

**SECTION 12. 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.

| <b>Name</b>  | <b>Category</b>                                    | <b>Web Site Address</b>             | <b>Description</b>  |
|--|--|-------------------------------------|---|
| <b>Army Corps of Engineers</b>   | Federal Government                                 | www.usace.army.mil                  | Flood and dam information   |
| <b>Association of State Floodplain Managers</b>  | Research, Educational, and Standards Organizations | www.floods.org                      | Flood mitigation and planning information                                   |
| <b>Building Seismic Safety Council (BSSC)</b>  | Research, Educational, and Standards Organizations | www.bssconline.org                  | Earthquake and seismic code information                                     |
| <b>Decline of the Californios: A Social History of the Spanish-Speaking Californias, 1846-1890</b> | Publications                                       |                                     | Author: Leonard Pitt  |
| <b>California Department of Conservation: Southern California Regional Office</b>                  | State Government                                   | www.consrv.ca.gov                   | Earthquake and flood information  |
| <b>California Department of Transportation (Caltrans)</b>  | State Government                                   | www.dot.ca.gov                      | Transportation and traffic information                                      |
| <b>California Department of Water Resources (DWR)</b>  | State Government                                   | www.water.ca.gov                    | Flood information   |
| <b>California Division of Forestry &amp; Fire Protection</b>                                       | State Government                                   | www.fire.ca.gov                     | Fire codes, landslide, wildfire mitigation and programs                     |
| <b>California Division of Mines and Geology (DMG)</b>  | State Government                                   | www.consrv.ca.gov                   | Earthquake information  |
| <b>California Emergency Management Agency (Cal EMA)</b>  | State Government                                   | www.oes.ca.gov                      | State hazard mitigation guidance  |
| <b>California Geological Survey, Department of Conservation</b>                                    | State Government                                   | www.consrv.ca.gov                   | Earthquake information  |
| <b>California Resources Agency</b>   | State Government                                   | www.resources.ca.gov                | Earthquake information  |
| <b>California State Controller's Office</b>  | State Government                                   | www.sco.ca.gov/and_state_cafir.html | City Comprehensive Financial Reports  |
| <b>City of Agoura Hills</b>  | Local Government                                   | www.ci.agoura-hills.ca.us           | Local profile, planning, hazard, and mitigation information                 |
| <b>City of Calabasas</b>   | Local Government                                   | www.ci.calabasas.ca.us              | General Plan<br>Local profile, planning, hazard, and mitigation information |
| <b>City of Hidden Hills</b>  | Local Government                                   | www.hiddenhillscity.org             | General Plan<br>Local profile, planning, hazard, and mitigation information |

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| <b>Name</b>   | <b>Category</b>                                    | <b>Web Site Address</b>  | <b>Description</b>   |
|---|--|--|--|
| <b>City of Malibu</b>   | Local Government                                   | <a href="http://www.malibucity.org">www.malibucity.org</a>   | General Plan<br>Local profile, planning, hazard, and mitigation information        |
| <b>City of Westlake Village</b>   | Local Government                                   | <a href="http://www.wlv.org">www.wlv.org</a>   | General Plan<br>Local profile, planning, hazard, and mitigation information        |
| <b>Department of Homeland Security</b>  | Federal Government                                 | <a href="http://www.dhs.gov">www.dhs.gov</a>   | Terrorism response, preparedness, and threats                                      |
| <b>Federal Bureau of Investigation</b>  | Federal Law Enforcement                            | <a href="http://www.fbi.gov">www.fbi.gov</a>   | Terrorism response, preparedness, and threats                                      |
| <b>Federal Emergency Management Agency, Mitigation Agency</b>                       | Federal Government                                 | <a href="http://www.fema.gov/about/divisions/mitigation.shtm">www.fema.gov/about/divisions/mitigation.shtm</a>   | Federal mitigation plan requirements and information<br>Flood information and maps |
| <b>Firewise</b>   | Research, Educational, and Standards Organizations | <a href="http://www.firewise.org">www.firewise.org</a>   | Fire / wildfire mitigation and programs  |
| <b>Fresno Bee</b>   | News Organization                                  | <a href="http://www.fresnobee.com/2011/07/30/2482785/12-2nteractive-map-a-history-of-wildfires.html">www.fresnobee.com/2011/07/30/2482785/12-2nteractive-map-a-history-of-wildfires.html</a> | History of Wildfires in California   |
| <b>International Code Council, Los Angeles Basin Chapter</b>                        | Research, Educational, and Standards Organizations | <a href="http://www.icclabc.org">www.icclabc.org</a>   | Building Code information  |
| <b>Las Virgenes Municipal Water District</b>  | Utility  | <a href="http://www.lvmwd.com">www.lvmwd.com</a>   | Water and dam information  |
| <b>Los Angeles County Department of Beaches and Harbors</b>                         | Local and Regional Government                      | <a href="http://file.lacounty.gov/dbh/cms1_145176.jpg">http://file.lacounty.gov/dbh/cms1_145176.jpg</a>  | Zuma Beach information   |
| <b>Los Angeles County Fire Department</b>   | Local and Regional Government                      | <a href="http://www.lacofd.org">www.lacofd.org</a>   | Fire codes and wildfire mitigation and programs                                    |
| <b>Los Angeles County Office of Emergency Services</b>                              | Local and Regional Government                      | <a href="http://www.lacoa.org">www.lacoa.org</a>   | Disaster and mitigation information. Disaster Management Areas.                    |
| <b>Los Angeles County Office of the Assessor</b>                                    | Local and Regional Government                      | <a href="http://www.assessor.lacounty.gov">www.assessor.lacounty.gov</a>   | Property tax information   |
| <b>Los Angeles County Public Works Department</b>                                   | Local and Regional Government                      | <a href="http://www.ladpw.org">www.ladpw.org</a>   | Earthquake and debris removal information  |
| <b>Los Angeles Sheriff's Department</b>   | Local Law Enforcement                              | <a href="http://www.sheriff.lacounty.gov">www.sheriff.lacounty.gov</a>   | Terrorism response, preparedness, and threats                                      |
| <b>National Flood Insurance Program (NFIP)</b>                                      | Federal Government                                 | <a href="http://www.fema.gov/nfip">www.fema.gov/nfip</a>   | Flood information  |
| <b>National Interagency Fire Center (NIFC)</b>                                      | Federal Government                                 | <a href="http://www.nifc.gov">www.nifc.gov</a>   | Fire codes and wildfire mitigation and programs                                    |
| <b>National Resources Conservation Service (NRCS), US Department of Agriculture</b> | Federal Government                                 | <a href="http://www.nrcs.gov">www.nrcs.gov</a>   | Flood mitigation, landslide, and watershed projects                                |
| <b>National Weather Service</b>   | Federal Government                                 | <a href="http://www.noaa.gov">www.noaa.gov</a>   | Weather statistics   |
| <b>National Transportation Safety Board (NTSB)</b>                                  | Federal Government                                 | <a href="http://www.nts.gov">www.nts.gov</a>   | San Bruno Pipeline Explosion Information   |

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| <b>Name</b>   | <b>Category</b>                                    | <b>Web Site Address</b>  | <b>Description</b>                                    |
|---|--|--|---|
| <b>Office of the State Fire Marshal (OSFM)</b>                                    | State Government                                   | <a href="http://www.osfm.fire.ca.gov">www.osfm.fire.ca.gov</a>             | Fire codes and wildfire mitigation and programs       |
| <b>Pipelines and Hazards Materials Safety Division</b>                            | Federal Government                                 | <a href="http://www.phmsa.dot.gov">www.phmsa.dot.gov</a>                   | Pipeline Data   |
| <b>Southern California Area Governments (SCAG)</b>                                | Local and Regional Government                      | <a href="http://www.scag.ca.gov">www.scag.ca.gov</a>                       | Principal Property Tax Payers and Employers           |
| <b>Southern California Earthquake Center (SCEC)</b>                               | Research, Educational, and Standards Organizations | <a href="http://www.scec.org">www.scec.org</a>                             | Earthquake and fault information                      |
| <b>Terrorism Research</b>   | Research, Educational, and Standards Organizations | <a href="http://www.terrorism-research.com">www.terrorism-research.com</a> | Terrorism Information – Terrorism Categories          |
| <b>U.S. Department of the Interior, Bureau of Reclamation</b>                     | Federal Government                                 | <a href="http://www.usbr.gov">www.usbr.gov</a>                             | Flood information                                     |
| <b>U.S. Fire Administration (USFA) of the Federal Emergency Management Agency</b> | Federal Government                                 | <a href="http://www.usfa.fema.gov">www.usfa.fema.gov</a>                   | Fire codes and wildfire mitigation and programs       |
| <b>U.S. Geological Survey</b>   | Federal Government                                 | <a href="http://www.usgs.gov">www.usgs.gov</a>                             | Earthquake information                                |
| <b>U.S. Census Bureau</b>   | Federal Government                                 | <a href="http://www.census.gov">www.census.gov</a>                         | Demographic information                               |
| <b>U.S. State Department</b>  | Federal Government                                 | <a href="http://www.state.gov">www.state.gov</a>                           | Terrorism Information                                 |
| <b>USC Geospatial Institute</b>   | Research, Educational, and Standards Organizations | <a href="http://www.spatial.usc.edu">www.spatial.usc.edu</a>               | Area and hazard mapping, loss estimates, and Hazus-MH |
| <b>USGS National Landslide Information Center</b>                                 | Federal Government                                 | <a href="http://www.landslides.usgs/nlic">www.landslides.usgs/nlic</a>     | Landslide information                                 |
| <b>USGS Water Resources</b>   | Federal Government                                 | <a href="http://www.water.usgs.gov">www.water.usgs.gov</a>                 | Flood information                                     |
| <b>Western States Seismic Policy Council (WSSPC)</b>                              | Research, Educational, and Standards Organizations | <a href="http://www.wsspc.org">www.wsspc.org</a>                           | Earthquake information                                |

## SECTION 13. ANNEX B: LOCAL HAZARD MITIGATION PLAN REVIEW CROSSWALK

### INSTRUCTIONS FOR USING THE PLAN REVIEW CROSSWALK FOR REVIEW OF LOCAL MITIGATION PLANS

Attached is a Plan Review Crosswalk based on the **Local Multi-Hazard Mitigation Planning Guidance**, published by FEMA in July, 2008. This Plan Review Crosswalk is consistent with the *Robert T. Stafford Disaster Relief and Emergency Assistance Act* (Stafford Act), as amended by Section 322 of the *Disaster Mitigation Act of 2000* (P.L. 106-390), the *National Flood Insurance Act of 1968*, as amended by the *National Flood Insurance Reform Act of 2004* (P.L. 108-264) and *44 Code of Federal Regulations (CFR) Part 201 – Mitigation Planning*, inclusive of all amendments through October 31, 2007.

#### SCORING SYSTEM

**N – Needs Improvement:** The plan does not meet the minimum for the requirement. Reviewer’s comments must be provided.

**S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer’s comments are encouraged, but not required.

Each requirement includes separate elements. All elements of a requirement must be rated “Satisfactory” in order for the requirement to be fulfilled and receive a summary score of “Satisfactory.” A “Needs Improvement” score on elements shaded in gray (recommended but not required) will not preclude the plan from passing.

When reviewing single jurisdiction plans, reviewers may want to put an N/A in the boxes for multi-jurisdictional plan requirements. When reviewing multi-jurisdictional plans, however, all elements apply. States that have additional requirements can add them in the appropriate sections of the *Local Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements. Optional matrices for assisting in the review of sections on profiling hazards, assessing vulnerability, and identifying and analyzing mitigation actions are found at the end of the Plan Review Crosswalk.

#### The example below illustrates how to fill in the Plan Review Crosswalk.:

| <b>Example</b>   |   |                     |       |   |
|--|---|---------------------|-------|---|
| <b>Assessing Vulnerability: Overview</b>   |   |                     |       |   |
| <b>Requirement §201.6(c)(2)(ii):</b> <i>[The risk assessment shall include a] description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community.</i> |   |                     |       |   |
| Element  | Location in the Plan (section or annex and page #)  | Reviewer’s Comments | SCORE |   |
|  |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan include an <b>overall summary</b> description of the jurisdiction’s <b>vulnerability</b> to each hazard?  | Risk Assessment 3-1 to 3-22<br>Summary Table 3-7  |                     |       |   |
| B. Does the <b>new or updated</b> plan address the <b>impact</b> of each hazard on the jurisdiction?   | Risk Assessment 3-16<br>Earthquake 6-9 to 6-13<br>Wildfire 7-3 to 7-9<br>Wind 8-1 to 8-3<br>Landslide 9-4 to 9-8<br>Flood 10-4 to 10-6<br>Terrorism 11-2 to 11-10<br>Annex F: FIRM 17-1 |                     |       |   |
| <b>SUMMARY SCORE</b>   |   |                     | □     |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**LOCAL MITIGATION PLAN REVIEW SUMMARY**

The plan cannot be approved if the plan has not been formally adopted. Each requirement includes separate elements. All elements of the requirement must be rated "Satisfactory" in order for the requirement to be fulfilled and receive a score of "Satisfactory." Elements of each requirement are listed on the following pages of the Plan Review Crosswalk. A "Needs Improvement" score on elements shaded in gray (recommended but not required) will not preclude the plan from passing. Reviewer's comments must be provided for requirements receiving a "Needs Improvement" score.

| Prerequisite(s) (Check Applicable Box)   | NOT MET                  | MET                      |
|--|--------------------------|--------------------------|
| <b>1. Adoption by the Local Governing Body: §201.6(c)(5) OR</b>  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Multi-Jurisdictional Plan Adoption: §201.6(c)(5)<br><b>AND</b>  | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Multi-Jurisdictional Planning Participation: §201.6(a)(3)   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Planning Process</b>  | <b>N</b>                 | <b>S</b>                 |
| 4. Documentation of the Planning Process: §201.6(b) and §201.6(c)(1)   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Risk Assessment</b>   | <b>N</b>                 | <b>S</b>                 |
| 5. Identifying Hazards: §201.6(c)(2)(i)  | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Profiling Hazards: §201.6(c)(2)(i)  | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Assessing Vulnerability: Overview: §201.6(c)(2)(ii)   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>8. Assessing Vulnerability: Addressing Repetitive Loss Properties. §201.6(c)(2)(ii)</b>                       | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Assessing Vulnerability: Identifying Structures, Infrastructure, and Critical Facilities: §201.6(c)(2)(ii)(B) | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Assessing Vulnerability: Estimating Potential Losses: §201.6(c)(2)(ii)(B)                                    | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Assessing Vulnerability: Analyzing Development Trends: §201.6(c)(2)(ii)(C)                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Multi-Jurisdictional Risk Assessment: §201.6(c)(2)(iii)  | <input type="checkbox"/> | <input type="checkbox"/> |

\*States that have additional requirements can add them in the appropriate sections of the *Local Multi-Hazard Mitigation Planning Guidance* or create a new section and modify this Plan Review Crosswalk to record the score for those requirements.

**SCORING SYSTEM**

Please check one of the following for each requirement.

**N – Needs Improvement:** The plan does not meet the minimum for the requirement. Reviewer's comments must be provided.

**S – Satisfactory:** The plan meets the minimum for the requirement. Reviewer's comments are encouraged, but not required.

| Mitigation Strategy   | N                        | S                        |
|---|--------------------------|--------------------------|
| 13. Local Hazard Mitigation Goals: §201.6(c)(3)(i)  | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Identification and Analysis of Mitigation Actions: §201.6(c)(3)(ii)                         | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>15. Identification and Analysis of Mitigation Actions: NFIP Compliance. §201.6(c)(3)(ii)</b> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Implementation of Mitigation Actions: §201.6(c)(3)(iii)                                     | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Multi-Jurisdictional Mitigation Actions: §201.6(c)(3)(iv)                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>Plan Maintenance Process</b>   | <b>N</b>                 | <b>S</b>                 |
| 18. Monitoring, Evaluating, and Updating the Plan: §201.6(c)(4)(ii)                             | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. Incorporation into Existing Planning Mechanisms: §201.6(c)(4)(ii)                           | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. Continued Public Involvement: §201.6(c)(4)(iii)   | <input type="checkbox"/> | <input type="checkbox"/> |
| <b>State</b>  |                          |                          |
| Multi-jurisdictional: Letter of Commitment for each jurisdiction                                | <input type="checkbox"/> | <input type="checkbox"/> |
| Summary of mitigation projects  | <input type="checkbox"/> | <input type="checkbox"/> |
| Summary of hazards  | <input type="checkbox"/> | <input type="checkbox"/> |

**LOCAL MITIGATION PLAN APPROVAL STATUS**

**PLAN NOT APPROVED**

**See Reviewer's Comments**

**PLAN APPROVED**

**LOCAL MITIGATION PLAN REVIEW CROSSWALK****TABLE A: SUMMARY OF MITIGATION ACTIONS**

This table will assist FEMA and the State in identifying potential projects, actions or strategies for various mitigation grant programs and whether the identified projects, actions or strategies are consistent with State and Local Jurisdiction Hazard Mitigation Plans. Local jurisdictions may find the table useful to ensure that their plan addresses each hazard that can affect the jurisdiction and possible actions to reduce risk to their respective community. **Completing this table is required.** *Identifying Mitigation Actions §201.6(c)(3)(iii).*

| A  | B  |                                      | C                               | D                           | E                          | F                                | G                             | H                           |
|--|--|--------------------------------------|---------------------------------|-----------------------------|----------------------------|----------------------------------|-------------------------------|-----------------------------|
| Mitigation Action by Grant Activity Type                         | Page # – Location in Plan Where Actions are Identified |                                      | Total # of Projects All Hazards | Flood Hazard Project # Only | Fire Hazard Project # Only | Earthquake Hazard Project # Only | Tsunami Hazard Project # Only | Other Hazard Project # Only |
| General Mitigation Project (including COOP/COG)                  | 4-16<br>4-23<br>4-26<br>4-46                           | 4-48<br>4-69<br>4-71                 | 7                               | N/A                         | N/A                        | N/A                              | N/A                           | 7                           |
| Property Acquisition and Structural Demolition                   | N/A  |                                      | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Property Acquisition and Structural Relocation                   | N/A  |                                      | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Structural Elevation   | N/A  |                                      | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Mitigation Reconstruction  | N/A  |                                      | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Dry Floodproofing of Historic Residential Structures             | N/A  |                                      | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Dry Floodproofing of Non-residential Structures                  | N/A  |                                      | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Minor Localized Flood Reduction Projects                         | 4-37<br>4-50<br>4-51<br>4-54<br>4-55<br>4-56           | 4-58<br>4-60<br>4-61<br>4-66<br>4-75 | 14                              | 14                          | N/A                        | N/A                              | N/A                           | N/A                         |
| Structural Retrofitting of Existing Buildings                    | 4-30   |                                      | 1                               | N/A                         | N/A                        | N/A                              | N/A                           | 1                           |
| Non-structural Retrofitting of Existing Buildings and Facilities | 4-30   |                                      | 1                               | N/A                         | N/A                        | N/A                              | N/A                           | 1                           |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

| A  | B  |  | C                               | D                           | E                          | F                                | G                             | H                           |
|--|--|--|---------------------------------|-----------------------------|----------------------------|----------------------------------|-------------------------------|-----------------------------|
| Mitigation Action by Grant Activity Type         | Page # – Location in Plan Where Actions are Identified |  | Total # of Projects All Hazards | Flood Hazard Project # Only | Fire Hazard Project # Only | Earthquake Hazard Project # Only | Tsunami Hazard Project # Only | Other Hazard Project # Only |
| Infrastructure Retrofit                          | 4-17<br>4-26<br>4-31<br>4-48<br>4-50<br>4-56<br>4-58   | 4-60<br>4-61<br>4-62<br>4-63<br>4-66<br>4-69<br>4-75 | 17                              | 6                           | N/A                        | N/A                              | N/A                           | 11                          |
| Soil Stabilization                               | 4-44   |  | 1                               | N/A                         | N/A                        | N/A                              | N/A                           | 1                           |
| Wildfire Mitigation                              | 4-22<br>4-39<br>4-40<br>4-41                           | 4-63<br>4-72<br>4-73                                 | 7                               | N/A                         | 7                          | N/A                              | N/A                           | N/A                         |
| Post-Disaster Code Enforcement                   | N/A  |  | 0                               | 0                           | 0                          | 0                                | 0                             | 0                           |
| Hazard Mitigation Planning                       | 4-16<br>4-32<br>4-45<br>4-49                           | 4-54<br>4-64<br>4-70                                 | 7                               | N/A                         | N/A                        | N/A                              | N/A                           | 7                           |
| Other <u>Public Notification/Communication</u>   | 4-26   |  | 1                               | N/A                         | N/A                        | N/A                              | N/A                           | 1                           |
| Other <u>Education and Awareness/Preparation</u> | 4-20<br>4-28<br>4-35                                   | 4-43<br>4-74<br>4-76                                 | 6                               | N/A                         | N/A                        | N/A                              | N/A                           | 6                           |
| Other <u>Emergency Shelter/Evacuation</u>        | 4-18<br>4-47   | 4-57<br>4-59   | 4                               | N/A                         | N/A                        | N/A                              | N/A                           | 4                           |

Legend:

§201.6(c)(3)(iii) Mitigation Actions

- A. Type of eligible activity per the FEMA Hazard Mitigation Assistance Unified Guidance for HMGP, PDM, FMA, SRL, and RFC.
- B. List each page where project/s or activities can be found in the community's Local Hazard Mitigation Plan.
- C. Total number of projects that would fall under this Grant Activity Type (combining all disaster project types Columns D-H).
- D – H. Number of projects specific to this type of Hazard.
- H. If this Column is used, identify Hazard Type and project by using "Other" in Column A.

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**Local Mitigation Plan Review and Approval Status**

|   |   |                                     |
|---|---|-------------------------------------|
| <b>Jurisdiction:</b> Las Virgenes-Malibu Council of Governments (Agoura Hills, Calabasas, Hidden Hills, Malibu, and Westlake Village) | <b>Title of Plan:</b> Las Virgenes-Malibu Council of Governments Multi-Jurisdictional Hazard Mitigation Plan      | <b>Date of Plan:</b> March 12, 2012 |
| <b>Local Point of Contact:</b> Terry Dipple   | <b>Address:</b><br>Las Virgenes-Malibu Council of Governments<br>6165 Spring Valley Rd.<br>Hidden Hills, CA 91302 |                                     |
| <b>Title:</b> Executive Director  |   |                                     |
| <b>Agency:</b> Las Virgenes-Malibu Council of Governments   |   |                                     |
| <b>Phone Number:</b> 818.968.9088   | <b>E-Mail:</b> tdipple@msn.com  |                                     |

|                        |               |              |
|------------------------|---------------|--------------|
| <b>State Reviewer:</b> | <b>Title:</b> | <b>Date:</b> |
|------------------------|---------------|--------------|

|   |               |              |
|---|---------------|--------------|
| FEMA Reviewer:                          | <b>Title:</b> | <b>Date:</b> |
| Date Received in FEMA Region [Insert #] |               |              |
| Plan Not Approved                       |               |              |
| <b>Plan Approved</b>                    |               |              |
| <b>Date Approved</b>                    |               |              |

|                      | dFIRM in plan? | Adopted | Participating | Risk Assessment | Mitigation Action | NFIP Status |     |                 |                 |
|----------------------|----------------|---------|---------------|-----------------|-------------------|-------------|-----|-----------------|-----------------|
|                      | Y/N            | Y/N     | Y/N           | Y/N             | Y/N               | Y/N         | N/A | CRS Review Y/N  | CRS Class       |
| <b>Jurisdiction:</b> |                |         |               |                 |                   |             |     |                 |                 |
| 1. Agoura Hills      | Y              | Y       | Y             | Y               | Y                 | Y           |     | Under LA County | LA County CRS 7 |
| 2. Calabasas         | Y              | Y       | Y             | Y               | Y                 | Y           |     | Under LA County | LA County CRS 7 |
| 3. Hidden Hills      | Y              | Y       | Y             | Y               | Y                 | Y           |     | Under LA County | LA County CRS 7 |

\* Notes:                      Y = Participating                      N = Not Participating                      N/A = Not Mapped

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

*Continued from Previous Page*

|                     | dFIRM in plan? | Adopted | Participating | Risk Assessment | Mitigation Action | NFIP Status |     |                 |                 |
|---------------------|----------------|---------|---------------|-----------------|-------------------|-------------|-----|-----------------|-----------------|
|                     | Y/N            | Y/N     | Y/N           | Y/N             | Y/N               | Y/N         | N/A | CRS Review Y/N  | CRS Class       |
| 4. Malibu           | Y              | Y       | Y             | Y               | Y                 | Y           |     | Under LA County | LA County CRS 7 |
| 5. Westlake Village | Y              | Y       | Y             | Y               | Y                 | Y           |     | Under LA County | LA County CRS 7 |

\* Notes:                      Y = Participating                      N = Not Participating                      N/A = Not Mapped

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**PREREQUISITE(S)**

**1. Adoption by the Local Governing Body**

**Requirement §201.6(c)(5):** [The local hazard mitigation plan **shall** include] documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan (e.g., City Council, County Commissioner, Tribal Council).

| Element   | Location in the Plan (section or annex and page #)    | Reviewer's Comments | SCORE   |     |
|---|---|---------------------|---------|-----|
|   |   |                     | NOT MET | MET |
| A. Has the local governing body adopted <b>new or updated</b> plan? | Section 19: Annex H: Plan Approval Documentation 19-1 |                     |         |     |
| B. Is supporting documentation, such as a resolution, included?     | Section 19: Annex H: Plan Approval Documentation 19-1 |                     |         |     |
| <b>SUMMARY SCORE</b>  |   |                     |         |     |

**2. Multi-Jurisdictional Plan Adoption**

**Requirement §201.6(c)(5):** For multi-jurisdictional plans, each jurisdiction requesting approval of the plan **must** document that it has been formally adopted.

| Element   | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE   |     |
|---|--|---------------------|---------|-----|
|   |  |                     | NOT MET | MET |
| A. Does the <b>new or updated</b> plan indicate the specific jurisdictions represented in the plan? | Section 1: Introduction 1-1 to 1-2 and 1-10        |                     |         |     |
| B. For each jurisdiction, has the local governing body adopted the <b>new or updated</b> plan?      | Section 19: Annex H: 19-1                          |                     |         |     |
| C. Is supporting documentation, such as a resolution, included for each participating jurisdiction? | Section 19: Annex H: 19-1                          |                     |         |     |
| <b>SUMMARY SCORE</b>  |  |                     |         |     |

