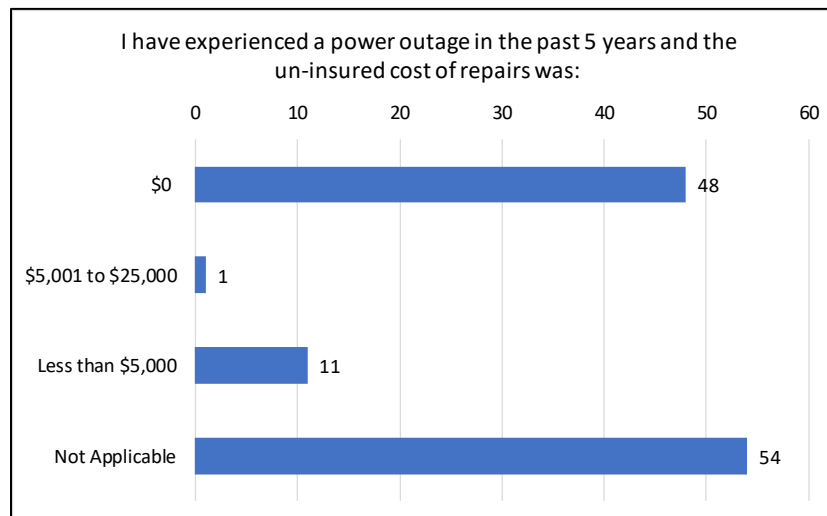
25. I have experienced a natural disaster in the past 5 years and the resulting loss of income to me/my family was:

| Value | Count | Percent |
|-------------------|-------|---------|
| \$0 | 17 | 14.8% |
| Less than \$5,000 | 5 | 4.3% |
| Not Applicable | 93 | 80.9% |



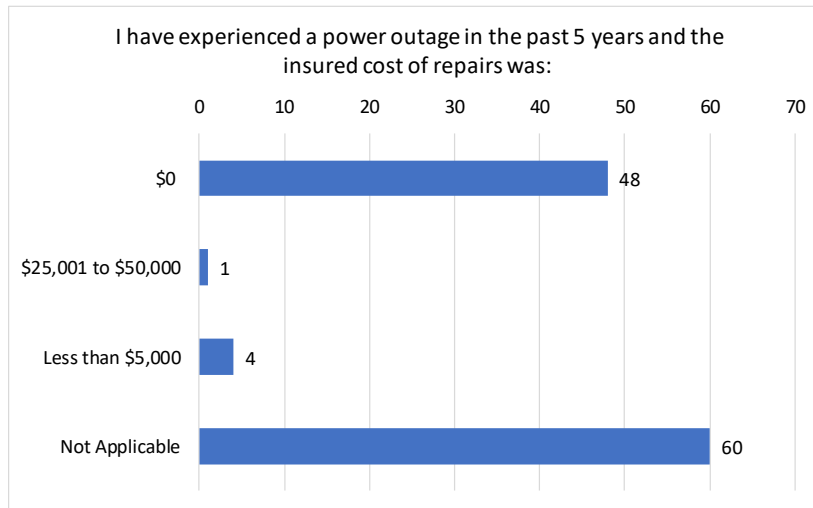
26. I have experienced a power outage in the past 5 years and the un-insured cost of repairs was:

| Value | Count | Percent |
|---------------------|-------|---------|
| \$0 | 48 | 42.1% |
| \$5,001 to \$25,000 | 1 | 0.9% |
| Less than \$5,000 | 11 | 9.6% |



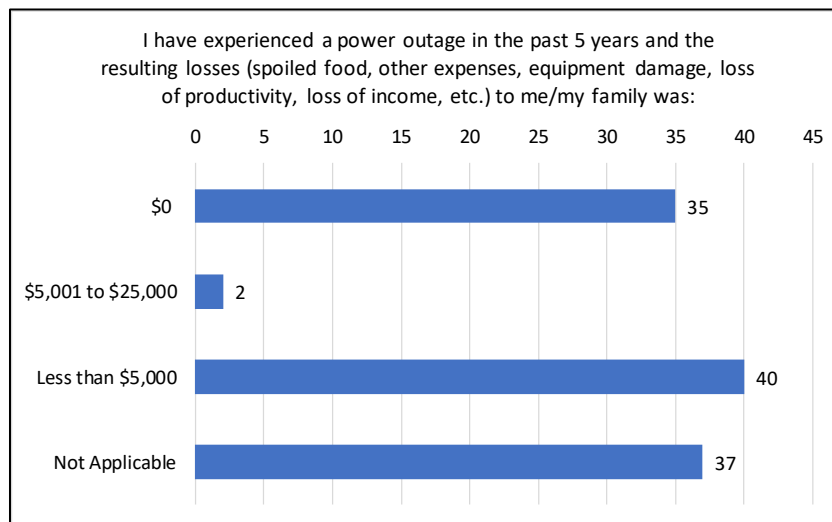
27. I have experienced a power outage in the past 5 years and the insured cost of repairs was:

