

SECTION 15. 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 or Reference	Description
2018 Defining Vulnerable Communities in the Context of Climate Adaptation	State Government	http://opr.ca.gov/planning/icarp/	Climate Change Program and Data
A History of Significant Weather Events in Southern California - Organized by Weather Type (Feb 2023)	Research, Educational, and Standards Organizations	www.weather.gov/media/sgx/documents/weatherhistory.pdf	Flood and Landslide Data
Adapting to Rising Tides, Bay Conservation and Development Commission (BCDC) and Metropolitan Transportation Commission/Association of Bay Area Governments (MTC/ABAG)	Research, Educational, and Standards Organizations	https://www.adaptingtorisingtides.org/wp-content/uploads/2020/03/ARTBayArea_Short_Report_Final_March2020_ADA.pdf	Sea Level Rise Vulnerability
American Geosciences Institute	Research, Educational, and Standards Organizations	https://www.americangeosciences.org/critical-issues/faq/how-much-do-landslides-cost-terms-monetary-losses	Landslide Losses
Army Corps of Engineers	Federal Government	www.usace.army.mil	Flood and Dam Information
Associated Press	News	Weber, Christopher (March 14, 2019). "Report: Power lines sparked massive Southern California fire". AP NEWS. Retrieved March 14, 2019	Power Outage
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 Assessment	State Government	https://www.climateassessment.ca.gov/state/overview/	Climate Change Data
California Coastal Commission	Regulatory Agency	https://www.coastal.ca.gov/climate/slr/ https://documents.coastal.ca.gov/assets/climate/slr/vulnerability/13_LosAngeles.pdf	Sea Level Rise Data
California Department of Conservation	State Government	https://cadoc.maps.arcgis.com/apps/webappviewer/index.html?id=bc48ad40e3504134a1fc8f3909659041	ArcGIS Landslide Map

Name	Category	Web Site Address or Reference	Description
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 Environmental Protection Agency	State Government	https://oehha.ca.gov/media/downloads/climate-change/document/2022caindicatorsreport.pdf	Climate Change Data
California Geological Survey, Department of Conservation	State Government	www.consrv.ca.gov https://www.conservation.ca.gov/cgs/tsunami/maps#counties	Earthquake Information Tsunami Maps
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 Legislative Analyst's Office	State Government	https://lao.ca.gov/reports/2020/4261/sea-level-rise-081020.pdf	Sea Level Rise Data
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 Public Utilities Commission	Regulatory	https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/infrastructure/electric-reliability/electric-system-reliability-annual-reports	Power Outage Data
California Resources Agency	State Government	www.resources.ca.gov	Earthquake information
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
Center for Disease Control and Prevention (CDC)	Federal Government	https://www.cdc.gov/flu/pandemic-resources/planning-preparedness/global-planning-508.html	Pandemic Continuum
Center for the Blue Economy, Middlebury Institute of International Studies at Monterey	Research, Educational, and Standards Organizations	https://www.middlebury.edu/institute/sites/www.middlebury.edu/institute/files/2018-07/4.4.18.Final%20San%20Diego%20Vulnerability%20Report.pdf	Sea Level Rise Economic Vulnerability

Name	Category	Web Site Address or Reference	Description
City of Agoura Hills	Local Government	www.ci.agoura-hills.ca.us	Local Profile, Planning, Hazard, Mitigation Information, and General Plan
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-development-summaries	Commercial and Residential Development Projects, 2018
City of Calabasas	Local Government	www.ci.calabasas.ca.us	Local Profile, Planning, Hazard, Mitigation Information, and General Plan
City of Hidden Hills	Local Government	www.hiddenhillscity.org	Local Profile, Planning, Hazard, Mitigation Information, and General Plan
City of Malibu	Local Government	www.malibucity.org	Local Profile, Planning, Hazard, Mitigation Information, and General Plan
City of Westlake Village	Local Government	www.wlv.org	Local Profile, Planning, Hazard, Mitigation Information, and General Plan
Comprehensive Annual Financial Report 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 for the City of Calabasas	City Data	www.cityofcalabasas.com/pdf/documents/finance/cafrs/cafr-2017.pdf	City Data (including employer and revenue data)
Comprehensive Annual Financial Report for the City of Malibu	City Data	www.malibucity.org/317/Financial-Reports	City Data (including employer and revenue data)
Comprehensive Annual Financial Report for the City of Westlake Village	City Data	www.wlv.org/158/Administrative-Services-Financial-Manage	City Data (including employer and revenue data)
Data Commons	Federal Government	https://datacommons.org	City and Regional Demographic data
Department of Homeland Security	Federal Government	www.dhs.gov	Terrorism Response, Preparedness, and Threats
ESRI	Research, Educational, and Standards Organizations	ArcGIS	Hazard Mapping
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

Name	Category	Web Site Address or Reference	Description
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 Standards Organizations	www.firewise.org	Fire / Wildfire Mitigation and Programs
Fresno Bee	News Organization	www.fresnobee.com	History of Wildfires in California
Global Health Institute Duke	Research, Educational, and Standards Organizations	https://globalhealth.duke.edu/news/statistics-say-large-pandemics-are-more-likely-we-thought#:~:text=It%20found%20the%20probability%20of%20experiencing%20one%20by%20now	Pandemic Likelihood
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 Code of Ordinances	Local and Regional Government	https://library.municode.com/ca/los_angeles_county/codes/code_of_ordinances?nodeId=LOS_ANGELES_CODE_CODE	Building Codes, Permits, and Grading
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 Health Department	Local and Regional Government	http://publichealth.lacounty.gov/media/coronavirus/locations.htm	Pandemic Data
Los Angeles County Public Works Department	Local and Regional Government	www.ladpw.org	Earthquake and Debris Removal Information

Name	Category	Web Site Address or Reference	Description
Los Angeles Safety and Enforcement Division, Electric Safety and Reliability Branch	Local and Regional Government	https://www.cpuc.ca.gov/-/media/cpuc-website/divisions/safety-and-enforcement-division/investigations-wildfires/sed-investigation-report---woolsey-fire---redacted.pdf	Investigation Report of the Woolsey Fire
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 Center for Biotechnology Information (NCBI)	Federal Government	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9175207/ https://www.ncbi.nlm.nih.gov/books/NBK143061/	Pandemic Contributing Factors and Phases
National Drought Mitigation Center	Research, Educational, and Standards Organizations	University of Nebraska-Lincoln	Climate Change Data
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 https://www.fema.gov/openfema-data-page/fima-nfip-redacted-claims-v2 https://nfipservices.floodsmart.gov/reports-flood-insurance-data https://msc.fema.gov/portal/home	Flood Information, Maps, and Flood Claim Status
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
National Oceanic and Atmospheric Administration (NOAA)	Federal Government	www.noaa.gov https://coast.noaa.gov/slr/#/layer/vul-soc/0/-13212283.270492423/4033715.0625395617/15/satellite/none/0.8/2050/interHigh/midAccretion https://www.climate.gov/maps-data/dataset/sea-level-rise-map-viewer	Weather and Climate Data Sea Level Rise Data
National Park Services (NPS)	Federal Government	https://www.nps.gov/samo/learn/management/2018-woolsey-fire.htm	Woolsey Fire Burn Area

Name	Category	Web Site Address or Reference	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 – National Centers for Environmental Information (NCEI)	Federal Government	www.ncei.noaa.gov/access/monitoring/us-trends/tmax/jun www.climate.gov/news-features/understanding-climate/climate-change-global-temperature-projections https://toolkit.climate.gov/	Climate Change Data
NOAA – National Climate Data Center (NCDC)	Federal Government	https://www.ncdc.noaa.gov/IPS/lcd/lcd.html?page=0&state=CA&target1=Next+%3E	Climate Change Data
NOAA Office for Coastal Management	Federal Government	https://coast.noaa.gov/slr/#/layer/fld/0/-13215206.258759653/4033933.377858944/13/satellite/none/0.8/2050/interHigh/midAccretion	Climate Change Data
Office of the Attorney General (OAG)	Federal Government	https://oag.ca.gov/news/press-releases/california-department-justice-closes-criminal-investigation-woolsey-fire	Woolsey Fire Evacuation 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

Name	Category	Web Site Address or Reference	Description
Southern California Edison Annual Electric Reliability Report	Utility	SCE Annual Electric Reliability Report 2022	Power Outage Data
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
Southern California Seismic Network	Research, Educational, and Standards Organizations	http://www.scsn.org	Earthquake and Fault Information
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
The White House	Federal Government	https://www.whitehouse.gov/covidplan/#prepare	National COVID-19 Preparedness Plan
U.S. Census Bureau	Federal Government	www.census.gov www.census.gov/quickfacts https://www.census.gov/cgi-bin/geo/shapefiles/index.php	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
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 https://www.usgs.gov/programs/landslide-hazards/science/hazard-and-risk-assessments	Earthquake Information and SAFRR Tsunami Scenario Study (2013) Landslide Data
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. Geological Survey-Woolsey Fire	Federal Government	https://landslides.usgs.gov/static/landslides-realtime/fires/20181108_woolsey/image.pdf	Woolsey Fire Map (2018)
U.S. State Department	Federal Government	www.state.gov/j/ct/list/c14151.htm	Terrorism Information

Name	Category	Web Site Address or Reference	Description
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://wrcc.dri.edu/my/climate/tracker/CA https://wrcc.dri.edu/Climate/comp_tables.php https://www.dri.edu/updated-california-climate-tracker-tool-provides-more-than-120-years-of-climate-data/	Climate Data
Western States Seismic Policy Council (WSSPC)	Research, Educational, and Standards Organizations	www.wsspc.org	Earthquake Information
World Health Organization (WHO)	Research, Education, and Standards Organizations	https://covid19.who.int/	Pandemic Data

SECTION 16. 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.

DISASTER MANAGEMENT AREA B MEETING

BOARD ONLY MEETING

MINUTES MAY 25, 2023 9:00 AM TO 10:30 AM CITY OF WESTLAKE VILLAGE

MEETING CALLED BY	Standing Area B Meeting
TYPE OF MEETING	Board Meeting Only
CHAIR/FACILITATOR	Roger Willcox, City of Santa Clarita
TREASURER/FISCAL AGENT REP	Debbie Larson, City of Calabasas
NOTE TAKER	Deb Pedrazzoli
ATTENDEES	<p>BOARD MEMBERS (Voting) PRESENT: Caleb Mott – City of Westlake Village, Administrative Analyst (Alternate) Chantelle Limon – City of Hidden Hills, Administrative Analyst Debbie Larson - City of Calabasas, Public Safety Coordinator John (JT) Treichler - City of Agoura Hills, Administrative Analyst Roger Willcox – City of Santa Clarita, Emergency Services Analyst Sarah Flores – City of Malibu, Emergency Services Coordinator</p> <p>BOARD ALTERNATES (Non-Voting) PRESENT: Mike Dyer – City of Calabasas, Public Safety and Emergency Preparedness Manager (Alternate)</p> <p>DMAC PRESENT: Deb Pedrazzoli – Area B Disaster Management Area Coordinator (DMAC)</p> <p>AGENCY PARTNERS or other MEMBER CITY STAFF PRESENT: N/A</p> <p>GUESTS PRESENT: N/A</p> <p>BOARD MEMBERS NOT PRESENT: Arpen (Amy) Shadkamyian – City of Palmdale, Emergency Services Administrator Andrew Noga - City of Lancaster, Manager of Code Enforce and Emergency Services (Alternate) Ashu Palta – LACo Office of Emergency Management (OEM), Program Manager John Felkins – City of Lancaster, EOC Coordinator III Kerry Kallman – City of Hidden Hills, City Manager (Alternate) Leslie Luke – LACo Office of Emergency Management (OEM) Deputy Director (Alternate) Louis Celaya - City of Agoura Hills, Deputy City Manager (Alternate) Matthew Harris – City of Palmdale, Buyer (Alternate) Mike Woodard – City of Hidden Hills, Emergency Services Coordinator (Alternate) Philippe Eskandar – City of Westlake Village, Deputy City Manager Susan Duenas – City of Malibu, Public Safety Director (Alternate)</p> <p>TBD – City of Santa Clarita (Alternate)</p> <p><input type="checkbox"/> Indicates - Remote Board Member - Participation via On-Line Conference Capability <input type="checkbox"/> Indicates – Remote Board Member – Participation via Telephone Conference Call <input type="checkbox"/> Indicates – Remote Board Member – Participation via E-Mail</p>

Agenda topics

INTRODUCTIONS

DEB P

DISCUSSION	The Board Meeting was called to order at 9:12am.		
CONCLUSIONS	The meeting had been rescheduled to today May 25 th due to training conflicts on the 18 th . First in-person board meeting since March 2020 due to Covid pandemic.		
ACTION ITEMS		PERSON RESPONSIBLE	DEADLINE
N/A		N/A	N/A

CONSENT CALENDAR

DEB P

DISCUSSION	<p>Minutes:</p> <ul style="list-style-type: none"> Approval of the April 20, 2023 meeting minutes. <p>Bank Statements:</p> <ul style="list-style-type: none"> Acceptance of the Apr reconciled Bank of America-0100 Checking Account Statements. Acceptance of the Apr reconciled Wells Fargo-5927 Savings Account Statements. <p>Expenditure Report:</p> <ul style="list-style-type: none"> Approval of the Expenditure Report. Copies of expenditures were submitted for the file. <ul style="list-style-type: none"> DMAC Invoice and Activity Log for Apr. <p>FY2022-2023 Financial Statement:</p> <ul style="list-style-type: none"> Approval of the FY 2022-2023 Financial Statement as of 5-25-23. <p>EMPG FY22 Grant:</p> <ul style="list-style-type: none"> Acceptance of the EMPG FY22 Monthly Budget Report as of 5-25-23. EMPG FY22 Monthly Cities EM Activities Report not included. Needs reworking due to the required Pay Rate report for match. <p>Meeting Attendance:</p> <ul style="list-style-type: none"> Acceptance of meeting roster from Apr 20, 2023 meeting. <p>DRAFT 2023-2024 Budget (approval deadline Jun):</p> <ul style="list-style-type: none"> Acceptance of Draft-3 for review purposes only. <p>Guzman and Gray CPAs Year Ending Jun 2023 Audit:</p> <ul style="list-style-type: none"> Approval of Engagement letter. 		
CONCLUSIONS	Motion to approve the Consent Calendar items was made by Chantelle L., seconded by JT., and unanimously approved.		
ACTION ITEMS	PERSON RESPONSIBLE	DEADLINE	
N/A	N/A	N/A	

BOARD OPEN ITEMS

BOARD

<p>DISCUSSION</p>	<p>Expenditure Report – Check(s) execution:</p> <ul style="list-style-type: none"> • Distribution of one (1) check: DMAC; Debbie L. will mail. <p>Treasurer check reserves (two checks) single signature check signing: no further action. Treasurer Bank Signature Card Review: Debbie L. to review listed signatures for possible update. Minutes Signing by Board Chair: Roger W. signed minutes during meeting.</p> <p>Annual Area B Financial Audit Year Ending 6-2023 (Guzman & Gray):</p> <ul style="list-style-type: none"> • Engagement letter approved in today’s consent calendar items. • Debbie L. executed letter for EMPG FY23 expense. 		
	<p>2023-24 DRAFT Budget (approval due in Jun):</p> <ul style="list-style-type: none"> • Draft-3 for review only was in today’s consent calendar items per the By-Laws. <p>EMPG FY17, FY18, FY19 County Audit of Areas 3-24-22:</p> <ul style="list-style-type: none"> • EMPG FY17-19 Exit Conference Call with Auditor – completed 4-18-23. <ul style="list-style-type: none"> ○ Monthly Timesheets and Pay Rate Reports are required for the match. ○ Area B corrective action is to begin collecting payroll docs July 2022. • Awaiting final reports. <p>EMPG FY22 (7-1-22 to 6-30-24; Area performance ends March 1, 2024)</p> <ul style="list-style-type: none"> • Allocation – received 10-27-22 \$129,599. • Application/Workbook – submitted 11-29-22. <ul style="list-style-type: none"> ○ Initial - allocation to Project A – Operating Expenses until modified. • Sub-Recipient Agreement – received 4-6-23; Area B executed 4-17-23 <ul style="list-style-type: none"> ○ Awaiting county council execution. • Performance Reports – Q1-3 submitted. Q4 due Jul. • Projects – <ul style="list-style-type: none"> ○ Project A – Operating Expenses from Jul 2022 through Jun 2023. ○ Project TBD? – not yet determined; estimated amount remaining \$49K. <ul style="list-style-type: none"> • CERT Instructor Training (JT) <ul style="list-style-type: none"> • Action Item: Deb P. to inquire who offers the T2. • CSTI Outreach Instructor (EMIC) Cert/Re-Cert Training (DMAC) <ul style="list-style-type: none"> • Deb P. reported there is an opportunity to partner with the other DMAs on this project. The four-day course is approximately \$40K for 25 seats, which is \$1,600.00 per person. <ul style="list-style-type: none"> ○ Action Item: Deb P. awaiting registration info. • Previously suggested <ul style="list-style-type: none"> • LA RICS Subscriptions (Susan D.) <ul style="list-style-type: none"> ○ Deb P. reported that as of 4-18-23 LA RICS is not currently set up to offer subscriptions – maybe Jul 203. Could be a good project for EMPG FY23. • Hand-held Radios (Philippe E.) <ul style="list-style-type: none"> ○ No further information. • Owl Labs WFA products (Area D) • Studio Spectrum Teleconferencing carts approx. \$3,800 (Area E) • SEMS Exec Mgmt. Course includes ICS 402 approx. \$12,250 (Debbie L.) • Emergency Management Concepts approx. \$49,000 (DMAC) • Match – starts 7-1-22 (HSGA recommends 15-20% overage). <ul style="list-style-type: none"> ○ Status - refer to Cities EM Activity Monthly Report to review status. ○ Action Item: Cities to provide monthly Pay Rate report starting from July 2022 through present and each month thereafter to be eligible for match. • Reimbursement – Q1-3 on hold pending eligible dollar-for-dollar match. <p>Equipment:</p> <ul style="list-style-type: none"> • Area B 2022 Equip Audit – Federal/State/County 2-year requirement. <ul style="list-style-type: none"> ○ Area B/City Ledgers dated/sent 9-7-22 supersedes any previously sent ○ Self-certifying 2-year audit due back from cities by 10-12-22. Include Supply Inventory Sheets for consumable items (ex. PPE). <ul style="list-style-type: none"> • Completed: AH, Cal, Lan • Incomplete: HH, Mal; please contact Deb P. for details. • Missing: Palm, SC, WLW • County Audit date TBD. • EMPG FY20 GZ – distribution of Area B Asset Tags - TBD 		
<p>CONCLUSIONS</p>	<p>N/A</p>		
<p>ACTION ITEMS</p>		<p>PERSON RESPONSIBLE</p>	<p>DEADLINE</p>
<p>N/A</p>		<p>N/A</p>	<p>N/A</p>

May 25, 2023 Area B continued

GENERAL MEETING

ALL

DISCUSSION	Welcome and Introductions:	
	<ul style="list-style-type: none"> • N/A. Board meeting only. 	
	Presenter/Speaker:	
	<ul style="list-style-type: none"> • N/A 	
	Topic of Interest:	
	Next General Meeting’s Presenter/Speaker/Topic of Interest:	
	<ul style="list-style-type: none"> • N/A 	
	DMAC Report:	
	<ul style="list-style-type: none"> • Reminder to return LACo DHS Expired/Expiring Prepositioned Antibiotics by deadlines. • List of upcoming training/exercise dates in agenda. • List of Cities with their Form 130 status – awaiting response from Cal OES • DLAN Interest to date – Lancaster, Malibu, Palmdale, Santa Clarita 	
CONCLUSIONS	N/A	
ACTION ITEMS	PERSON RESPONSIBLE	DEADLINE
Deb P. to reinstate Area B Quarterly LHMP Meetings starting Sep 2023.	Deb P.	Sep 2023

ROUNDTABLE

ALL

	<p>JT., City of Agoura Hills reported</p> <ul style="list-style-type: none"> • Planning – Pre-positioned antibiotics return to DHS/EMS Jun 1 • Planning – Multi-Jurisdictional (COG) LHMP update • Planning – CERT training by LACo FD starting in July for 7 weeks • Preparedness – Kick Off of Home Hardening Enhanced Program <p>Debbie L., City of Calabasas reported</p> <ul style="list-style-type: none"> • Planning – COOP • Planning – EOC TTX in Jun • Preparedness – conducted/completed EOC Ops/Logs training • Preparedness – attended Alert/Warning training • Mitigation – Santa Monica Mountains grant for dead tree removal • Recovery – Jan Storms <p>Chantelle L., City of Hidden Hills reported</p> <ul style="list-style-type: none"> • Planning – goats brush clearance for Jul • Planning – First Responder Appreciation Day for Jul • Preparedness – conducted/hosted CERT training program • Preparedness – conducted CERT team meeting with CPR/First Aid drill/exercise • Preparedness – conducted CERT team radio training <p>Sarah F., City of Malibu</p> <ul style="list-style-type: none"> • Planning – Public Safety Expo for Jun 10 • Planning – EOP update <p>Roger W., City of Santa Clarita</p> <ul style="list-style-type: none"> • Planning – EOC position job aids • Planning – DLAN as a possible EOC incident management software solution • Planning – SLACK as an instant messaging platform for leadership team • Planning – awarded LHMP grant; Haggarty Consulting Group • Planning – comprehensive facility maps for approximately 20 sites • Planning – CERT training program starting Jun7 for 26 attendees <p>Caleb M., City of Westlake Village reported</p> <ul style="list-style-type: none"> • Planning – EOP update • Planning – CERT team meeting on Jun21 • Planning – radio equipment inventory • Planning – radios new battery procurement
CONCLUSIONS	Motion to adjourn was made by Caleb M., seconded by Debbie L., and unanimously approved.