**3. Multi-Jurisdictional Planning Participation**

**Requirement §201.6(a)(3):** Multi-jurisdictional plans (e.g., watershed plans) may be accepted, as appropriate, as long as each jurisdiction has participated in the process ... Statewide plans will not be accepted as multi-jurisdictional plans.

| Element  | Location in the Plan (section or annex and page #) | Reviewer's Comments | SCORE   |     |
|--|--|---------------------|---------|-----|
|  |  |                     | NOT MET | MET |
| A. Does the <b>new or updated</b> plan describe <b>how</b> each jurisdiction participated in the plan's development? | Section 1: Introduction 1-8<br>1-11 to 1-12        |                     |         |     |

| LOCAL MITIGATION PLAN REVIEW CROSSWALK  |   |  |  |  |
|---|---|--|--|--|
| B. Does the updated plan identify all participating jurisdictions, including new, continuing, and the jurisdictions that no longer participate in the plan? | Section 1: Introduction<br>1-1 to 1-2<br>1-10 |  |  |  |
| <b>SUMMARY SCORE</b>  |   |  |  |  |

**PLANNING PROCESS:** §201.6(b): *An open public involvement process is essential to the development of an effective plan.*

**4. Documentation of the Planning Process**

**Requirement §201.6(b):** *In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include:*

- (1) *An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;*
- (2) *An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process; and*
- (3) *Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.*

**Requirement §201.6(c)(1):** *[The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.*

| Element   | Location in the Plan (section or annex and page #)                          | Reviewer's Comments | SCORE |   |
|---|---|---------------------|-------|---|
|   |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan indicate who was involved in the <b>current</b> planning process? (For example, who led the development at the staff level and were there any external contributors such as contractors? Who participated on the plan committee, provided information, reviewed drafts, etc.?) | Section 1: Introduction:<br>1-1 to 1-2<br>1-6<br>1-8 to 1-9<br>1-10 to 1-12 |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

| Element  | Location in the Plan (section or annex and page #)   | Reviewer's Comments | SCORE |   |
|--|--|---------------------|-------|---|
|  |  |                     | N     | S |
| B. Does the <b>new or updated</b> plan indicate how the public was involved? (Was the public provided an opportunity to comment on the plan during the drafting stage and prior to the plan approval?)       | Section 1: Introduction:<br>1-6<br>Section 5: Plan Maintenance and Monitoring<br>5-1<br><br>Section 14: Annex C: Disaster Prep Risk Survey<br><br>Section 16: Annex E: Planning and Public Involvement |                     |       |   |
| C. <b>Does the new or updated plan discuss the</b> opportunity for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process? | Section 5: Plan Maintenance and Monitoring<br>5-1<br><br>Section 14: Annex C: Disaster Prep Risk Survey<br><br>Section 16: Annex E: Planning and Public Involvement                                    |                     |       |   |
| D. Does the planning process describe the review and incorporation, if appropriate, of existing plans, studies, reports, and technical information?  | Section 1: Introduction<br>1-8<br>1-11, 1-12<br>Section 5: Plan Maintenance and Monitoring<br>5-1 to 5-2   |                     |       |   |
| E. Does the plan provide a narrative description of the process followed to prepare the <b>new or updated</b> plan?  | Section 1: Introduction<br>1-6<br>1-11 to1-12  |                     |       |   |
| F. <b>Does the updated plan document how the planning team reviewed and analyzed each section of the plan and whether each section was revised as part of the update process?</b>                            | Section 1: Introduction<br>1-8 to 1-9,<br>1-11 to1-12  |                     |       |   |
| <b>SUMMARY SCORE</b>   |  |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**RISK ASSESSMENT:** §201.6(c)(2): *The plan shall include a risk assessment that provides the factual basis for activities proposed in the strategy to reduce losses from identified hazards. Local risk assessments must provide sufficient information to enable the jurisdiction to identify and prioritize appropriate mitigation actions to reduce losses from identified hazards.*

**5. Identifying Hazards**

**Requirement §201.6(c)(2)(i):** *[The risk assessment shall include a] description of the type ... of all natural hazards that can affect the jurisdiction.*

| Element  | Location in the Plan (section or annex and page #)  | Reviewer's Comments | SCORE |   |
|--|---|---------------------|-------|---|
|  |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan include <b>a description</b> of the types of <b>all natural hazards</b> that affect the jurisdiction? | Section 3: Risk Assessment 3-7 to 3-15<br>Section 6: Earthquake 6-1<br>Section 7: Wildfire 7-1<br>Section 8: Windstorm 8-1<br>Section 9: Landslide 9-1<br>Section 10: Flood 10-1<br>Section 11: Terrorism 11-1<br>Section 14: Annex C: Disaster Prep Risk Survey 14-1<br>Section 15: Annex D: Steering Committee / Planning Group HMP Risk Assessment Survey Annex 15-1<br>Section 17: Annex F: FIRM 17-1<br>Section 18: Annex G: Malibu Flood Mitigation Plan 18-1 |                     |       |   |
| <b>SUMMARY SCORE</b>   |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**6. Profiling Hazards**

**Requirement §201.6(c)(2)(i):** [The risk assessment **shall** include a] description of the ... location and extent of all natural hazards that can affect the jurisdiction. The plan **shall** include information on previous occurrences of hazard events and on the probability of future hazard events.

| Element   | Location in the Plan (section or annex and page #)  | Reviewer's Comments | SCORE |   |
|---|---|---------------------|-------|---|
|   |   |                     | N     | S |
| A. Does the risk assessment identify the <b>location</b> (i.e., geographic area affected) of each natural hazard addressed in the <b>new or updated</b> plan? | Section 3: Risk Assessment 3-8 to 3-14, 3-17, 3-18<br>Section 6: Earthquake 6-1 to 6-8, 6-12, 6-13<br>Section 7: Wildfire 7-1 to 7-5<br>Section 8: Windstorm 8-1 to 8-3<br>Section 9: Landslide 9-1 to 9-3, 9-6 to 9-8<br>Section 10: Flood 10-1, 10-3, 10-4, 10-7, 10-9, 10-11, 10-13, 10-14<br>Section 17: Annex F: FIRM 17-1   |                     |       |   |
| B. Does the risk assessment identify the <b>extent</b> (i.e., magnitude or severity) of each hazard addressed in the <b>new or updated</b> plan?              | Section 3: Risk Assessment 3-7 to 3-17, 3-23 to 3-53<br>Section 14: Annex C: Disaster Prep Risk Survey 14-1<br>Section 15: Annex D: Steering Committee / Planning Group HMP Risk Assessment Survey Annex 15-1   |                     |       |   |
| C. Does the plan provide information on <b>previous occurrences</b> of each hazard addressed in the <b>new or updated</b> plan?                               | Section 3: Risk Assessment 3-2, 3-8 to 3-15<br>Section 6: Earthquake 6-3, 6-4<br>Section 7: Wildfire 7-1 to 7-3<br>Section 8: Windstorm 8-1, 8-3<br>Section 9: Landslide 9-2<br>Section 10: Flood 10-1, 10-2<br>Section 11: Terrorism 11-1<br>Section 14: Annex C: Disaster Prep Risk Survey 14-14 to 14-15<br>Section 18: Annex G: Malibu Flood Mitigation Plan 18-1   |                     |       |   |
| D. Does the plan include the <b>probability of future events</b> (i.e., chance of occurrence) for each hazard addressed in the <b>new or updated</b> plan?    | Section 3: Risk Assessment 3-7 to 3-15<br>Section 6: Earthquake 6-5 to 6-8<br>Section 7: Wildfire 7-4, 7-5<br>Section 8: Windstorm 8-1, 8-3<br>Section 9: Landslide 9-6, 9-7<br>Section 10: Flood 10-7, 10-9, 10-11, 10-14,<br>Section 11: Terrorism 11-7<br>Section 14: Annex C: Disaster Prep Risk Survey 14-8 to 14-11<br>Section 15: Annex D: Steering Committee / Planning Group HMP Risk Assessment Survey Annex 15-1<br>Section 17: Annex F: FIRM 17-1<br>Section 18: Annex G: Malibu Flood Mitigation Plan 18-1 |                     |       |   |
| <b>SUMMARY SCORE</b>  |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**7. Assessing Vulnerability: Overview**

**Requirement §201.6(c)(2)(ii):** [The risk assessment **shall** include a] description of the jurisdiction’s vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description **shall** include an overall summary of each hazard and its impact on the community.

| Element   | Location in the Plan (section or annex and page #)  | Reviewer’s Comments | SCORE |   |
|---|---|---------------------|-------|---|
|   |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan include an <b>overall summary</b> description of the jurisdiction’s <b>vulnerability</b> to each hazard? | Section 3: Risk Assessment 3-7 to 3-15<br>Section 6: Earthquake 6-12<br>Section 7: Wildfire 7-6<br>Section 8: Windstorm 8-3<br>Section 9: Landslide 9-8<br>Section 10: Flood 10-6<br>Section 11: Terrorism 11-7<br>Section 18: Annex G: Malibu Flood Mitigation Plan 18-12  |                     |       |   |
| B. Does the <b>new or updated</b> plan address the <b>impact</b> of each hazard on the jurisdiction?  | Section 3: Risk Assessment 3-7 to 3-15, 3-23 to 3-53<br>Section 6: Earthquake 6-9 to 6-11<br>Section 7: Wildfire 7-3 to 7-5<br>Section 8: Windstorm 8-1 to 8-2<br>Section 9: Landslide 9-4 to 9-7<br>Section 10: Flood 10-4 to 10-5<br>Section 11: Terrorism 11-2 and 11-7<br>Section 14: Annex C: Disaster Preparedness Risk Survey 14-1<br>Section 15: Annex D: Steering Committee / Planning Group HMP Risk Assessment Survey Annex 15-3, 15-5, 15-7, 15-9, 15-11, 15-13<br>Section 18: Annex G: Malibu Flood Mitigation Plan 18-11 to 18-13 |                     |       |   |
| <b>SUMMARY SCORE</b>  |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**8. Assessing Vulnerability: Addressing Repetitive Loss Properties**

**Requirement §201.6(c)(2)(ii):** [The risk assessment] **must** also address National Flood Insurance Program (NFIP) insured structures that have been repetitively damaged floods.

| Element  | Location in the Plan (section or annex and page #) | Reviewer's Comments   | SCORE |   |
|--|--|---|-------|---|
|  |  |   | N     | S |
| A. Does the new or updated plan describe vulnerability in terms of the types and numbers of repetitive loss properties located in the identified hazard areas? | Section 10: Flood<br>10-2                          | <b>Note: This requirement becomes effective for all local plans approved after October 1, 2008.</b> |       |   |
| <b>SUMMARY SCORE</b>   |  |   |       |   |

**9. Assessing Vulnerability: Identifying Structures**

**Requirement §201.6(c)(2)(ii)(A):** The plan **should** describe vulnerability in terms of the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard area ... .

| Element   | Location in the Plan (section or annex and page #)   | Reviewer's Comments   | SCORE |   |
|---|--|---|-------|---|
|   |  |   | N     | S |
| A. Does the new or updated plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas? | Section 2: Community Profile<br>2-18 to 2-20<br>2-30 to 2-32<br>2-40 to 2-42<br>2-51 to 2-53<br>2-63 to 2-65<br>Section 3: Risk Assessment<br>3-16 to 3-22, 3-23 to 3-53 | <b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b> |       |   |
| B. Does the new or updated plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?   | Section 2: Community Profile<br>2-18<br>2-30<br>2-40<br>2-51<br>2-63<br>Section 3: Risk Assessment<br>3-23 to 3-26, 3-23 to 3-53   | <b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b> |       |   |
| <b>SUMMARY SCORE</b>  |  |   |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**10. Assessing Vulnerability: Estimating Potential Losses**

**Requirement §201.6(c)(2)(ii)(B):** [The plan **should** describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(ii)(A) of this section and a description of the methodology used to prepare the estimate ... .

| Element  | Location in the Plan (section or annex and page #)   | Reviewer's Comments   | SCORE |   |
|--|--|---|-------|---|
|  |  |   | N     | S |
| A. Does the <b>new or updated</b> plan estimate <b>potential dollar losses</b> to vulnerable structures? | Section 3: Risk Assessment 3-16, 3-23 to 3-53<br>Section 6: Earthquake 6-11<br>Section 7: Wildfire 7-6<br>Section 8: Windstorm 8-2<br>Section 9: Landslide 9-7<br>Section 10: Flood 10-5<br>Section 11: Terrorism 11-7 | <b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b> |       |   |
| B. Does the <b>new or updated</b> plan describe the <b>methodology</b> used to prepare the estimate?     | Section 3: Risk Assessment 3-16, 3-23<br>Section 6: Earthquake 6-11<br>Section 7: Wildfire 7-6<br>Section 8: Windstorm 8-2<br>Section 9: Landslide 9-7<br>Section 10: Flood 10-5<br>Section 11: Terrorism 11-7         | <b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b> |       |   |
| <b>SUMMARY SCORE</b>   |  |   |       |   |

**11. Assessing Vulnerability: Analyzing Development Trends**

**Requirement §201.6(c)(2)(ii)(C):** [The plan **should** describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

| Element   | Location in the Plan (section or annex and page #) | Reviewer's Comments   | SCORE |   |
|---|--|---|-------|---|
|   |  |   | N     | S |
| A. Does the <b>new or updated</b> plan describe land uses and development trends? | Section 3: Risk Assessment 3-54 to 3-57            | <b>Note: A "Needs Improvement" score on this requirement will not preclude the plan from passing.</b> |       |   |
| <b>SUMMARY SCORE</b>  |  |   |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**12. Multi-Jurisdictional Risk Assessment**

**Requirement §201.6(c)(2)(iii):** For multi-jurisdictional plans, the risk assessment **must** assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

| Element   | Location in the Plan (section or annex and page #)  | Reviewer's Comments | SCORE |   |
|---|---|---------------------|-------|---|
|   |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan include a risk assessment for each participating jurisdiction as needed to reflect unique or varied risks? | Section 3: Risk Assessment<br>3-8 to 3-14<br>3-17 to 3-18<br>3-23 to 3-53<br><br>Section 6: Earthquake<br>6-1 to 6-8<br>6-12 to 6-13<br><br>Section 7: Wildfire<br>7-1 to 7-5<br><br>Section 8: Windstorm<br>8-1 to 8-3<br><br>Section 9: Landslide<br>9-1 to 9-3<br>9-6 to 9-8<br><br>Section 10: Flood<br>10-1<br>10-3 to 10-4<br>10-7<br>10-9<br>10-11<br>10-13 to 10-14<br><br>Section 17: Annex F: FIRM 17-1 |                     |       |   |
| <b>SUMMARY SCORE</b>  |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**MITIGATION STRATEGY:** §201.6(c)(3): *The plan shall include a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.*

**13. Local Hazard Mitigation Goals**

**Requirement §201.6(c)(3)(i):** *[The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.*

| Element  | Location in the Plan (section or annex and page #)    | Reviewer’s Comments | SCORE |   |
|--|---|---------------------|-------|---|
|  |   |                     | N     | S |
| A Does the <b>new or updated</b> plan include a description of mitigation <b>goals</b> to reduce or avoid long-term vulnerabilities to the identified hazards? | Section 4: Hazard Mitigation Goals and Strategies 4-1 |                     |       |   |
| <b>SUMMARY SCORE</b>   |   |                     |       |   |

**14. Identification and Analysis of Mitigation Actions**

**Requirement §201.6(c)(3)(ii):** *[The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.*

| Element   | Location in the Plan (section or annex and page #)  | Reviewer’s Comments | SCORE |   |
|---|---|---------------------|-------|---|
|   |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan identify and analyze a <b>comprehensive range</b> of specific mitigation actions and projects for each hazard? | Section 4: Hazard Mitigation Goals and Strategies 4-3 to 4-14<br>4-16 to 4-77<br>Section 6: Earthquake 6-15 to 6-18<br>Section 7: Wildfire 7-9 to 7-16<br>Section 8: Windstorm 8-4 to 8-5<br>Section 9: Landslide 9-8 to 9-9<br>Section 10 Flood 10-6 to 10-14<br>Section 11: Terrorism 11-9 to 11-12 |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

| Element  | Location in the Plan (section or annex and page #)  | Reviewer's Comments | SCORE |   |
|--|---|---------------------|-------|---|
|  |   |                     | N     | S |
| B. Do the identified actions and projects address reducing the effects of hazards on <b>new</b> buildings and infrastructure?      | Section 4: Hazard Mitigation Goals and Strategies<br>4-32<br>4-39 to 4-40<br>4-44<br>4-51 to 4-56<br>4-58<br>4-60 to 4-61<br>4-72<br>Section 6: Earthquake 6-15 to 6-18<br>Section 7: Wildfire 7-9 to 7-16<br>Section 8: Windstorm 8-4 to 8-5<br>Section 9: Landslide 9-8 to 9-9<br>Section 10 Flood 10-6 to 10-14<br>Section 11: Terrorism 11-9 to 11-12   |                     |       |   |
| C. Do the identified actions and projects address reducing the effects of hazards on <b>existing</b> buildings and infrastructure? | Section 4: Hazard Mitigation Goals and Strategies<br>4-17<br>4-22<br>4-30<br>4-32<br>4-39<br>4-51 to 4-56<br>4-58<br>4-60 to 4-64<br>4-66<br>4-69<br>4-72 to 4-73<br>4-75<br>Section 6: Earthquake 6-15 to 6-18<br>Section 7: Wildfire 7-9 to 7-16<br>Section 8: Windstorm 8-4 to 8-5<br>Section 9: Landslide 9-8 to 9-9<br>Section 10 Flood 10-6 to 10-14<br>Section 11: Terrorism 11-9 to 11-12 |                     |       |   |
| <b>SUMMARY SCORE</b>   |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**15. Identification and Analysis of Mitigation Actions: National Flood Insurance Program (NFIP) Compliance**

**Requirement: §201.6(c)(3)(ii):** [The mitigation strategy] must also address the jurisdiction’s participation in the National Flood Insurance Program (NFIP), and continued compliance with NFIP requirements, as appropriate.

| Element   | Location in the Plan (section or annex and page #)   | Reviewer’s Comments  | SCORE |   |
|---|--|--|-------|---|
|   |  |  | N     | S |
| A. Does the new or updated plan describe the jurisdiction (s) participation in the NFIP?                                | Section 10 Flood<br>10-6   | <i>Note: This requirement becomes effective for all local mitigation plans approved after October 1, 2008.</i> |       |   |
| B. Does the mitigation strategy identify, analyze and prioritize actions related to continued compliance with the NFIP? | Section 4: Hazard Mitigation Goals and Strategies<br>4-33<br>4-37<br>4-50 to 4-56<br>4-58<br>4-61<br>4-65 to 4-66<br>4-75<br><br>Section 10 Flood<br>10-5 to 10-13 | <i>Note: This requirement becomes effective for all local mitigation plans approved after October 1, 2008.</i> |       |   |
| <b>SUMMARY SCORE</b>  |  |  |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**16. Implementation of Mitigation Actions**

**Requirement: §201.6(c)(3)(iii):** [The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

| Element  | Location in the Plan (section or annex and page #)  | Reviewer's Comments | SCORE |   |
|--|---|---------------------|-------|---|
|  |   |                     | N     | S |
| A. Does the <b>new or updated</b> mitigation strategy include how the actions are <b>prioritized</b> ? (For example, is there a discussion of the process and criteria used?)  | Section 4: Hazard Mitigation Goals and Strategies<br>4-2<br>4-15  |                     |       |   |
| B. Does the <b>new or updated</b> mitigation strategy address how the actions will be implemented and administered, including the responsible department, existing and potential resources and the timeframe to complete each action?          | Section 4: Hazard Mitigation Goals and Strategies<br>4-16 to 4-77   |                     |       |   |
| C. Does the <b>new or updated</b> prioritization process include an emphasis on the use of a <b>cost-benefit review</b> to maximize benefits?  | Section 4: Hazard Mitigation Goals and Strategies<br>4-15<br><br>Section 5: Plan Maintenance and Monitoring<br>5-2 to 5-3 |                     |       |   |
| D. Does the <b>updated</b> plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged ( <i>i.e.</i> , deferred), does the updated plan describe why no changes occurred? | Section 4: Hazard Mitigation Goals and Strategies<br>4-3 to 4-14<br>4-16 to 4-77  |                     |       |   |
| <b>SUMMARY SCORE</b>   |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**17. Multi-Jurisdictional Mitigation Actions**

**Requirement §201.6(c)(3)(iv):** For multi-jurisdictional plans, there **must** be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

| Element  | Location in the Plan (section or annex and page #)                               | Reviewer's Comments | SCORE |   |
|--|--|---------------------|-------|---|
|  |  |                     | N     | S |
| A. Does the <b>new or updated</b> plan include identifiable <b>action items</b> for each jurisdiction requesting FEMA approval of the plan?  | Section 4: Hazard Mitigation Goals and Strategies<br>4-3 to 4-14<br>4-16 to 4-77 |                     |       |   |
| B. Does the <b>updated</b> plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged ( <i>i.e.</i> , deferred), does the updated plan describe why no changes occurred? | Section 4: Hazard Mitigation Goals and Strategies<br>4-3 to 4-14<br>4-16 to 4-77 |                     |       |   |
| <b>SUMMARY SCORE</b>   |  |                     |       |   |

**PLAN MAINTENANCE PROCESS**

**18. Monitoring, Evaluating, and Updating the Plan**

**Requirement §201.6(c)(4)(i):** [The plan maintenance process **shall** include a] section describing the method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

| Element  | Location in the Plan (section or annex and page #)        | Reviewer's Comments | SCORE |   |
|--|---|---------------------|-------|---|
|  |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan describe the method and schedule for <b>monitoring</b> the plan, including the responsible department?                                      | Section 5: Plan Maintenance and Monitoring<br>5-1 and 5-5 |                     |       |   |
| B. Does the <b>new or updated</b> plan describe the method and schedule for <b>evaluating</b> the plan, including how, when and by whom ( <i>i.e.</i> the responsible department)? | Section 5: Plan Maintenance and Monitoring<br>5-1 and 5-5 |                     |       |   |
| C. Does the <b>new or updated</b> plan describe the method and schedule for <b>updating</b> the plan within the five-year cycle?   | Section 5: Plan Maintenance and Monitoring<br>5-1 and 5-5 |                     |       |   |
| <b>SUMMARY SCORE</b>   |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**19. Incorporation into Existing Planning Mechanisms**

**Requirement §201.6(c)(4)(ii):** [The plan **shall** include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

| Element   | Location in the Plan (section or annex and page #)  | Reviewer's Comments | SCORE |   |
|---|---|---------------------|-------|---|
|   |   |                     | N     | S |
| A. Does the <b>new or updated</b> plan identify other local planning mechanisms available for incorporating the mitigation requirements of the mitigation plan?   | Section 5: Plan Maintenance and Monitoring<br>5-1 to 5-2  |                     |       |   |
| B. Does the <b>new or updated</b> plan include a process by which the local government will incorporate the mitigation strategy and other information contained in the plan (e.g., risk assessment) into other planning mechanisms, when appropriate? | Section 4: Hazard Mitigation Goals and Strategies<br>4-32 to 4-33<br>4-39<br>4-41<br>4-45<br><br>Section 5: Plan Maintenance and Monitoring<br>5-1 to 5-2 |                     |       |   |
| C. Does the <b>updated</b> plan explain how the local government incorporated the mitigation strategy and other information contained in the plan (e.g., risk assessment) into other planning mechanisms, when appropriate?                           | Section 4: Hazard Mitigation Goals and Strategies<br>4-32 to 4-33<br>4-39<br>4-41<br>4-45<br><br>Section 5: Plan Maintenance and Monitoring<br>5-1 to 5-2 |                     |       |   |
| <b>SUMMARY SCORE</b>  |   |                     |       |   |

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**Continued Public Involvement**

**Requirement §201.6(c)(4)(iii):** *[The plan maintenance process shall include a] discussion on how the community will continue public participation in the plan maintenance process.*

| Element   | Location in the Plan (section or annex and page #)   | Reviewer's Comments | SCORE |   |
|---|--|---------------------|-------|---|
|   |  |                     | N     | S |
| A. Does the <b>new or updated</b> plan explain how <b>continued public participation</b> will be obtained? (For example, will there be public notices, an on-going mitigation plan committee, or annual review meetings with stakeholders?) | Section 5: Maintenance and Monitoring 5-1<br><br>Section 14: Annex C: Disaster Prep Risk Survey 14-1 to 14-17<br><br>Section 16: Annex E: Planning and Public Involvement 16-4 to 16-5 |                     |       |   |
| <b>SUMMARY SCORE</b>  |  |                     |       |   |

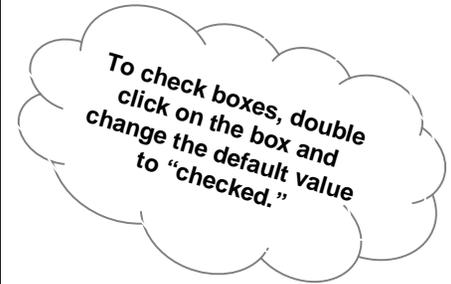
**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**MATRIX A: PROFILING HAZARDS**

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that their plan addresses each natural hazard that can affect the jurisdiction. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.*

| Hazard Type         | Hazards Identified Per Requirement §201.6(c)(2)(i) | A. Location              |                                     | B. Extent                |                                     | C. Previous Occurrences  |                                     | D. Probability of Future Events |                                     |
|---------------------|--|--------------------------|-------------------------------------|--------------------------|-------------------------------------|--------------------------|-------------------------------------|---------------------------------|-------------------------------------|
|                     | Yes  | N                        | S                                   | N                        | S                                   | N                        | S                                   | N                               | S                                   |
| Avalanche           | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Coastal Erosion     | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Coastal Storm       | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Dam Failure         | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Drought             | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Earthquake          | <input checked="" type="checkbox"/>                | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
| Expansive Soils     | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Levee Failure       | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Flood               | <input checked="" type="checkbox"/>                | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
| Hailstorm           | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Hurricane           | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Land Subsidence     | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Landslide           | <input checked="" type="checkbox"/>                | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Severe Winter Storm | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Tornado             | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Tsunami             | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Volcano             | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Wildfire            | <input checked="" type="checkbox"/>                | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
| Windstorm           | <input checked="" type="checkbox"/>                | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
| Other Terrorism     | <input checked="" type="checkbox"/>                | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>        | <input checked="" type="checkbox"/> |
| Other _____         | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |
| Other _____         | <input type="checkbox"/>                           | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>        | <input type="checkbox"/>            |



Legend:

§201.6(c)(2)(i) Profiling Hazards

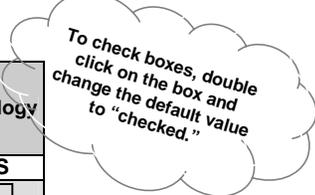
- A. Does the risk assessment identify the location (i.e., geographic area affected) of each hazard addressed in the **new or updated** plan?
- B. Does the risk assessment identify the extent (i.e., magnitude or severity) of each hazard addressed in the **new or updated** plan?
- C. Does the plan provide information on previous occurrences of each natural hazard addressed in the **new or updated** plan?
- D. Does the plan include the probability of future events (i.e., chance of occurrence) for each hazard addressed in the plan?