| Value | Count | Percent |
|----------------------|-------|---------|
| \$0 | 48 | 42.5% |
| \$25,001 to \$50,000 | 1 | 0.9% |
| Less than \$5,000 | 4 | 3.5% |
| Not Applicable | 60 | 53.1% |



28. I have experienced a power outage in the past 5 years and the resulting losses (spoiled food, other expenses, equipment damage, loss of productivity, loss of income, etc.) to me/my family was:

| Value | Count | Percent |
|---------------------|-------|---------|
| \$0 | 35 | 42.5% |
| \$5,001 to \$25,000 | 2 | 0.9% |
| Less than \$5,000 | 40 | 3.5% |
| Not Applicable | 37 | 53.1% |



29. What actions can local government do to help you become better prepared for disasters? Note: Responses were edited and summarized to consolidate similar comments.

Community Emergency Response Teams (CERT)

- Get more people involved in CERT
- Promote CERT

Climate Change

- Do not allow developers to cut down trees and increase traffic

Communication

- Improve warning systems
- Provide quick emergency alert methods
- Provide public warnings

Community Preparedness

- Continue to encourage residents to be aware of the potential dangers and of ways to get prepared (people need to hear the message over and over again and with different language)
- Frequent reminders about the importance of being prepared - along with lists of the best preparations would be helpful
- Get us a local police station!
- Hand out disaster kits
- I think local governments can educate and take on the role of distributing (for fees) disaster preparedness kits. It's a win-win for everyone for something like this to happen.
- Low cost supplies (similar to the compost bins available to us via our trash disposal company)
- Provide a list of recommended supplies each household should have as well as an easy place to get those supplies.
- Perhaps household inspections to assist the unknowledgeable in preparing-checklists
- Prepare emergency kits and sell them and deliver them so all the supplies are in one place
- Provide and update kits, training, home assessments, and a fund for low cost preparations

Debris Mitigation and Removal

- Major canyons roads have insufficient structural reinforcements (like K-rails and metal chains) to keep the roads clear of sharp rocks and similar hazards
 - The road debris generated from every rain/wind storm ruins the daily commute of too many vehicles with flat tires (and worse)

Evacuation / Evacuation Routes

- Create, advertise, and enforce an evacuation plans for key egress routes
- Do not overdevelop near the only means of escape in the event of disaster, especially major egress routes and in areas where escape options are limited (such as mountain areas)
- Ensure access for emergency vehicles to enter our community, in particular areas where there is only one road in-and-out
- Government can ensure that the roadways are open for traffic to exit the areas of danger in all possible directions and keep traffic moving at a reasonable pace - too much traffic will clog the roads and increase the danger
- Identify evacuation centers in each area and map ways to access them if regular routes are cut off and make pet care part of the plan
- Implement well planned egress and ingress to the community
- Implement better development and traffic control
- Keep the PCH unblocked and accessible for those with livestock relocation
- Keeping roads cleared and safe
- Promote sustainable development, avoid high density projects along the escape routes, and keep development to a minimum along major evacuation routes and freeway ramps

Financial Assistance

- Have more frequent city run classes for emergency preparedness (in addition to CERT)
- Provide financial assistance to help prepare supplies (First Aid kit, gas shut off tool/wrench, canned goods)

Flood Mitigation

- Provide proper drainage in Seminole Springs Mobile Home Park.