May 25, 2023 Area B continued

ACTION ITEMS	PERSON RESPONSIBLE	DEADLINE
N/A	N/A	N/A

OBSERVERS	N/A
RESOURCE PERSONS	N/A
SPECIAL NOTES	<p>11:15 AM MEETING ADJOURNED.</p> <p>Per Area B Meeting Schedule,</p> <ul style="list-style-type: none"> ○ Next Area B Meeting is a Board Only Go-To Meeting on June 15, 2023 9am-10:30am. <ul style="list-style-type: none"> ○ A quorum needs to be confirmed. ○ Board Members please notify Deb P. as soon as possible regarding availability. ○ No Area B Meetings are scheduled in July and August. ○ Next “In-person” Board Meeting followed by a City/Partner Agency Meeting – Thurs, Sep 21, 2023 <ul style="list-style-type: none"> ● City of Malibu City Hall ● Board Meeting 9am to 10:15am. ● City/Partner Agency Meeting 10:15am to 12noon. <p>Next Area B CWIRS Drill – Thursday, June 22, 2023, at 8:45am on Cities/CITY-ALL talk-group.</p> <ul style="list-style-type: none"> ● Due to programming, City-All is only available on P5100 Hand-held.

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LVMCOG HAZARD MITIGATION PLANNING GROUP MEETINGS

Project Kick-off Meeting

Date: June 1, 2023 3:15PM to 4:00 PM

Location: Zoom Meeting

SIGN IN

Name	City / Agency
JT Manwell	City of Agoura Hills
John Treichler	City of Agoura Hills
Michael Dyer	City of Calabasas
Debbie Larson	City of Calabasas
Michael Woodard	City of Hidden Hills
Susan Duenas	City of Malibu
Caleb Mott	City of Westlake Village
Terry Dipple	LVMCOG

Optional

Name	City / Agency
Louis Celaya	City of Agoura Hills
Nate Hamburger	City of Agoura Hills
Kindon Meik	City of Calabasas
Kerry Kallman	City of Hidden Hills
Steven McClary	City of Malibu
Rob de Geus	City of Westlake Village

MLC Team:

Name	Email
Bob Takemura	bob.takemura@mlchq.com
Shervin Ebrahimi	shervin.ebrahimi@mlchq.com
Jagger Raymondo	jagger.raymondo@mlchq.com
Odalis Tannehill	odalis.tannehill@mlchq.com

MEETING AGENDA

Purpose: The purpose of this project is to update the Multi-Jurisdictional Hazard Mitigation Plan (HMP) as per the 5-year requirement to maintain grant funding eligibility and comply with federal regulatory requirements:

- Stafford Act
- Disaster Mitigation Act
- Disaster Recovery Reform Act

To promote:

- Repetitive Loss Reduction
- Protection of Life and Safety
- Coordination of Mitigation Activities with Other Jurisdictions / Agencies
- Increased Public Awareness
- Improved Emergency Management (through mitigation efforts, planning, and coordination)

Topic	Time
Project Purpose	5 minutes
MLC Introduction and Project Team	5 minutes
Key Components of the HMP <ul style="list-style-type: none">• Approach• HMP Update Process• Project Timeline• SME Roles & Responsibilities• Focus on Mitigation	30 minutes
Q&A	5 minutes

Planning Group Meeting I

Date: July 13, 2023 11:00 AM to 12:00 PM

Location: Zoom Meeting

SIGN IN

Name	City / Agency
John Treichler	City of Agoura Hills
Louis Celaya	City of Agoura Hills
Michael Dyer	City of Calabasas
Debbie Larson	City of Calabasas
Kerry Kallman	City of Hidden Hills
Michael Woodard	City of Hidden Hills
Susan Duenas	City of Malibu
Caleb Mott	City of Westlake Village
Terry Dipple	LVMCOG

MLC Team:

Name	Email
Bob Takemura	bob.takemura@mlchq.com
Shervin Ebrahimi	shervin.ebrahimi@mlchq.com

MEETING AGENDA

Purpose: The purpose of the meeting is to provide an update on the current status of the project, discuss additional information required as well as obtain input and information from the Planning Group.

opic	Time
Project Status <ul style="list-style-type: none"> • Community Profile Updates • General Plan Reviews for Cal-OES Required HMP References • Risk Assessment Updates • Mitigation Project Updates • Hazard Survey 	25 minutes
Discussion <ul style="list-style-type: none"> • Strategies for New Mitigation Projects, including: <ul style="list-style-type: none"> ○ Climate Change (e.g., drought, flood, power outage, high heat, wildfire, etc.) ○ Socially Underserved Communities ○ Pandemic ○ Mass Casualty Events • Key City Contacts to Support the HMP Update and Mitigation Projects <ul style="list-style-type: none"> ○ Planning Departments ○ Building and Safety ○ Community Development ○ IT and GIS Mapping ○ Finance 	30 minutes
Recap	5 minutes

Planning Group Meeting II

Date: September 14, 2023 1:00 PM to 2:00 PM

Location: Zoom Meeting

SIGN IN

Name	City / Agency
John Treichler	City of Agoura Hills
Louis Celaya	City of Agoura Hills
Michael Dyer	City of Calabasas
Debbie Larson	City of Calabasas
City of Hidden Hills	City of Hidden Hills
Kerry Kallman	City of Hidden Hills
Susan Duenas	City of Malibu
Caleb Mott	City of Westlake Village
Terry Dipple	LVMCOG

MLC Team:

Name	Email
Bob Takemura	bob.takemura@mlchq.com
Shervin Ebrahimi	shervin.ebrahimi@mlchq.com

MEETING AGENDA

Purpose: To review progress on the HMP update including the HMP Survey, Community Profiles, and Previous Mitigation Projects. Also need to start planning for the public meeting tentatively scheduled for October.

Topic	Time
<p>Project Status and Discussion</p> <ul style="list-style-type: none"> • Hazard Survey <ul style="list-style-type: none"> ○ Number of Responses ○ Survey Results • Community Profile Updates <ul style="list-style-type: none"> ○ Updates and Revisions • Risk Assessment Updates <ul style="list-style-type: none"> ○ Completed Drafts <ul style="list-style-type: none"> ▪ Climate Change ▪ Energy Disruption ▪ Landslide / Debris Flow (e.g., Montecito) ○ 80% - 90% Complete <ul style="list-style-type: none"> ▪ Flood / Tsunami and Severe Winter Storm ▪ Severe Wind ▪ Terrorism / Mass Casualty Events ○ In Progress <ul style="list-style-type: none"> ▪ Pandemic ▪ Earthquake ▪ Wildfire • Mitigation Project Updates <ul style="list-style-type: none"> ○ Previous Projects – Feedback Received ○ New Projects (including Benefit / Cost Analyses) 	55 minutes
Recap	5 minutes

SECTION 17. ANNEX C: COMMUNITY DISASTER PREPAREDNESS AND RISK SURVEY

DISASTER PREPAREDNESS AND RISK SURVEY RESULTS

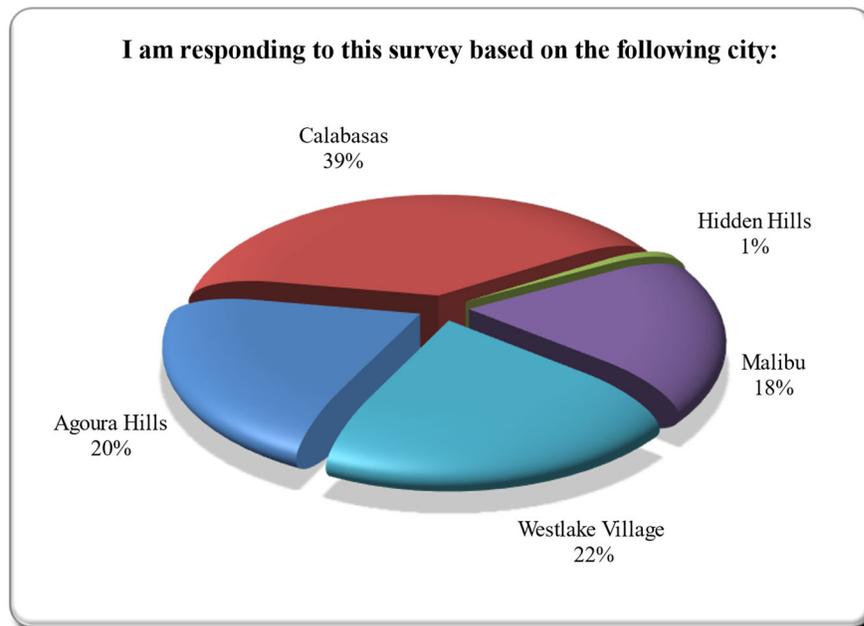
A Disaster Preparedness Risk Survey was used to encourage public participation in mitigation planning and provide input into the Hazard Mitigation Planning process. The survey included questions regarding perceived risks, actual losses, and mitigation activities.

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 social media platforms.

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. A total of 116 completed surveys were received. The results of the survey are provided below. In some cases, comments were summarized, consolidated, and edited for clarity.

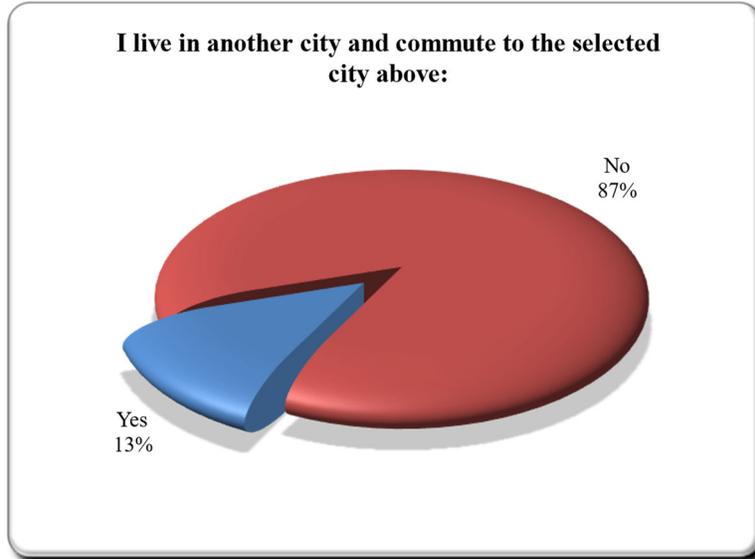
1. I am responding to this survey based on the following city:

Value	Count	Percent
Agoura Hills	23	20.2%
Calabasas	44	38.6%
Hidden Hills	1	0.9%
Malibu	21	18.4%
Westlake Village	25	21.9%



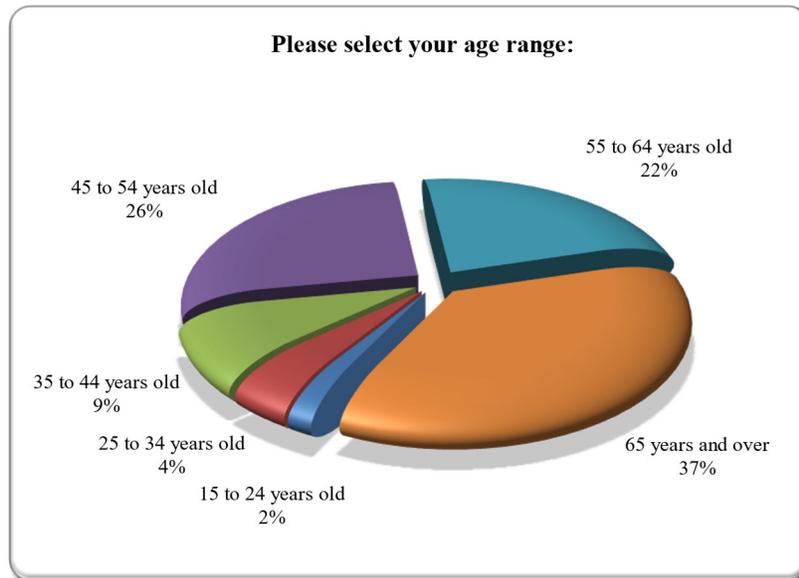
2. I live in another city and commute to the selected city above:

Value	Count	Percent
Yes	14	12.6%
No	97	87.4%



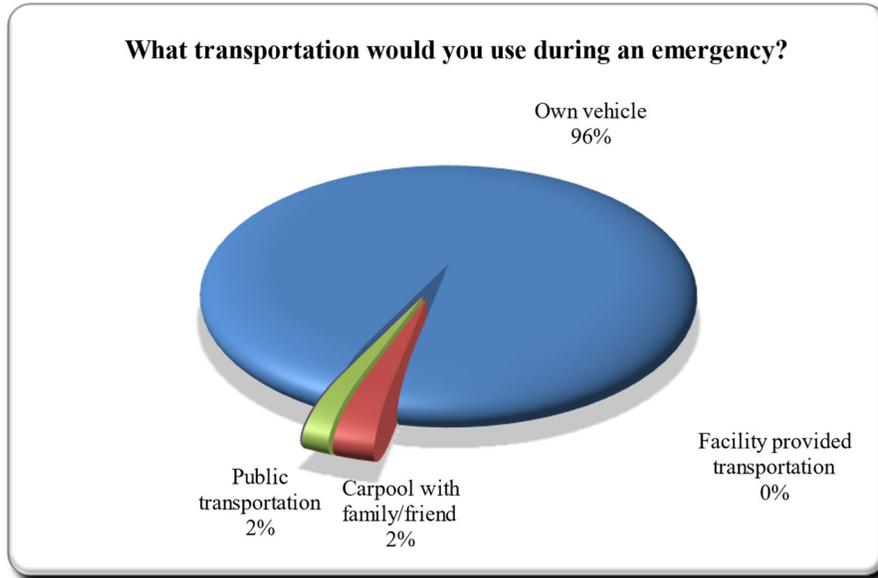
3. Please select your age range:

Value	Count	Percent
15 to 24 years old	2	1.7%
25 to 34 years old	5	4.3%
35 to 44 years old	10	8.6%
45 to 54 years old	30	25.9%
55 to 64 years old	26	22.4%
65 years and over	43	37.1%



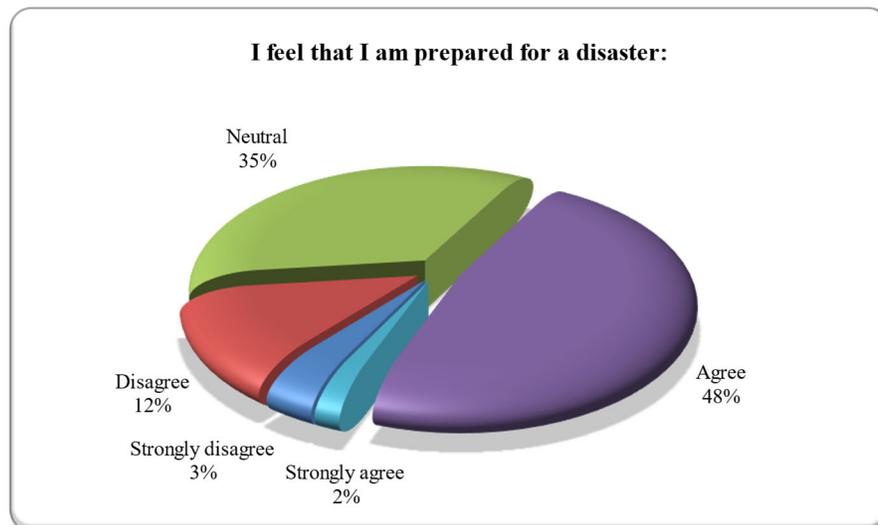
4. What transportation would you use during an emergency?

Value	Count	Percent
Own vehicle	111	95.7%
Carpool with family/friend	3	2.6%
Public transportation	2	1.7%
Facility provided transportation	0	0.0%



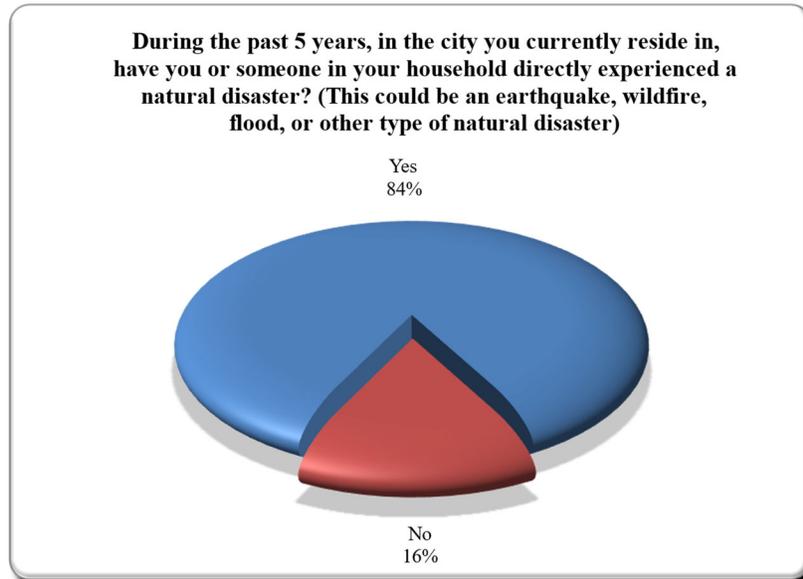
5. I feel that I am prepared for a disaster:

Value	Count	Percent
Strongly disagree	4	3.5%
Disagree	14	12.2%
Neutral	40	34.8%
Agree	55	47.8%
Strongly agree	2	1.7%



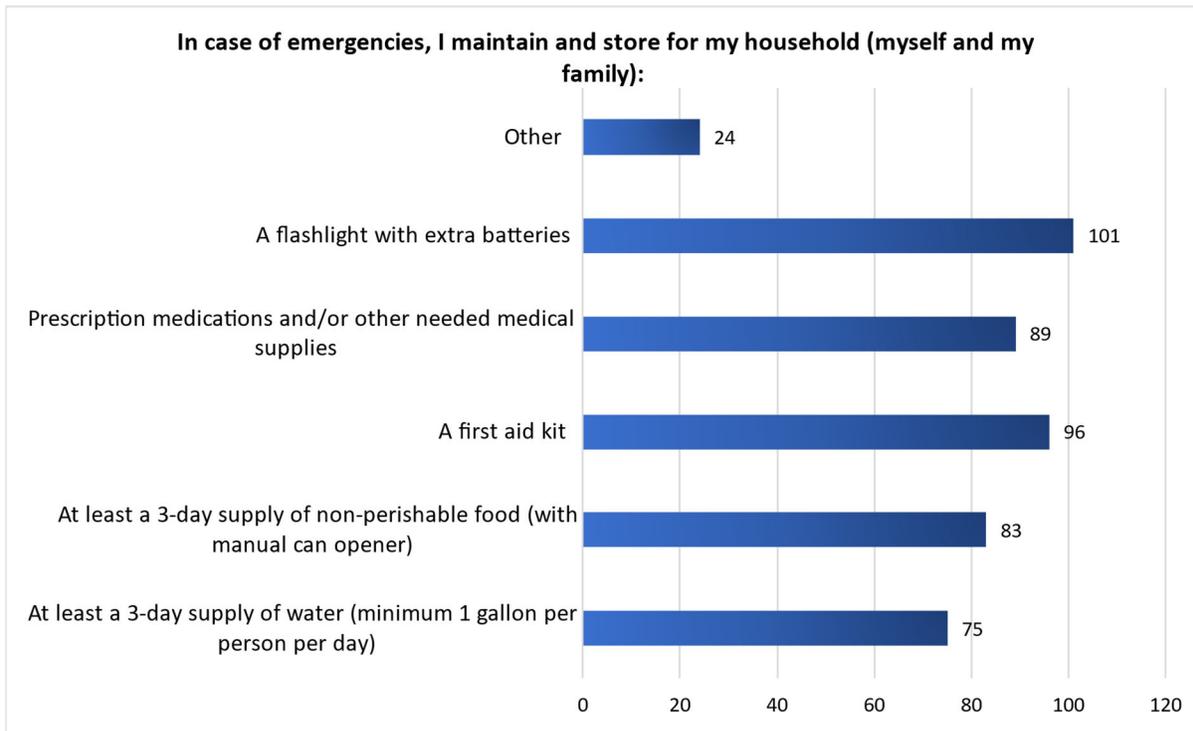
6. During the past 5 years, in the city you currently reside in, have you or someone in your household directly experienced a natural disaster? (This could be an earthquake, wildfire, flood, or other type of natural disaster)

Value	Count	Percent
Yes	97	84.3%
No	18	15.7%



7. 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)	75	64.7%
At least a 3-day supply of non-perishable food (with manual can opener)	83	71.6%
A first aid kit	96	82.8%
Prescription medications and/or other needed medical supplies	89	76.7%
A flashlight with extra batteries	101	87.1%
Other	24	20.7%