**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**MATRIX B: ASSESSING VULNERABILITY**

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure that the new or updated plan addresses each requirement. **Completing the matrix is not required.**

*Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each applicable hazard. An “N” for any element of any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk. Note: Receiving an N in the shaded columns will not preclude the plan from passing.*



| Hazard Type         | Hazards Identified Per Requirement §201.6(c)(2)(i) | §201.6(c)(2)(ii) Assessing Vulnerability: Overview | A. Overall Summary Description of Vulnerability |                          | B. Hazard Impact                    |                          | §201.6(c)(2)(ii) Assessing Vulnerability: Identifying Structures | A. Types and Number of Existing Structures in Hazard Area (Estimate) |                          | B. Types and Number of Future Structures in Hazard Area (Estimate) |                          | §201.6(c)(2)(ii) Assessing Vulnerability: Estimating Potential Losses | A. Loss Estimate                    |                          | B. Methodology                      |                          |
|---------------------|--|--|---|--------------------------|-------------------------------------|--------------------------|--|--|--------------------------|--|--------------------------|---|-------------------------------------|--------------------------|-------------------------------------|--------------------------|
|                     | Yes  |  | N   | S                        | N                                   | S                        |  | N  | S                        | N  | S                        |   | N                                   | S                        | N                                   | S                        |
|                     | Avalanche  |  | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |  | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> |   | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Coastal Erosion     | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Coastal Storm       | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Dam Failure         | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Drought             | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Earthquake          | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                           | <input checked="" type="checkbox"/>             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                | <input type="checkbox"/> | <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Expansive Soils     | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Levee Failure       | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Flood               | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                           | <input checked="" type="checkbox"/>             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                | <input type="checkbox"/> | <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Hailstorm           | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Hurricane           | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Land Subsidence     | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Landslide           | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                           | <input checked="" type="checkbox"/>             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                | <input type="checkbox"/> | <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Severe Winter Storm | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Tornado             | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Tsunami             | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Volcano             | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Wildfire            | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                           | <input checked="" type="checkbox"/>             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                | <input type="checkbox"/> | <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Windstorm           | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                           | <input checked="" type="checkbox"/>             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                | <input type="checkbox"/> | <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Other Terrorism     | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                           | <input checked="" type="checkbox"/>             | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/>   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/> | <input checked="" type="checkbox"/>                                | <input type="checkbox"/> | <input type="checkbox"/>  | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Other _____         | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Other _____         | <input type="checkbox"/>                           | <input type="checkbox"/>                           | <input type="checkbox"/>                        | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/>  | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

**Legend:**

§201.6(c)(2)(ii) Assessing Vulnerability: Overview

- A. Does the **new or updated** plan include an overall summary description of the jurisdiction’s vulnerability to each hazard?
- B. Does the **new or updated** plan address the impact of each hazard on the jurisdiction?

§201.6(c)(2)(ii)(A) Assessing Vulnerability: Identifying Structures

- A. Does the **new or updated** plan describe vulnerability in terms of the types and numbers of existing buildings, infrastructure, and critical facilities located in the identified hazard areas?

- B. Does the **new or updated** plan describe vulnerability in terms of the types and numbers of future buildings, infrastructure, and critical facilities located in the identified hazard areas?

§201.6(c)(2)(ii)(B) Assessing Vulnerability: Estimating Potential Losses

- A. Does the **new or updated** plan estimate potential dollar losses to vulnerable structures?
- B. Does the **new or updated** plan describe the methodology used to prepare the estimate?

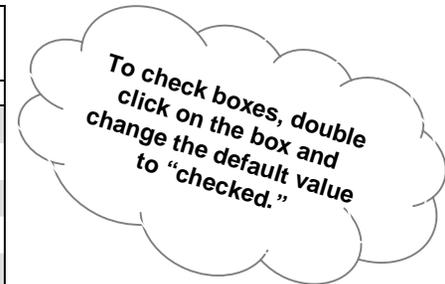
**LOCAL MITIGATION PLAN REVIEW CROSSWALK**

**MATRIX C: IDENTIFICATION AND ANALYSIS OF MITIGATION ACTIONS**

This matrix can assist FEMA and the State in scoring each hazard. Local jurisdictions may find the matrix useful to ensure consideration of a range of actions for each hazard. **Completing the matrix is not required.**

Note: First, check which hazards are identified in requirement §201.6(c)(2)(i). Then, place a checkmark in either the N or S box for each **applicable** hazard. An “N” for any identified hazard will result in a “Needs Improvement” score for this requirement. List the hazard and its related shortcoming in the comments section of the Plan Review Crosswalk.

| Hazard Type            | Hazards Identified Per Requirement §201.6(c)(2)(i) | A. Comprehensive Range of Actions and Projects |                                     |
|------------------------|--|--|-------------------------------------|
|                        | Yes  | N  | S                                   |
| Avalanche              | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Coastal Erosion        | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Coastal Storm          | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Dam Failure            | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Drought                | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Earthquake             | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> |
| Expansive Soils        | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Levee Failure          | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Flood                  | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> |
| Hailstorm              | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Hurricane              | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Land Subsidence        | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Landslide              | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> |
| Severe Winter Storm    | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Tornado                | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Tsunami                | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Volcano                | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Wildfire               | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> |
| Windstorm              | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> |
| Other <u>Terrorism</u> | <input checked="" type="checkbox"/>                | <input type="checkbox"/>                       | <input checked="" type="checkbox"/> |
| Other _____            | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |
| Other _____            | <input type="checkbox"/>                           | <input type="checkbox"/>                       | <input type="checkbox"/>            |



**Legend:**

§201.6(c)(3)(ii) Identification and Analysis of Mitigation Actions

A. Does the **new or updated** plan identify and analyze a comprehensive range of specific mitigation actions and projects for each hazard?

## SECTION 14. ANNEX C: DISASTER PREPAREDNESS RISK SURVEY

### Disaster Preparedness and Risk Survey Results

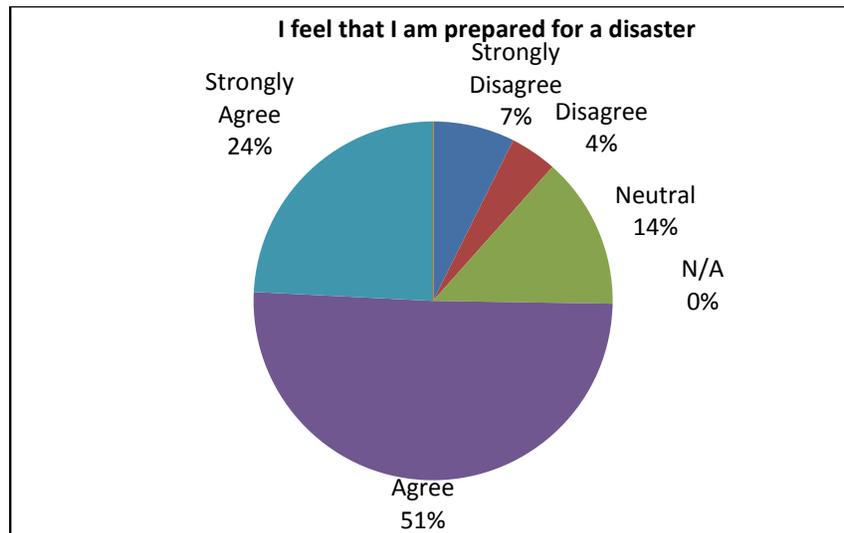
A Disaster Preparedness Risk Survey was used to encourage public participation in mitigation planning and provide input into the Hazard Mitigation Planning process. The survey included questions regarding perceived risks, actual losses, and mitigation activities.

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

The data gathered will be 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. This survey was administered and maintained by MLC and Associates, Inc. In some cases, comments have been summarized and edited for clarity.

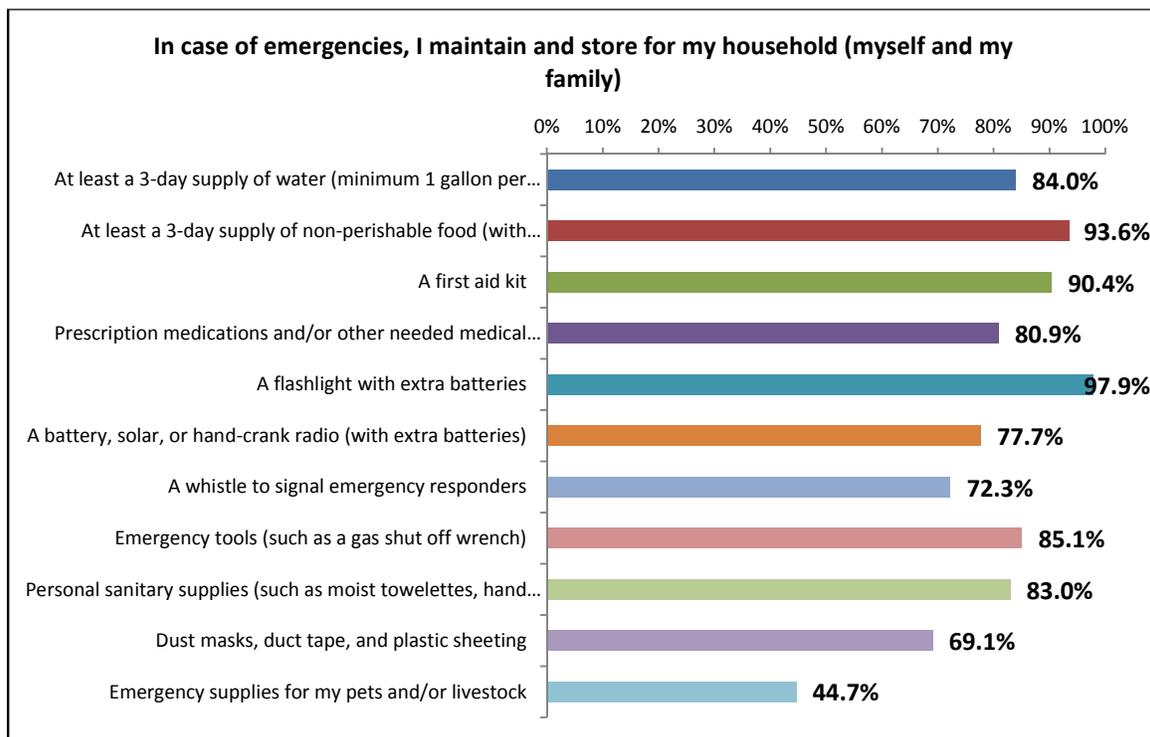
1. I feel that I am prepared for a disaster.

| Value                    | Count | Percent |
|--------------------------|-------|---------|
| <b>Strongly disagree</b> | 7     | 7.4%    |
| <b>Disagree</b>          | 4     | 4.2%    |
| <b>Neutral</b>           | 13    | 13.7%   |
| <b>Agree</b>             | 48    | 50.5%   |
| <b>Strongly agree</b>    | 23    | 24.2%   |
| <b>Not Applicable</b>    | 0     | 0%      |



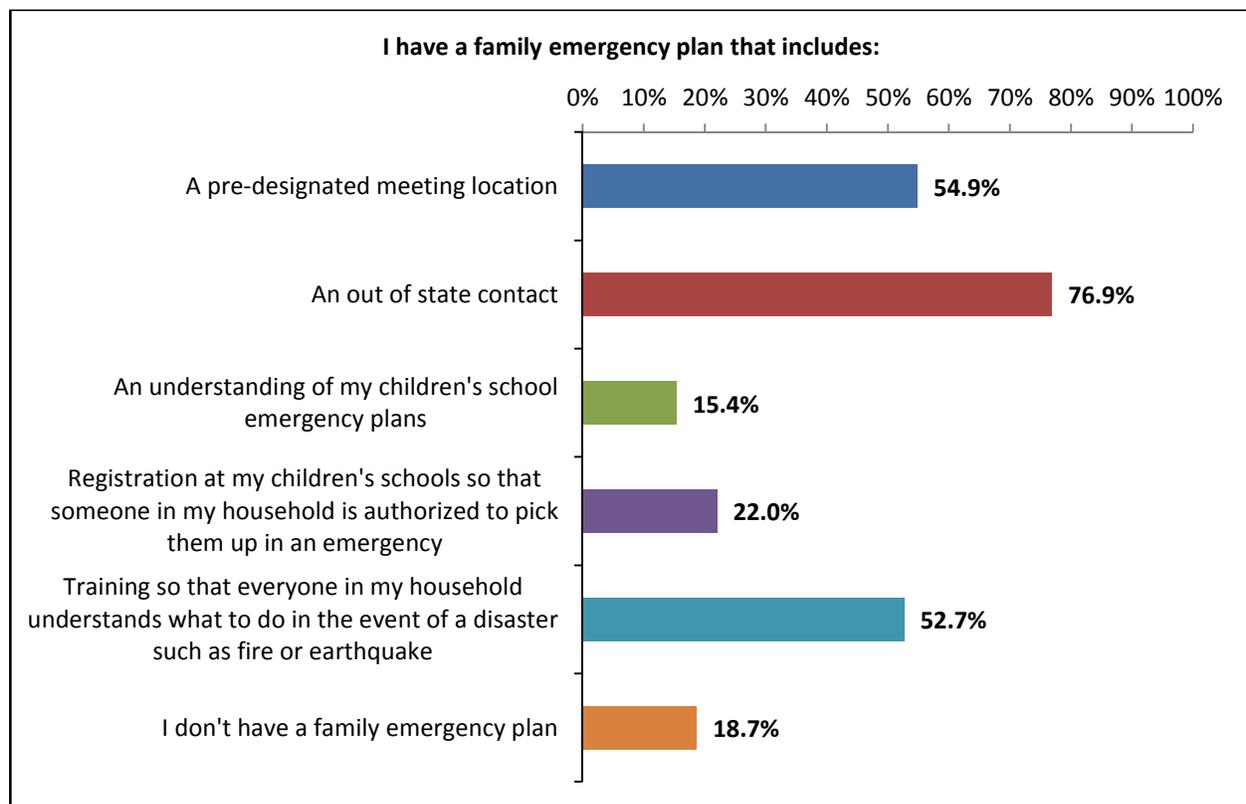
2. In case of emergencies, I maintain and store for my household (myself and my family).

| Value  | Count | Percent |
|--|-------|---------|
| At least a 3-day supply of water (minimum 1 gallon per person per day)                               | 79    | 84%     |
| At least a 3-day supply of non-perishable food (with manual can opener)                              | 88    | 93.6%   |
| A first aid kit  | 85    | 90.4%   |
| Prescription medications and/or other needed medical supplies  | 76    | 80.9%   |
| A flashlight with extra batteries  | 92    | 97.9%   |
| A battery, solar, or hand-crank radio (with extra batteries)   | 73    | 77.7%   |
| A whistle to signal emergency responders   | 68    | 72.3%   |
| Emergency tools (such as a gas shut off wrench)  | 80    | 85.1%   |
| Personal sanitary supplies (such as moist towelettes, hand sanitizers, garbage bags with ties, etc.) | 78    | 83%     |
| Dust masks, duct tape, and plastic sheeting  | 65    | 69.1%   |
| Emergency supplies for my pets and/or livestock  | 42    | 44.7%   |



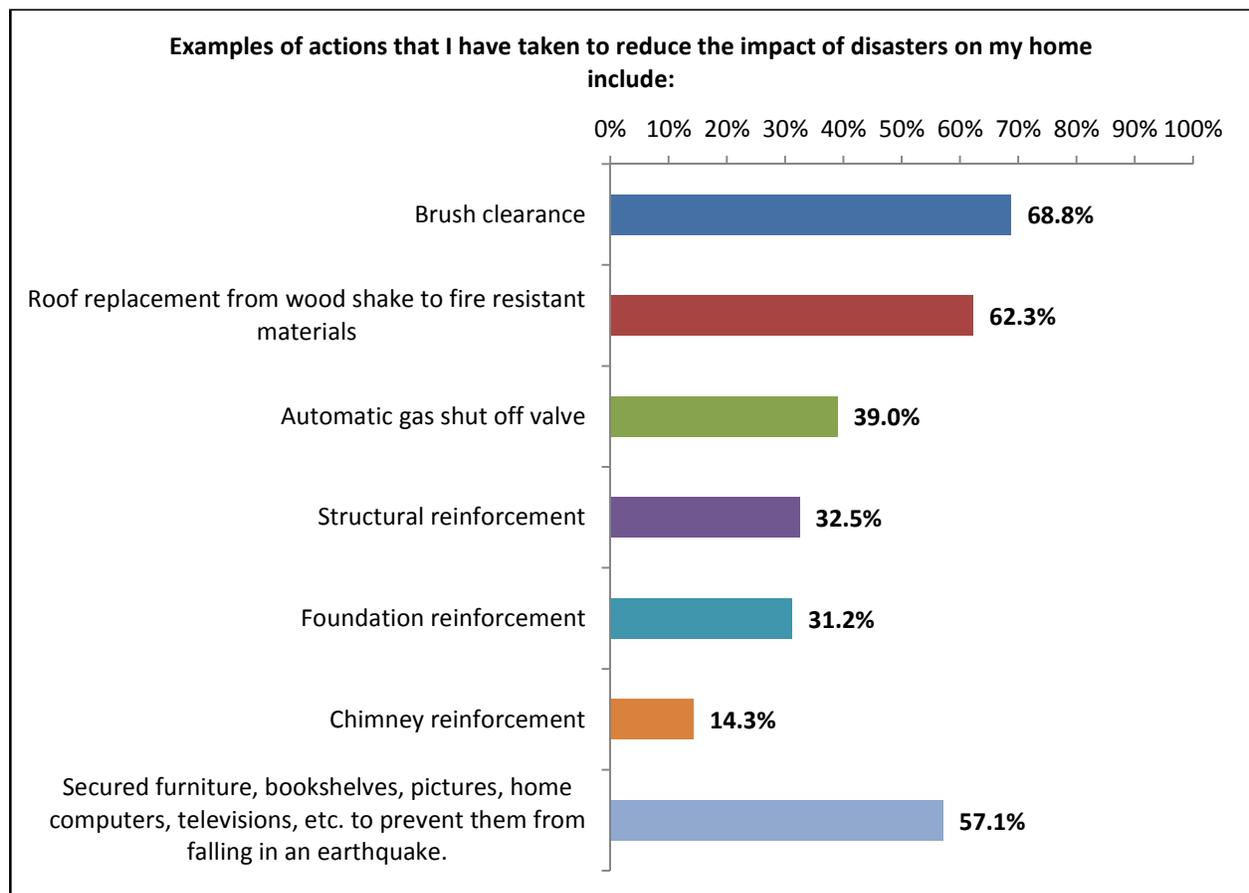
3. I have a family emergency plan that includes: (check all that apply)

| Value  | Count | Percent |
|--|-------|---------|
| A pre-designated meeting location  | 50    | 54.9%   |
| An out of state contact  | 70    | 76.9%   |
| An understanding of my children's school emergency plans   | 14    | 15.4%   |
| Registration at my children's schools so that someone in my household is authorized to pick them up in an emergency    | 20    | 22.0%   |
| Training so that everyone in my household understands what to do in the event of a disaster such as fire or earthquake | 48    | 52.7%   |
| I don't have a family emergency plan   | 17    | 18.7%   |



4. Examples of actions that I have taken to reduce the impact of disasters on my home include: (check all that apply)

| Value  | Count | Percent |
|--|-------|---------|
| Brush clearance  | 53    | 68.8%   |
| Roof replacement from wood shake to fire resistant materials   | 48    | 62.3%   |
| Automatic gas shut off valve   | 30    | 39.0%   |
| Structural reinforcement   | 25    | 32.5%   |
| Foundation reinforcement   | 24    | 31.2%   |
| Chimney reinforcement  | 11    | 14.3%   |
| Secured furniture, bookshelves, pictures, home computers, televisions, etc. to prevent them from falling in an earthquake. | 44    | 57.1%   |



Other examples of actions that I have taken to mitigate the impact of a disaster to my home include:

#### Construction

- Flexible plumbing where possible, flexible gas lines, secured water heater, automatic emergency lighting.
- We have house built with more stringent earthquake requirements.
- Auto shut off – (controversial) / Shut off the gas and electricity boxes.
- Installed fire resistant attic vents.
- Composite decking for reduced fire spread; composite siding on storage are for reduced fire-potential.

#### Equipment

- Grab and go emergency kit to take in quick evacuations: Documents, titles, insurance info, cash etc.
- Underneath all beds are crow bars, tennis shoes, socks and sweatshirts 2 out of 4 cars have large earthquake backpack which include 2 days of prescriptions
- Extra prescriptions downstairs ( in case we are unable to get up our stairs )
- Do not let the cars get much below 1/2 tank.
- Keep cash in both cars and at home in small bills.
- Stocked extra first aid supply's at home generously.
- Fire extinguisher - Shoes under the beds. flashlights near kids in bedroom.
- Foam Fire Retardant.
- Fire Extinguisher / 4 fire extinguishers.
- Auto shut off (controversial).
- Ladder to access roof. Three water hoses at three different locations.
- Large supply of bottled water in garage which we rotate monthly
- 55 gal drum for potable water.
- Every bedside has a flashlight. Shoes are kept at the bedside. Crowbar is under the bed.

#### Training

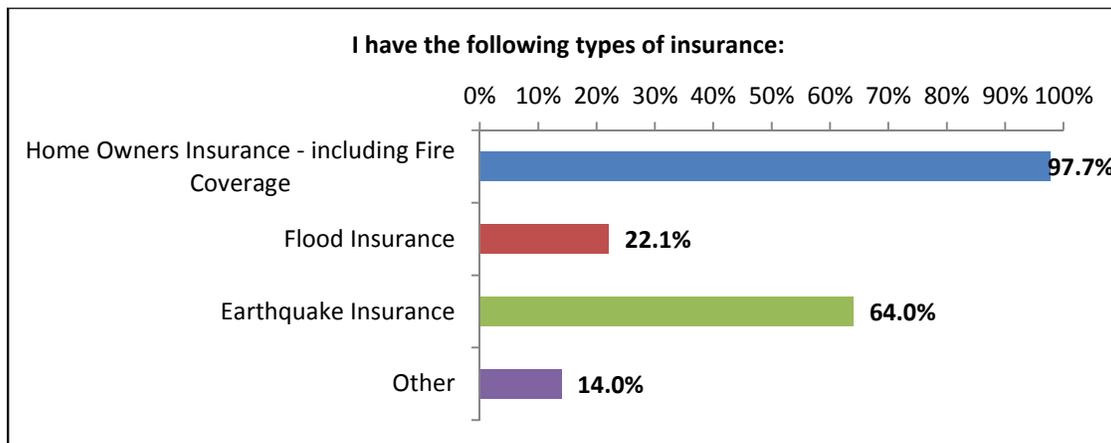
- I'm an EMT and have been involved with disaster teams and preparedness for years. My training is always ongoing.
- I am a trained CERT volunteer.
- My kids know to dial 911, and know that phone lines and cell phones may not work in a disaster. Texting may work.