Information and Training

- Distribute flyers with suggestions (for disaster preparedness and mitigation)
- Have quarterly town meetings addressing disaster issues, i.e., fire, flood, earthquake etc.
- Hidden Hills should have a booklet that answers all questions and helps support in the event of an emergency with cooperation from all local schools and animal shelters (It would be nice to have one informative guide geared specifically for Hidden Hills residents)
- Implement media campaigns, celebrity spokespersons, training offers, and information stands at farmers market etc.
- Keep sharing information
- Keep talking about disaster preparedness and mitigation...don't just do it with the Cal Shake Out or in the fall with the Santa Ana Winds (communicate all year long as often as possible)
- Local governments need to harness the power of visual clarity and efficient messaging to prepare for disasters (this has been used extremely effectively in other countries)
- Make people aware of website/Facebook/Twitter resources for up-to-the-minute information and updates during a disaster (Fire depts and the Sheriff are good at this)
- Make sure disaster notification systems work
- More education on what to do in different types of disasters, offered through community meetings at the town halls and on the Internet (online information that can be easily accessed is critical)

- More information on:
 - What is the warning system for alerting residents in case of a power outage?
 - How do you warn residents who are very hard of hearing?
 - How can swimming pool water be used by our fire fighters? Our friends in Ventura lost homes in part because the water pressure was so low
- More meetings to discuss actions to be taken to mitigate and prepare for disasters
- More public outreach and educational presentations by first responders
- Periodic newsletters
- Prepare local and neighborhood disaster relief information with contact and local shelters geared towards communities
- Provide extra funds for the Fire Departments for info campaigns
- Provide handouts listing each type of disaster and what you need to keep on hand for them: List for various types of families (with kids, with elderly, adults, singles, etc.) and show how to be prepared at home and away from home without buying expensive kits...DIY's instead
- Provide a list of planned shelters to go to in case of emergencies and be able to keep it with your supplies - make this a part of each city event, not just a once a year (just like how LVMWD shows up to everything, the cities should do this at each event)
- Provide more information
- Provide seminars on disaster preparedness and mitigation
- Send Emails to residents and have presentations/ information nights, create a PDF presentation on how to prepare for a disaster and send the link out
- Send information with utility bills for steps to take and align with businesses who can assist in preparations to make it easier and less expensive
- Send out pamphlets
- Teach people on how to turn off their gas valves
- This hazard survey is a good idea -it is always easy to put off getting more prepared
- Use survivors' stories to educate our communities (what kind of prep would have helped them most) and roll this out via the Fire Department (we all love and trust firefighters)
- Work together and provide workshops with the whole Malibu/Hidden Hills, Santa Monica Mountain areas so that there is a comprehensive plan that the entire area is informed of

Power Outage Mitigation

- Make sure the power supply is not shut off (the Edison company says it is too expensive to put the wires underground like they are in most developed countries in the world but what is the cost in human lives if they shut off the power and people die?)
- Underground electrical power lines in critical areas

Wildfire Mitigation

- Improve brush clearance
- Purchase our own Super Scoopers and have them ready
- Less restrictions on ability to mitigate fire danger
- More planning for wildfires including better structure protection and evacuation plans.
- Have the police and fire departments examine plans for development in the mountains, the likelihood of a fire happening will be ten-fold due to increased development and visitors

- The City and County need to do a better job of protecting this area from wildfires (no campsites should be allowed in our mountains; especially given the drought conditions we have been experiencing for the last several years)
- The City should do everything it can to keep the MRCA and the SMMC from constructing campsites in our mountains which increase the wildfire risk
- The fire department needs to have controlled fires in the winter to alleviate fire danger near communities
- Focus on the most likely high-priority threats such as wildfires and earthquakes, not on unlikely events such as school shootings and terrorism

Other

- Support wildlife crossings (over freeways)
- Ban rat poison
- Support a statewide ban on automatic weapons
- Better manage and limit major new developments
- None, in my opinion - It is OUR responsibility to take steps to become better prepared, NOT the local Government's
- Show concern
- In Ventura, homes were lost because some fire hydrants did not work, ensure that ours are checked

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SECTION 17. ANNEX D: STEERING COMMITTEE / PLANNING GROUP HMP RISK ASSESSMENT SURVEY