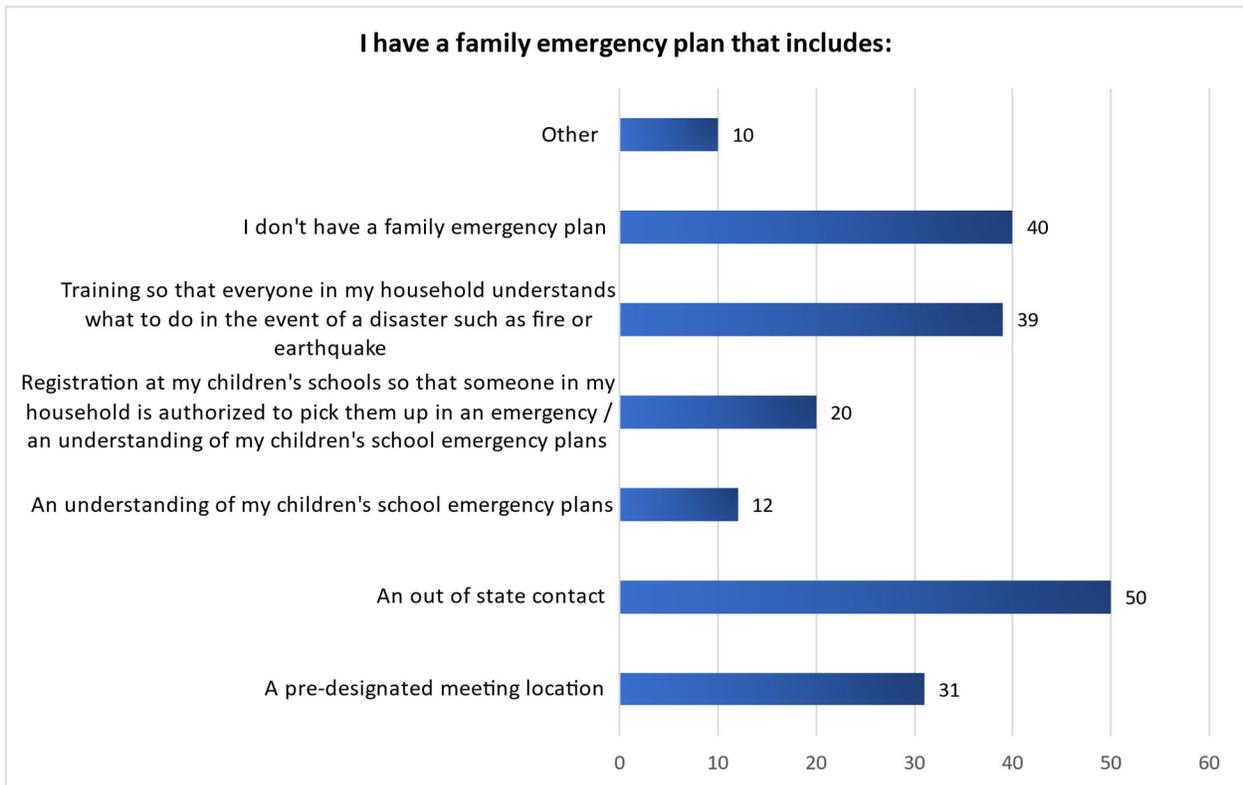


Other emergency items include:

- Bins with Emergency Equipment
- Batteries
- Blankets
- Candles
- Camping gear
- Clothes
- Fire hose
- Generator (various sizes)
- Grab and Go Bag
- Items that don't use electricity or gas that help with food prep and water cleanliness
- Liquid Supplies (other than water)
- List of Items to Grab
- Pet Supplies
- Portable Charger
- Portable Stove
- Pool Pump
- Radio (solar or crank)
- Shelter-in-Place Kit (based on CERT class)
- Whistle

8. I have a family emergency plan that includes:

Value	Count	Percent
A pre-designated meeting location	31	27.2%
An out of state contact	50	43.9%
An understanding of my children's school emergency plans	12	10.5%
Registration at my children's schools so that someone in my household is authorized to pick them up in an emergency / an understanding of my children's school emergency plans	20	17.5%
Training so that everyone in my household understands what to do in the event of a disaster such as fire or earthquake	39	34.2%
I don't have a family emergency plan	40	35.1%
Other	10	8.8%

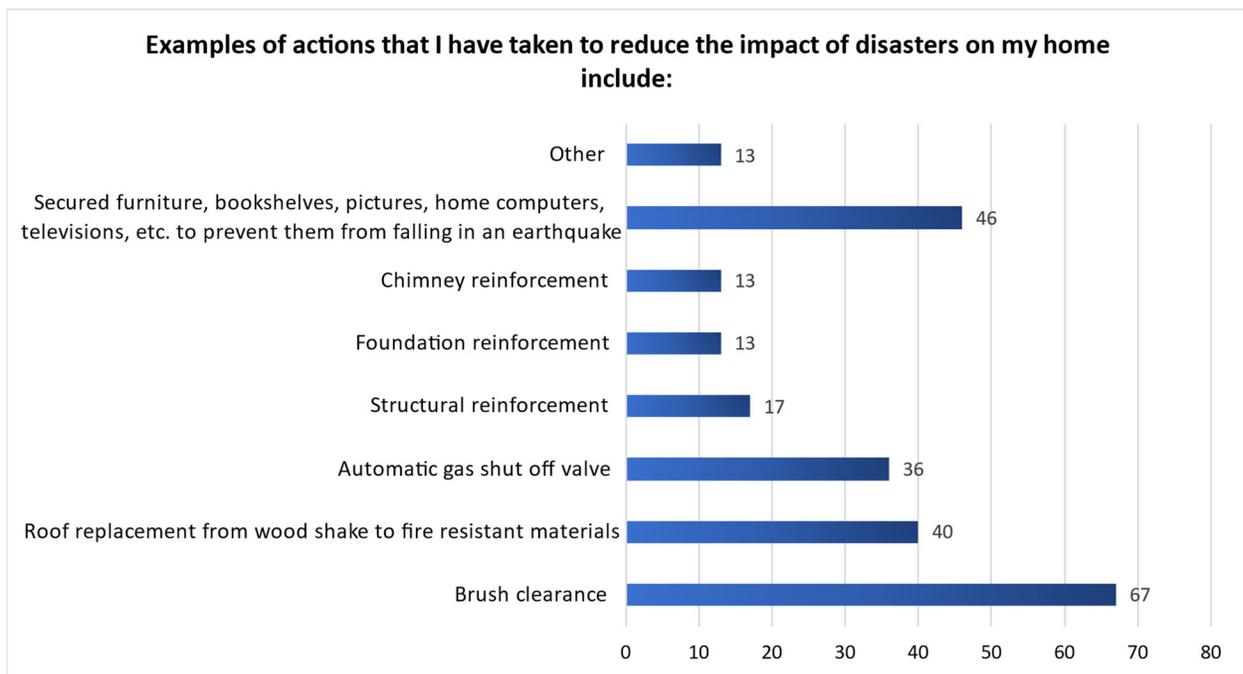


Other emergency plans include:

- Extinguishing home during a fire

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

Value	Count	Percent
Brush clearance	67	69.8%
Roof replacement from wood shake to fire resistant materials	40	41.7%
Automatic gas shut off valve	36	37.5%
Structural reinforcement	17	17.7%
Foundation reinforcement	13	13.5%
Chimney reinforcement	13	13.5%
Secured furniture, bookshelves, pictures, home computers, televisions, etc. to prevent them from falling in an earthquake.	46	47.9%
Other	13	13.5%

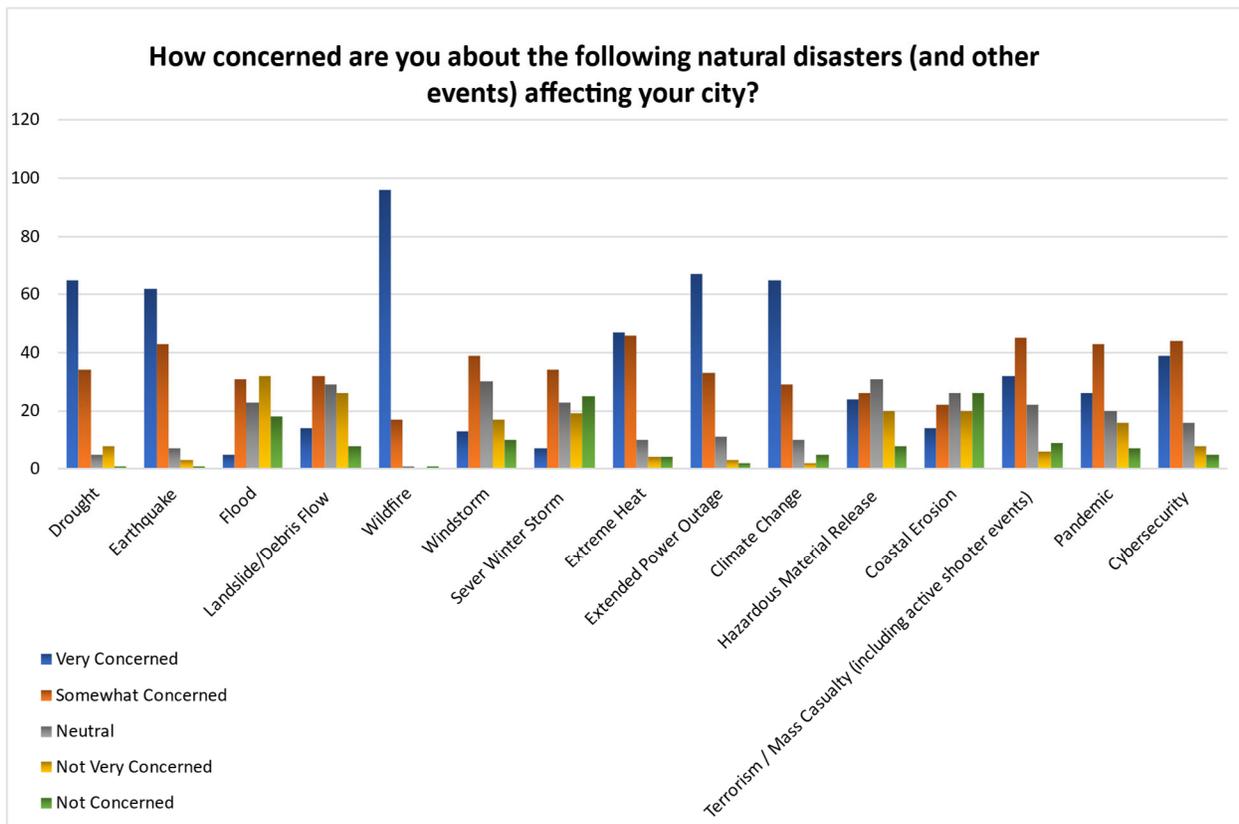


Other home mitigation examples include:

- Ember resistant vents
- Ember screens
- Extra water hoses
- Trimmed trees

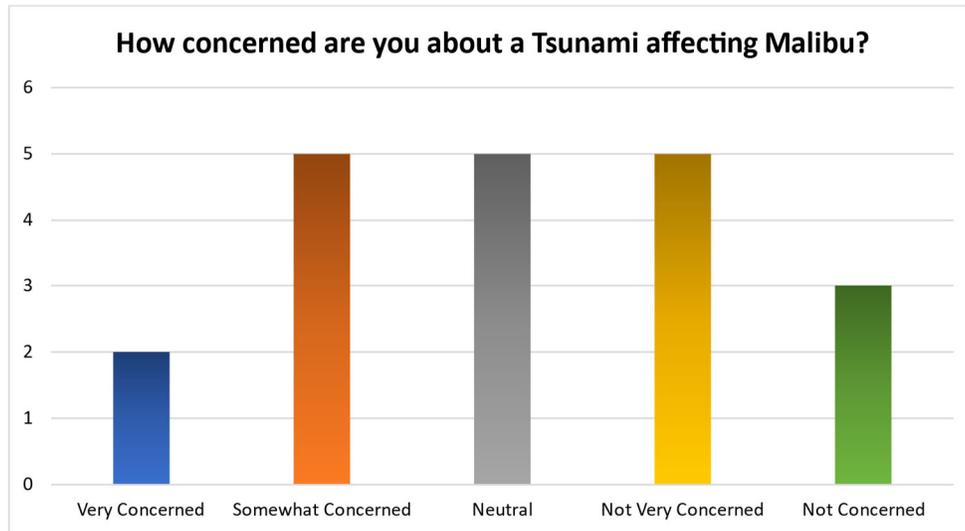
10. How concerned are you about the following natural disasters (and other events) affecting your city?

Value	Very Concerned	Somewhat Concerned	Neutral	Not Very Concerned	Not Concerned
Drought	65	34	5	8	1
Earthquake	62	43	7	3	1
Flood	5	31	23	32	18
Landslide/Debris Flow	14	32	29	26	8
Wildfire	96	17	1	0	1
Windstorm	13	39	30	17	10
Sever Winter Storm	7	34	23	19	25
Extreme Heat	47	46	10	4	4
Extended Power Outage	67	33	11	3	2
Climate Change	65	29	10	2	5
Hazardous Material Release	24	26	31	20	8
Coastal Erosion	14	22	26	20	26
Terrorism / Mass Casualty (including active shooter events)	32	45	22	6	9
Pandemic	26	43	20	16	7
Cybersecurity	39	44	16	8	5



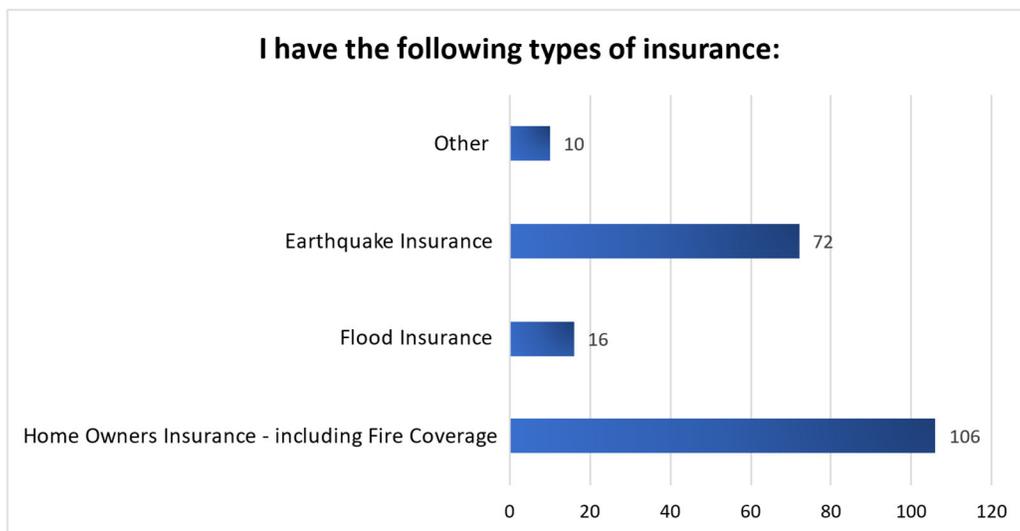
11. How concerned are you about a Tsunami affecting Malibu?

Value	Very Concerned	Somewhat Concerned	Neutral	Not Very Concerned	Not Concerned
Tsunami	2	5	5	5	3



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

Value	Count	Percent
Home Owners Insurance - including Fire Coverage	106	93.0%
Flood Insurance	16	14.0%
Earthquake Insurance	72	63.2%
Other	10	8.8%

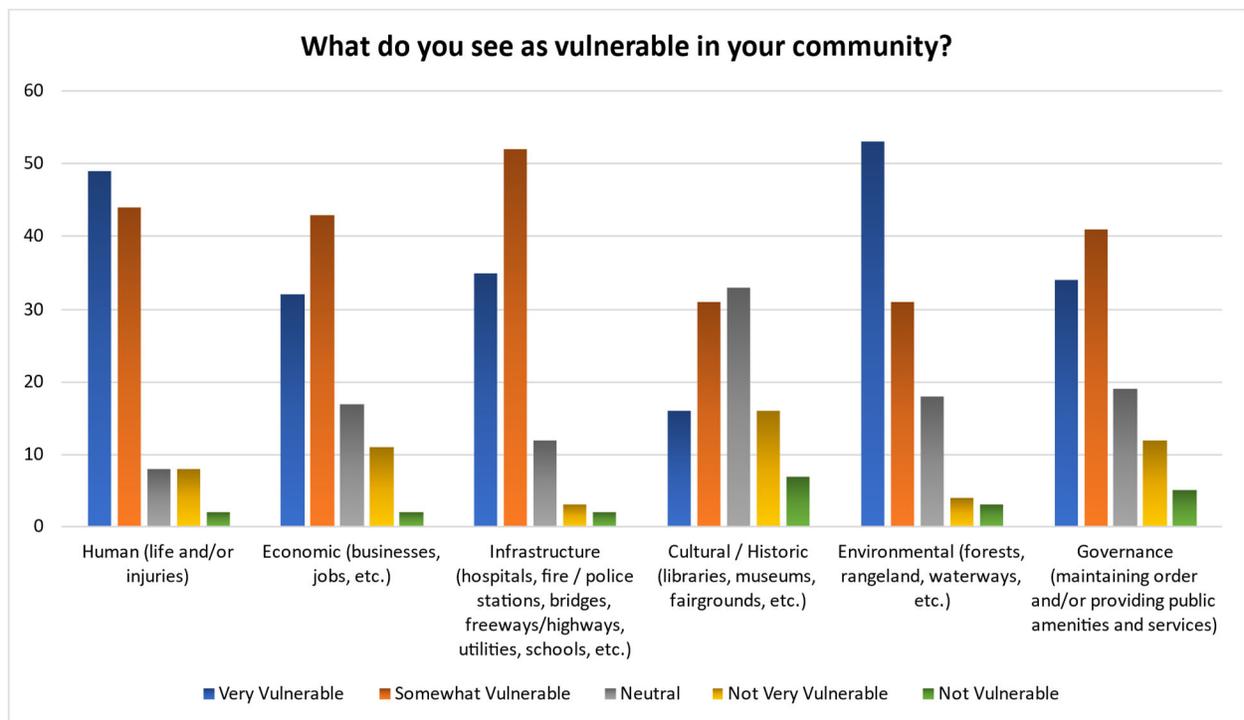


Other types of insurance include:

- HOA Insurance Coverage
- Renters Insurance
- State Insurance
- Umbrella Policy Insurance

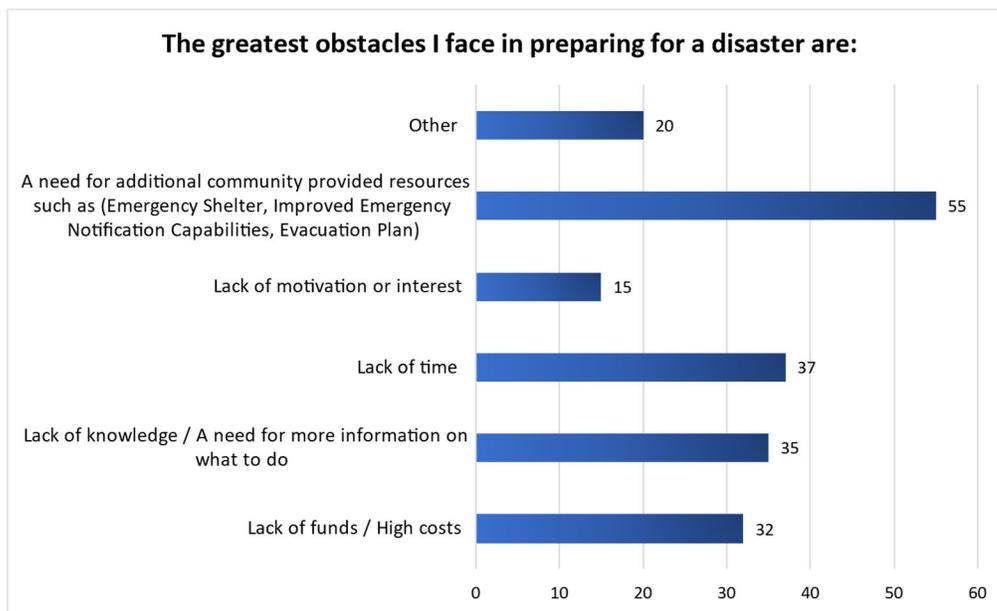
13. What do you see as vulnerable in your community?

Value	Very Vulnerable	Somewhat Vulnerable	Neutral	Not Very Vulnerable	Not Vulnerable
Human (life and/or injuries)	49	44	8	8	2
Economic (businesses, jobs, etc.)	32	43	17	11	2
Infrastructure (hospitals, fire / police stations, bridges, freeways/highways, utilities, schools, etc.)	35	52	12	3	2
Cultural / Historic (libraries, museums, fairgrounds, etc.)	16	31	33	16	7
Environmental (forests, rangeland, waterways, etc.)	53	31	18	4	3
Governance (maintaining order and/or providing public amenities and services)	34	41	19	12	5



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

Value	Count	Percent
Lack of funds / High costs	32	31.4%
Lack of knowledge / A need for more information on what to do	35	34.3%
Lack of time	37	36.3%
Lack of motivation or interest	15	15.7%
A need for additional community provided resources such as (Emergency Shelter, Improved Emergency Notification Capabilities, Evacuation Plan)	55	55.9%
Other	20	19.6%



Other obstacles include:

- Being a renter, I cannot damage walls by securing furniture
- Blocked evacuation routes
- Community provided power source for MBC power outages
- Emergency shelter
- Evacuation plan
- It's not that I'm not motivated or interested... it's that it's overwhelming so it's just not something I am 100% up on.
- Lack of interest by local elected officials
- Lack of roads to get out of our community
- Limited home space
- Panic caused by fire evacuation and obligation to save properties from fire
- Pet inclusive locations for shelter and housing
- Physical limitations
- Procrastination
- Retaining the survivor mentality

Other resources needed include:

- CERT class was hugely helpful, and should be better advertised
- City of Malibu needs to provide more up-to-the-minute notification of natural disasters (as well as car-related accidents)
- Enforcement of removal of target trees from landscape in high fire areas by LAFD
- Most concerned that the community has the day 5+ resources

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

Air Quality

- All the gases and toxic fumes coming from synthetic lawns!
- Landfill fine particulate matter/off gassing/etc., for air quality and children's development

Corruption

- Corruption compromising the emergency responders

Communication

- Breakdowns in emergency communications
- Lack of cell service in our neighborhood

Crime

- Crime in Calabasas. I have lived here for 40 years, and the world changed a lot.
- Crime unchecked by laws and DA
- Domestic violence extremism
- Escalation of unchecked crime and immigration of tax base out of the area / California
- Home invasion

Debris

- I also feel that too much debris on Kanan needs to be trimmed now as well as on Electric poles need to be removed. It's just so frustrating.

Evacuation

- Can't get out of the area in case of a fire
- Evacuation routes in a disaster
- Evacuation - clear streets and paths are needed with no restriction by reduction in lanes for traffic calming in Westlake Village. Just look at Woolsey Fire, Paradise and Lahaina and the deaths to people evacuating. Understanding that in addition to the fact that non-residents will use our streets for evacuation as well as us and we need clear paths to evacuate.
- Panic caused by fire evacuations. There are many exists on Fountainwood and Morrison ranch.