#### Other

- Community mitigation efforts -- CERT training of 17 neighborhood volunteers; organized HOA to have a functioning emergency team of approximately 30 residents to include a medical team; secured and organized HAO emergency supplies; monthly preparedness info written for HAO newsletter.
- Home organization

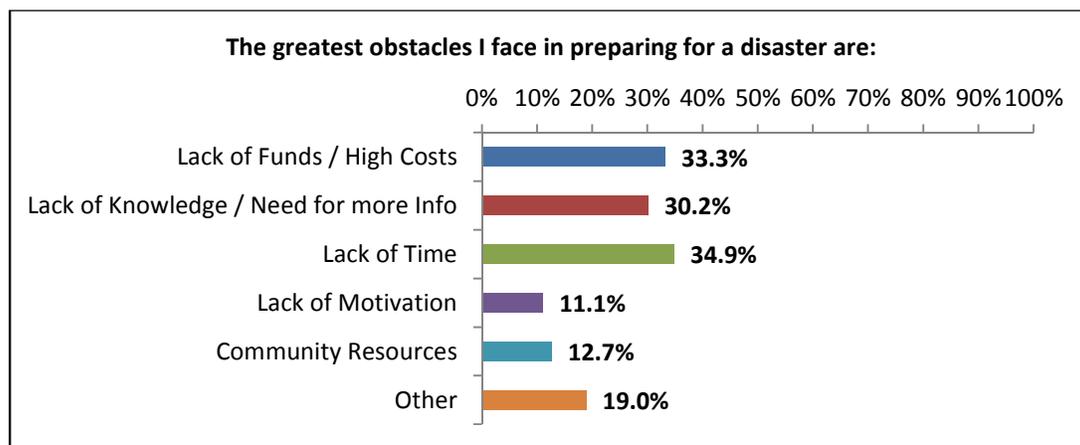
5. I have the following types of insurance: (check all that apply)

| Value  | Count | Percent |
|--|-------|---------|
| Homeowners Insurance - including Fire Coverage | 84    | 97.7%   |
| Flood Insurance                                | 19    | 22.1%   |
| Earthquake Insurance                           | 55    | 64.0%   |
| Other  | 12    | 14.0%   |



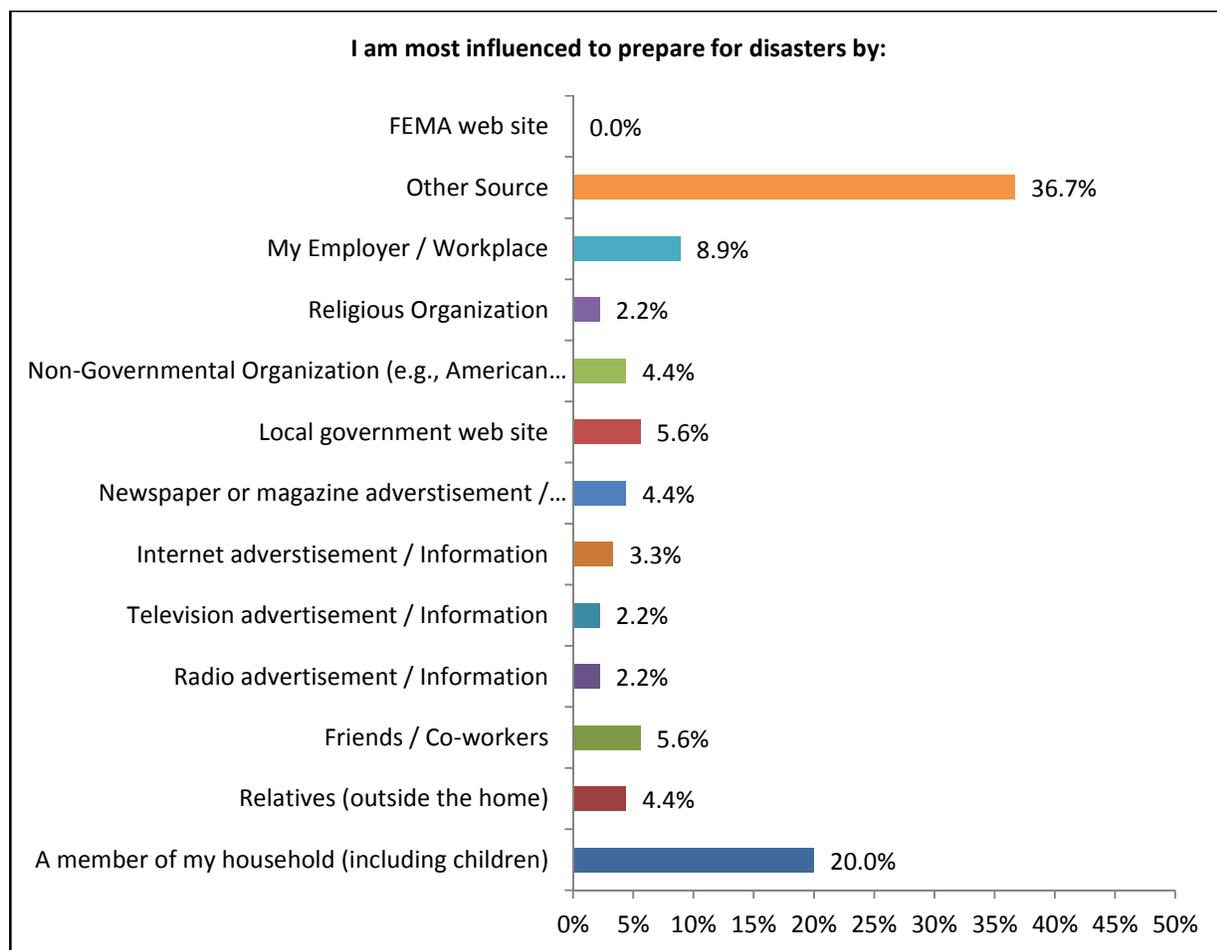
6. The greatest obstacles I face in preparing for a disaster are (check all that apply):

| Value                                  | Count | Percent |
|--|-------|---------|
| Lack of Funds / High Costs             | 21    | 33.3%   |
| Lack of Knowledge / Need for more Info | 19    | 30.2%   |
| Lack of Time                           | 22    | 34.9%   |
| Lack of Motivation                     | 7     | 11.1%   |
| Community Resources                    | 8     | 12.7%   |
| Other                                  | 12    | 19.0%   |



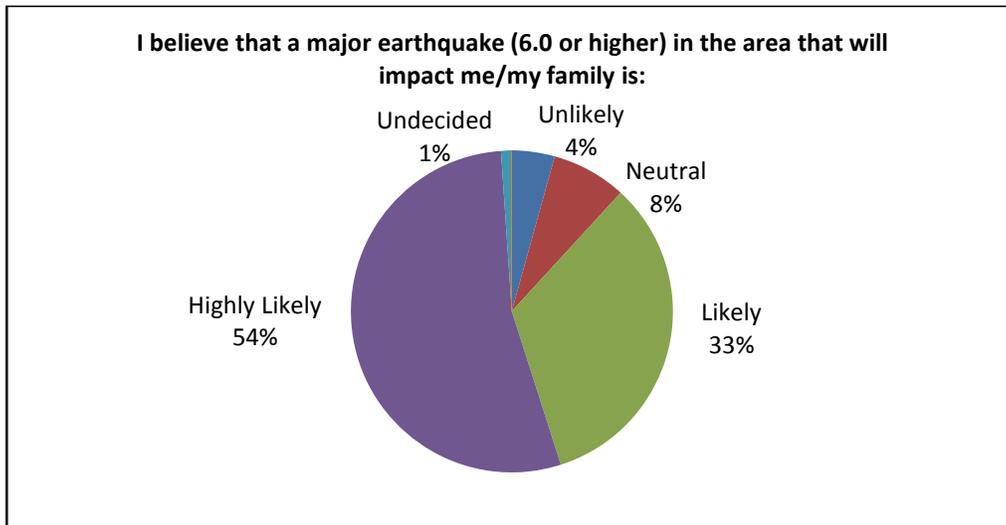
7. I am most influenced to prepare for disasters by:

| Value  | Count | Percent |
|--|-------|---------|
| A member of my household (including children)                                  | 18    | 20.0%   |
| Relatives (outside the home)   | 4     | 4.4%    |
| Friends / Co-workers   | 5     | 5.6%    |
| Radio advertisement / Information  | 2     | 2.2%    |
| Television advertisement / Information   | 2     | 2.2%    |
| Internet advertisement / Information   | 3     | 3.3%    |
| Newspaper or magazine advertisement / Information                              | 4     | 4.4%    |
| Local government web site  | 5     | 5.6%    |
| Non-Governmental Organization (e.g., American Red Cross, Salvation Army, etc.) | 4     | 4.4%    |
| Religious Organization   | 2     | 2.2%    |
| My Employer / Workplace  | 8     | 8.9%    |
| Other Source   | 33    | 36.7%   |
| FEMA web site  | 0     | 0.0%    |



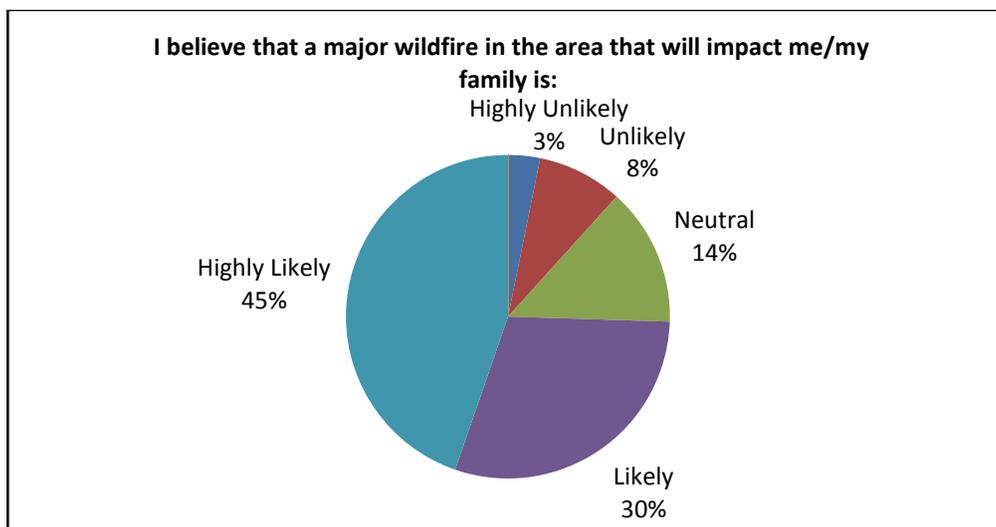
8. I believe that a major earthquake (6.0 or higher) in the area that will impact me/my family is:

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 0.0%  | 0       |
| Unlikely        | 4.3%  | 4       |
| Neutral         | 7.5%  | 7       |
| Likely          | 33.3% | 31      |
| Highly Likely   | 53.8% | 50      |
| Undecided       | 1.1%  | 1       |



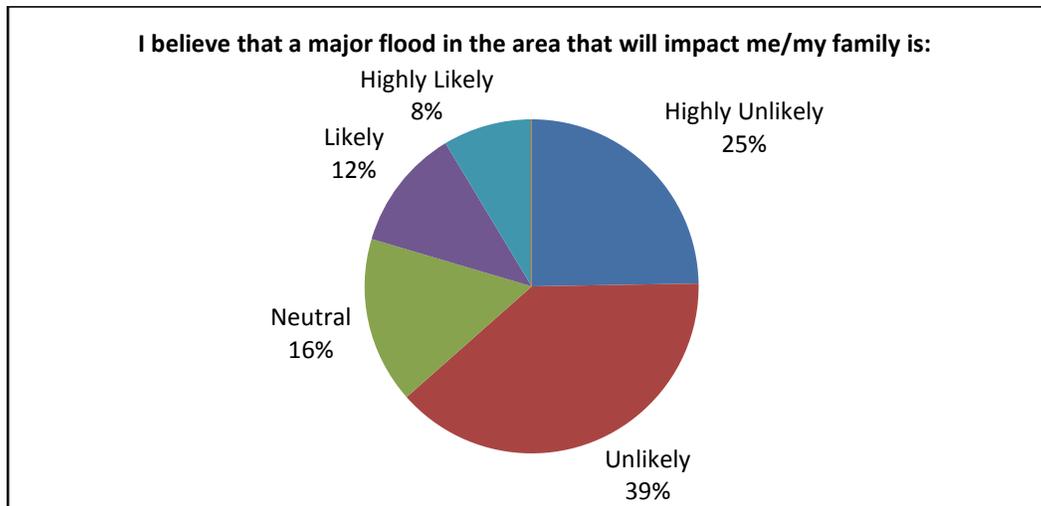
9. I believe that a major wildfire in the area that will impact me/my family is:

| Value           | Count  | Percent |
|-----------------|--------|---------|
| Highly Unlikely | 3.20%  | 3       |
| Unlikely        | 8.50%  | 8       |
| Neutral         | 13.80% | 13      |
| Likely          | 29.80% | 28      |
| Highly Likely   | 44.70% | 42      |
| Undecided       | 0%     | 0       |



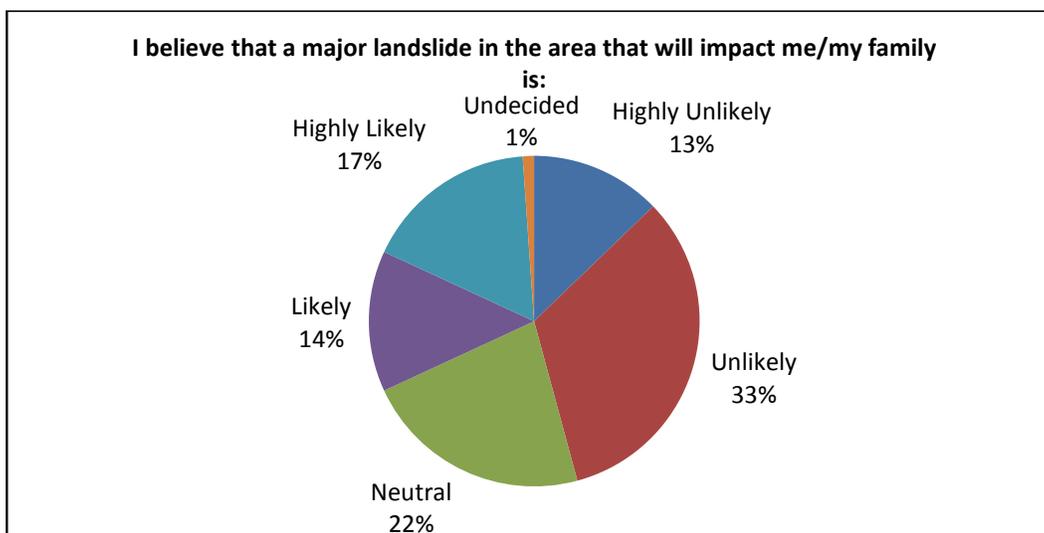
10. I believe that a major flood in the area that will impact me/my family is:

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 24.7% | 23      |
| Unlikely        | 38.7% | 36      |
| Neutral         | 16.1% | 15      |
| Likely          | 11.8% | 11      |
| Highly Likely   | 8.6%  | 8       |
| Undecided       | 0.0%  | 0       |



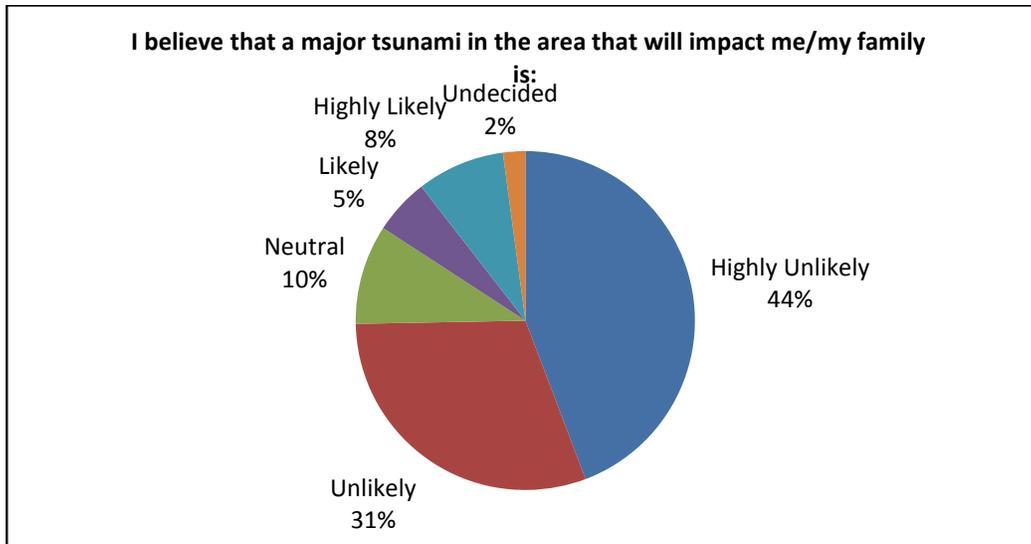
11. I believe that a major landslide in the area that will impact me/my family is:

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 12.8% | 12      |
| Unlikely        | 33.0% | 31      |
| Neutral         | 22.3% | 21      |
| Likely          | 13.8% | 13      |
| Highly Likely   | 17.0% | 16      |
| Undecided       | 1.1%  | 1       |



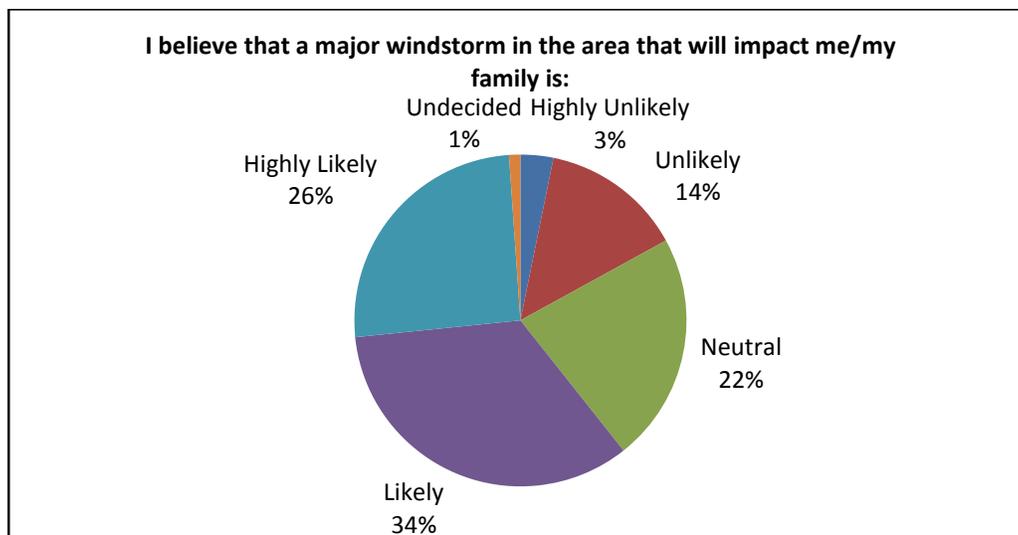
12. I believe that a major tsunami in the area that will impact me/my family is:

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 44.2% | 42      |
| Unlikely        | 30.5% | 29      |
| Neutral         | 9.5%  | 9       |
| Likely          | 5.3%  | 5       |
| Highly Likely   | 8.4%  | 8       |
| Undecided       | 2.1%  | 2       |



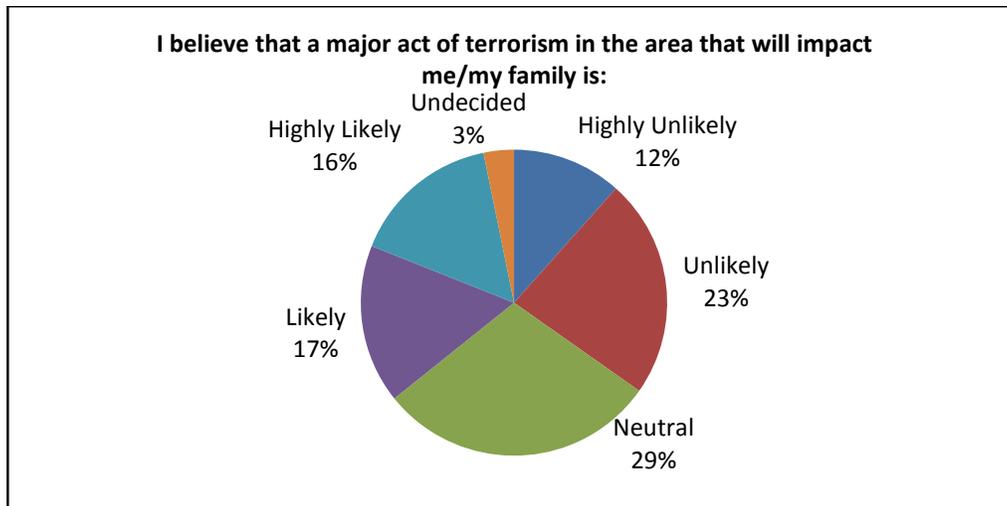
13. I believe that a major windstorm in the area that will impact me/my family is:

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 3.2%  | 3       |
| Unlikely        | 13.8% | 13      |
| Neutral         | 22.3% | 21      |
| Likely          | 34.0% | 32      |
| Highly Likely   | 25.5% | 24      |
| Undecided       | 1.1%  | 1       |



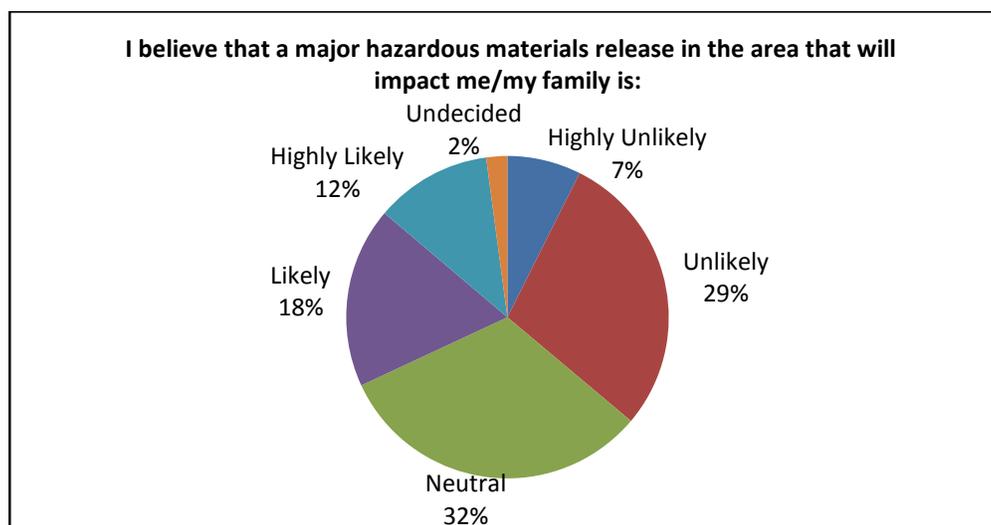
14. I believe that a major act of terrorism in the area that will impact me/my family is:

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 11.6% | 11      |
| Unlikely        | 23.2% | 22      |
| Neutral         | 29.5% | 28      |
| Likely          | 16.8% | 16      |
| Highly Likely   | 15.8% | 15      |
| Undecided       | 3.2%  | 3       |



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

| Value           | Count | Percent |
|-----------------|-------|---------|
| Highly Unlikely | 7.4%  | 7       |
| Unlikely        | 28.7% | 27      |
| Neutral         | 31.9% | 30      |
| Likely          | 18.1% | 17      |
| Highly Likely   | 11.7% | 11      |
| Undecided       | 2.1%  | 2       |

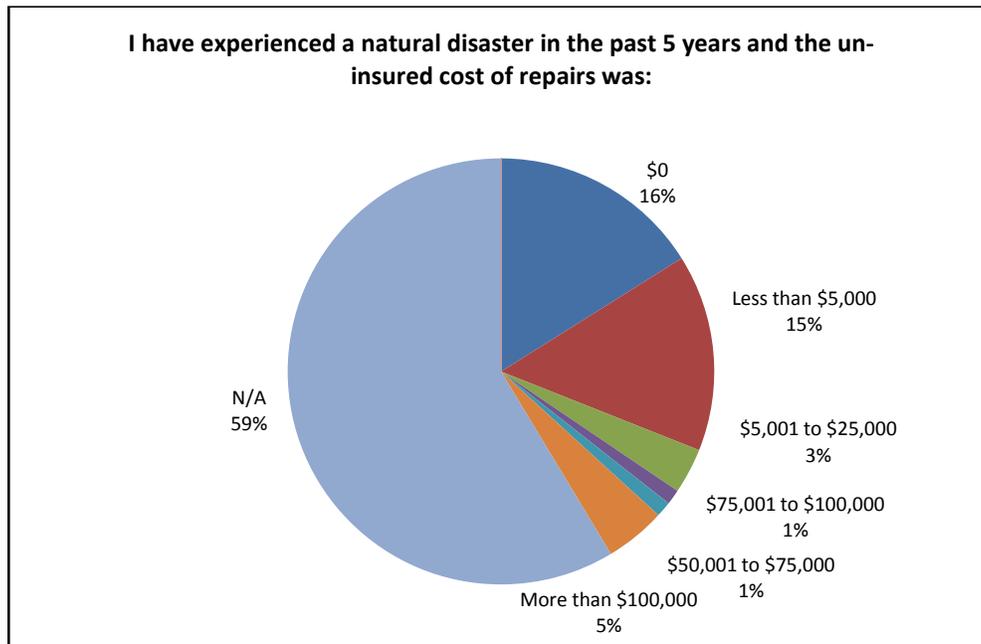


16. List other significant events that you are concerned about.

- The now-established reality that the Los Angeles County Fire Department and Sheriff's Department will be under-manned and not reliable to provide adequate first responder emergency services in this five city area in the event of any major disaster.
- No traffic outlet, due to congestion of narrow roads, etc.
- Fire and Earthquake. However I am more concerned about an earthquake. The state devotes enormous manpower to Fire Fighting. I a confidant I would be warned in time to get out safely. An earthquake. Gives no warning and its effects can be disastrous. A large earthquake could decimate Los Angeles County leaving Agoura and Westlake to fend for ourselves. It's important that we are as prepared as possible as a community. Our large population of retired people commands us to be more responsible than possibly another city. Recent disasters suggest than many People in America were left to fend for themselves for not just days but weeks. Water, daily necessary medication and basic shelter If only a sweatshirt or a blanket is necessary. It really doesn't take much but many don't take the time or effort. We have seen it several times not just earthquakes but disasters. It's comforting and important to be prepared.
- School terrorism and I am not on campus to protect my kids. The kids would be at the mercy of the school staff and whatever training they received on the job. On the job training is not at the level of CERT/DRT trainees. Psychological coping during a disaster is a very significant issue. Teachers/ school staff are likely to panic and therefore be unable to OPTIMALLY care for my two children (and all the children). I am concerned about in home invasion during a disaster: those with weapons in search of water and food. I am concerned that during a disaster, Agoura Fire/Police will be preoccupied surveying the city for damage. Those injured will not receive treatment possibly for days. The hospitals may be without power. The hospitals will be chaotic due to mass over flow of patients.
- Crime and terrorism.
- Serious accidents at the Pacific Coast Highway.
- Fires because this is a high risk area.
- Civil unrest (2 responses).
- Traffic jamming with people moving from place to place.
- I wouldn't say I'm "concerned." My former neighbor when I lived in another town was killed on American Airlines Flight 11 on 9/11. Anything can hit at any time. My big worry is the misconception that if something happens not necessarily in Agoura (Agoura Hills), but in a surrounding area that it won't affect us, but it can and may. The size of an incident, whether it's good old Mother Nature can affect outlying areas even if it's not directly near our home.
- What does concern me is that I was at a disaster meeting and mentioned that some of the medical procedures were wrong and contradictory to our training. A city official said not to worry, that if there was a problem we'd just call 911. The entire point of the training was for when we didn't have 911. When even our city leaders have the mentality that we will always be able to call 911 or that we will never have a disaster so huge that we won't have trouble for days we have a bigger problem than just the incident itself. But we're "politically correct."