The following Risk Assessment Survey was distributed to determine the relative risks associated with the major hazards identified in the Las Virgenes-Malibu Council of Governments area. The information was used to prioritize the threats to the region. Each hazard was rated in terms of probability (i.e. likelihood of occurrence), magnitude/severity, warning time, and duration. Ratings range from 1 (low) to 4 (high). The components of the formula are:

| Category | Degree of Risk | | | |
|-----------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|
| | Level ID | Description | Value | Weighting Factor |
| Probability | Unlikely | <ul style="list-style-type: none"> Extremely rare with no documented history of occurrences or events. Annual probability of less than 0.001. | 1 | 45% |
| | Possibly | <ul style="list-style-type: none"> Rare occurrences with at least one documented or anecdotal historic event. Annual probability that is between 0.01 and 0.001. | 2 | |
| | Likely | <ul style="list-style-type: none"> Occasional occurrences with at least two or more documented historic events. Annual probability that is between 0.1 and 0.01. | 3 | |
| | Highly Likely | <ul style="list-style-type: none"> Frequent events with a well-documented history of occurrence. Annual probability that is greater than 0.1. | 4 | |
| Magnitude/Severity | Negligible | <ul style="list-style-type: none"> Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical facilities for less than 24 hours. | 1 | 30% |
| | Limited | <ul style="list-style-type: none"> Slight property damages (greater than 5% and less than 25% of critical and non-critical facilities and infrastructure). Injuries or illnesses do not result in permanent disability and there are no deaths. Moderate quality of life lost. Shut down of critical facilities for more than 1 day and less than 1 week. | 2 | |
| | Critical | <ul style="list-style-type: none"> Moderate property damages (greater than 25% and less than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and at least one death. Shut down of critical facilities for more than 1 week and less than 1 month. | 3 | |
| | Catastrophic | <ul style="list-style-type: none"> Severe property damages (greater than 50% of critical and non-critical facilities and infrastructure). Injuries or illnesses result in permanent disability and multiple deaths. Shut down of critical facilities for more than 1 month. | 4 | |
| Warning Time
From the initial notification of a possible event to the actual occurrence of the event. | Less than 6 hrs | Self-explanatory. | 4 | 15% |
| | 6 to 12 hrs | Self-explanatory. | 3 | |
| | 12 to 24 hrs | Self-explanatory. | 2 | |
| | More than 24 hrs | Self-explanatory. | 1 | |
| Duration
From the start of the event to a return to normal conditions. | Less than 6 hrs | Self-explanatory. | 1 | 10% |
| | Less than 24 hrs | Self-explanatory. | 2 | |
| | Less than one wk | Self-explanatory. | 3 | |
| | More than one wk | Self-explanatory. | 4 | |

The final risk levels were estimated using the following equation and weighting scale:

$$\text{Risk} = (0.45 \times \text{Probability}) + (0.30 \times \text{Magnitude/Severity}) + (0.15 \times \text{Warning Time}) + (0.10 \times \text{Duration})$$

For the Las Virgenes-Malibu Council of Governments Region, the following estimates were developed. The final risk scores are shown in order of priority.

| Hazard | Probability | Magnitude or Severity | Warning Time | Duration | Risk |
|------------------------------------------|-------------|-----------------------|--------------|----------|------|
| Wildfire | 1.43 | 0.65 | 0.58 | 0.37 | 3.02 |
| Major Earthquake (M6.0 and above) | 1.13 | 0.70 | 0.60 | 0.38 | 2.81 |
| Power Outage / Energy Disruption | 1.13 | 0.60 | 0.53 | 0.30 | 2.55 |
| Severe Heat | 1.35 | 0.55 | 0.18 | 0.32 | 2.39 |
| Terrorism | 0.54 | 0.83 | 0.60 | 0.33 | 2.29 |
| Major Drought | 1.17 | 0.54 | 0.15 | 0.40 | 2.26 |
| Windstorm | 0.98 | 0.55 | 0.33 | 0.33 | 2.18 |
| Climate Change | 1.08 | 0.53 | 0.15 | 0.40 | 2.16 |
| Hazardous Materials Release | 0.68 | 0.55 | 0.60 | 0.25 | 2.08 |
| Storm Surge (Malibu) | 0.45 | 0.60 | 0.60 | 0.40 | 2.05 |
| Tsunami (Malibu) | 0.45 | 0.60 | 0.60 | 0.40 | 2.05 |
| Landslide or Mudslide | 0.72 | 0.54 | 0.42 | 0.28 | 1.96 |
| Severe Winter Storm | 0.63 | 0.60 | 0.19 | 0.35 | 1.77 |
| Flood | 0.53 | 0.36 | 0.39 | 0.22 | 1.50 |

Table 155: Risk Ratings

*There are 2 types of power outages, Planned and Unplanned. A planned power outage will come with 48 hours of warning and an unplanned power outage comes with no warning.