Fire

- Another fire like Woolsey
- Concerned that those living near me don't do their fire clearance and officials don't hold them accountable for the safety of the community.
- Fire evacuation
- Lack of fire hydrant access to our location in our community

Home Insurance

- A lack of organization or a strategy for ensuring adequate homeowners insurance including fire. This needs to be a priority.
- Inability to secure adequate fire insurance

Homelessness

- Homeless issues involving safety and sanitation
- The hazards that concern me are allowing the homeless and campers to live on the side of road on Kanan near Ladyface Mountain. I found it very challenging to deal with Lost Hills Sheriff who didn't want to cooperate making it a political issue and deferring to other agencies such as the Rangers or Highway Patrol. I kept saying, we do not need another Woolsey fire. BTW, I live in Agoura Hills in the unincorporated area of LA County. We should be included as part of this survey for the future. We are just as concerned as your neighbors. I live in Malibu View Estates at the top of Kanan south.

Infrastructure

- Infrastructure in place to allow timely rebuild
- Structural collapse of retaining wall due to a natural or even a man-made disaster

Overpopulation

- Growing & overpopulation of areas that don't have ample escape routes

Senior population

- Our communities have senior citizens who live alone who should be accounted for ahead of any disaster so that help can be on the lookout to assist in case of an emergency. LA county agencies and city agencies should work together with all hands on deck?

Water Supply

- Loss of municipal water supply/long term
- Water supply reduction

Weather

- Carrington event
- Severe thunderstorms causing major leaks

Other

- Financial meltdown
- Per Woolsey Fire after action report, Law Enforcement and Fire Fighters will not be available to assist us in initial stages of the incident. We further need a Warning System other than by cell or e mail. What about AM radio? What if we lose power and battery backups are depleted? How does City manage incident if City Hall is evacuated? More preparedness on the part of our City is needed.
- Poisoned animals in the food chain due to use of non organic chemicals!
- Political Instability
- Secondary disaster due to lack of preparedness

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

Communication

- 24-hour prompt notifications of natural disasters, car accidents, and street closures
- Better and more coordinated communication and plans
- Better communication. Improved access to public officials. Improved social media and television alerts.
- Better outreach and communication with all residents in every part of the city. The most vulnerable in Calabasas are on the west side and no outreach here at all.
- Clear idea where emergency shelters would be
- Communication means that are effective during power and internet outages
- Coordinated efforts between city and county; communication on who has the most reliable information and resources.
- Find ways to get more people signed up for mass notification systems for their respective local jurisdiction.
- Get us the most recent information
- Hold meetings for residents to attend showing us how to get prepared
- Improved Web GIS Apps that could be used in a cellular network in an emergency, similar to VC Emergency in Ventura County.
- Learn how to receive communication when power is unavailable
- Make sure we get as much advance notice as possible
- More clarity from Cal Fire and LACOFD about brush clearance rules, especially Zone 0
- Provide clarity on the day 5 plan and how we will have medical services here
- Provide more information during and after an event
- Providing evacuation and shelter information when phone service is disrupted
- Send out more info on the subjects!

Community Engagement and Support

- Help senior citizens and include both unincorporated areas of LA county as well as city government in the plans. It would be much more cohesive.
- Keep public awareness up front

Evacuation and Shelter

- Appropriate evacuation plan
- Earlier requirement for mandatory evacuations
- Evacuation plans, brush removal, more streamlined services, water access
- Have a designated public shelter in open air
- More escape routes during a disaster
- Well coordinated evacuation plans that are executed earlier in an emergency. Too often left until last minute.

Infrastructure

- Add more infrastructure to relieve the traffic during an event
- Focus on our community infrastructure
- Invest in the infrastructure. Agoura Hills takes very little care of everything having to do with the building and walls. Walls will come down during an earthquake.

Resources and Supplies

- Assist with power generation- That's a BIG issue!
- Community supplies and shelter
- Continuously publish lists of what to do and items to keep on hand. Don't make us go to a different source to find that.
- Easily accessible resources for the public
- Give each home a check list and provide online education on how to obtain items cost effectively
- Help with understanding their disaster plan.
- Information on where our evacuation plans are
- Offer resource lists (or magnets) for home
- Pass out check-lists of what should be done in our homes prior to a disaster to ensure more safety during a disaster
- Provide some supplies to people who are financially insecure, and also provide handyman services for tasks such as securing furniture for those who cannot do it themselves and cannot afford to have someone else do it. Maybe do an outreach by neighborhood.
- Repeated Community rollout of Emergency plans and guidelines.
- Sell packages for emergencies at a reasonable price
- Send out an information pamphlet with important tips and info
- We have just been told by our homeowner insurance (Allstate) that we must box our eaves or they will not renew our policy. It would be great if Calabasas could provide helpful info about getting this work done (for example trusted local contractors; if permits are needed, expected costs). Also if there are things that the community is doing to earn a Firewise or shelter in place designation. The ability to get homeowner insurance is at a crisis. With the resources of Calabasas could more be done to advocate and educate on this topic? I appreciate the fire and emergency education already in place but it might be time to take it up a notch.

Safety Measures

- Actually implement the supposed preparedness. Could hire agencies that can assist with this. Help residents and don't forget about them in the aftermath.
- Curtail building of high density developments along Las Virgenes Rd
- Get a group fire insurance policy for city residents to opt into that's better than the California FAIR Plan or offers discounts
- Have a realistic plan and help people. We were left alone and on our own in last fire. City, police and government failed us.
- Help identify senior citizen residents by giving flags to place outside their homes if needed
- Improve cell service in our neighborhood
- Require resilient materials for building and enforce target species removal from yards

Training and Education

- CERT classes (i.e., First Aid, rescue from structures, emergency food supplies)
- CERT/Disaster training should include formation and ongoing training of neighborhood emergency teams based on location of residence. Portland, OR, is a great example to follow in this area.
- City needs to publicize the CERT program as a way to help individuals/families prepare themselves. I've taken it but the marketing seems geared towards being a CERT volunteer not just becoming a CERT savvy individual/family member/neighbor.
- Classes on preparedness
- Have more CERT trainings and even single day trainings that just review all the important aspects of disaster preparedness. Not everyone has the time to commit to a multiple week CERT program.
- Hold meetings to prepare our community
- Set up groups to teach what to prepare and how to use certain tools (i.e., gas shut off valve)

Wildfire Mitigation

- Bring goats in to eat and clear the brush around our neighborhood
- Brush clearance of open space around DeAnza Park and the LVMWD site
- Fining property owners who don't do brush clearance
- Removal of wood and plastic fencing that act as fire corridors during a wildfire. Our city has shelter and evacuation plans already.

Other

- Alert systems are most important, don't over populate with mass housing, if you do, it becomes very difficult for people to evacuate without complete chaos, this will then result in deaths
- Encourage other community members to be prepared so that together we are a resilient community
- Funding of staff and training
- How do local governments make the public utilities especially Edison, more accountable for providing a reliable service that is not responsible for starting major fires?
- I want more police patrols of the Ralphs and Vons shopping center. A lot of people are stealing from our local stores!
- More focus and interest
- One stop shop for disaster communications to citizens with access via call-in/messages/radio station/website etc that links all relevant departments filtering into a singular "voice" that gives clear actionable communication, isn't sugar coated, runs real-time, and uses A.I. for answering follow up questions, enables filtering user reports to appropriate leadership, monitoring of resources/personnel movements/traffic flow/weather/etc. Could be great to use A.I. predictive modeling hand in hand with training to stress test and explore different probabilities of outcomes for different disasters using relevant data of that community. Discover and address the bottlenecks and provide local responders feedback for efficacy. Maybe a know your neighbor and know the needs for different disaster PSA for civilians. There seemed to be a disconnect with appropriate

actions en masse with for example, the toilet paper hoarding and actual beneficial actions in times of uncertainty like Covid lockdown. Education/re-education isn't always bad. Easy to access information and even an online pick your disaster (morbid I know) and check list and make an action plan app would be cool. That way you can revisit your tailored action plan if something comes up. That's all I got!

- Westlake Village did an excellent job of keeping residents informed during the 2018 Woolsey fire. They kept us informed about the hurriquake. I trust if there's another danger they will do the same.
- Work closely with the county Voluntary Organizations Active in Disaster (VOAD). Become familiar with grants that will be available and disaster housing needs. Each city should be receptive to a presentation and becoming familiar with the VOAD and the LA Community Recovery Organization (LARCRO) which establishes and mentors community long term recovery groups. Ensure each city has a strong relationship to their LOCAL Community Foundation. These non-government organizations are the key to empowering the community to own its recovery sustainably.

17. Prior to receiving this survey, were you aware of your city’s hazard mitigation plan?

Value	Count	Percent
Yes	37	32.2%
No	78	67.8%



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SECTION 18. ANNEX D: PLANNING GROUP HMP RISK ASSESSMENT SURVEY

The following Risk Assessment Survey was distributed to the Planning Group to determine the relative risks associated with the major hazards identified in the LVMCOG region. 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	Level ID	Description	Value	Weighting Factor
Probability	Unlikely	Extremely rare with no documented history of occurrences or events. Annual probability of less than 0.001.	1	45%
	Possibly	Rare occurrences with at least one documented or anecdotal historic event. Annual probability that is between 0.01 and 0.001.	2	
	Likely	Occasional occurrences with at least two or more documented historic events. Annual probability that is between 0.1 and 0.01.	3	
	Highly Likely	Frequent events with a well-documented history of occurrence. Annual probability that is greater than 0.1.	4	
Magnitude/ Severity	Negligible	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	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	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	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	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	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	

PLANNING GROUP RISK RATINGS

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 LVMCOG region, the following estimates were developed.

Hazard	Average Probability	Weighted Probability	Average Magnitude	Weighted Magnitude	Average Warning Time	Weighted Warning Time	Average Duration	Weighted Duration	2023 Risk Rating
Terrorism / Mass Casualty	10	4.50	4.67	1.4	20	3	9.5	0.95	9.85
Wildfire	9.5	4.28	9	2.7	3	0.45	20	2	9.43
Earthquake (>6M)	8.5	3.83	5	1.5	20	3	9.5	0.95	9.28
Energy Disruption	5.67	2.55	15	4.5	3.33	0.5	6.5	0.65	8.20
Climate Change	9	4.05	6	1.8	3	0.45	9.5	0.95	7.25
Pandemic	6	2.70	5.5	1.65	5.5	0.83	20	2	7.18
Landslide	3	1.35	3.67	1.1	20	3	9.5	0.95	6.40
Severe Winter Storm	4.33	1.95	6	1.8	3	0.45	3.67	0.37	4.57
Severe Windstorm	4.33	1.95	3.67	1.1	3	0.45	4.33	0.43	3.93
Tsunami (all responses)	1.67	0.75	1.67	0.5	2.25	0.34	3.67	0.37	1.95

Table 176: LVMCOG Planning Group Risk Ratings

The Tsunami Risk Rating is further broken up to specifically highlight responses from the City of Malibu (only) as the impact and threat of a tsunami is a key consideration due to the City’s coastal location.

Hazard	Average Probability	Weighted Probability	Average Magnitude	Weighted Magnitude	Average Warning Time	Weighted Warning Time	Average Duration	Weighted Duration	2023 Risk Rating
Tsunami	2	0.9	2	0.6	2	0.3	4	0.4	2.20

Table 177: Risk Ratings for Tsunami in Malibu

RISK ASSESSMENT SURVEY RESULTS

The following tables provide the results from the Risk Assessment Survey for the LVMCOG Region. Each section of the survey describes a hazard, risks, consequences and raging summary (Note: Zero values are omitted).

Overall, the risk of a Terrorism or Mass Casualty event was the highest rated event followed by Wildfire and Earthquake (top 3) followed by Energy Disruption, Climate Change, Pandemic, Landslide/Mudslide/Debris Flows, Severe Winter Storm, Severe Windstorm, and Tsunami (overall rating). However within the City of Malibu, the risk of tsunami was rated somewhat higher at 2.20. The remainder of this section provides a summary of the ratings for each hazard category.

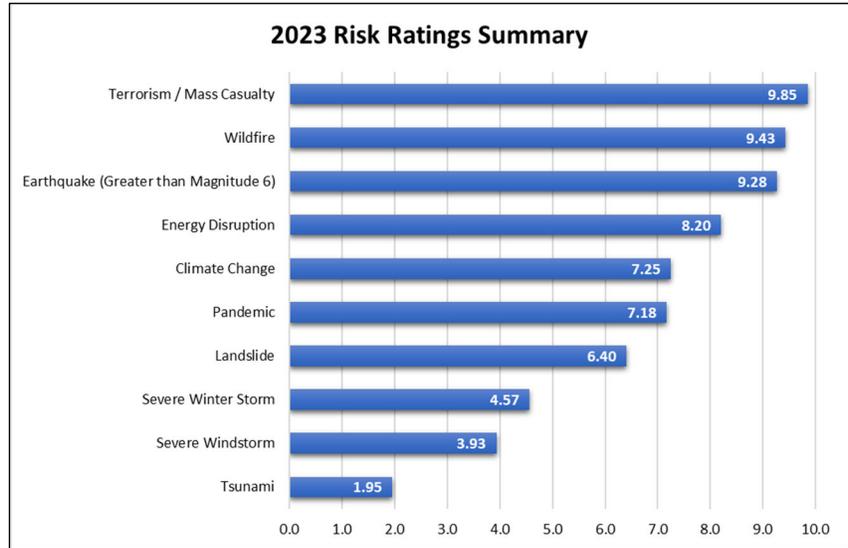


Figure 129: LVMCOG Planning Group Risk Assessment Results

Terrorism and Mass Casualty Events

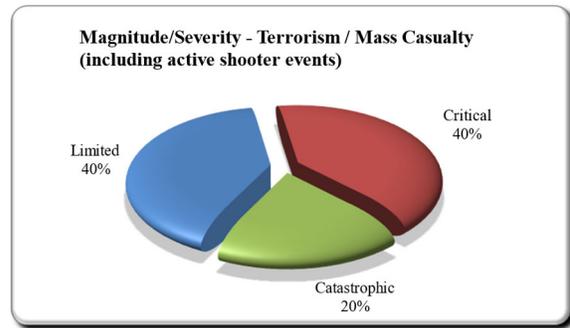
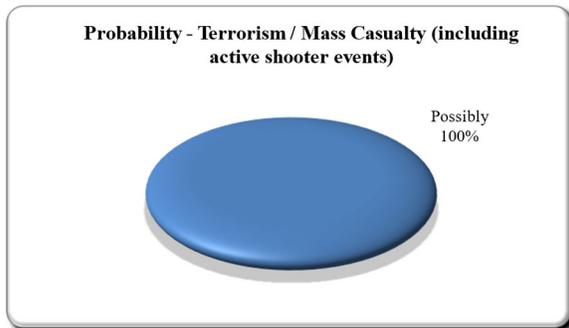
Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.

Rating	Description
Critical	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.
Catastrophic	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.

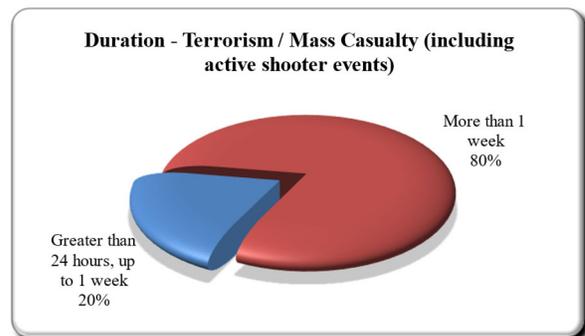


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



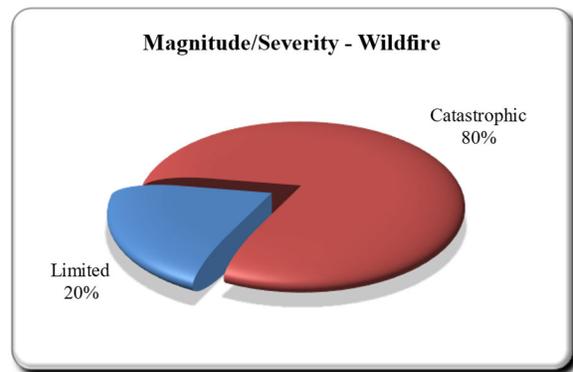
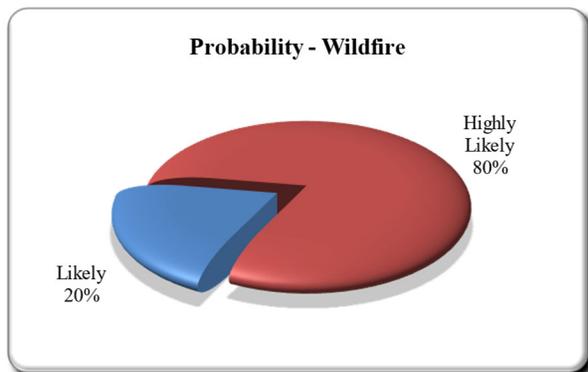
Wildfire

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
Catastrophic	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.

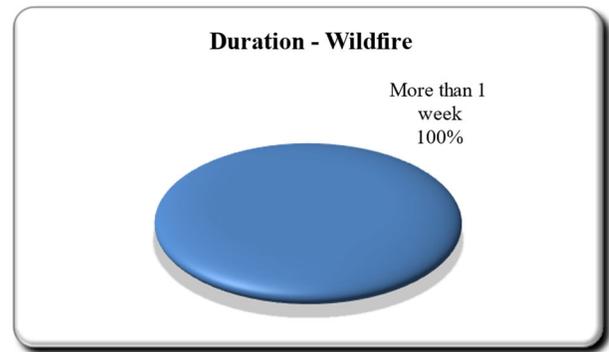
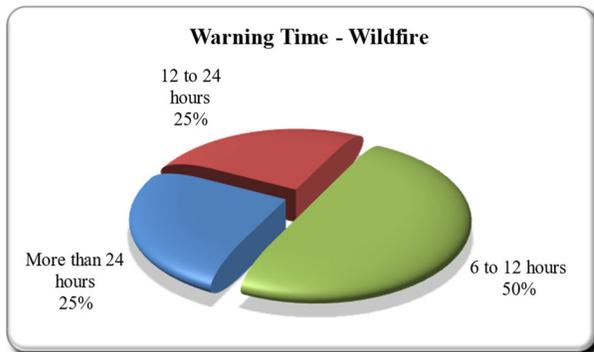


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



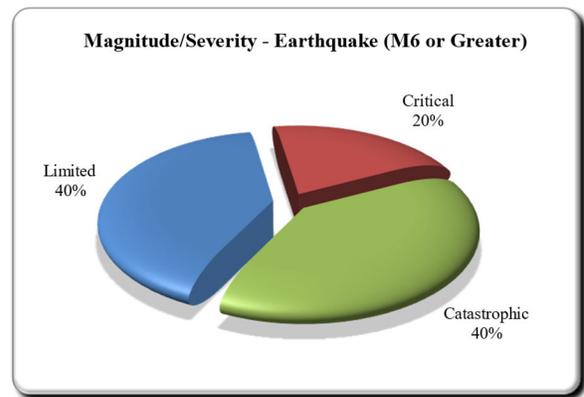
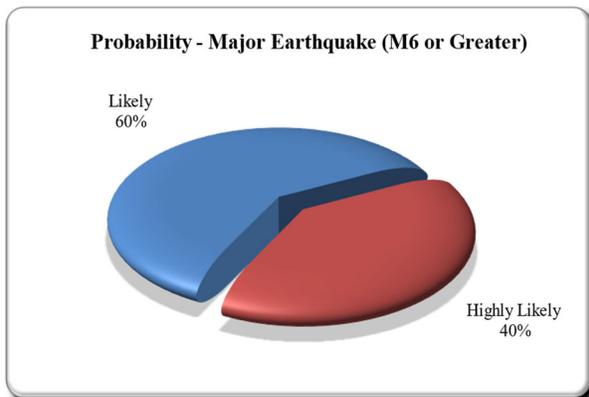
Earthquake (Greater than Magnitude 6.0)

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
Catastrophic	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.

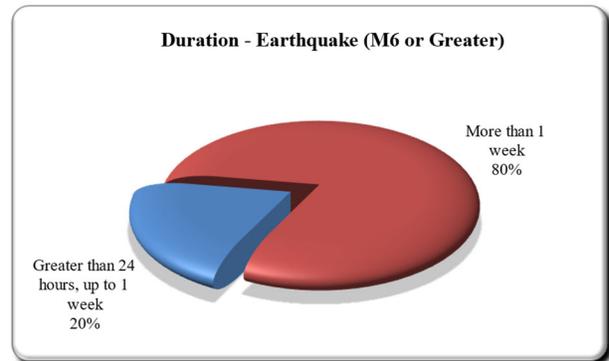
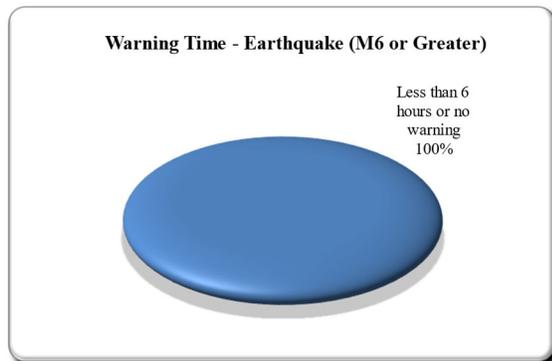


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



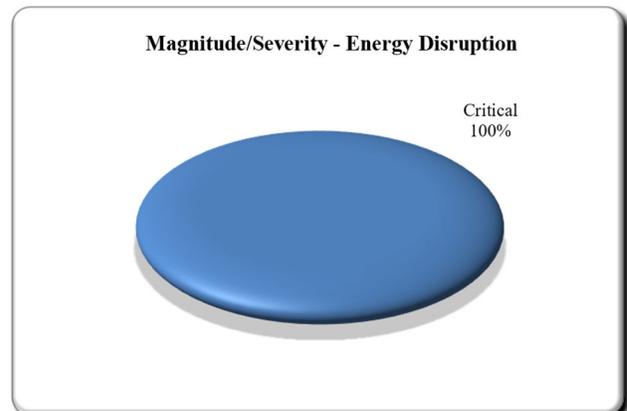
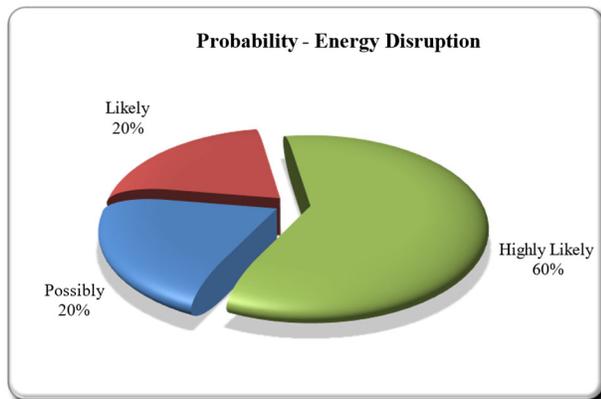
Energy Disruption

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
Catastrophic	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.