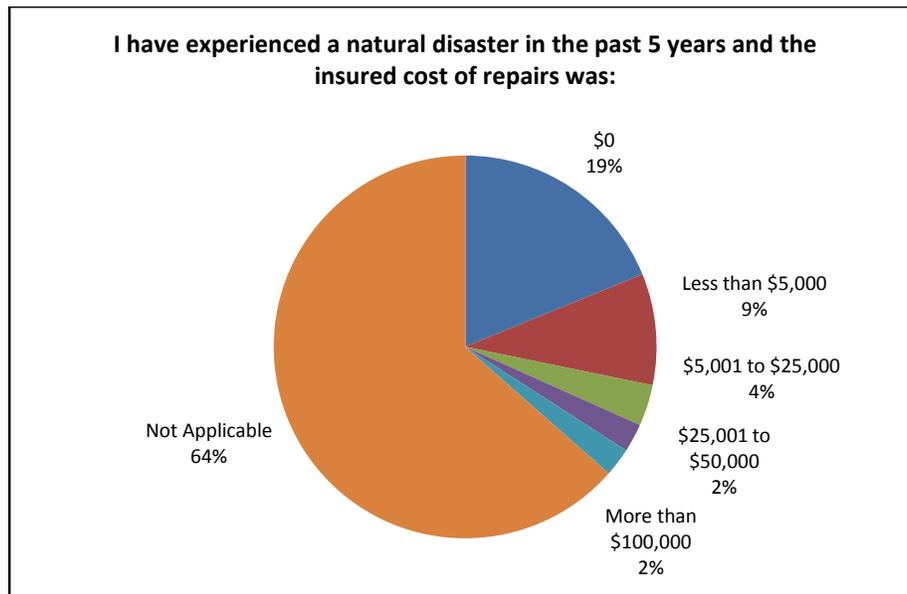
17. I have experienced a natural disaster in the past 5 years and the un-insured cost of repairs was:

| Value                 | Count | Percent |
|-----------------------|-------|---------|
| \$0                   | 14    | 16.1%   |
| Less than \$5,000     | 13    | 14.9%   |
| \$5,001 to \$25,000   | 3     | 3.4%    |
| \$25,001 to \$50,000  | 0     | 0.0%    |
| \$50,001 to \$75,000  | 1     | 1.1%    |
| \$75,001 to \$100,000 | 1     | 1.1%    |
| More than \$100,000   | 4     | 4.6%    |
| N/A                   | 51    | 58.6%   |



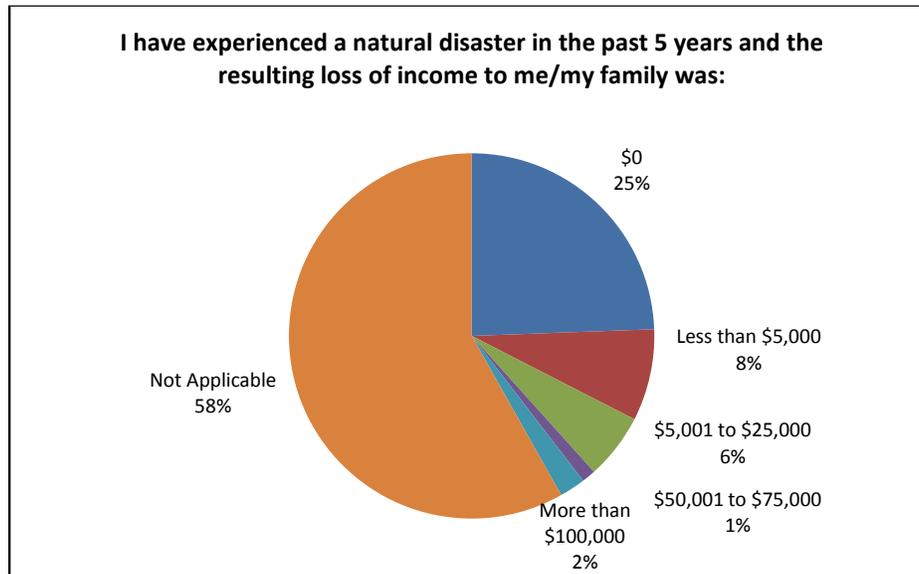
18. I have experienced a natural disaster in the past 5 years and the insured cost of repairs was:

| Value                 | Count | Percent |
|-----------------------|-------|---------|
| \$0                   | 18.8% | 16      |
| Less than \$5,000     | 9.4%  | 8       |
| \$5,001 to \$25,000   | 3.5%  | 3       |
| \$25,001 to \$50,000  | 2.4%  | 2       |
| \$50,001 to \$75,000  | 0.0%  | 0       |
| \$75,001 to \$100,000 | 0.0%  | 0       |
| More than \$100,000   | 2.4%  | 2       |
| Not Applicable        | 63.5% | 54      |



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

| Value                 | Count | Percent |
|-----------------------|-------|---------|
| \$0                   | 24.4% | 21      |
| Less than \$5,000     | 8.1%  | 7       |
| \$5,001 to \$25,000   | 5.8%  | 5       |
| \$25,001 to \$50,000  | 0.0%  | 0       |
| \$50,001 to \$75,000  | 1.2%  | 1       |
| \$75,001 to \$100,000 | 0.0%  | 0       |
| More than \$100,000   | 2.3%  | 2       |
| Not Applicable        | 58.1% | 50      |



20. What actions can local government do to help you become better prepared for disasters?

#### Training

- Small local weekend events where I can buy everything at a low cost (I don't want to get home and find it cheaper on the Internet), twice a year. From escape ladders to large water 5 gallon bottles and emergency kits. I want an emergency mall. And a journal with emergency plan ideas a space for notes etc.
- FEMA Courses at CDP, TEEEX.
- Awareness and Training.
- Provide free seminars, and free instruction, on-site help with disaster volunteers to better prepare and educate our citizens.

#### Information

- Advertise
- Brochures and newspaper articles on how to prepare.
- Frequent reminders of potential situations and ways homeowners can be better prepared to assure their safety and coping for up to a week or more. I am interested in gathering info about neighbors on my block
- More media coverage about the importance and reality of a major disaster. Get community involved in emergency training and education.
- Have a headline in the local Malibu papers on the subject, explaining risks and how to prepare for them.
- Education, education, education! I think the [second] most likely exacerbation [following the actual disaster itself!] would be generalized panic in the area reducing the ability of local governmental services to reach us, or our physical ability to vacate if necessary.
- Send email reminders / alerts / checklists - have info on the city website (which I know they do already), send mailers - notecard type (on recycled paper) with checklists for residents to fill out so we can keep track of what we still have left to do, and on the other side of the card - list what to do in an earthquake emergency - this should be a keepsake type of notecard so we will post it somewhere in the house so everyone knows what to do. Could also have forms to fill out that we use for our own use with a family plan, supplies checklist, etc. and encourage us to make a copy of this plan for each housekeeper, child, care-giver, family member, etc.

- Make residents aware of local evacuation routes; have reliable information during reverse 911 calls with explanation of how to get additional information.
- Educate
- Get more people interested in being prepared so there won't be mass panic.
- A vast majority of residents basically tune out most pronouncements from any governmental body and/or agency, which is a reality of fact. To overcome that communications gap, the respective cities CERT members (wearing a coordinated appearance of identifiable Personal Protective Clothing) creates a viable organized and functional body of committed volunteer residents, easily recognizable, who, on a neighbor-to-neighbor basis, are able to communicate the importance of becoming better prepared for eventual local disasters. Again, to get the message across for being better prepared, neighbor-to-neighbor interface is more effective than typical government direct marketing.
- Use the city TV channel to advertise that during a disaster, no city services will be available to help citizens for up to several days. They are advised to be prepared to care for their immediate family. Gas/electricity, water may be unavailable for more than a week. Do not "sugar coat" to the public that the city/government will have the resources to care for them immediately following a disaster.
- More advertisements on the TV, radio, more training that the community could participate.
- Keep us aware of what's happening / Keep putting information out.
- Provide an inventory of local resources and how to access them in event of disaster, city of Calabasas; emergency medical treatment, access to water and food, etc.
- Publish a list of disaster services and locations for assistance every week in the local papers and city website.

#### Community Preparedness

- Join CERT, American Red Cross.
- CERT Training! / Increase the city budgets to support education and the local CERT teams.
- Enlist the residents to become trained in the CERT program and participate actively with their respective city.
- Frequent First Aid and CPR training. Training for general public on disaster preparedness.
- Encourage CERT Training / Continue to encourage CERT classes.
- Support local CERT groups and training.
- Calabasas needs a proactive CERT team like Agoura Hills.
- Take it seriously while still having fun. To be more inclusive and not such a teenage "click" group. People are quitting.
- Allocate more money for Emergency Services i.e., CERT/DRT, Amateur Radio (HAM). Work closer for the Interoperability of the 7 Cities; Agoura Hills, Westlake, Calabasas, Hidden Hills, Oak Park, Malibu, Thousand Oaks.
- Continue to utilize neighborhood coordinators and have neighborhoods work with other surrounding neighborhoods to coordinate education, communication, readiness awareness "drives" and evacuation plans. Have more directed annual readiness checks that are community wide. Have cities support their Emergency Services functions with decent annual budgets.
- Organize neighborhood groups and provide emergency supplies.
- Have the COG cities integrate to back up each other with their participating resident CERT members.
- Help organize the community. Obviously if one were to hit I would gather my family and make sure they were safe. Beyond that I would go door to door to try to help my neighbors. How to do that? How to best help? How to teach a community to take care of its own until help arrives I suppose that is the challenge. Food, shelter, first aid.

- Hold series of neighborhood meetings to help people prepare for disaster. Make available emergency supplies at a discount. Appoint local captains of neighborhoods to have direct information to status of disasters. Explain to those interested what the City is doing to plan for a disaster. Possibly prepare handbook with emergency numbers, disaster preparedness suggestions, resources available and the like.
- Keep encouraging Calabasas HOAs to organize and prepare. Our HOA (Calabasas Village Mobile home) is organized, trained and has supplies to assist our 210 homes...others should, too
- I think they are doing a good job with CERT and DRT.

#### Mitigation

- Mitigate drainage, clear brush more aggressively. Make vendors Install digital feedback leak prevention devices on all utility connections (gas, water, power) remote on off switches hooked up for off-site control.

#### Other

- I notice an emergency preparedness locker located at Grape Arbor Park, but have no idea who will open it nor what is contained in it. Therefore, what will it mean for my neighborhood in an emergency? They might let residents know.
- You are doing a great job. I would like to have a resource for someone to consult with to prepare my family and advice about our home safety.
- Increase funding from all cities (serious amounts on a PRIORITY urgency) to provide the Personal Protective Clothing (PPG) that is essential for the performance and individual protection of the CERT resident participants, because in a real disaster, by default, they will become the Emergency Responders. No COG city has provided adequate personal protective clothing for its CERT membership (be it policy and/or low-priority budget commitment) that will be essential for use and personal protection of its resident volunteers in a disaster.
- Keep roads open and evacuations minimal in fires. Declaring (in 2007) an evacuation order for 4 days all the way to Kanan, when the fire was at Malibu Canyon, was an outrage.
- Use incentives like the car insurance companies do: If each adult in the home completes CERT training, they receive a monetary discount on their city taxes. Or as the DMV does: Senior citizens who complete a Safe Senior driving course receive a discount on their car insurance.
- Have local fire and police departments continue to work closely with the citizenry.
- Sheriffs are not prepared. Aside from CERT, they don't care about the average Joe.
- Make sure police and fire departments from outside the area have up to date maps.
- City is well prepared.

## SECTION 15. ANNEX D: STEERING COMMITTEE / PLANNING GROUP HMP RISK ASSESSMENT SURVEY

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

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

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

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

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

| Hazard                               | Probability | Magnitude or Severity | Warning Time | Duration | Risk |
|--------------------------------------|-------------|-----------------------|--------------|----------|------|
| Major Earthquake<br>(M6.0 and above) | 1.46        | 0.68                  | 0.60         | 0.38     | 3.11 |
| Wildfire                             | 1.46        | 0.53                  | 0.53         | 0.23     | 2.74 |
| Windstorm                            | 1.20        | 0.40                  | 0.50         | 0.30     | 2.40 |
| Landslide                            | 0.75        | 0.50                  | 0.60         | 0.37     | 2.22 |
| Terrorism                            | 0.60        | 0.60                  | 0.60         | 0.27     | 2.07 |
| Flood                                | 0.68        | 0.38                  | 0.30         | 0.23     | 1.58 |

Table 129: Risk Ratings

## Risk Assessment Survey Results

The following tables provide the results from the Risk Assessment Survey for the Las Virgenes-Malibu Council of Governments region. Each section of the survey describes a hazard, risks, consequences, and rating summary (Note: Zero values are omitted).

### Earthquake (Greater than Magnitude 6.0)

*Probability - Rate the probability based on historical events.*

| Rating        | Description  |
|---------------|--|
| N/A           | Not Applicable   |
| Unlikely      | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001.                        |
| Possible      | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001.         |
| Likely        | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1.                    |

**Earthquake (Greater than 6.0M) Probability Rating**  
Rate the probability based on historical events.

A pie chart titled 'Earthquake (Greater than 6.0M) Probability Rating' showing the distribution of responses based on historical events. The chart is divided into two segments: a red segment representing 'Highly Likely' at 25% and a yellow segment representing 'Likely' at 75%. The legend below the chart includes N/A (white), Unlikely (green), Possible (orange), Likely (yellow), and Highly Likely (red).

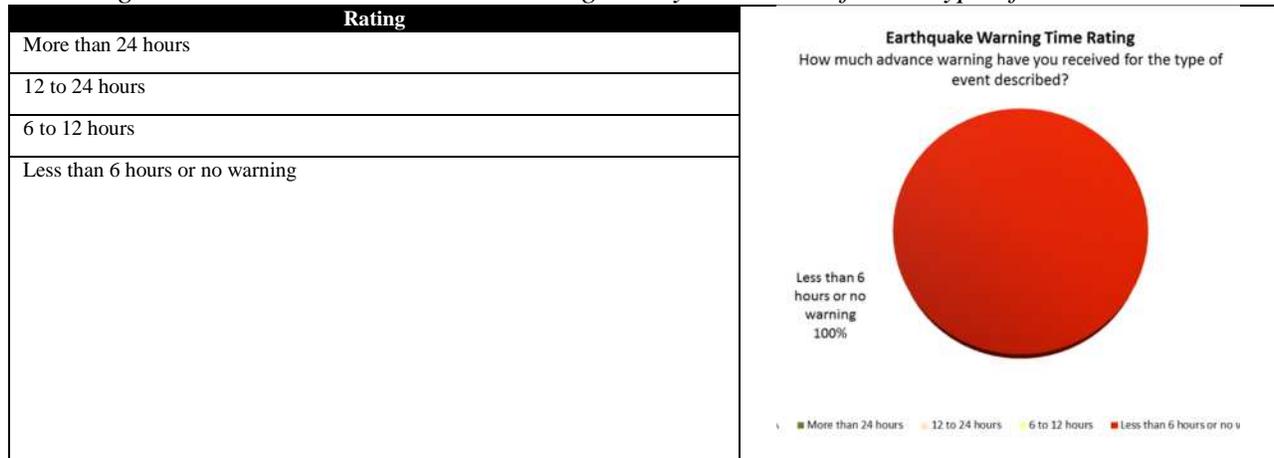
*Magnitude and Severity - How severe was the impact to lives, property, and infrastructure?*

| Rating       | Description  |
|--------------|--|
| 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.   |

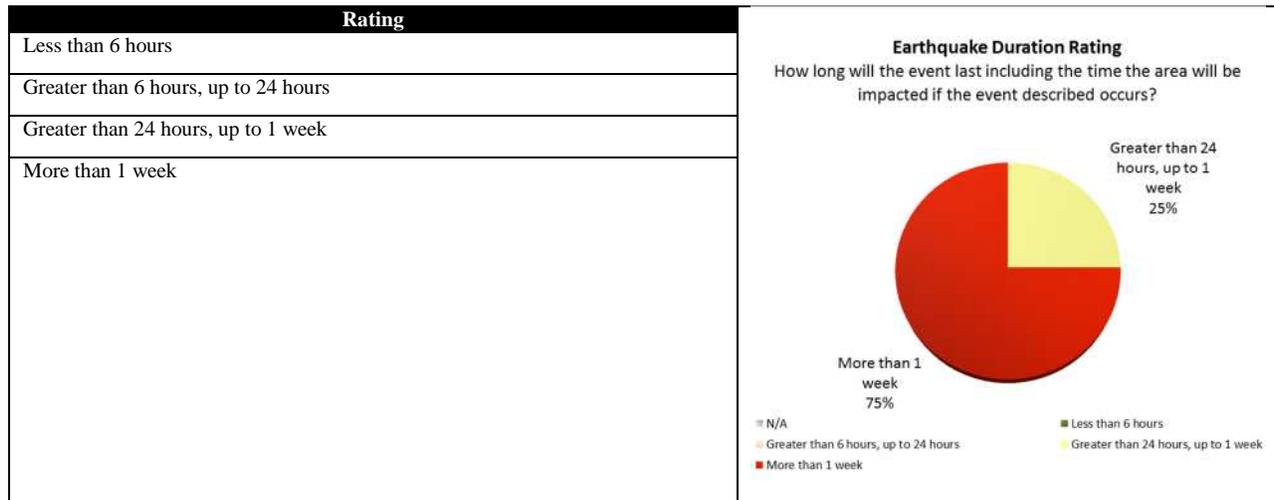
**Earthquake Magnitude and Severity Rating (based on previous events)**  
How severe was the impact to lives, property, and infrastructure?

A pie chart titled 'Earthquake Magnitude and Severity Rating (based on previous events)' showing the severity of impact to lives, property, and infrastructure. The chart is divided into three segments: a green segment for 'Negligible' (25%), an orange segment for 'Limited' (25%), and a yellow segment for 'Critical' (50%). The legend below the chart includes N/A (white), Negligible (green), Limited (orange), Critical (yellow), and Catastrophic (red).

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



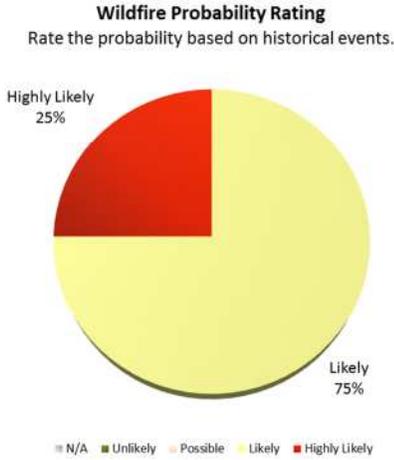
*Duration - How long will the event last including the time the area will be impacted if the event described occurs?*



## Wildfire

*Probability - Rate the probability based on historical events.*

| Rating        | Description  |
|---------------|--|
| N/A           | Not Applicable   |
| Unlikely      | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001.                        |
| Possible      | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001.         |
| Likely        | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1.                    |

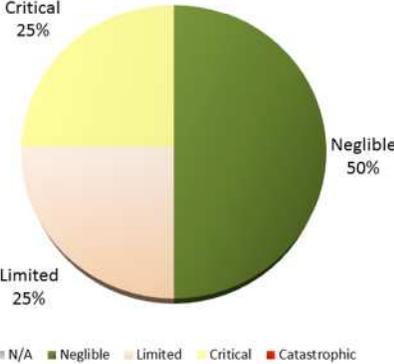


**Wildfire Probability Rating**  
 Rate the probability based on historical events.

| Rating        | Percentage |
|---------------|------------|
| Highly Likely | 25%        |
| Likely        | 75%        |

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

| Rating       | Description  |
|--------------|--|
| 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.   |



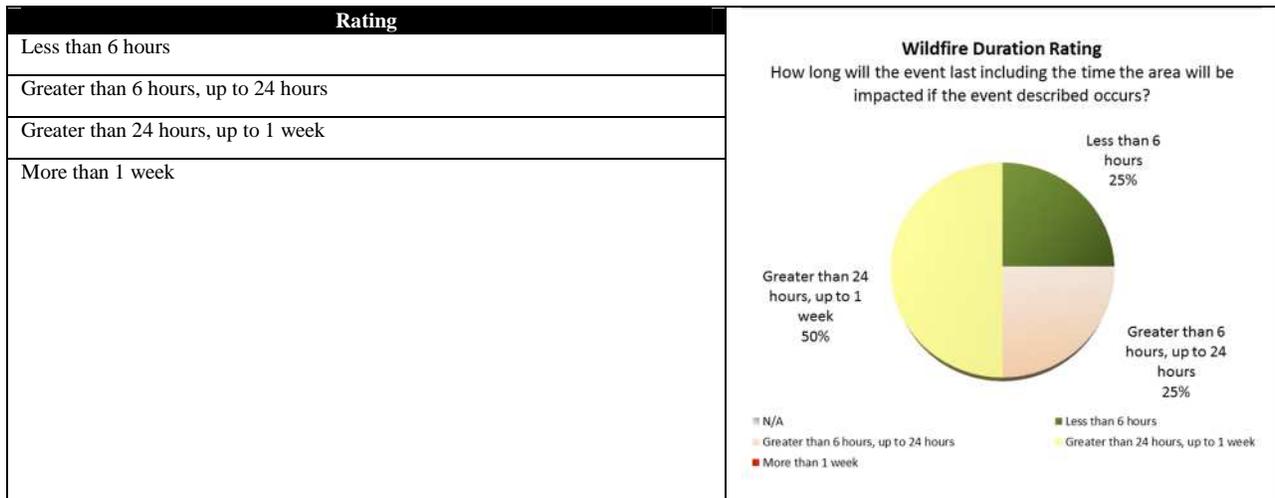
**Wildfire Magnitude and Severity Rating  
(based on previous events)**  
 How severe was the impact to lives, property, and infrastructure?

| Rating     | Percentage |
|------------|------------|
| Negligible | 50%        |
| Critical   | 25%        |
| Limited    | 25%        |

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



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



## Flood

*Probability - Rate the probability based on historical events.*

| Rating        | Description  |
|---------------|--|
| N/A           | Not Applicable   |
| Unlikely      | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001.                        |
| Possible      | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001.         |
| Likely        | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1.                    |

**Flood Probability Rating**  
Rate the probability based on historical events.

A pie chart titled 'Flood Probability Rating' showing two equal halves. The left half is light orange and labeled 'Possible 50%'. The right half is dark green and labeled 'Unlikely 50%'. A legend below the chart shows five categories: N/A (white), Unlikely (dark green), Possible (light orange), Likely (yellow), and Highly Likely (red).

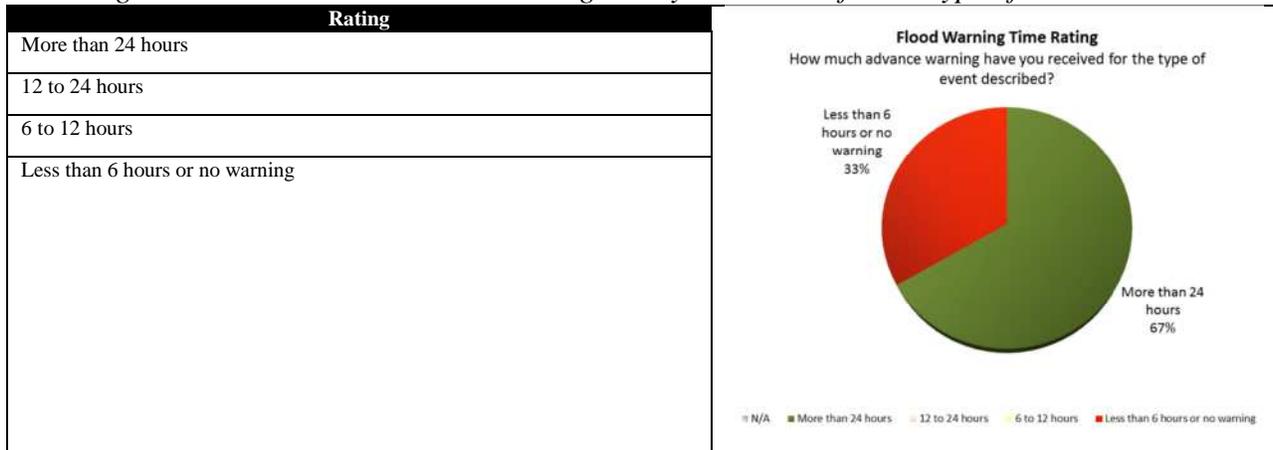
*Magnitude and Severity - How severe was the impact to lives, property, and infrastructure?*

| Rating       | Description  |
|--------------|--|
| 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.   |

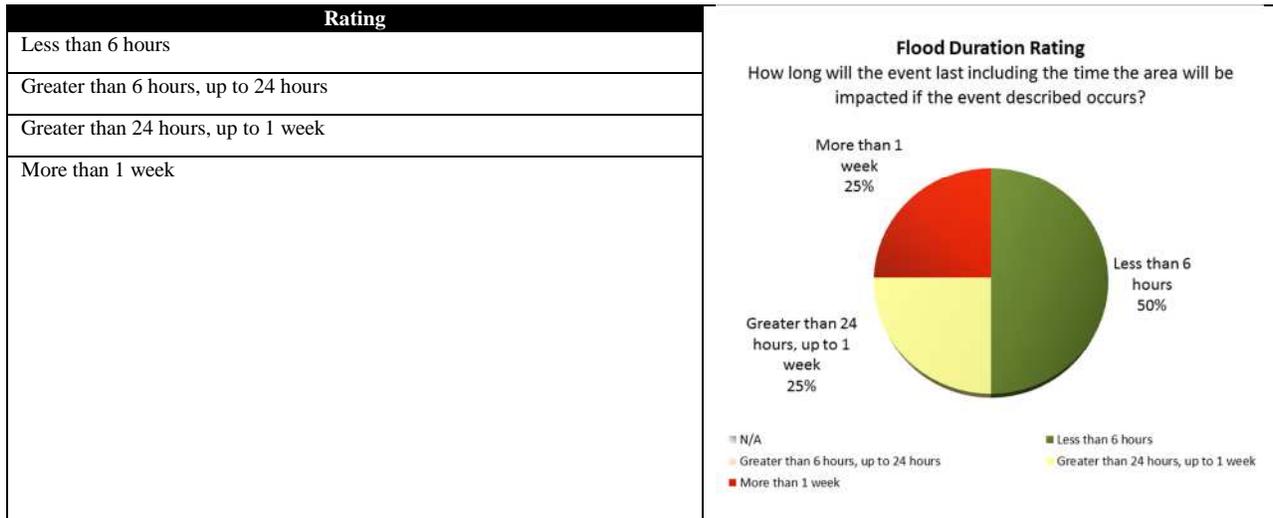
**Flood Magnitude and Severity Rating (based on previous events)**  
How severe was the impact to lives, property, and infrastructure?