SECTION 18. ANNEX E: PLANNING AND PUBLIC INVOLVEMENT

PLANNING

Representatives from each city within the Las Virgenes-Malibu Council of Governments regularly meet to discuss mitigation efforts and plan future activities. As members of Disaster Management Area B, each city participates in quarterly planning meetings as well as post-DMA meetings with LVMCOG member cities (see **Annex B: Meeting Agendas and Attendees** section for details).

PUBLIC PARTICIPATION AND INVOLVEMENT

The public participated in the original Multi-Jurisdictional Hazard Mitigation Plan (HMP) and each subsequent update. Public participation was enabled through a variety of means that included:

- An online Disaster Preparedness Risk Survey
- Public Service Announcements (PSAs) and City Web Pages
- City Council Meetings
- Public Forums and Workshops

Community Disaster Preparedness and Risk Survey

A survey was published via city websites, social media platforms, public workshops, and during community training events to allow members of the community to provide their input on local area hazards, preparedness efforts, suggestions for mitigation and improvement, and the historic consequences of disasters. The data gathered was used to help local officials better plan for disasters and was a vital component in further developing local mitigation efforts that are designed to help reduce the risk of loss to lives and property. A total of 119 completed surveys were received. The results of the survey are provided in **Annex C Community Disaster Preparedness and Risk Survey**.

Public Service Announcements and City Web Pages

In addition to the Community Disaster Preparedness and Risk Survey, each city distributes Emergency and Disaster Mitigation information via their websites, city-operated television channels, and social media platforms. Copies of the Multi-Jurisdictional Hazard Mitigation Plan are made available on each City's website. The public is invited to download and review the plans and provide their comments. Furthermore, the public is invited to participate in mitigation and training events (as applicable) during the year (see **Public Emergency Preparedness and Mitigation Workshops** section below).

City Council Meetings

Each City Council reviewed and adopted the original Multi-Jurisdictional Hazard Mitigation Plan and this update. During City Council meetings, members of the public were invited to provide their feedback and comments regarding the HMP.

Public Emergency Preparedness and Mitigation Workshops

National Preparedness Month

The annual National Preparedness Month is held every September. The cities within the LVMCOG utilize this month to further promote public awareness, disaster preparedness, and mitigation planning in the community.

For example, the City of Malibu conducts a major Safety and Preparedness Expo that includes displays and various programs to educate the public, obtain public participation, and further promote mitigation efforts.

Figure 104: Safety and Preparedness Expo Announcement - City of Malibu

CERT Programs

Each city has established Community Emergency Response Team programs that encourage preparedness, planning, and mitigation. These teams meet on a regular basis at the neighborhood level. The CERT training program was developed by the Federal Emergency Management Agency (FEMA) and modeled after the original 1985 programs used by the City of Los Angeles Fire Department. The purpose of the CERT program is to create a well-trained citizen emergency work force which is vital in the immediate aftermath of disaster situations when the number and scope of incidents overwhelm conventional emergency services. During CERT meetings, local residents are trained in various skills to better respond to disasters. These meetings are also used to share information on preparedness and mitigation planning.