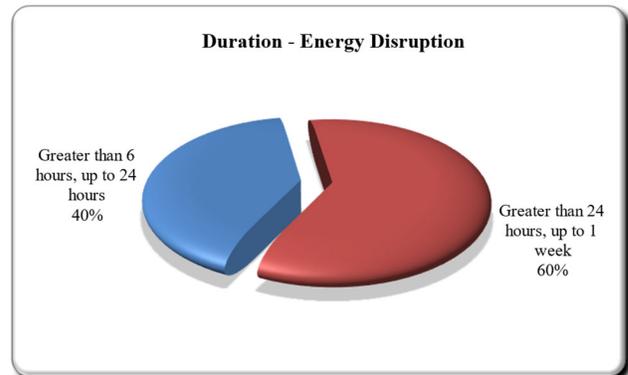
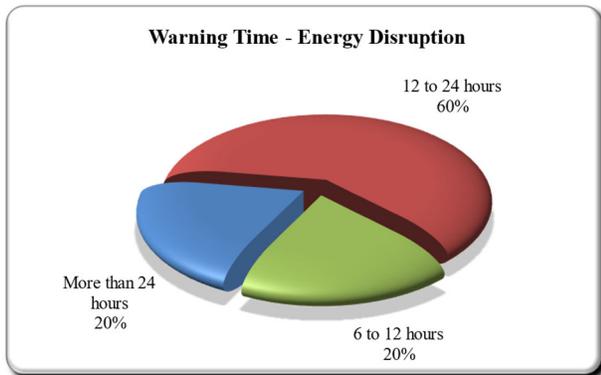


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



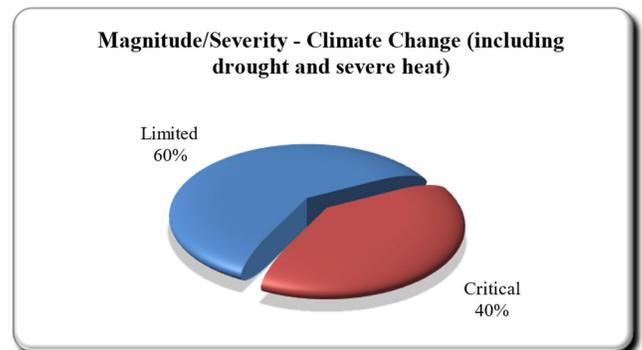
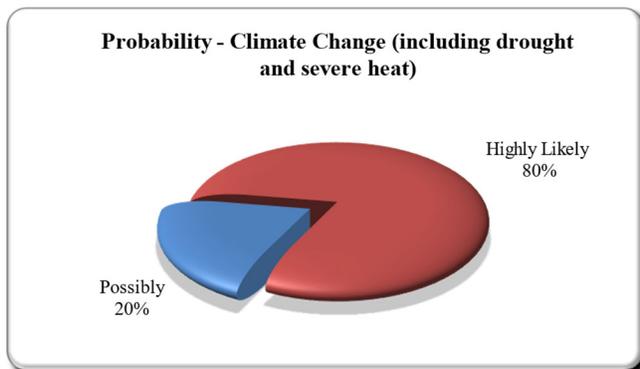
Climate Change (including Major Drought / Severe Heat)

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
Catastrophic	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.

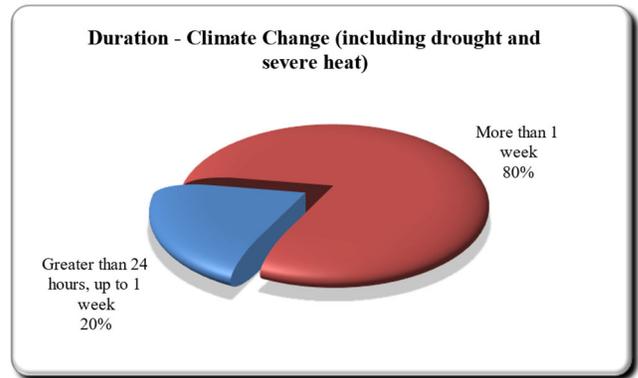
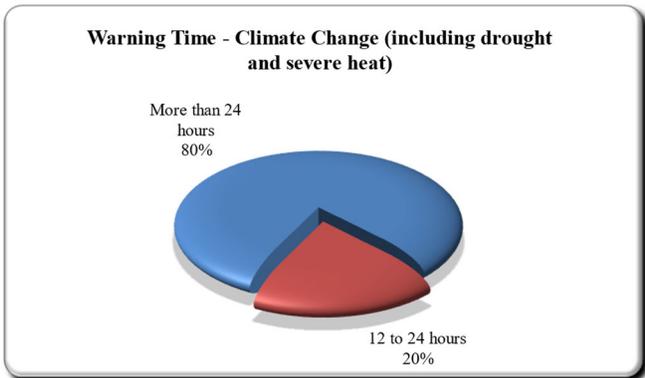


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



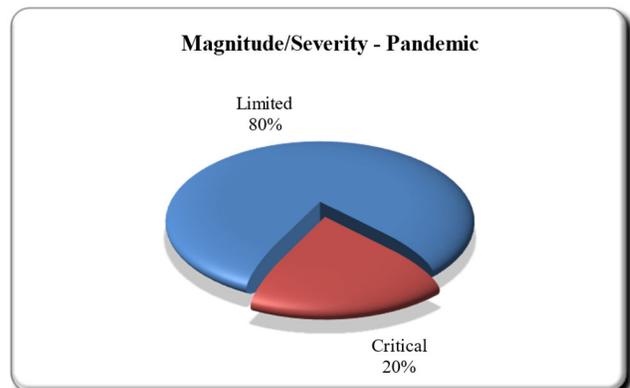
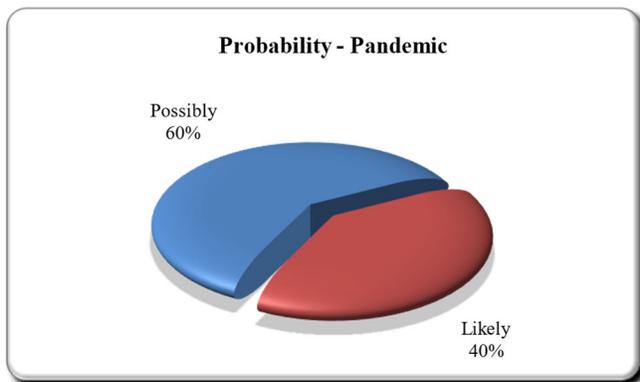
Pandemic

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
Catastrophic	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.

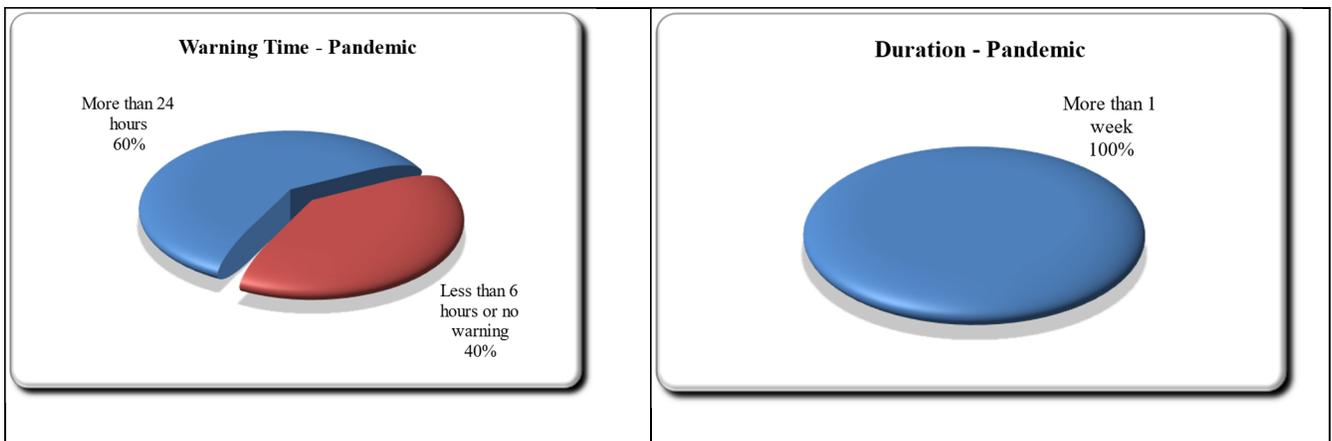


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



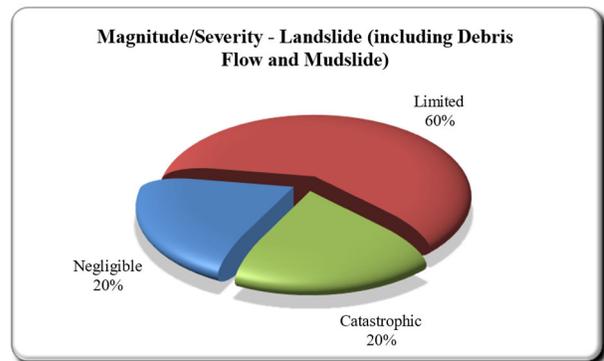
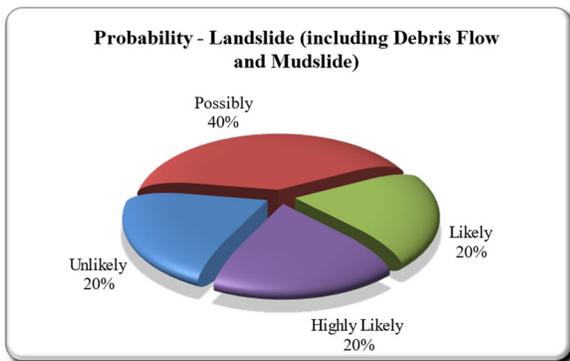
Landslide, Mudslide, and Debris Flows

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
Catastrophic	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.

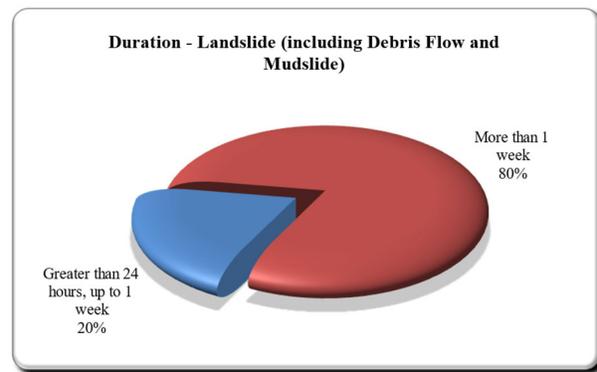
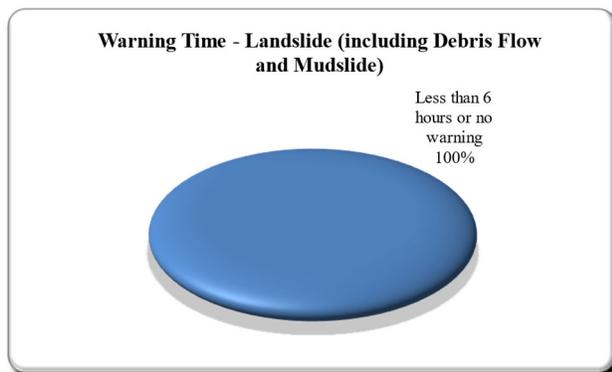


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



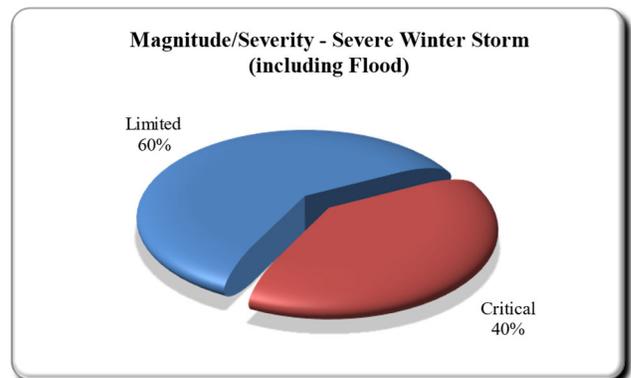
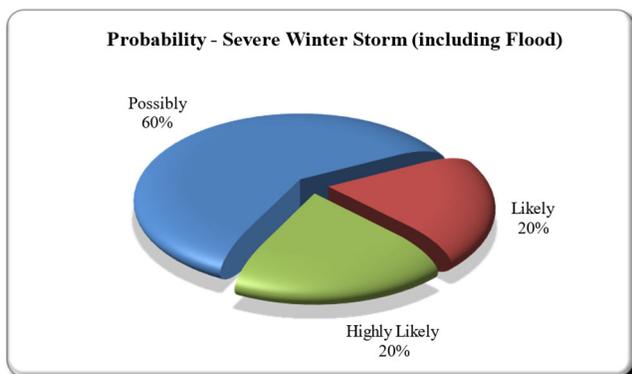
Severe Winter Storm

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
Critical	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.
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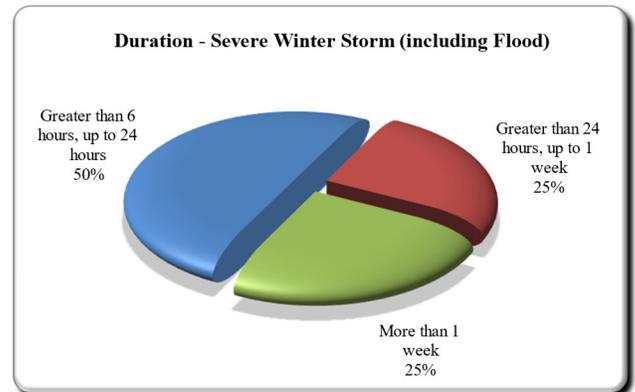
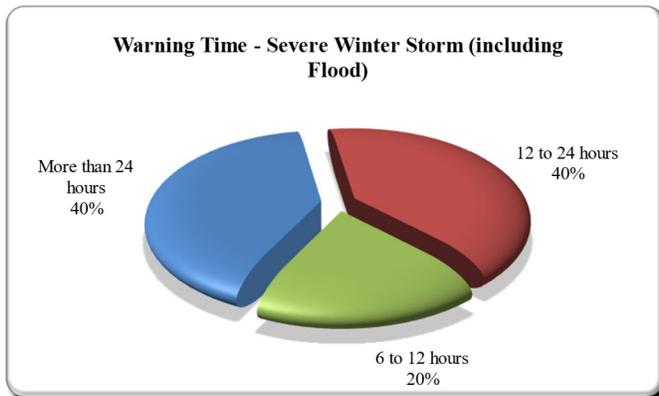


Warning Time – How much advance warning have you received for the type of event described?

Rating
N/A
More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



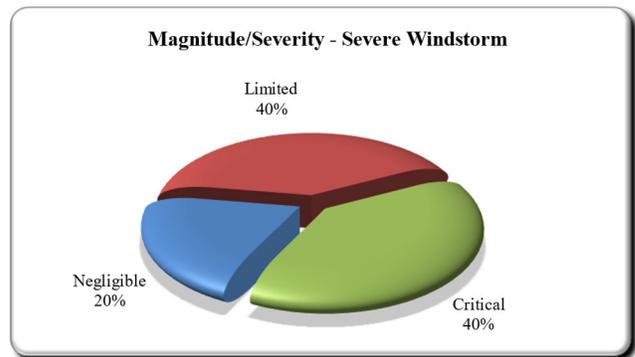
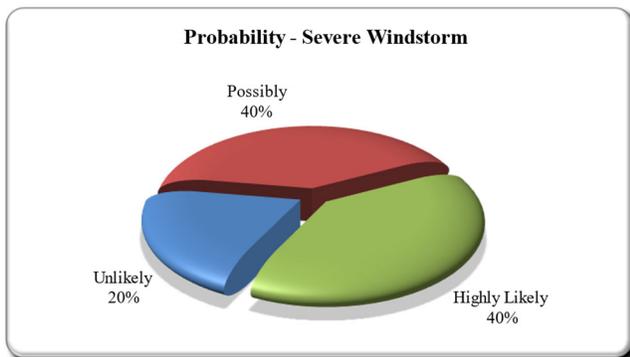
Severe Windstorm

Probability – Rate the probability based on historical events.

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
Highly Likely	Highly Likely: Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 10%.

Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
Limited	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.
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Catastrophic	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.

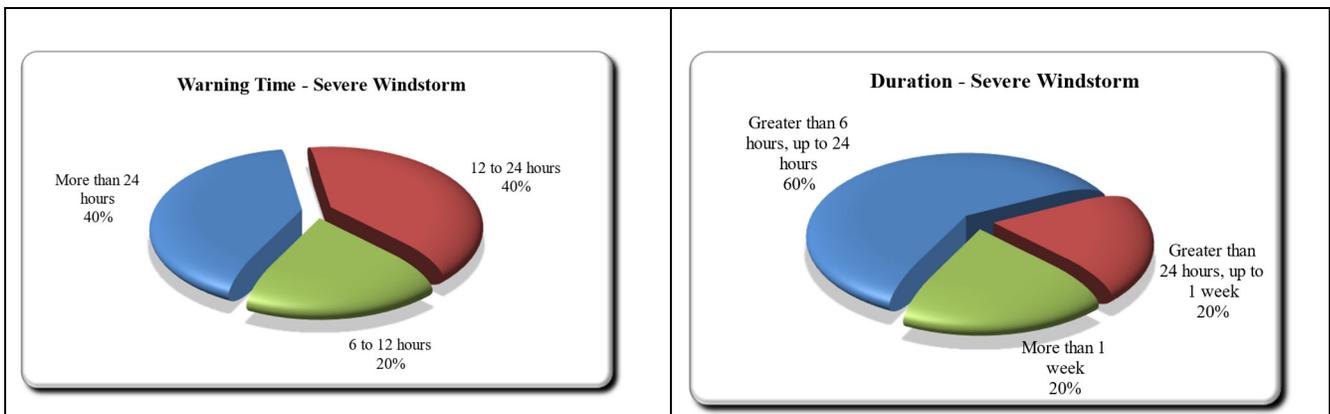


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Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



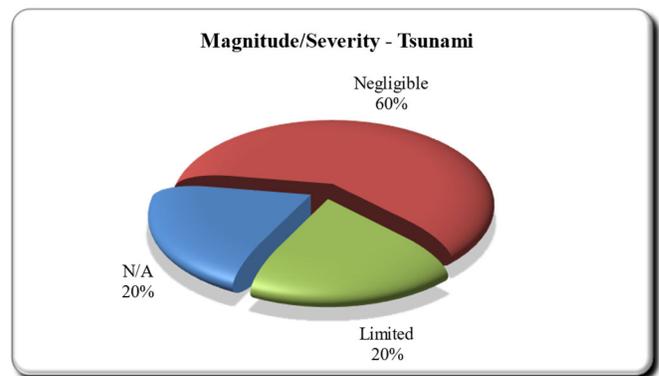
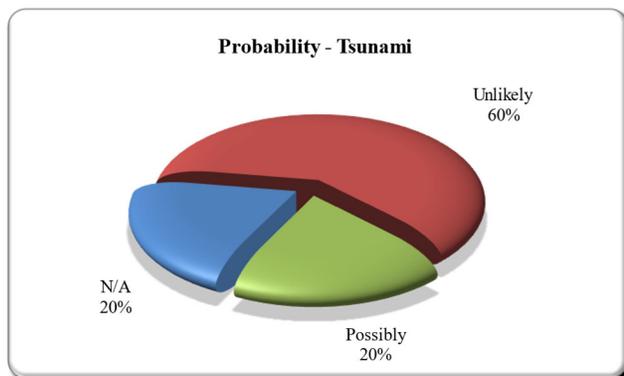
Tsunami

Probability – Rate the probability based on historical events

Rating	Description
N/A	Not Applicable
Unlikely	Unlikely: Extremely rare with no documented history of occurrence or events OR an annual probability less than .1%.
Possible	Possible: Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 1% and .1%.
Likely	Likely: Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 10% and 1%.
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Magnitude and Severity – How severe was the impact to lives, property, and infrastructure?

Rating	Description
N/A	Not Applicable
Negligible	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.
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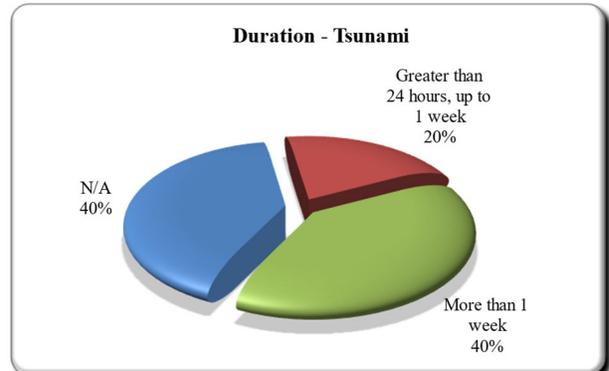
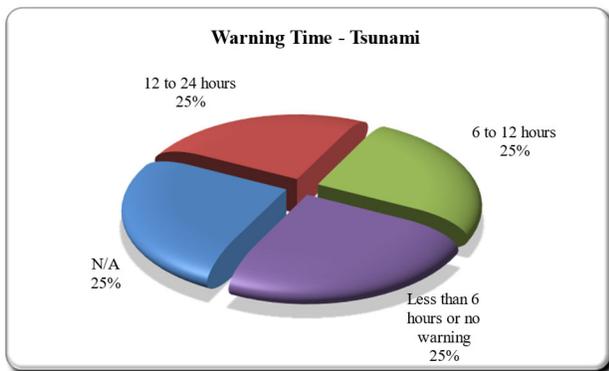


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More than 24 hours
12 to 24 hours
6 to 12 hours
Less than 6 hours or no warning

Duration – How long will the event last including the time the area will be impacted if the event described above occurs?