A pie chart titled 'Flood Magnitude and Severity Rating (based on previous events)' showing two segments. The large segment is dark green, labeled 'Negligible 75%'. The smaller segment is light orange, labeled 'Limited 25%'. A legend below the chart shows five categories: N/A (white), Negligible (dark green), Limited (light orange), Critical (yellow), and Catastrophic (red).

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



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



## Landslide

*Probability - Rate the probability based on historical events.*

| Rating        | Description  |
|---------------|--|
| N/A           | Not Applicable   |
| Unlikely      | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001.                        |
| Possible      | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001.         |
| Likely        | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1.                    |

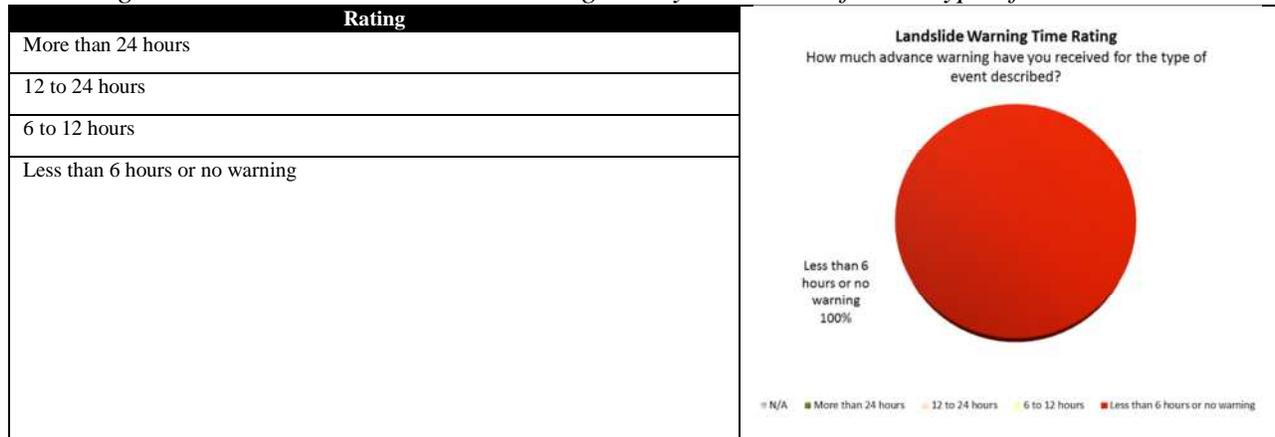
| Rating   | Percentage |
|----------|------------|
| Possible | 67%        |
| Unlikely | 33%        |

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

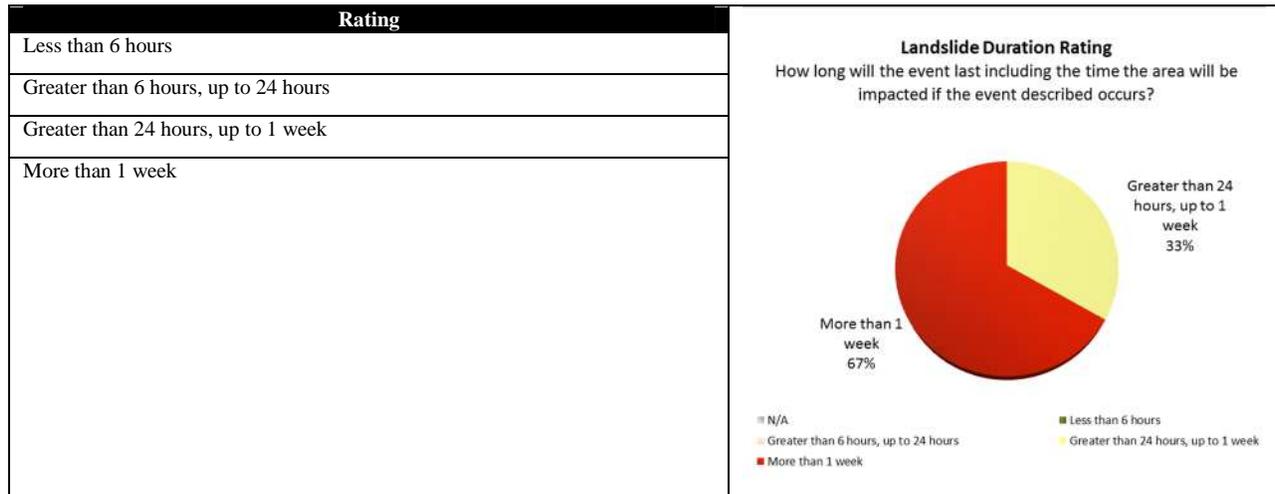
| Rating       | Description  |
|--------------|--|
| Negligible   | Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical 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.   |

| Rating     | Percentage |
|------------|------------|
| Limited    | 67%        |
| Negligible | 33%        |

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

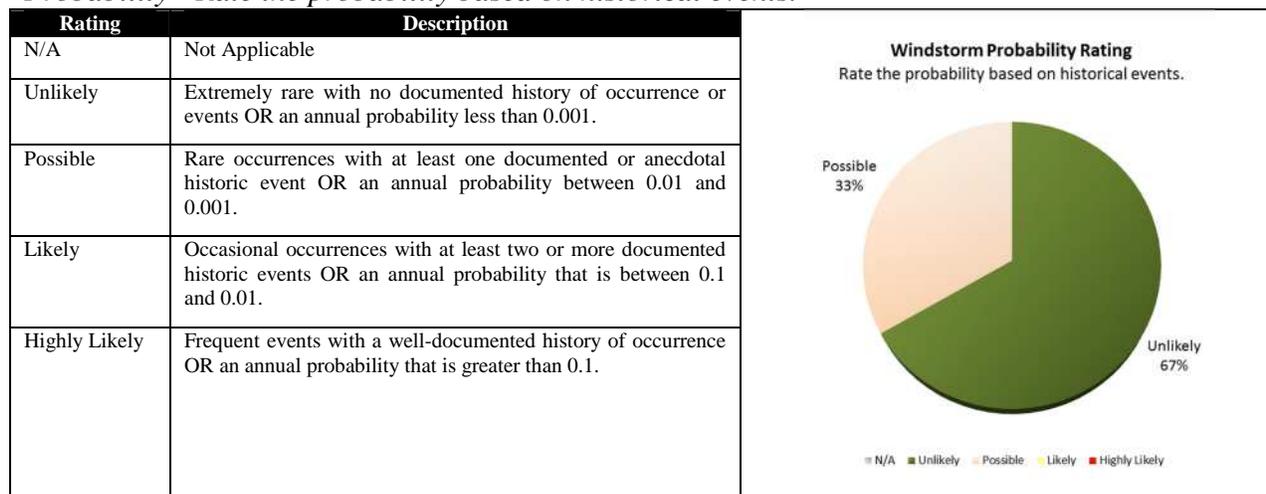


*Duration - How long will the event last including the time the area will be impacted if the event described occurs?*

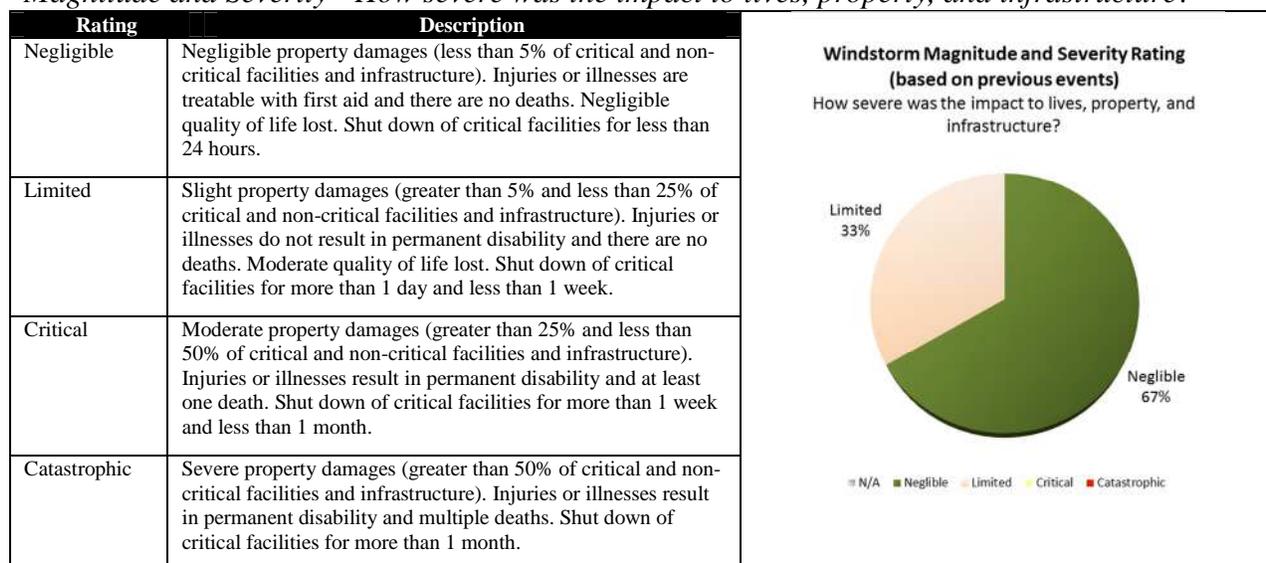


## Severe Windstorm

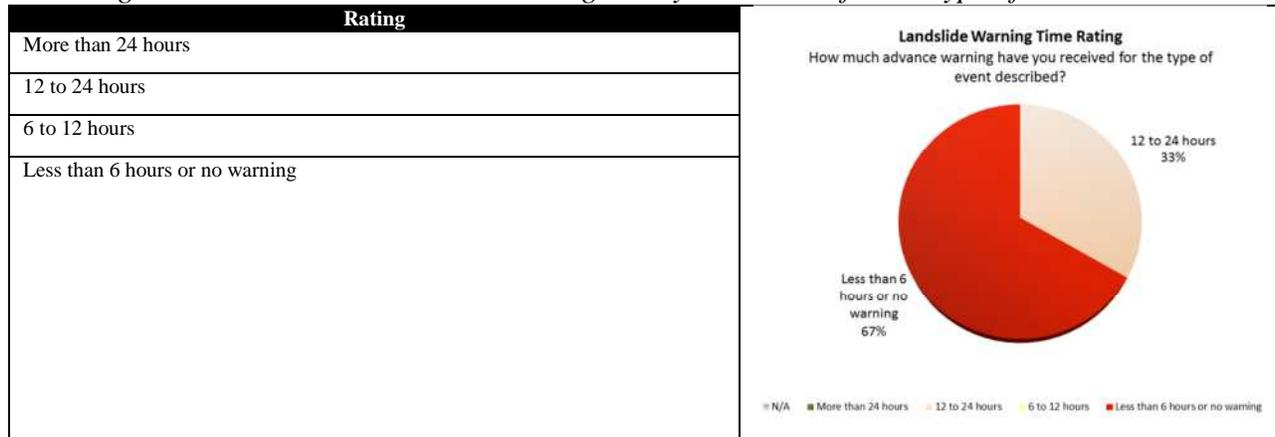
*Probability - Rate the probability based on historical events.*



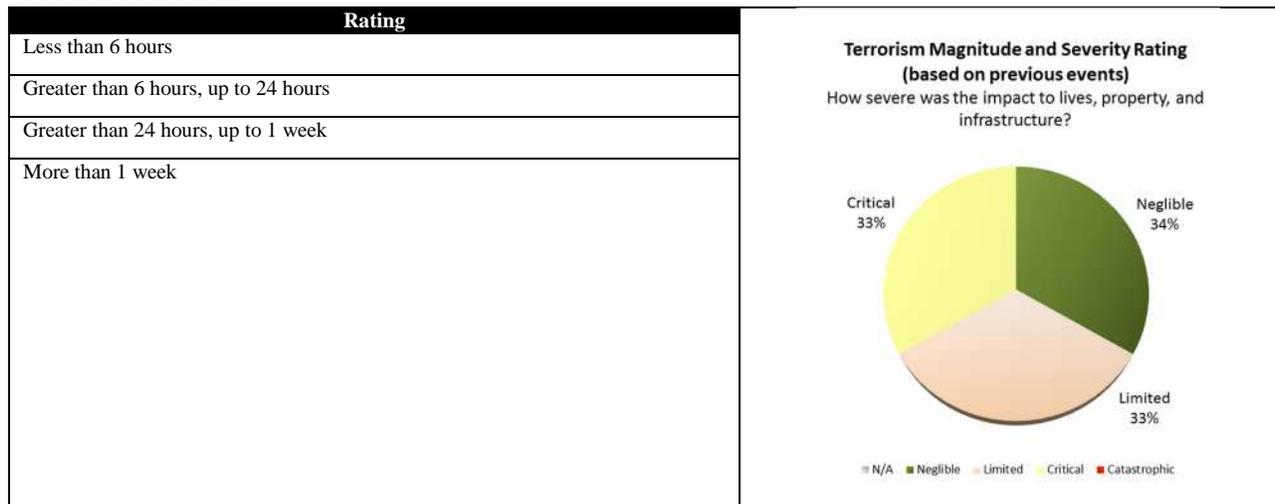
*Magnitude and Severity - How severe was the impact to lives, property, and infrastructure?*



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



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



## Terrorism

*Probability - Rate the probability based on historical events.*

| Rating        | Description  |
|---------------|--|
| N/A           | Not Applicable   |
| Unlikely      | Extremely rare with no documented history of occurrence or events OR an annual probability less than 0.001.                        |
| Possible      | Rare occurrences with at least one documented or anecdotal historic event OR an annual probability between 0.01 and 0.001.         |
| Likely        | Occasional occurrences with at least two or more documented historic events OR an annual probability that is between 0.1 and 0.01. |
| Highly Likely | Frequent events with a well-documented history of occurrence OR an annual probability that is greater than 0.1.                    |

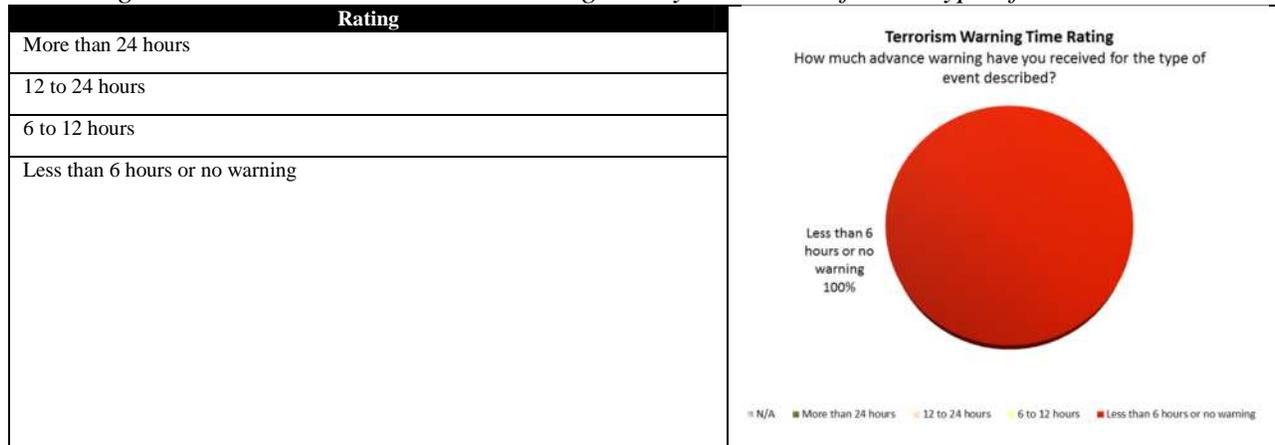
| Rating        | Percentage |
|---------------|------------|
| Unlikely      | 67%        |
| Possible      | 33%        |
| N/A           | 0%         |
| Likely        | 0%         |
| Highly Likely | 0%         |

*Magnitude and Severity - How severe would be the impact to lives, property, and infrastructure?*

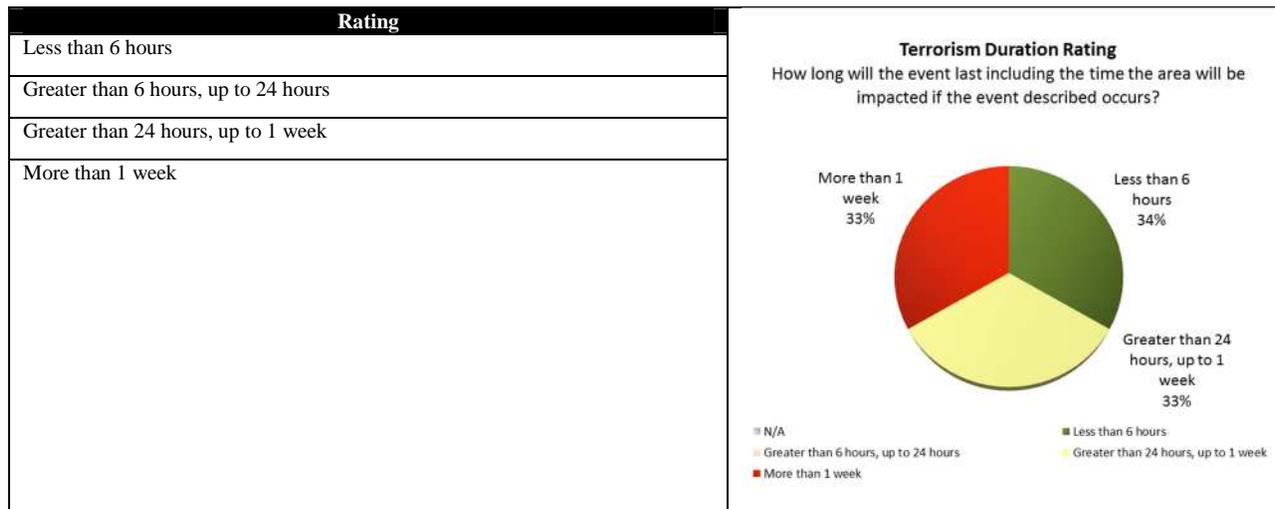
| Rating       | Description  |
|--------------|--|
| Negligible   | Negligible property damages (less than 5% of critical and non-critical facilities and infrastructure). Injuries or illnesses are treatable with first aid and there are no deaths. Negligible quality of life lost. Shut down of critical 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.   |

| Rating       | Percentage |
|--------------|------------|
| Negligible   | 34%        |
| Limited      | 33%        |
| Critical     | 33%        |
| N/A          | 0%         |
| Catastrophic | 0%         |

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



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



## SECTION 16. ANNEX E: PLANNING AND PUBLIC INVOLVEMENT

### Planning

Representatives from each city within the Las Virgenes-Malibu Council of Governments regularly meet to discuss mitigation efforts and plan future activities. As members of Disaster Management Area B, each city participates in quarterly planning meetings as well as post-DMA meetings with LVMCOG member cities. The following minutes provide a sample of the planning topics discussed at the DMA meetings. LVMCOG emergency management representatives also meet separately to discuss issues specific to the LVMCOG.

### SAMPLE

#### Disaster Management Area B Meeting Minutes

CITY OF MALIBU

MINUTES JUL 14, 2011 11:48AM TO 12:00 PM ZUMA ROOM

|                           |   |
|---------------------------|---|
| <b>MEETING CALLED BY</b>  | Standing Area B Local Hazard Mitigation Plan (LHMP) Meeting   |
| <b>TYPE OF MEETING</b>    | Quarterly Meeting   |
| <b>HOST / FACILITATOR</b> | Debbie Pedrazzoli in Kelvin Tainatongo (Chair) absence  |
| <b>NOTE TAKER</b>         | Debbie Pedrazzoli   |
| <b>ATTENDEES</b>          | <p><b>CITIES PRESENT:</b><br/>           Anne Ambrose – City of Palmdale, Director of Public Safety and Community Relations<br/>           Brad Davis – City of Malibu, Emergency Preparedness Coordinator<br/>           Debbie Larson – City of Calabasas, Public Safety Coordinator<br/>           Donna Nuzzi – City of Santa Clarita, Emergency Services Supervisor<br/>           Jim Jordan – City of Calabasas, Director of Public Safety &amp; Emergency Preparedness<br/>           Kerry Kallman – City of Westlake Village, Administrative Analyst</p> <p><b>DMAC PRESENT:</b><br/>           Deb Pedrazzoli – Area B Disaster Management Area Coordinator (DMAC)</p> <p><b>AGENCY PARTNERS PRESENT:</b> None</p> <p><b>GUESTS PRESENT:</b> None</p> <p><b>CITIES NOT PRESENT:</b><br/>           Deanna Graybill, City of Hidden Hills, Deputy City Clerk<br/>           Kelvin Tainatongo, City of Lancaster, Assistant to the City Manager<br/>           Louis Celaya – City of Agoura Hills, Assistant to the City Manager</p> |

**Agenda topics**

INTRODUCTIONS DEB P

|  |                    |          |
|--|--------------------|----------|
| The Meeting was called to order at 11:48am.  |                    |          |
| DISCUSSION Introductions were not necessary. |                    |          |
| CONCLUSIONS N/A                              |                    |          |
| ACTION ITEMS                                 | PERSON RESPONSIBLE | DEADLINE |
| N/A  | N/A                | N/A      |

TOPIC/DISCUSSION DEB P

|                   |  |          |
|-------------------|--|----------|
| <b>DISCUSSION</b> | <p>Overview of the FEMA’s “Local Mitigation Plan Review Crosswalk”:</p> <ul style="list-style-type: none"> <li>• Deb P. began reviewing with those in attendance the FEMA’s Local Mitigation Plan Review</li> <li>• Crosswalk page A-5 covering the Planning Process which included the following items: <ul style="list-style-type: none"> <li>• Documentation of Planning Process</li> <li>• Requirement 201.6(b) <ul style="list-style-type: none"> <li>○ Public comment</li> <li>○ Neighboring communities/agencies involvement</li> <li>○ Review/incorporation of existing documents</li> </ul> </li> <li>• Requirement 201.6(c)(1)</li> <li>• Document how it was prepared, who was involved and how the public was involved. Elements</li> <li>• Document who was involved in the current planning process.</li> <li>• Document how the public was involved.</li> <li>• Document the opportunities for neighboring communities, agencies, businesses, academia, nonprofits, and other interested parties to be involved in the planning process.</li> <li>• Document the review and incorporation of existing plans, studies, reports, and technical information.</li> <li>• Document a narrative description of the process followed to prepare the plan.</li> <li>• Document how the planning team reviewed and analyzed each section of the plan whether it was revised or not.</li> </ul> <p><b>Handouts.</b></p> <ul style="list-style-type: none"> <li>• Copy of FEMA’s Local Mitigation Plan Review Crosswalk dated July 1, 2008 page A-5.</li> <li>• Next month’s topic</li> <li>• Continuation of FEMA’s Local Mitigation Plan Review Crosswalk dated July 1, 2008 starting on page A-6 Risk Assessment – Identifying Hazards and Profiling Hazards.</li> </ul> </li></ul> |          |
| CONCLUSIONS       | N/A  |          |
| ACTION ITEMS      | PERSON RESPONSIBLE   | DEADLINE |
| N/A               | N/A  | N/A      |

**ROUNDTABLE ALL**

| <b>DISCUSSION</b>   | <ul style="list-style-type: none"> <li>• Discussion ensued by all in attendance regarding public involvement (ex. newspaper ad, websites, and community meetings).</li> <li>• City of Santa Clarita posts a survey on their website for public comment.</li> <li>• Donna N. will send out a copy of the survey.</li> <li>• Anne A. City of Palmdale requested that Deb P. send out the link to the Crosswalk.</li> </ul> |                           |                 |   |          |  |          |
|---|--|---------------------------|-----------------|---|----------|--|----------|
| <b>CONCLUSIONS</b>  | N/A  |                           |                 |   |          |  |          |
| <b>ACTION ITEMS</b>   | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;"><b>PERSON RESPONSIBLE</b></th> <th style="width: 50%;"><b>DEADLINE</b></th> </tr> </thead> <tbody> <tr> <td>Send out copy of City of Santa Clarita on-line HazMit survey. Send out link to Crosswalk.</td> <td>11/10/11</td> </tr> <tr> <td></td> <td>11/10/11</td> </tr> </tbody> </table>                      | <b>PERSON RESPONSIBLE</b> | <b>DEADLINE</b> | Send out copy of City of Santa Clarita on-line HazMit survey. Send out link to Crosswalk. | 11/10/11 |  | 11/10/11 |
| <b>PERSON RESPONSIBLE</b>   | <b>DEADLINE</b>  |                           |                 |   |          |  |          |
| Send out copy of City of Santa Clarita on-line HazMit survey. Send out link to Crosswalk. | 11/10/11   |                           |                 |   |          |  |          |
|   | 11/10/11   |                           |                 |   |          |  |          |
| <b>OBSERVERS</b>  | N/A  |                           |                 |   |          |  |          |
| <b>RESOURCE PERSONS</b>   | N/A  |                           |                 |   |          |  |          |
| <b>SPECIAL NOTES</b>  | <p>12:00 PM MEETING ADJOURNED.<br/>                 Next Area B LHMP Meeting – Thursday, Nov 10, 2011 promptly following (approximately 12 Noon) the Area B Board Meeting at the City of Hidden Hills.<br/>                 Note meeting had to be moved from Oct 13 to Nov 10 due to the Area B Meeting and EOC Tour at the Getty Center on Oct 13.</p>   |                           |                 |   |          |  |          |

## Public Participation and Involvement

The public participated in the original 2005 Multi-Jurisdictional Hazard Mitigation Plan (HMP) and this update. Public participation was enabled through a variety of means that included:

- An online Disaster Preparedness Risk Survey
- Public Announcements
- City Council Meetings

### Disaster Preparedness Risk Survey

A survey was published to allow members of the public to provide their input on local area hazards, preparedness efforts, suggestions for mitigation and improvement, and the historic consequences of disasters. The results of the Survey are provided in Annex C.

The survey was distributed and publicized via city websites, publically available forms, newspapers (link to the survey), and during community training events. The figure below provides sample of an announcement that appeared in the Acorn newspaper.