Figure 105: City of Agoura Hills CERT

Figure 106: City of Calabasas CERT



Figure 107: City of Hidden Hills CERT



Figure 108: City of Malibu CERT

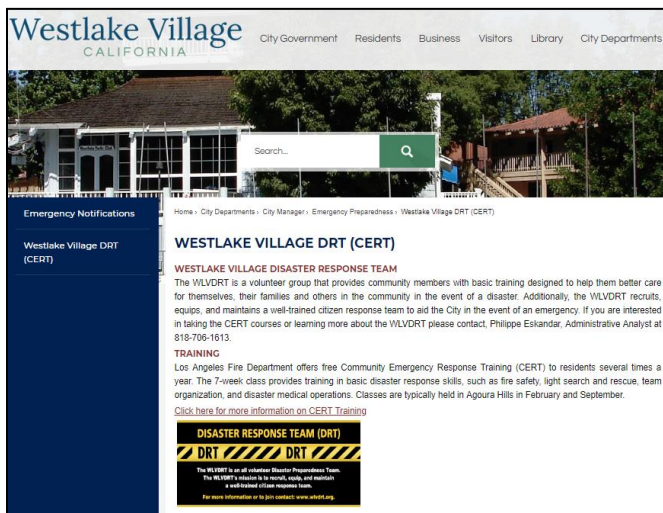


Figure 109: City of Westlake Village CERT

Preparedness and Mitigation Planning Workshops

On August 22, 2018 a public forum was held at the City of Calabasas to obtain public input to the Hazard Mitigation Plan from all residents of the 5 cities represented by the LVMCOG. The meeting Agenda was as follows:

Agenda

- Hazard Mitigation Plan Background
- 2018 Hazard Mitigation Survey Review and Discussion
 - Major Risks and Concerns
 - Personal Preparedness & Mitigation Examples
 - Mitigation Suggestions
 - Community Outreach & Public Information Ideas
- Questions

The main feedback and results received during the meeting included:

- The attendees agreed with the results and that wildfire was a primary concern especially since all the communities within the LVMCOG have a high potential for wildfire.
- Mitigating the risk of wildfire in only one community will not be effective unless all communities including those outside the LVMCOG mutually coordinate their efforts since fire can rapidly spread across city borders.
- Wildland areas managed by Los Angeles County, the State of California, and foundations such as the Santa Monica Mountains Conservancy are major wildfire risk areas that need to be included in fire prevention and mitigation efforts.
- There is a need for evacuation planning, debris removal plans, and efforts to ensure that egress routes out of evacuation areas are kept clear during a disaster as well as a need to ensure ingress routes by local fire responders.
- There is a concern about the recent notices issued by Southern California Edison (SCE) that local power could be shut-off during high risk fire periods. While the regulations and procedures for the emergency system shut-downs have been in place for years, many residents were not aware of it. Importantly, attendees were concerned about the impact on people that depend on electricity for home-based medical devices as well as the need for air conditioning during high-heat periods. Consequently, plans are needed to address the critical power needs of the community.
- The topic of how people are most influenced to prepare for disasters was also discussed. The survey indicated that the greatest influencers were family members and other sources such as CERT programs and personal experience (it was noted that the survey responses likely lacked input from younger people who are more likely to receive their information via social media than the survey indicated).

Based on the input from the group, the following mitigation and disaster preparedness ideas were generated during the meeting.

| Category | Mitigation and Preparedness Idea |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Public Awareness | <ul style="list-style-type: none"> • Increase the use of Instagram to better connect to school age children and young adults • Use a multi-prong approach that incorporates different social media platforms for different age groups: <ul style="list-style-type: none"> ○ Instagram for grade school and middle school ages ○ Twitter for high school and college ages ○ Facebook for post college adults |
| CERT | <ul style="list-style-type: none"> • Develop a youth focused disaster preparedness program similar to CERT for middle school and high school groups to encourage disaster awareness and mitigation efforts <ul style="list-style-type: none"> ○ Westlake Village noted that they have done similar efforts in the past and have had these types of youth groups participate in local council meetings ○ These types of youth programs may also include awards, medals, or other incentives to encourage participation • Use the “Map Your Neighborhood” program as a model to encourage neighborhood preparedness efforts (https://mil.wa.gov/emergency-management-division/preparedness/map-your-neighborhood) |
| Wildfire Mitigation | <ul style="list-style-type: none"> • Add “No Smoking” signage on local trails and further enforce no smoking and campfire regulations (not always controlled by the city but requires Los Angeles County and State of California action) • Work with SCE to further implement underground power line installations and/or efforts to replace above ground lines with underground lines |

On May 18, 2018 the City of Agoura Hills held its annual “Public Safety Day” at Fire Station 89. At the event, the public was provided with disaster preparedness information as well as other information to help prepare for future disasters. An additional program was held September 29, 2018 at the Safety & Preparedness Expo sponsored by the City of Malibu. At the Expo, the public was provided with disaster preparedness information as well as ideas for mitigation to minimize the impact of future disasters to the community.

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