Rating
N/A
Less than 6 hours
Greater than 6 hours, up to 24 hours
Greater than 24 hours, up to 1 week
More than 1 week



Other Hazards

List other significant hazards or events that you are concerned about (if any):

- Cyber Attack
- Hazard Waste / Material Release
- Terrorism Based on Hate Crime

SECTION 19. ANNEX E: PLANNING AND PUBLIC INVOLVEMENT

MITIGATION 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 Community Disaster Preparedness Risk Survey
- Public Bulletins including Public Service Announcements (PSAs), City Web Pages, City Social Media, and Local News as well as Ongoing Preparedness and Mitigation Events
- Public Workshops
- City Council and Safety Committee Meetings

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 116 completed surveys were received. The results of the survey are provided in **Annex C Community Disaster Preparedness and Risk Survey**.

Public Service Bulletins, City Web Pages, City Social Media, and Local News

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) which are advertised via local news, City web sites, and social media.

Public Emergency Preparedness and Mitigation Events

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 speakers series during National Preparedness Month which that includes programs to educate the public, obtain public participation, and further promote mitigation efforts.

ANNUAL COMMUNITY FIRE SEASON BRIEFING
 All residents, employees, business and organization leaders, students, and other Malibu community members are invited to attend the annual Community Fire Season Briefing. Los Angeles County Fire Department Assistant Fire Chief Drew Smith, a Fire Behavior Analyst, presented on local Live Fuel Moisture, expected weather patterns, and what that means for fire conditions in Malibu. [Recorded Presentation](#)

EARTHQUAKE THREAT IN SOCIAL: ARE YOU PREPARED?
 SoCal ShakeAlert Earthquake Early Warning Regional Coordinator Margaret Vinci from California Institute of Technology (CalTech) discussed the threat of earthquakes in Southern California, and what residents, businesses, schools and other organizations can do to be prepared and resilient when a major earthquake strikes. Learn how to prepare earthquake emergency plans and supplies for yourself, or for a household or an organization. [Zoom Link](#)

TSUNAMI ALERTS & WARNINGS
 Engineering Geologist Nick Graehl from Department of Conservation Tsunami Unit and Senior Emergency Services Coordinator/ Tsunami Planning Coordinator Matthew Palmer from Cal OES discussed Malibu's vulnerability to Tsunamis, how community members can sign up for and understand Tsunami warnings and alerts, how to prepare and what to do if a Tsunami strikes. [Recorded Presentation](#)

ACTIVE SHOOTER RESPONSE READINESS
 Tragically, there were more than two mass shooting incidents per day somewhere in the United States in 2020, 2021 and 2022, and they can occur at workplaces, schools, houses of worship or large events. Learn how you can be prepared to keep yourself and others safe during a shooting incident. [Recorded Presentation](#)

FIREWISE/FIRESAFE COMMUNITIES, UNDERSTANDING FIRE WEATHER METRICS, HOME WILDFIRE HARDENING MEETS CURB APPEAL
 City Fire Safety Liaisons Bradley Yocum, Gabriel Etcheverry and Jerry Vandermeulen discussed some of the most important ways that community members can be prepared and resilient for wildfires. Learn how to join or start community-based Firewise and Firesafe groups that enable neighbors to help each other, share resources, fund neighborhood brush clearance, make neighborhood-based evacuation plans and more. Understanding Fire Weather Metrics will teach you how to understand and track local fire weather conditions such as wind, humidity and fuel moisture. Home Wildfire Hardening will demonstrate how homeowners can protect their home and property from the millions of burning embers that are a leading cause of homes burning down in wildfires with plants and materials that are both fire resistant and beautiful. [Recorded Presentation](#)

Figure 130: National Preparedness Month 2023 Speaker Series- City of Malibu

Likewise, the other cities within the LVMCOG conduct similar public outreach events to promote preparedness and mitigation.

ENGAGE WITH THE EMERGENCY EXPERTS FROM THE CITY OF AGOURA HILLS, LA CO. FIRE DEPARTMENT AND AGOURA HILLS CERT TO LEARN HOW YOU CAN BE PREPARED.

PREPAREDNESS SATURDAY, SEPT. 23, 9 A.M. TO NOON

Figure 131: Preparedness Saturday - Agoura Hills

ANNUAL COMMUNITY FIRE SEASON BRIEFING

On Thursday, September 14 at 6:00 p.m., all residents, employees, business and organization leaders, students, and other Calabasas community members are invited to virtually attend the annual Community Fire Season Briefing. Los Angeles County Fire Department Assistant Fire Chief Drew Smith, a Fire Behavior Analyst, will give a presentation on local Live Fuel Moisture, expected weather patterns, and what that means for fire conditions in Calabasas.

As part of the FEMA Ready Campaign's 2023 National Preparedness Month campaign, this meeting will also focus on preparing older adults from communities like Calabasas that are disproportionately impacted by the all-hazard events, which continue to threaten the nation.

According to the American Red Cross, there are several factors that make older adults more vulnerable after disasters, including, but not limited to:

- a greater likelihood to suffer from chronic conditions and the need for associated medications;
- a greater reliance on assistive devices such as walkers or glasses, as well as support from caregivers and others; and
- an increased likelihood of social isolation.

The meeting can be viewed live or later on-demand. For Zoom information, click [here](#)

Figure 132: Fire Season Briefing - Calabasas

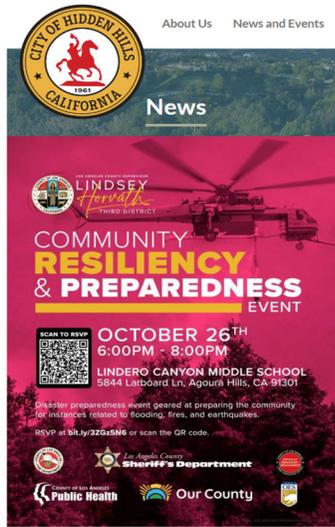


Figure 133: Community Resiliency & Preparedness Event - Hidden Hills



Figure 134: Emergency Preparedness Month Bulletin – Westlake Village

Disaster Preparedness and Mitigation Information

Each city within the LVMCOG provides their communities with ongoing preparedness and mitigation alerts and information. These sources of information are intended to further involve and educate the public – further promoting hazard mitigation in the local area.

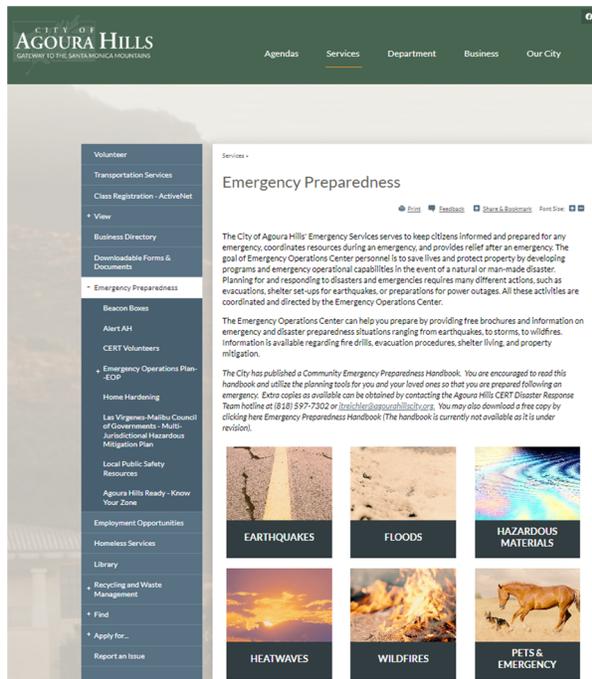


Figure 135: Agoura Hills Emergency Preparedness Web Page

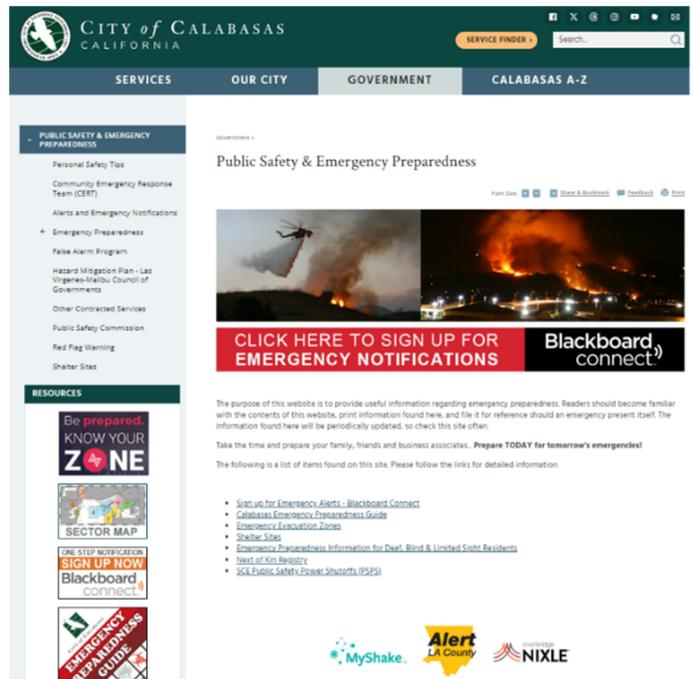


Figure 136: Calabasas Public Safety & Emergency Preparedness Web Page



Emergency Preparedness Starts at Home

Emergency preparedness begins at home. Police and Fire agencies train year-round for the "next" event. The City has preparedness plans in place and has recently increased emergency response preparations, all residents should, too. It goes beyond having an emergency kit. Below are several examples of efforts you as a homeowner can do to better prepare your family and property.

Fire Hazardous Landscape

Take a look at what plant material you have on your property. Do you have defensible space? Do you have dead or dry vegetation within 30 feet of your home? Do you keep a wood pile near your home? The Fire Department has identified 5 trees and 1 plant as "High-Hazard" Plants: Eucalyptus, Juniper, Palm, Pine, and Pampas grass. If you have any of these species, consider replacing them with something less hazardous, if not ensure they are properly trimmed and maintained.

Harden Your Home

Take steps to ensure your home is ready for a potential wildfire. Some examples include:

- Address is clearly visible in front of your house
- Chimneys and vents are properly screened to prevent embers from entering your home
- Driveways should provide adequate access for emergency vehicles
- Store necessary equipment on your property or in your garage-examples include hoses hooked up to water, fire extinguishers, shovels
- Keep your property clear of debris, especially combustible debris. If there is a threatening wildfire remove all flammable (baskets, furniture, propane tanks, etc.) away from your home
- Consider purchasing an emergency pool pump that could provide water in an emergency

Figure 137: Hidden Hills Emergency Preparedness Web Page

HOME - NEWS CAROUSEL

Posted on: October 25, 2023

**WOOLSEY FIRE 5 YEAR ANNIVERSARY & DAY OF PREPAREDNESS
PUBLIC SAFETY OPEN HOUSE, NOV. 9**

CITY OF MALIBU MARKS ANNUAL DAY OF PREPAREDNESS AND THE FIVE-YEAR ANNIVERSARY OF THE DEVASTATING WOOLSEY FIRE WITH A PUBLIC SAFETY DEPARTMENT OPEN HOUSE FOR COMMUNITY MEMBERS

Five years ago on November 9, 2018, the Woolsey Fire tore a path of destruction through Malibu's natural beauty, destroying nearly 500 homes, burning almost 100,000 acres and claiming the lives of three people. The worst disaster in the City's history and the largest wildfire in Los Angeles County history left the entire community traumatized and hundreds struggling to recover and rebuild.



On November 9, 2023, the five-year anniversary of the Woolsey Fire, the City of Malibu renews its pledge to never stop working to help the community rebuild and recover. On September 9, 2019, after the Woolsey Fire, the City proclaimed November 9 as the Annual Day of Preparedness to cement its commitment to help the community to be better prepared and more resilient for wildfires.

This year, on Thursday, November 9, the City will host an Open House in the Public Safety Department's office in City Hall from 10:00 AM to 4:00 PM to help the community get prepared for wildfires.

Figure 138: Malibu Public Safety Open House

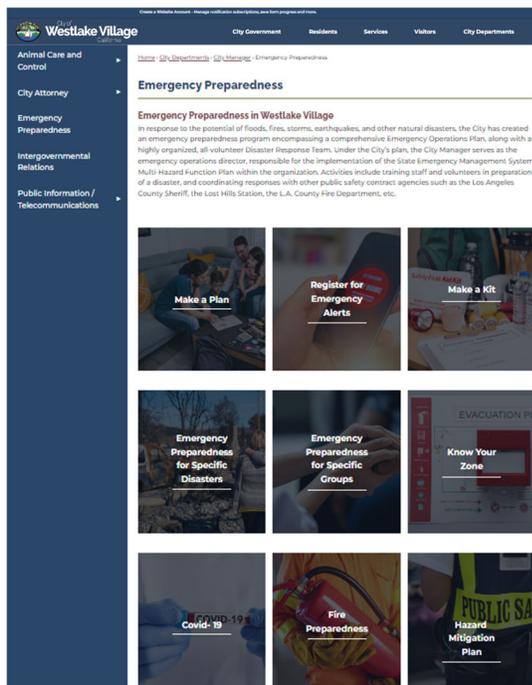


Figure 139: Westlake Village Emergency Preparedness Web Page

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 140: Agoura Hills CERT



Figure 141: Calabasas CERT



Figure 142: Hidden Hills CERT



Figure 143: Malibu CERT



Figure 144: Westlake Village CERT

Preparedness and Mitigation Planning Workshops

As part of the Multi-Jurisdictional HMP update process, a series of Public Workshops were conducted. One online workshop meeting was held for each city. All meetings were promoted by each city via their web sites, local news publications, and social media.

<p>Agoura Residents' Input Sought For Local Hazard Mitigation Plan</p> <p>The regional plan to prepare for natural and manmade hazards is getting an update and officials are requesting residents' input.</p> <p> Chris Lindahl, Patch Staff Posted Mon, Oct 23, 2023 at 6:08 pm PT</p>  <p>The Las Virgenes-Malibu Council of Governments is working to update its Hazard Mitigation Plan. (Shutterstock)</p> <p>AGOURA HILLS, CA — The Las Virgenes-Malibu Council of Governments is seeking Agoura Hills residents' input as it updates its plan to for natural and manmade hazards.</p> <p>The multi-jurisdictional Hazard Mitigation Plan is meant to promote sound public policy and programs that protect residents, infrastructure, property and the environment from hazards that may arise.</p> <p>The Las Virgenes-Malibu Council of Governments, the regional government that covers Agoura Hills, Calabasas, Hidden Hills, Malibu and Westlake Village, is inviting the public to offer input as it updates the area's plan.</p> <p>The COG meets virtually on Oct. 26 at 6 p.m. You can find out more information about how to join the Zoom meeting here.</p>	<p>Canyon News <small>REPORTS FROM THE COMMUNITY</small></p> <p>HOLLYWOOD HILLS LOS FELIZ MALIBU PACIFIC PALISADES SANTA MONICA SHERMAN OAKS STUDIO CITY TOPANGA CANYON</p>  <p>MALIBU—Community members are invited to give their input on the update of the regional Hazard Mitigation Plan at the Las Virgenes-Malibu Council of Governments (LVMCOG) virtual meeting on Thursday, October 26. The meeting will take place from 6 p.m. to 7 p.m. via Zoom.</p> <p>The city of Malibu reported on its website, the LVMCOG includes the cities of Malibu, Agoura Hills, Calabasas, Hidden Hills, and Westlake Village. Hazard Mitigation Plans are developed as a regional plan since some hazards cross jurisdictional boundaries.</p> <p>The goal of the meeting is to gather input from the community on how to decrease the impacts of natural disasters and other hazards in the area.</p> <p>During the meeting, results of a recent Risk Survey will be shared and used for discussion to review the top hazards that are issues for residents, what preparedness actions they have taken, and additional hazard reduction efforts that are needed to better protect the community.</p> <p>ZOOM LINK TO JOIN THE MEETING</p>
<p>Calabasas Residents' Input Sought For Local Hazard Mitigation Plan</p> <p>The regional plan to prepare for natural and manmade hazards is getting an update and officials are requesting residents' input.</p> <p> Chris Lindahl, Patch Staff Posted Mon, Oct 23, 2023 at 6:07 pm PT Updated Mon, Oct 23, 2023 at 6:08 pm PT</p>  <p>The Las Virgenes-Malibu Council of Governments is working to update its Hazard Mitigation Plan. (Shutterstock)</p> <p>CALABASAS, CA — The Las Virgenes-Malibu Council of Governments is seeking Calabasas residents' input as it updates its plan to for natural and manmade hazards.</p> <p>The multi-jurisdictional Hazard Mitigation Plan is meant to promote sound public policy and programs that protect residents, infrastructure, property and the environment from hazards that may arise.</p> <p>The Las Virgenes-Malibu Council of Governments, the regional government that covers Agoura Hills, Calabasas, Hidden Hills, Malibu and Westlake Village, is inviting the public to offer input as it updates the area's plan.</p> <p>The COG meets virtually on Oct. 26 at 6 p.m. You can find out more information about how to join the Zoom meeting here.</p>	<p>Westlake Village, CA</p> <p>Westlake Village Residents Invited to Discuss Hazard Mitigation Plan Update</p> <p> California Insights 28 days ago</p> <p>Public Safety Committee Meeting</p> <p>Thursday, Oct 19 3:30 PM</p> <p>Join our Zoom meeting and give input on what hazards you think the community faces and how the City can better prepare and mitigate the impact of disasters</p>  <p>Visit WLV.org to learn more.</p>

Meeting Schedule

Pubic HMP Workshop City	Workshop Date
Malibu	October 26, 2023
Agoura Hills	November 1, 2023
Calabasas	November 7, 2023
Westlake Village	November 8, 2023
Hidden Hills	November 9, 2023

Agenda

- Provide an overview of the Multi-Jurisdictional Hazard Mitigation Plan.
- Discuss the results of the recent Public Risk Survey, local hazards, issues, and concerns including issues related to the socially vulnerable.
- Obtain ideas for improvement.
- Q&A

Purpose of the Workshop:

To review disaster preparedness and mitigation issues in the local community and the updated Multi-Jurisdictional Hazard Mitigation Plan

Workshop Results

The main feedback and results received during the meeting included:

- In general, the attendees agreed with the results of the Public Risk Survey:
 - Wildfire is the primary concern especially since all the communities within the LVMCOG have a high potential for wildfire.
 - Next, the following hazards concerns were ranked (in order) Earthquake, Extended Powe Outage, Drought/Climate Change/Extreme Heat, Cyber Security, Terrorism/Mass Casualty Event, Pandemic, Windstorm, Hazardous Materials Release, Landslide/Debris Flow/Mudslide, Severe Winter Storm, Flood, and Coastal Erosion.
- Overall, attendees were concerned about the availability of homeowners insurance and the high cost of insurance. In fact, it was noted that several large insurance carriers have left the state and that the cost of homeowners insurance has risen geometrically over the past several years. Consequently, attendees suggested developing efforts to assist in securing reliable homeowners insurance for residents
- Other common concerns by the workshop attendees included the local homeless population which included the increased risk of wildfires starting at homeless encampments as well as the increase in crime throughout the region.
- Finally, several attendees mentioned their concerns about the adequacy of evacuation routes and planning, especially if another major wildfire occurs in the area (similar to the Woolsey Fire). While each city has established evacuation routes, additional focus was suggested to ensure that traffic management strategies are in place as well as debris removal plans to clear roads and facilitate the evacuation process.

Integration of Public Input into the Hazard Mitigation Plan

The input received from the public at the Preparedness and Mitigation Planning Workshops was integrated into this Hazard Mitigation Plan update including the Risk Assessment (see **Section 3**) and Hazard Mitigation Strategies and Projects (see **Section 4**).

- The Risk Assessment hazards list was updated and the public’s concerns were used to confirm the priorities developed by the LVMCOG Governing Board and Planning Group. Furthermore, additional risk sections were developed to address the risk of Energy Disruption (e.g., utility outages) and Climate Change.
- The Hazard Mitigation Strategies and Projects were reviewed and when feasible those ideas that related to hazard mitigation were integrated into the existing mitigation project strategies. Specific issues included were:
 - Improved Public Awareness Programs.
 - Further development of CERT programs.
 - Working with SCE to address concerns related to Energy Disruptions and Wildfire risk.

SECTION 20. ANNEX F: FLOOD INSURANCE RATE MAPS

This section provides selected Flood Insurance Rate Maps (FIRM) for the cities within the Las Virgenes-Malibu Council of Governments. This information is provided for planning purposes and is not a predictor of future events. The following FIRM notes apply to the maps included.

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood elevations (BFEs)** and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply on landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements for the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator (UTM) zone 11. The **horizontal datum** was NAD83, GRS1980 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov/> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, MD 20910-3282

To obtain current elevation description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit its website at <http://www.ngs.noaa.gov/>.

Base map information shown on this FIRM was derived from U.S. Geological Survey Digital Orthophoto Quadrangles produced at a scale of 1:12,000 from photography dated 1994 or later and from National Geospatial Intelligence Agency imagery produced at a scale of 1:4,000 from photography dated 2003 or later.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables *in the Flood Insurance Study report (which contains authoritative hydraulic data)* may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a *Flood insurance Study report*, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov/>.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/>.

LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

ZONE A No Base Flood Elevations determined.

ZONE AE Base Flood Elevations determined.

ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.

ZONE AR Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.

ZONE A99 Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.

ZONE V Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.