#### Survey underway

2012-02-16 / Community

The Las Virgenes- Malibu Council of Governments is conducting a survey to determine the level of disaster preparedness in the community and, in turn, identify potential local area risks. The data provided will educate residents and help them plan better for potential disasters in Calabasas and nearby communities. The survey is administered and maintained by MLC and Associates, Inc. A link to the survey is at [http:// www.cityofcalabasas.com/disastersurvey.html](http://www.cityofcalabasas.com/disastersurvey.html). Questions can be emailed to [MLC@ MLCandassociates.com](mailto:MLC@MLCandassociates.com).

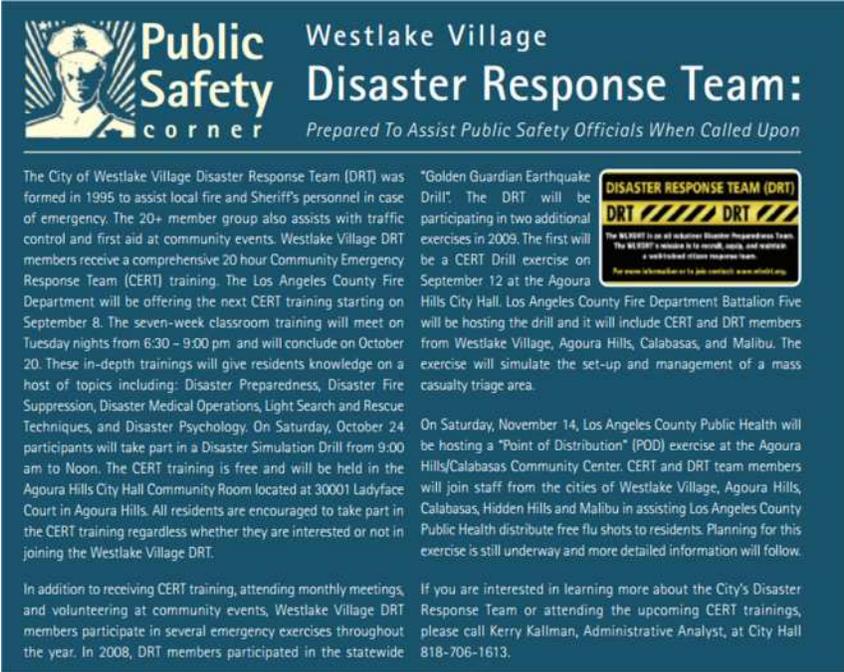
Figure 71: Acorn Newspaper Survey Announcement



Figure 72: Agoura Hills and Malibu Patch Survey Announcement

## Public Announcements and Information

In addition to the Disaster Preparedness Risk Survey, each city distributes Emergency and Disaster Mitigation information via their websites and city-operated television channels. 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.



The poster features a blue background with a white and yellow logo on the left that includes a silhouette of a person in a uniform and the text "Public Safety corner". To the right of the logo, the text reads "Westlake Village Disaster Response Team: Prepared To Assist Public Safety Officials When Called Upon". Below this, there are three columns of text. The first column describes the DRT's formation in 1995 and upcoming CERT training. The second column, titled "Golden Guardian Earthquake Drill", details a CERT drill on September 12. The third column, titled "Point of Distribution (POD) exercise", describes an exercise on November 14. A small graphic of a "DISASTER RESPONSE TEAM (DRT)" sign is also present. At the bottom, contact information for Kerry Kallman is provided.

**Public Safety corner** Westlake Village  
**Disaster Response Team:**  
*Prepared To Assist Public Safety Officials When Called Upon*

The City of Westlake Village Disaster Response Team (DRT) was formed in 1995 to assist local fire and Sheriff's personnel in case of emergency. The 20+ member group also assists with traffic control and first aid at community events. Westlake Village DRT members receive a comprehensive 20 hour Community Emergency Response Team (CERT) training. The Los Angeles County Fire Department will be offering the next CERT training starting on September 8. The seven-week classroom training will meet on Tuesday nights from 6:30 – 9:00 pm and will conclude on October 20. These in-depth trainings will give residents knowledge on a host of topics including: Disaster Preparedness, Disaster Fire Suppression, Disaster Medical Operations, Light Search and Rescue Techniques, and Disaster Psychology. On Saturday, October 24 participants will take part in a Disaster Simulation Drill from 9:00 am to Noon. The CERT training is free and will be held in the Agoura Hills City Hall Community Room located at 30001 Ladyface Court in Agoura Hills. All residents are encouraged to take part in the CERT training regardless whether they are interested or not in joining the Westlake Village DRT.

"Golden Guardian Earthquake Drill": The DRT will be participating in two additional exercises in 2009. The first will be a CERT Drill exercise on September 12 at the Agoura Hills City Hall. Los Angeles County Fire Department Battalion Five will be hosting the drill and it will include CERT and DRT members from Westlake Village, Agoura Hills, Calabasas, and Malibu. The exercise will simulate the set-up and management of a mass casualty triage area.

On Saturday, November 14, Los Angeles County Public Health will be hosting a "Point of Distribution" (POD) exercise at the Agoura Hills/Calabasas Community Center. CERT and DRT team members will join staff from the cities of Westlake Village, Agoura Hills, Calabasas, Hidden Hills and Malibu in assisting Los Angeles County Public Health distribute free flu shots to residents. Planning for this exercise is still underway and more detailed information will follow.

In addition to receiving CERT training, attending monthly meetings, and volunteering at community events, Westlake Village DRT members participate in several emergency exercises throughout the year. In 2008, DRT members participated in the statewide

If you are interested in learning more about the City's Disaster Response Team or attending the upcoming CERT trainings, please call Kerry Kallman, Administrative Analyst, at City Hall 818-706-1613.

**DISASTER RESPONSE TEAM (DRT)**  
**DRT**  
The DRT is an all volunteer Disaster Preparedness Team. The DRT is a resource to fire, police, and emergency services. For more information or to join contact: www.wlvill.org

Figure 73: Westlake Village DRT and Exercise Announcement

## City Council Meetings

Each City Council reviewed and adopted the original 2005 Multi-Jurisdictional Hazard Mitigation Plan and this update. During City Council meetings, members of the public were invited to provide their feedback and comments regarding the HMP. Likewise, the revised HMP was presented at City Council meetings for review and feedback.

## SECTION 17. 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\*  
513  
(EL 987)

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  
②③ ----- ②③ Transect line

97°07'30", 32°22'30"  
42750000N  
6000000 FT  
DX5510 × Bench mark (see explanation in Notes to Users section of this FIRM panel)  
M1.5 River Mile

MAP REPOSITORIES  
Refer to Map Repositories list on Map Index

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP  
September 26, 2008  
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

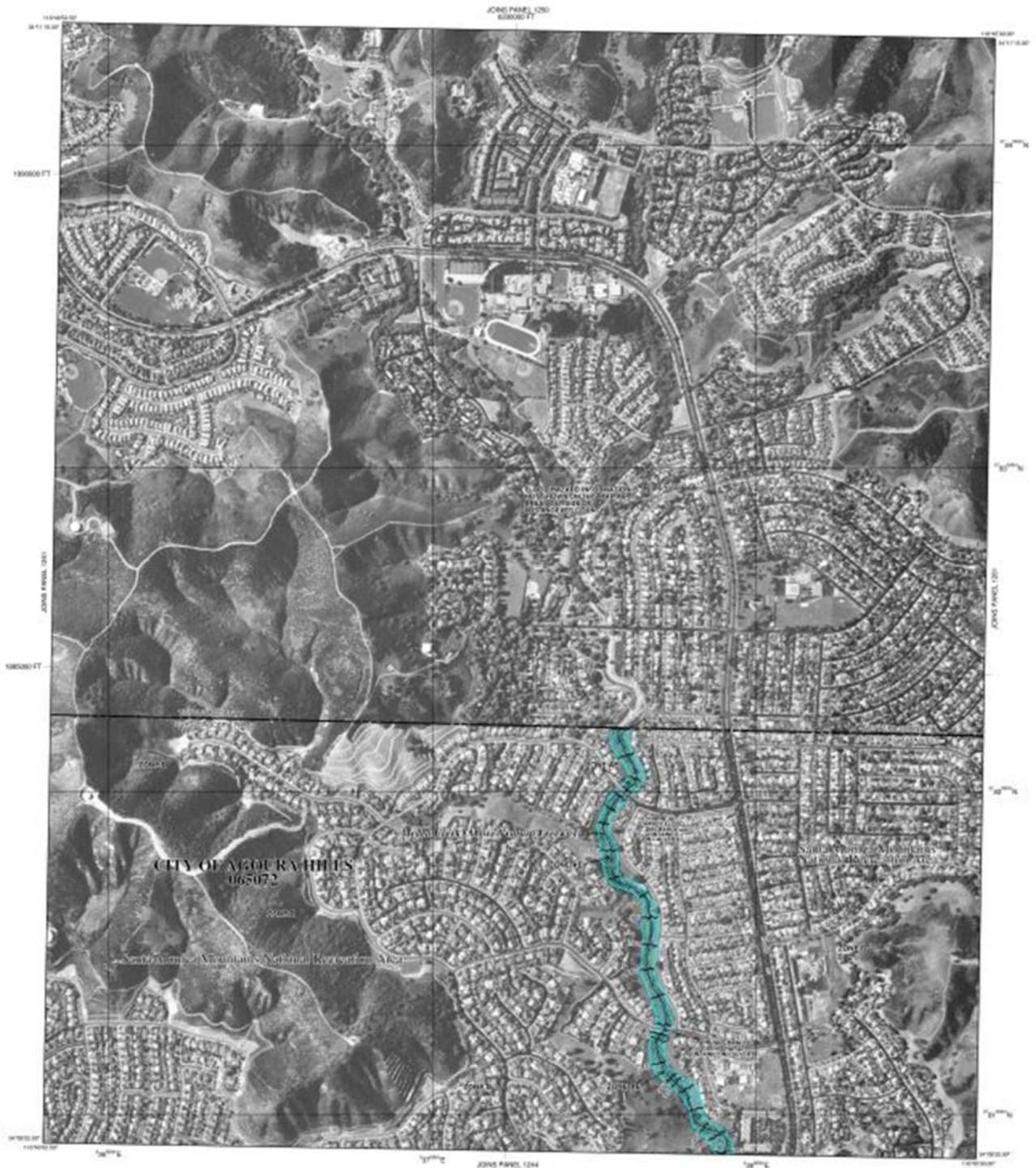
For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

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.

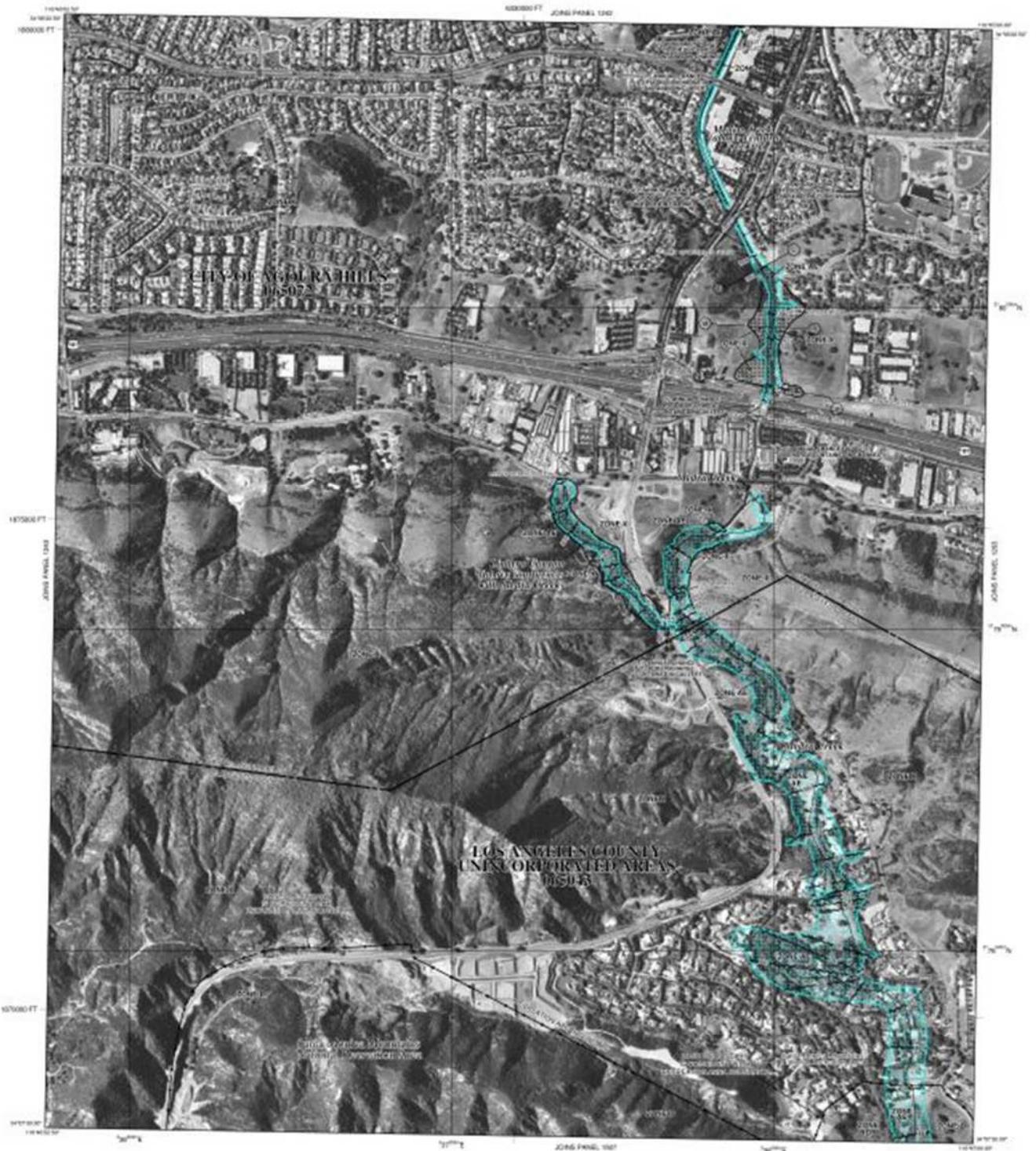




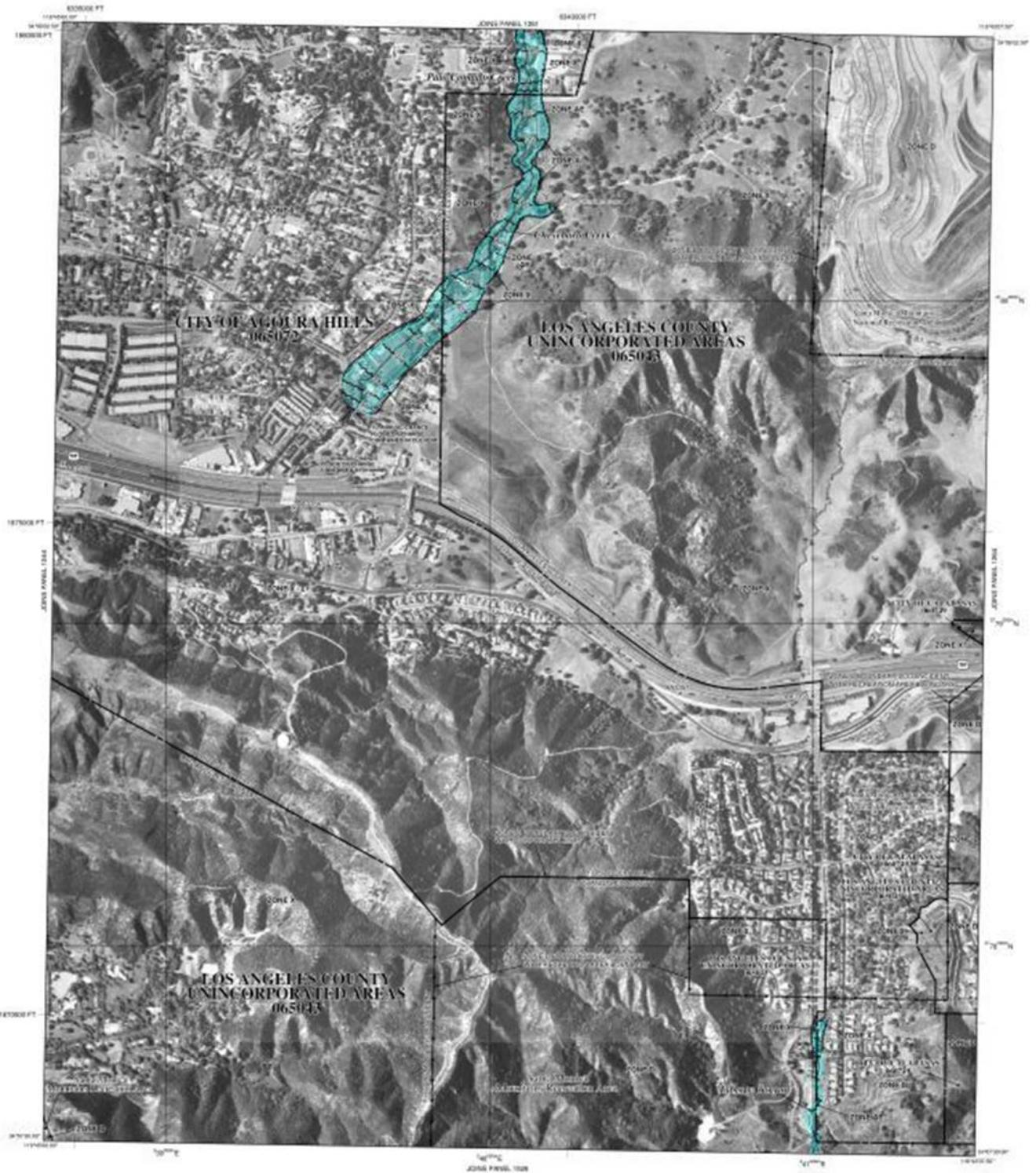
Map 52: Agoura Hills and Westlake Village FIRM Panel 1241



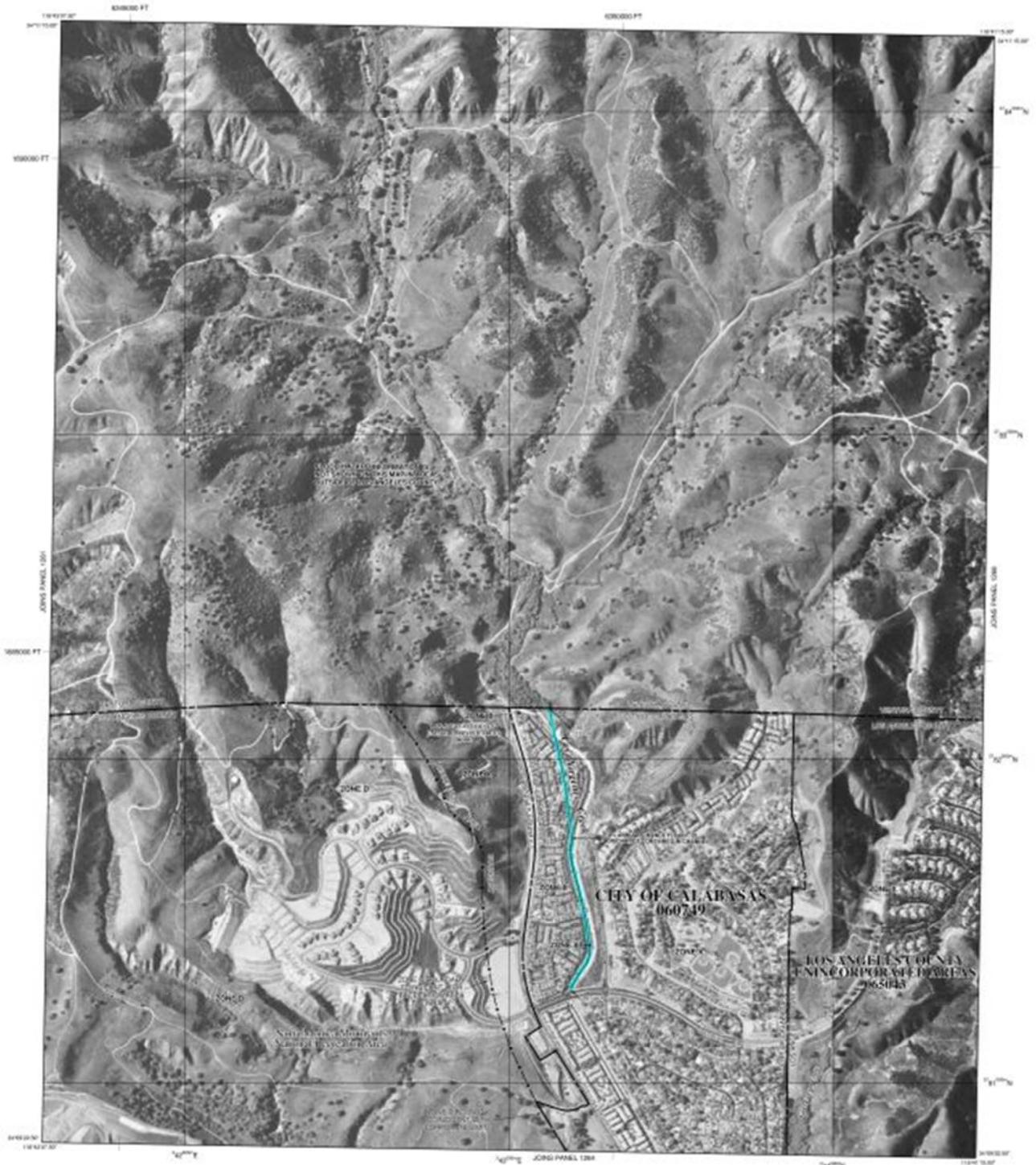
Map 53: Agoura Hills FIRM Panel 1242



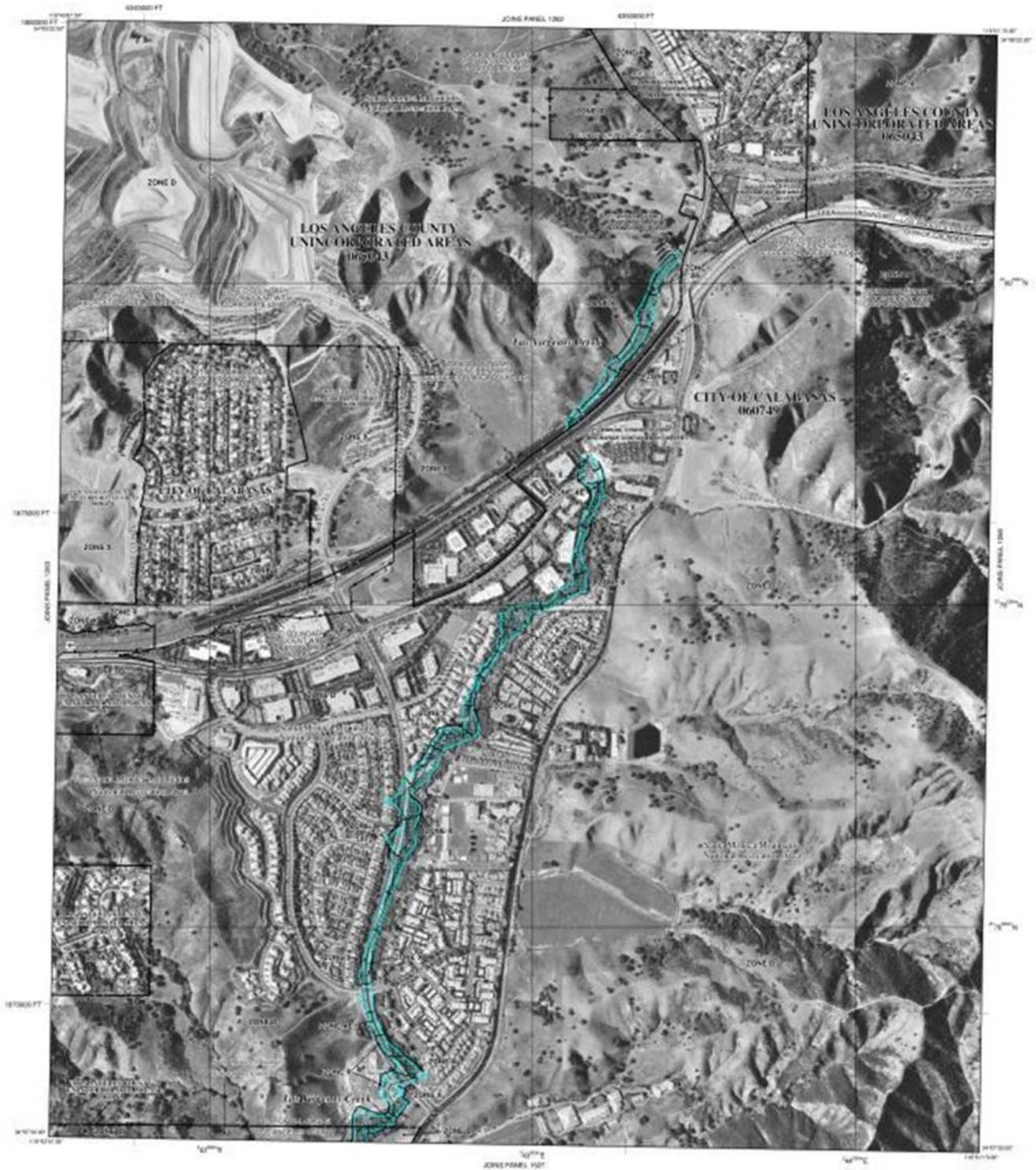
Map 54: Agoura Hills FIRM Panel 1244



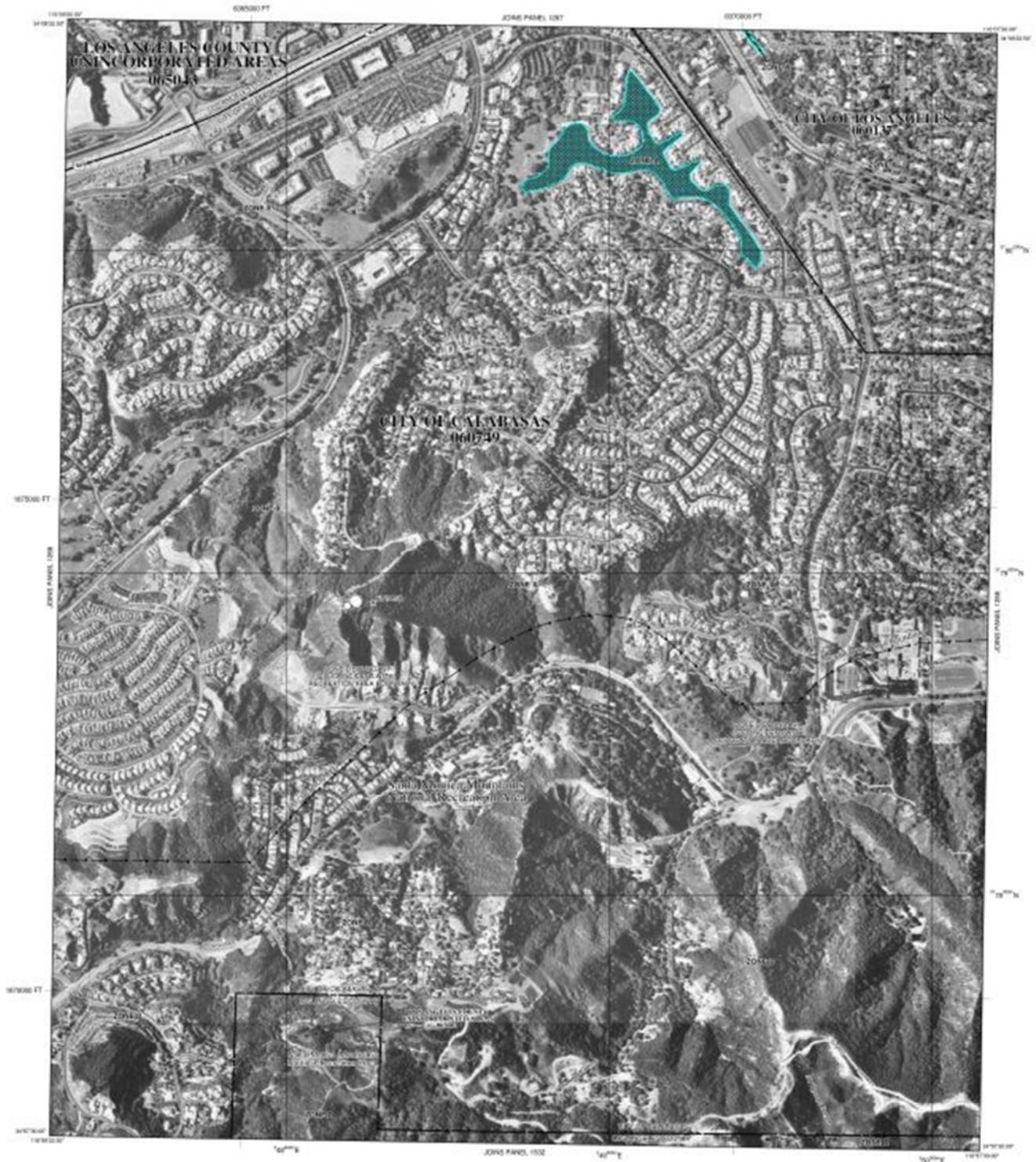
Map 55: Agoura Hills and Calabasas FIRM Panel 1263