ZONE VE Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

ZONE X Areas determined to be outside the 0.2% annual chance floodplain.

ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

1% annual chance floodplain boundary
0.2% annual chance floodplain boundary
Floodway boundary
Zone D boundary
CBRS and OPA boundary

Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.

Base Flood Elevation line and value; elevation in feet*
Base Flood Elevation value where uniform within zone; elevation in feet*

* Referenced to the North American Vertical Datum of 1988 (NAVD 88)

Cross section line
Transect line

Geographic coordinates referenced to the North American Datum of 1983 (NAD 83)
1000-meter Universal Transverse Mercator grid values, zone 11
5000-foot grid ticks: California State Plane coordinate system, V zone (FIPSZONE 0405), Lambert Conformal Conic

Bench mark (see explanation in Notes to Users section of this FIRM panel)
River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
September 28, 2008
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT
THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT [HTTP://MSC.FEMA.GOV](http://MSC.FEMA.GOV)

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee See Notes Zone X
OTHER AREAS		Areas of Minimal Flood Hazard Zone X
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert or Storm Sewer
		Levee, Dike or Floodwall
OTHER FEATURES		18.2 Cross Sections with 1% Annual Chance Water Surface Elevation (BFE) 17.5
		Coastal Transect
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
	513 Base Flood Elevation Line (BFE)	
	Limit of Study	
	Jurisdiction Boundary	

SCALE

Map Projection:
Universal Transverse Mercator Zone 11N; North American Datum 1983;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet **1:6,000**

0 250 500 750 1,000 2,000 feet
0 125 250 500 meters

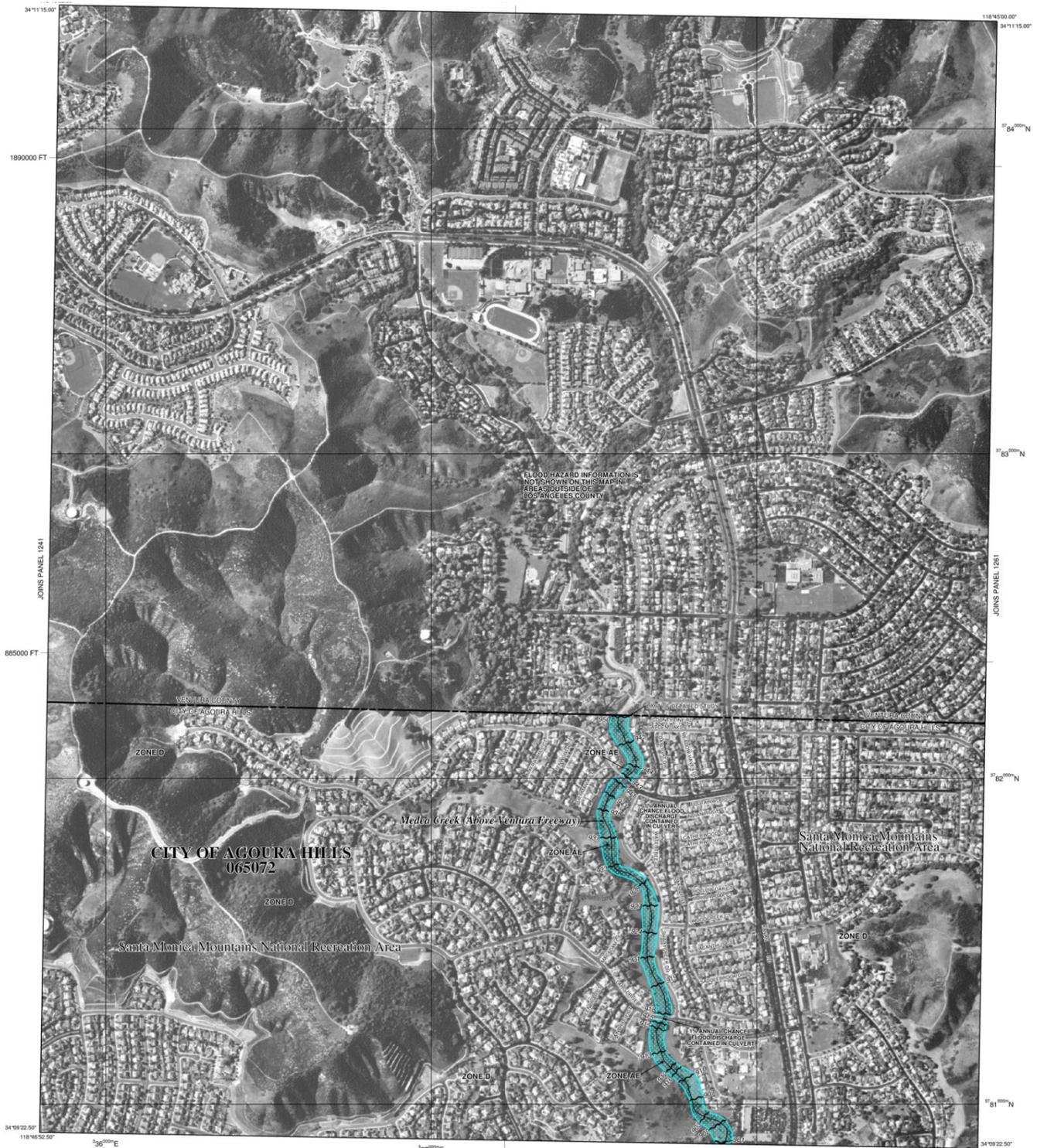
PANEL LOCATOR

*PANEL NOT PRINTED

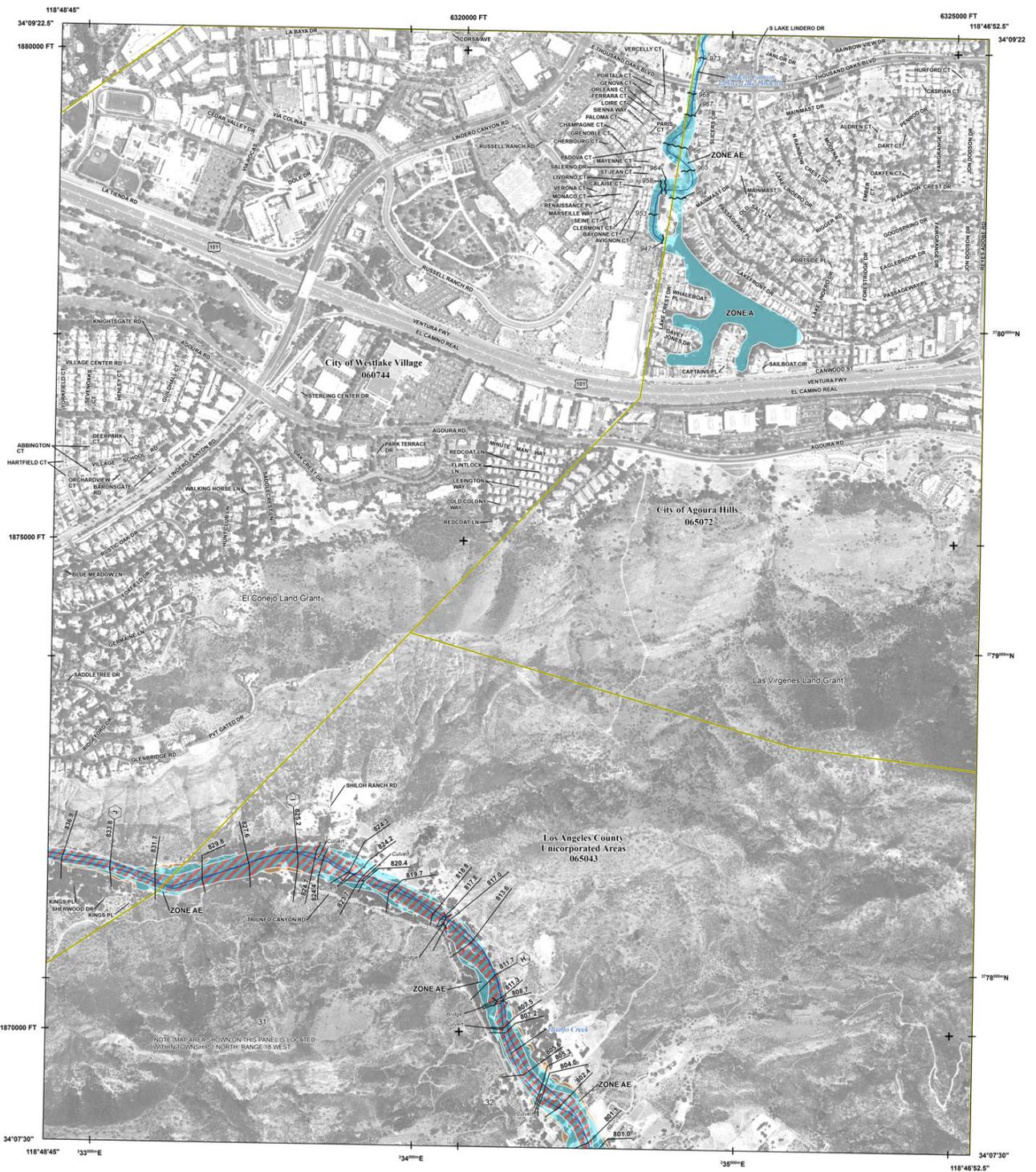
CITY OF AGOURA HILLS FIRMS



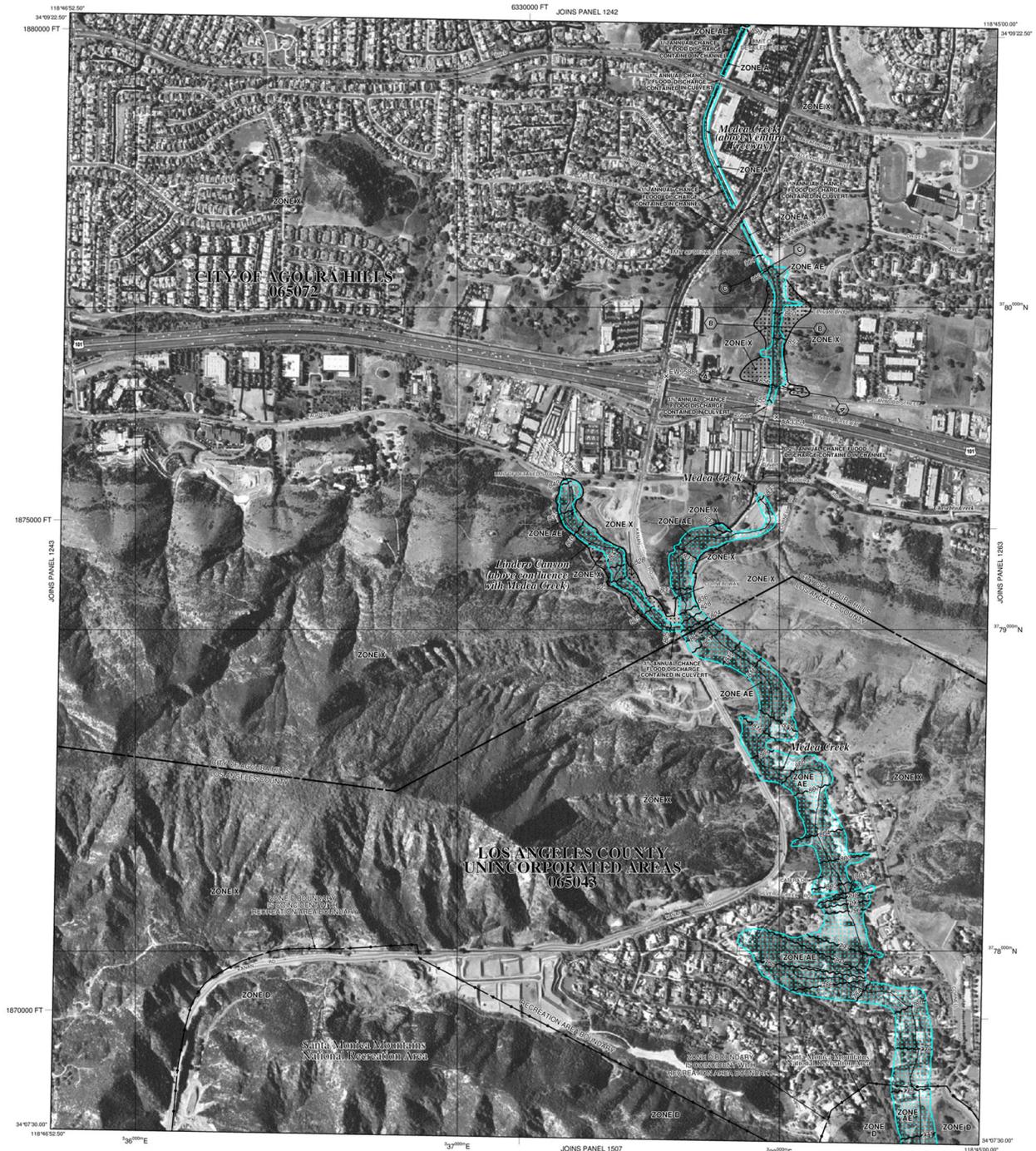
Map 99: Agoura Hills and Westlake Village FIRM Panel 1241