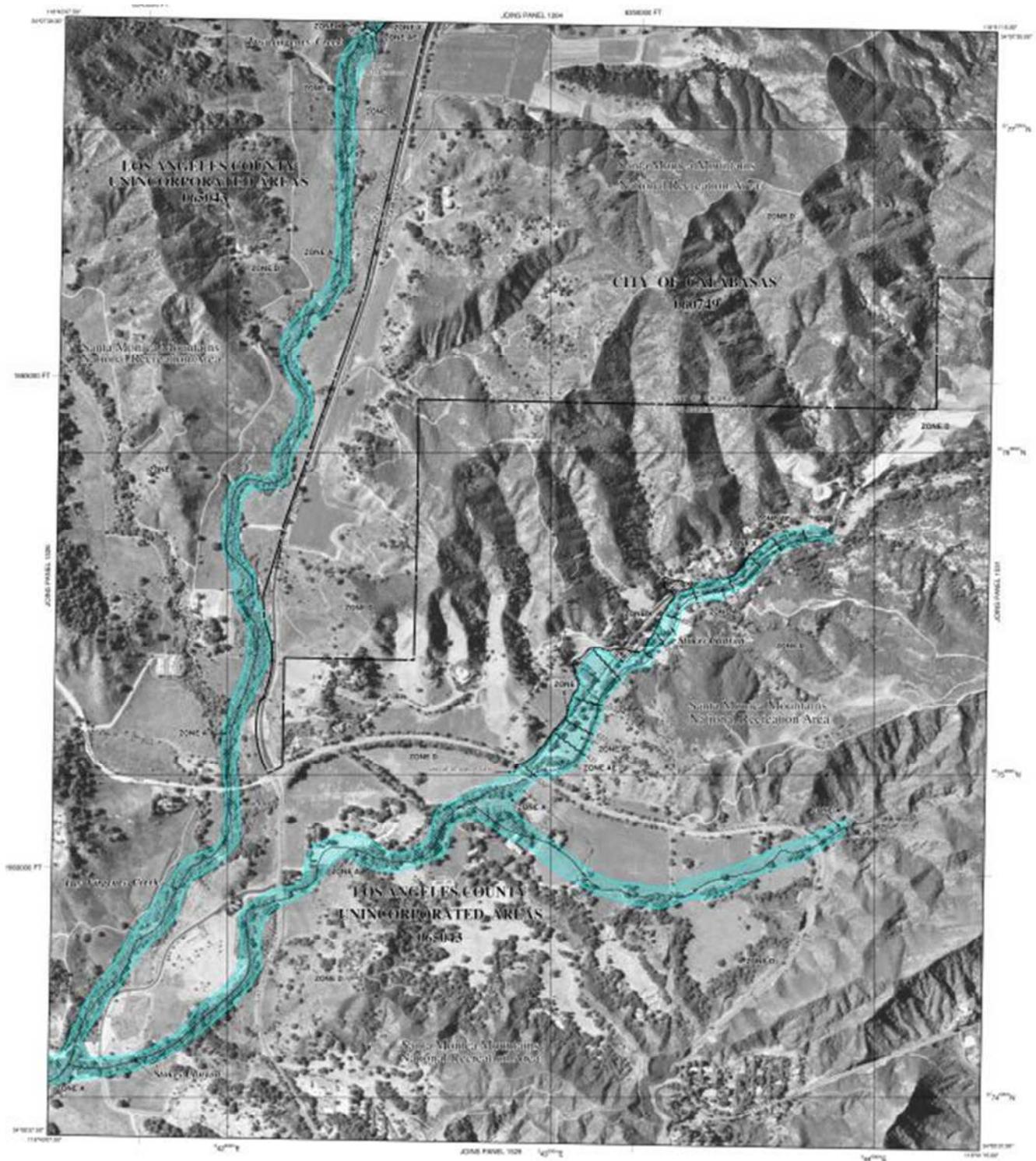
Map 56: Calabasas FIRM Panel 1262



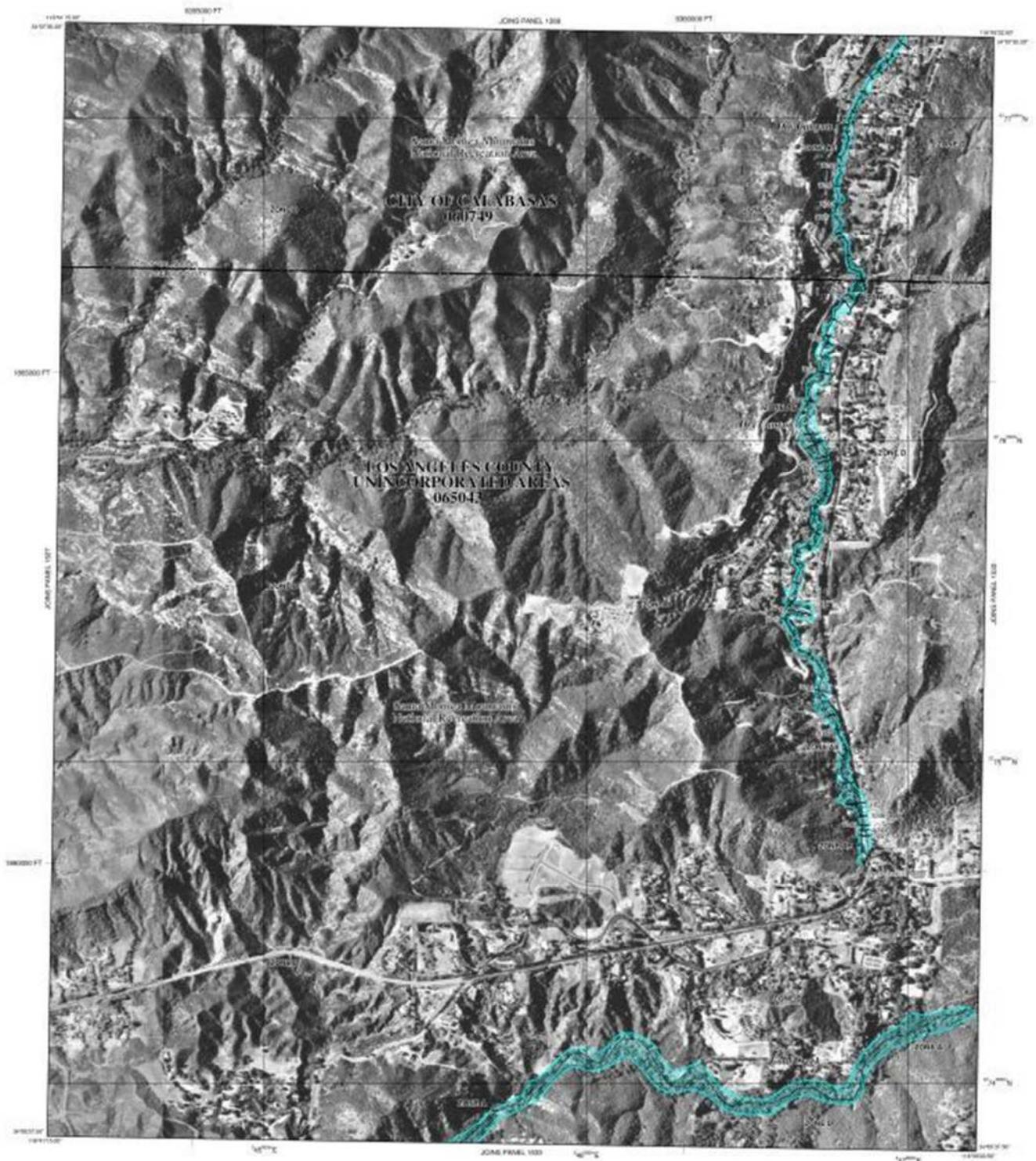
Map 57: Calabasas FIRM Panel 1264



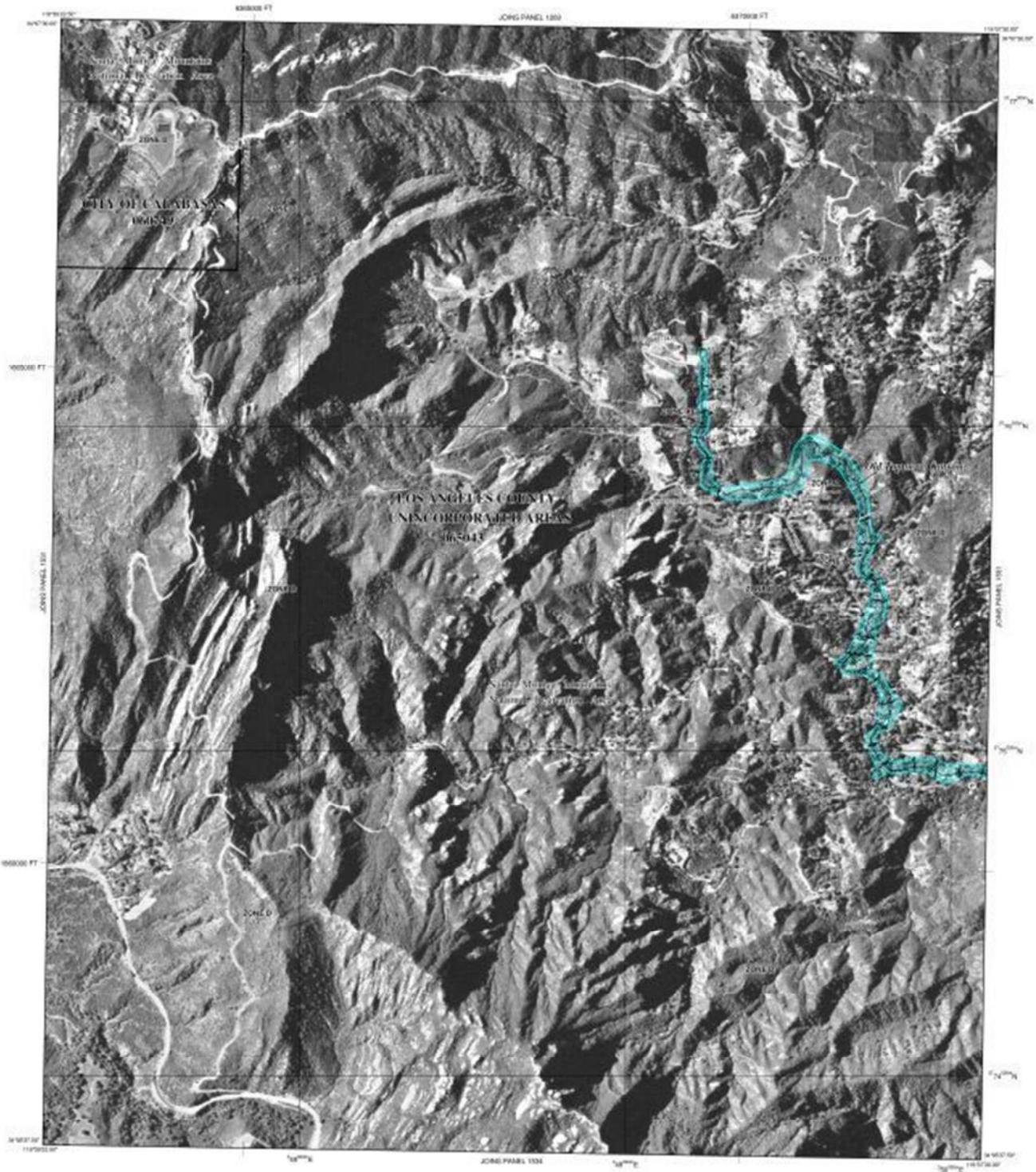
Map 58: Calabasas FIRM Panel 1269



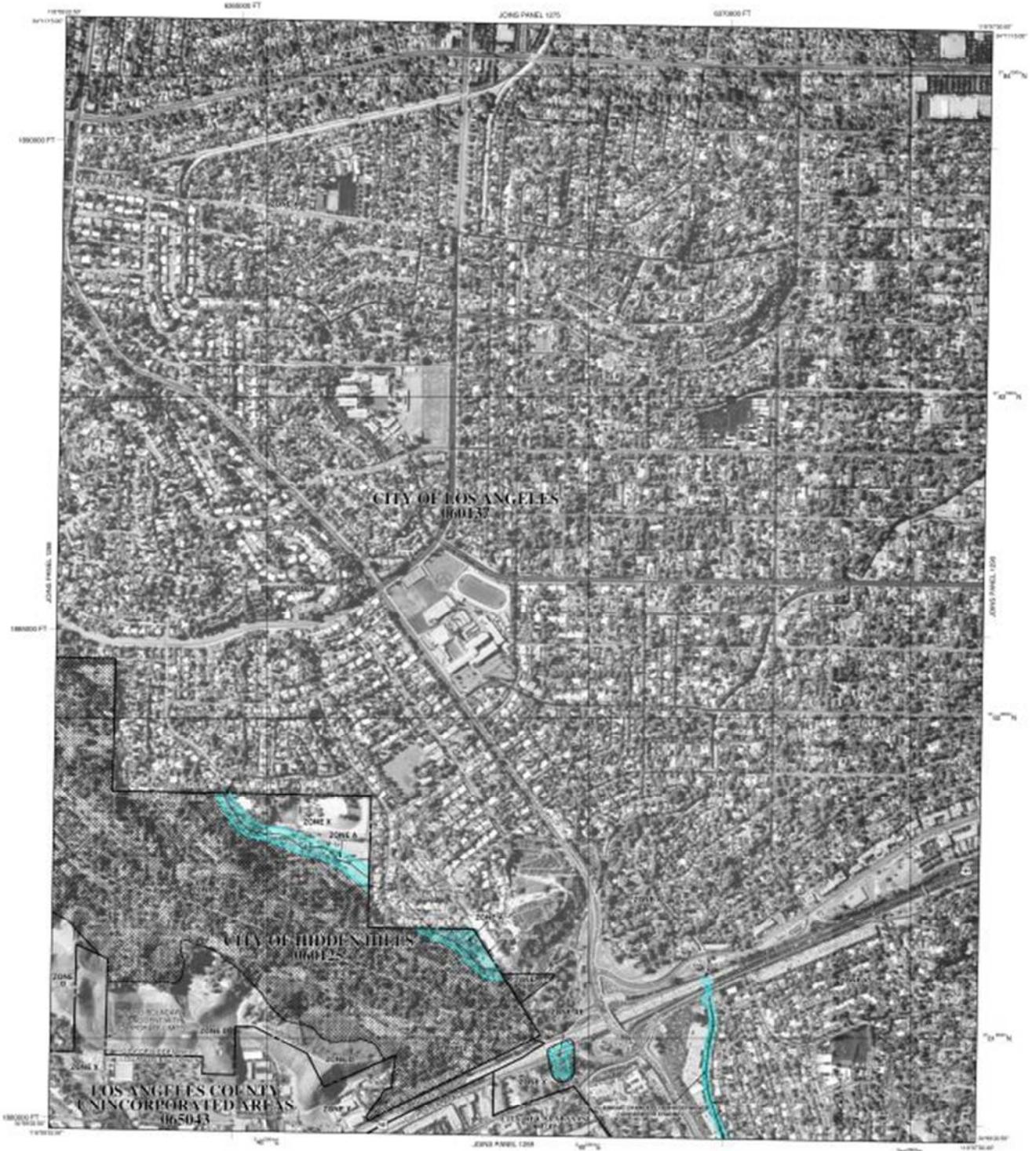
Map 59: Calabasas FIRM Panel 1527



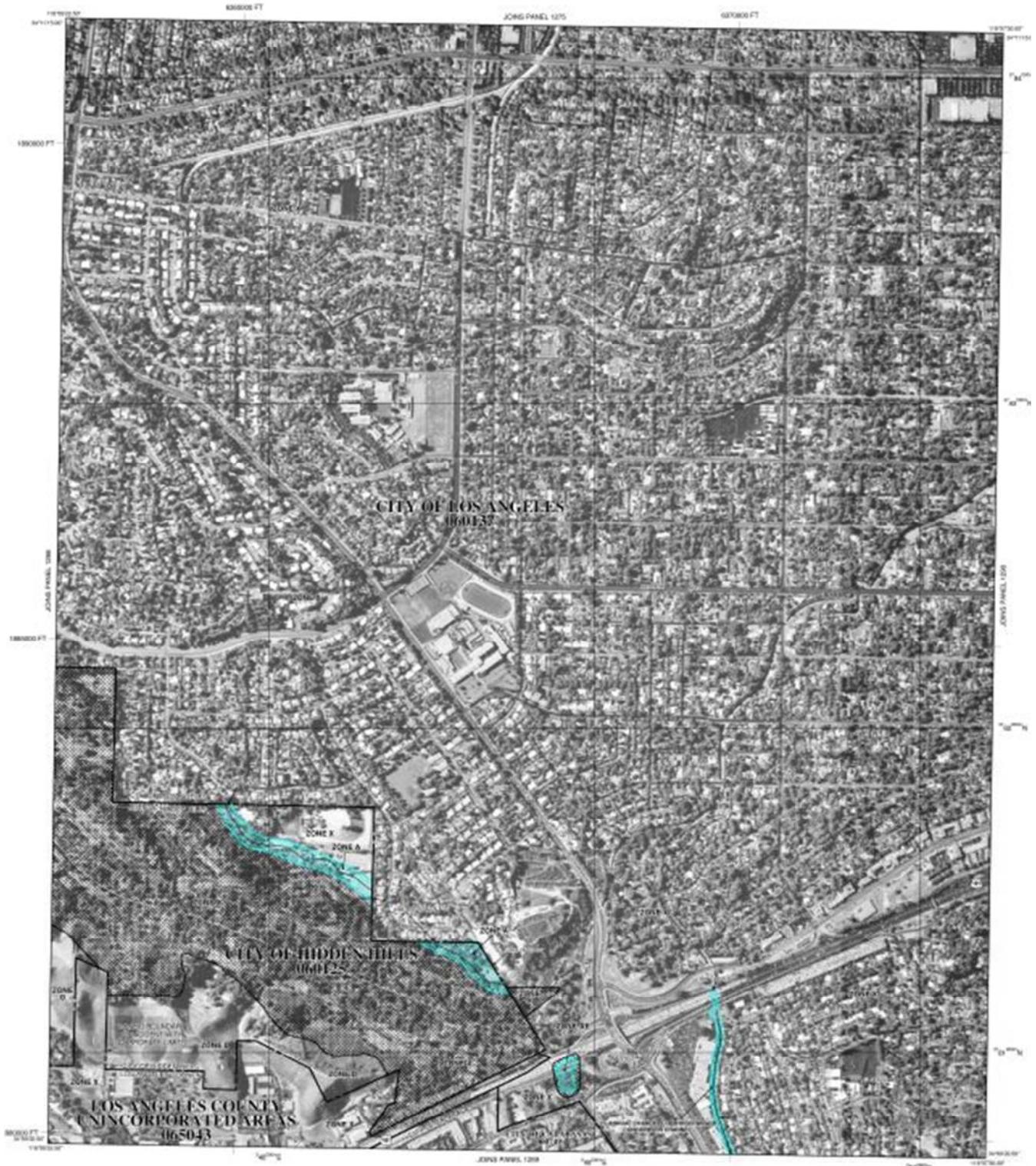
Map 60: Calabasas FIRM Panel 1531



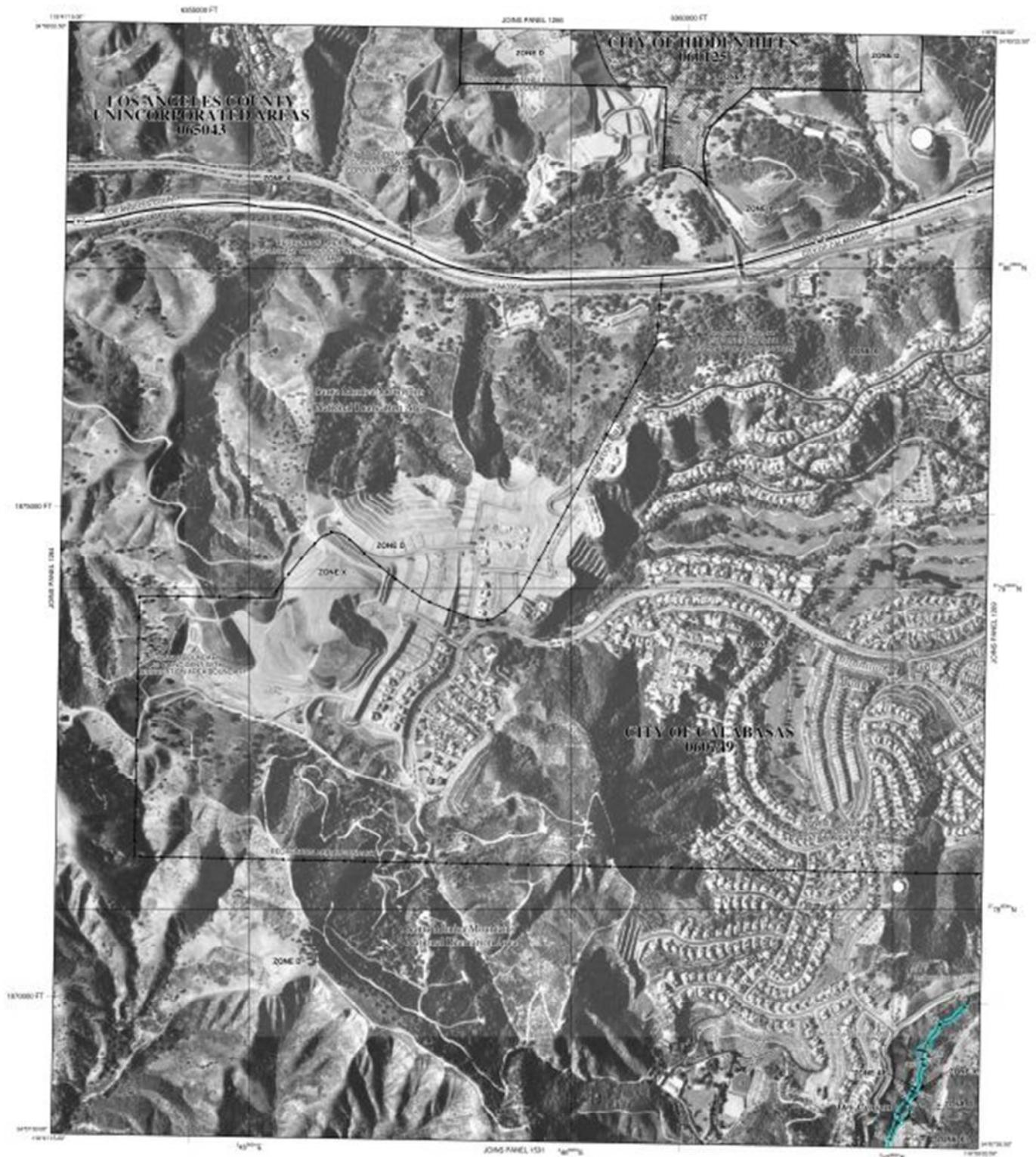
Map 61: Calabasas FIRM Panel 1532



Map 62: Calabasas FIRM Panel 1567



Map 63: Calabasas FIRM Panel 1267



Map 64: Calabasas FIRM Panel 1268