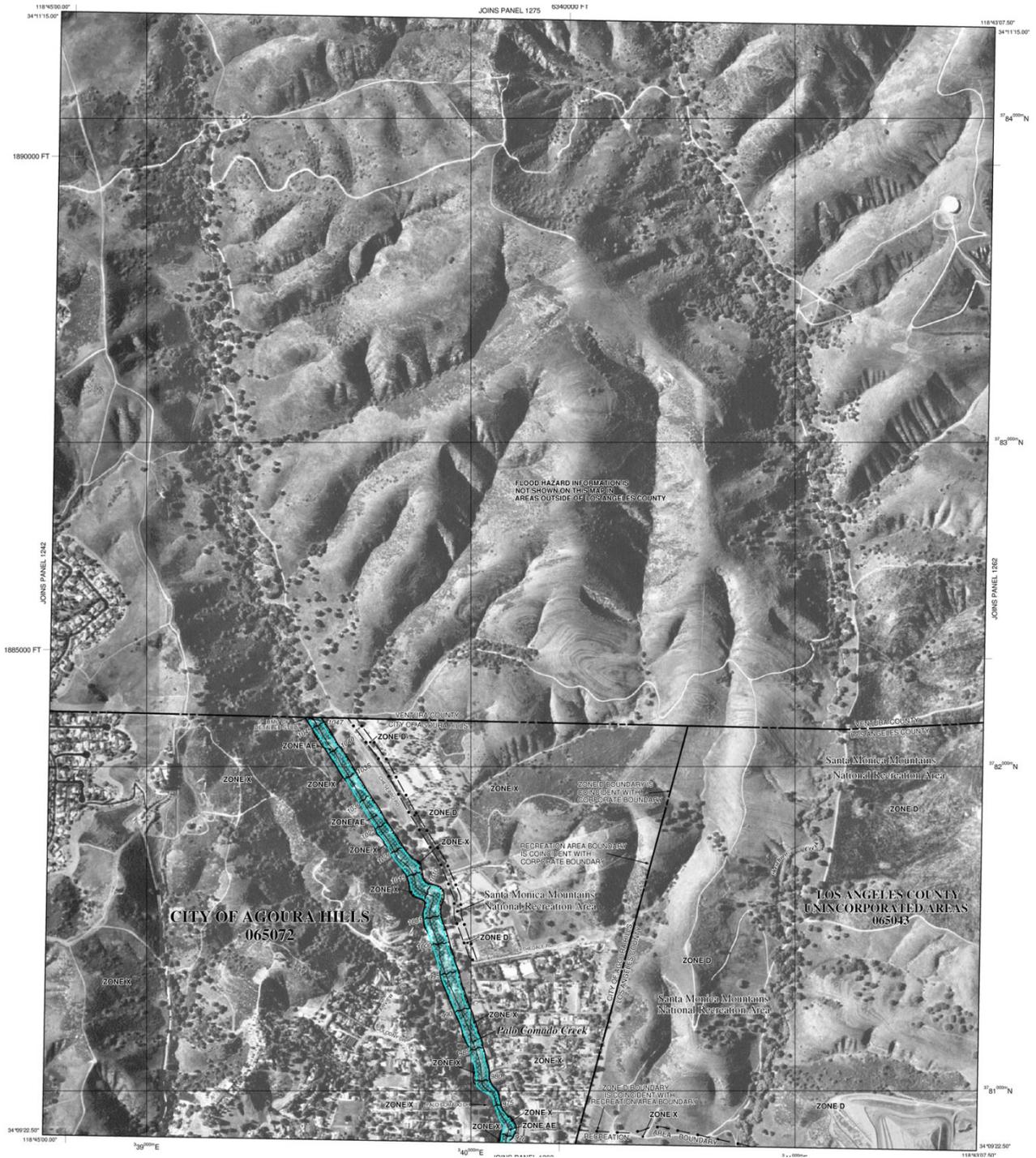
Map 100: Agoura Hills FIRM Panel 1242



Map 101: Agoura Hills FIRM Panel 1243

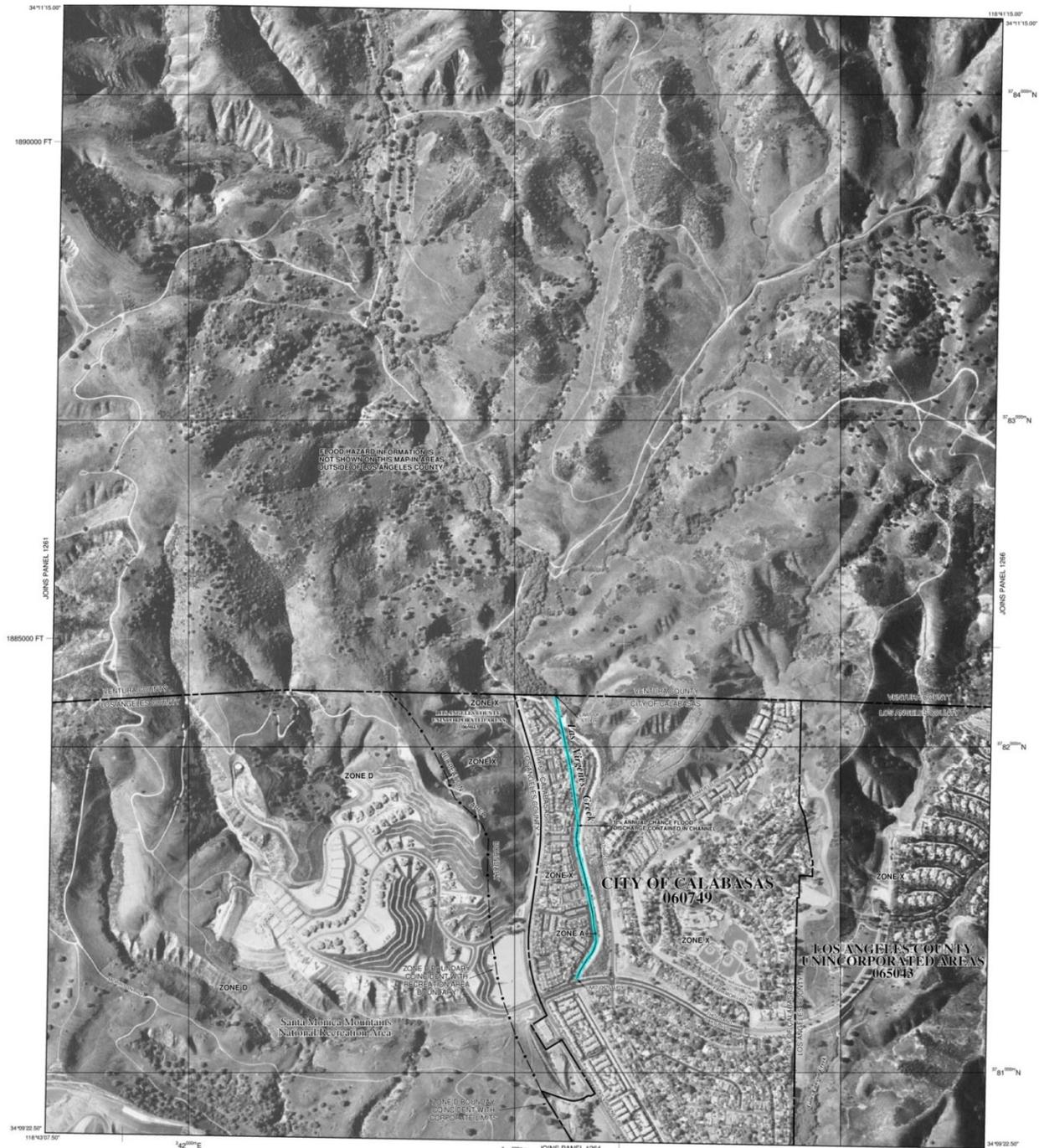


Map 102: Agoura Hills FIRM Panel 1244

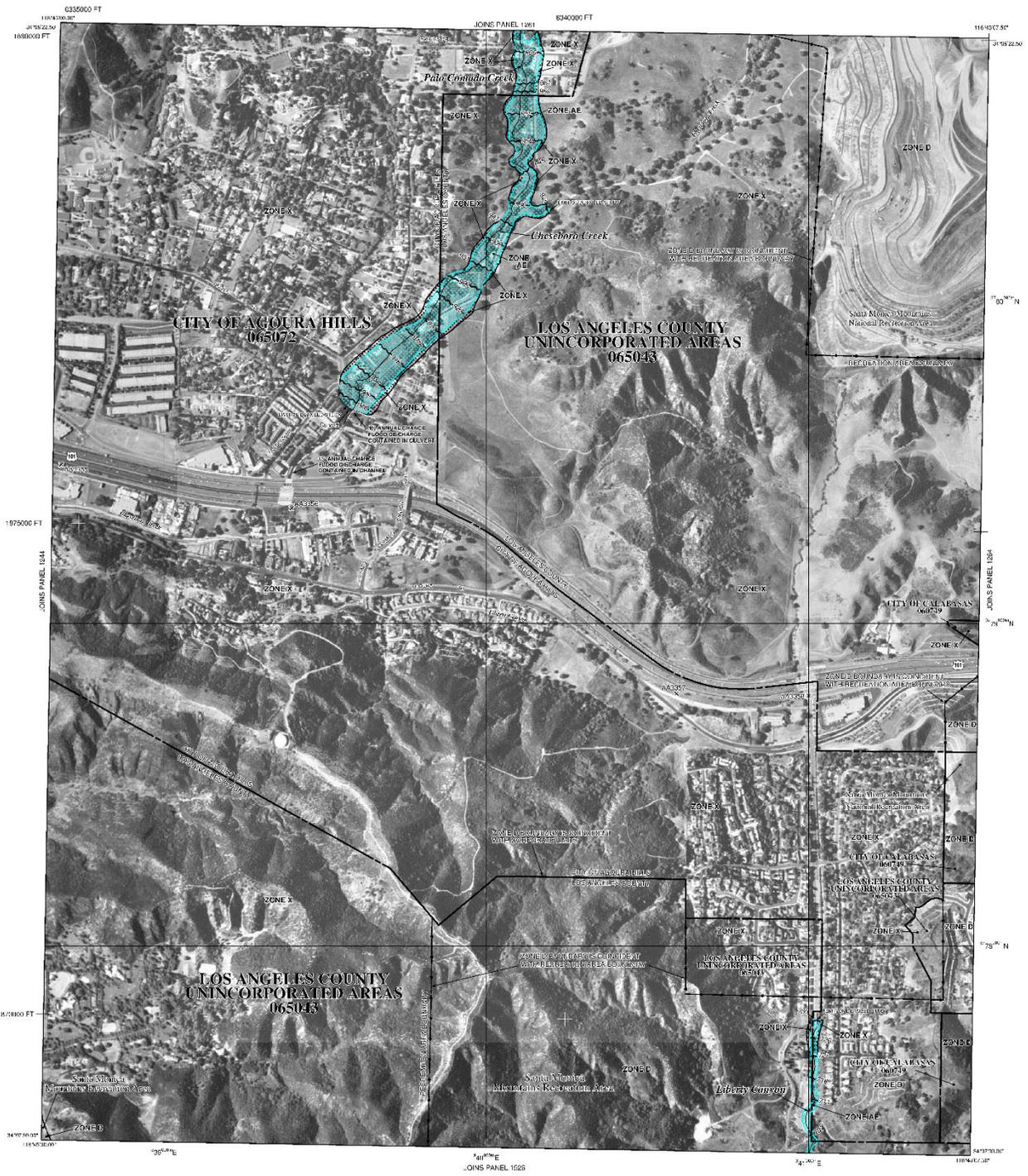


Map 103: Agoura Hills FIRM Panel 1261

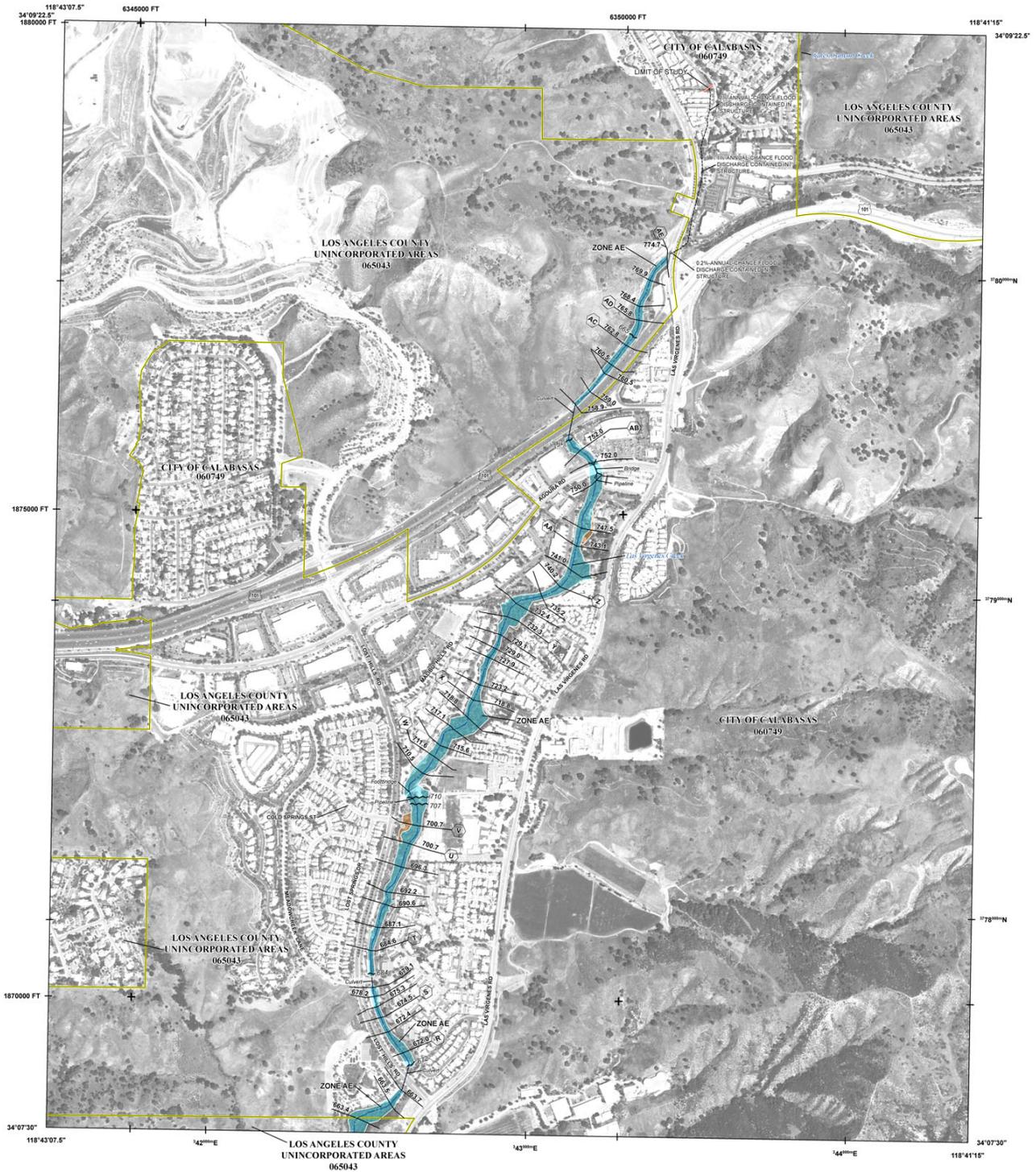
CITY OF CALABASAS FIRMS



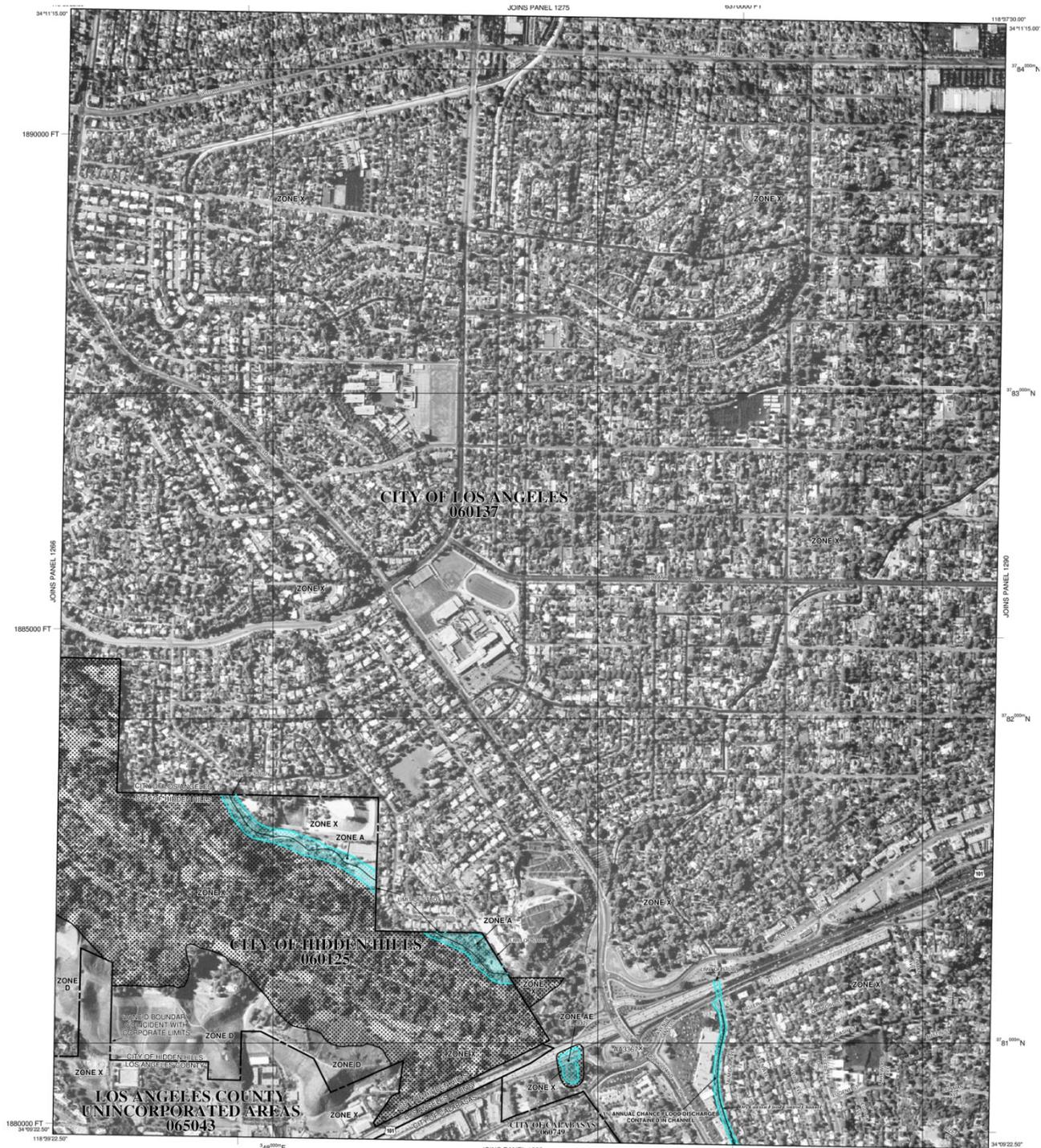
Map 105: Calabasas FIRM Panel 1262



Map 106: Calabasas FIRM Panel 1263



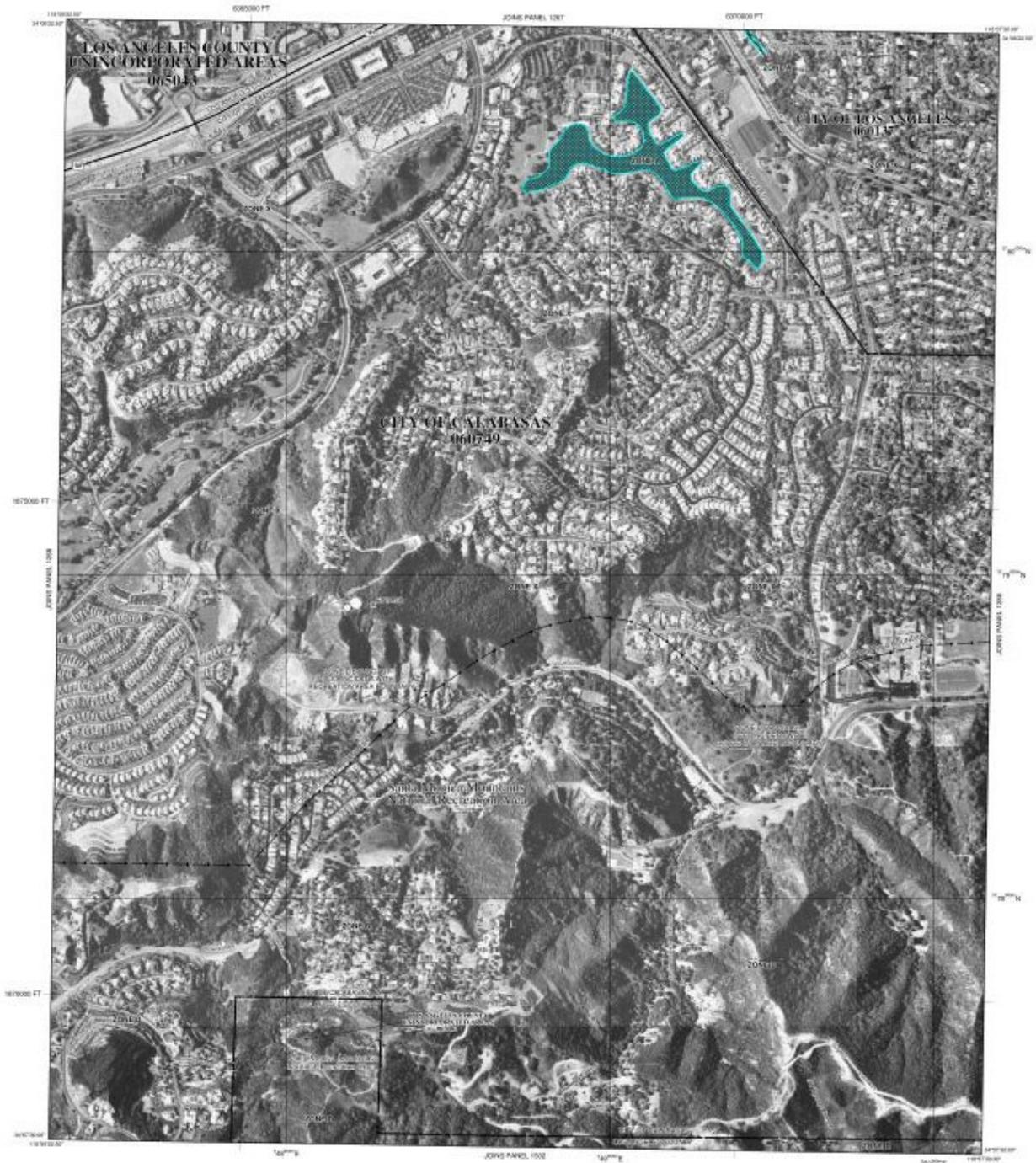
Map 107: Calabasas FIRMs Panel 1264



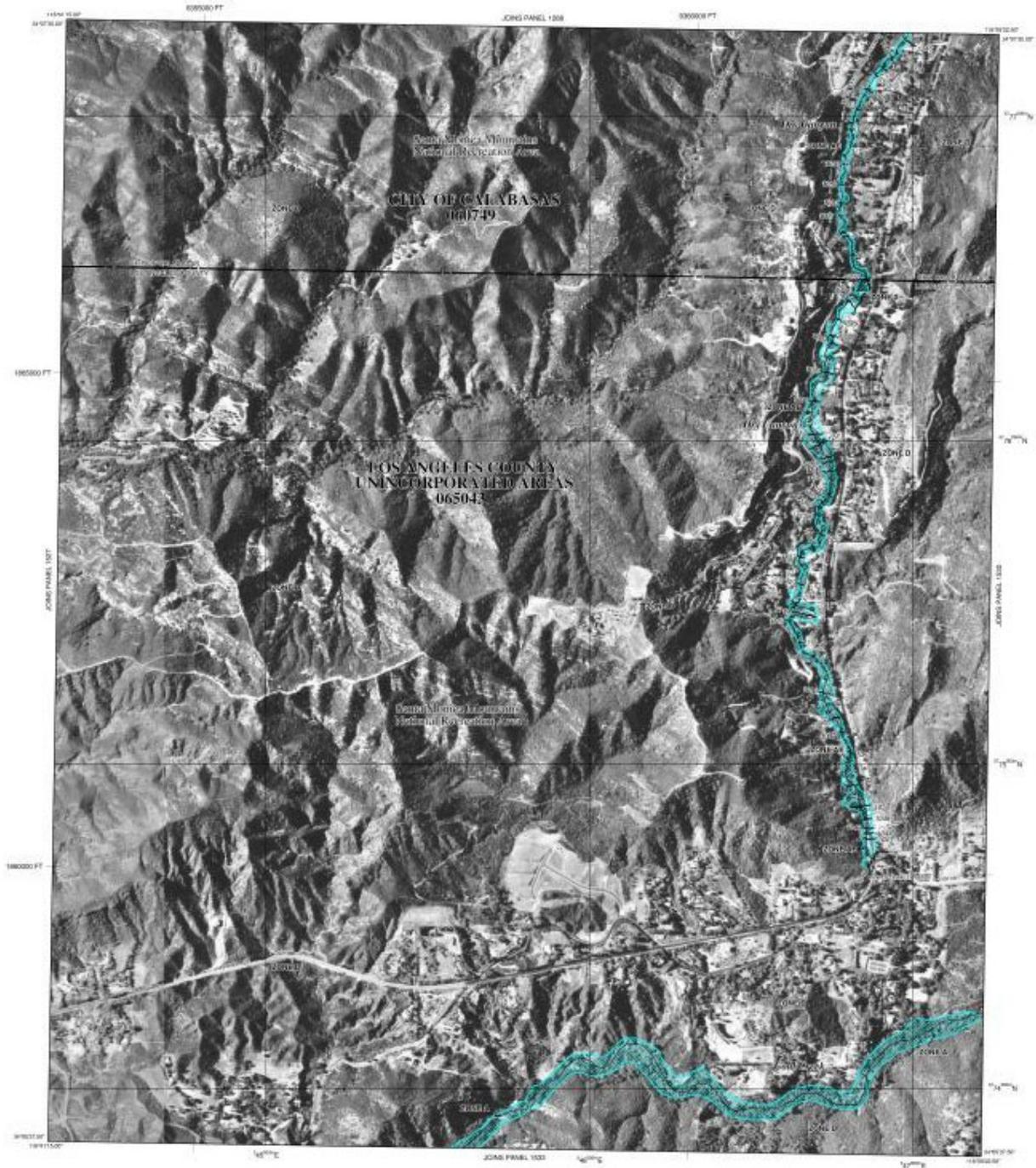
Map 108: Calabasas FIRM Panel 1267



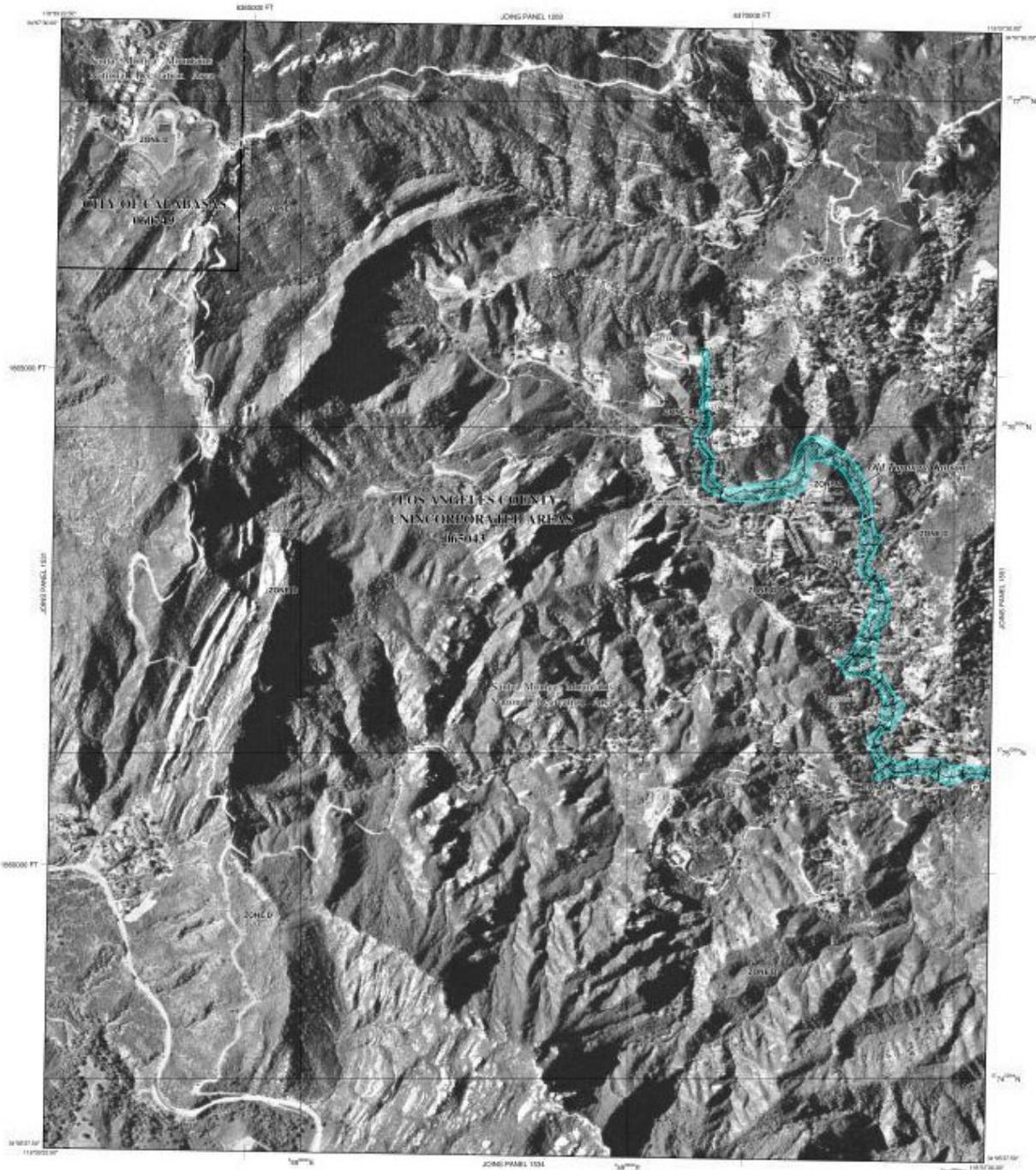
Map 109: Calabasas FIRM Panel 1268



Map 110: Calabasas FIRM Panel 1269



Map 112: Calabasas FIRM Panel 1531



Map 114: Calabasas FIRM Panel 1532