Appendix F: Capability Assessment

This appendix to the Monterey County Multi-jurisdictional Hazard Mitigation Plan includes the blank Local Capability Assessment Survey and NFIP Survey completed by local officials and representatives of the participating jurisdictions. The findings of these surveys are presented in Section 6: Capability Assessment. The completed surveys as provided by each jurisdiction are available from Monterey County OES upon request.
### Monterey County Multi-jurisdictional Hazard Mitigation Plan Update

**LOCAL CAPABILITY ASSESSMENT SURVEY**

**Jurisdiction:**

**Point of Contact:**

**Phone:**

**Email:**

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**1. PLANNING AND REGULATORY CAPABILITY** - Please indicate whether the following planning or regulatory tools (plans, ordinances, codes or programs) are currently in place or under development for your jurisdiction by placing an ‘X’ in the appropriate box. Then, for each particular item in place, identify the department or agency responsible for its implementation and indicate its estimated or anticipated effect on hazard loss reduction (Strongly Supports, Helps Facilitate or Hinders) with another ‘X’. Finally, please provide additional comments or explanations in the space provided or with attachments.

<table>
<thead>
<tr>
<th>Planning / Regulatory Tool</th>
<th>In Place</th>
<th>Under Development</th>
<th>Department / Agency Responsible</th>
<th>Effect on Loss Reduction</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Hazard Mitigation Plan</td>
<td>X</td>
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<td>Monterey County Office of</td>
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<td>Emergency Services</td>
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<td>Presently covered under countywide multi-jurisdictional plan. Plan is currently being updated and is anticipated to be completed and re-adopted in late 2014.</td>
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<tr>
<td>General Plan (or Comprehensive, Master or Growth Management Plan)</td>
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<td>Floodplain Management Plan</td>
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<td>Open Space Management Plan (or Parks &amp; Rec. / Greenways Plan)</td>
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<td>Stormwater Management Plan</td>
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<td>Coastal Management Plan</td>
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<td>Climate Adaptation Plan</td>
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<td>Emergency Operations Plan</td>
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<td>Continuity of Operations Plan</td>
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<td>Planning / Regulatory Tool</td>
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<td>Department / Agency Responsible</td>
<td>Effect on Loss Reduction</td>
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<td>Community Wildfire Protection Plan</td>
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<td>Evacuation Plan</td>
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<td>Disaster Recovery Plan</td>
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<td>Capital Improvements Plan</td>
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<td>Economic Development Plan</td>
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<td>Historic Preservation Plan</td>
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<td>Transportation Plan</td>
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<td>Floodplain Ordinance (or Flood Damage Prevention Ordinance)</td>
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<td>Zoning Ordinance</td>
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<td>Subdivision Ordinance</td>
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<td>Site Plan Review Requirements</td>
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<td>Unified Development Ordinance</td>
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<tr>
<td>Post-disaster Redevelopment / Reconstruction Ordinance</td>
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<td>Planning / Regulatory Tool</td>
<td>In Place</td>
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<td>Department / Agency Responsible</td>
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<td>Other hazard-specific ordinance</td>
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<td>(wildfire, steep slope, stormwater, etc.)</td>
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<tr>
<td>Building Code</td>
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<td>IS0 Building Code Effectiveness Grading Schedule (BCEGS) Grade:</td>
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<td>Fire Prevention Code and Fire Suppression Programs</td>
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<td>IS0 Public Protection Classification:</td>
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<tr>
<td>National Flood Insurance Program (NFIP)</td>
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<tr>
<td>NFIP Community Rating System (CRS Program)</td>
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<td>CRS Class:</td>
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</table>
2. ADMINISTRATIVE AND TECHNICAL CAPABILITY - Please indicate whether your jurisdiction maintains the following staff members within its current personnel resources by placing an "X" in the appropriate box. Then, if YES, please identify the department or agency they work under and provide any other comments you may have in the space provided or with attachments.

<table>
<thead>
<tr>
<th>Administration, Staff and Technical Resources</th>
<th>Yes</th>
<th>No</th>
<th>Department / Agency</th>
<th>Comments</th>
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<tbody>
<tr>
<td>Planner(s) or Engineer(s) with knowledge of land development and land management practices</td>
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<td>Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure</td>
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<tr>
<td>Planner(s) or engineer(s) with an understanding of natural and/or human-caused hazards</td>
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<td>Building inspector</td>
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<td>Emergency manager</td>
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<tr>
<td>Floodplain manager</td>
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<td>Land surveyors</td>
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<td>Resource development staff or grant writers</td>
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<td>Public information officer</td>
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<td>Scientist(s) familiar with the hazards of the community</td>
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<tr>
<td>Administration, Staff and Technical Resources</td>
<td>Yes</td>
<td>No</td>
<td>Department / Agency</td>
<td>Comments</td>
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<tr>
<td>Staff with education or expertise to assess the community’s vulnerability to hazards</td>
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<td>Personnel skilled in Geographic Information Systems (GIS) and/or FEMA’s Hazus-MH program</td>
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<td>Maintenance programs to reduce risk (e.g., tree trimming, drainage system clearing, etc.)</td>
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<tr>
<td>Warning systems/services (e.g., Reverse 911, outdoor warning signals, etc.)</td>
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<tr>
<td>Mutual Aid Agreements</td>
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</table>
## Fiscal Capability

Please indicate whether your jurisdiction has access to or is eligible to use the following local financial resources for hazard mitigation purposes (including as match funds for State or Federal mitigation grant funds). Then, identify the primary department or agency responsible for its administration or allocation and provide any other comments you may have in the space provided or with attachments.

<table>
<thead>
<tr>
<th>Financial Resources</th>
<th>Yes</th>
<th>No</th>
<th>Department / Agency</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>General funds</td>
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<td>Capital improvements project funding</td>
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<td>Special Purpose Taxes</td>
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<tr>
<td>Stormwater Utility Fees</td>
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<tr>
<td>Gas / Electric Utility Fees</td>
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<tr>
<td>Water / Sewer Fees</td>
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<tr>
<td>Development Impact Fees</td>
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<tr>
<td>General Obligation Bonds</td>
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<td>Special Tax and Revenue Bonds</td>
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<tr>
<td>Community Development Block Grants (CDBG)</td>
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<td>Other:</td>
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</tbody>
</table>
4. EDUCATION AND OUTREACH CAPABILITY - Please indicate whether your jurisdiction has education and outreach programs and methods already in place that could be used to implement mitigation activities and communicate hazard-related information.

<table>
<thead>
<tr>
<th>Education and Outreach Resources</th>
<th>Yes</th>
<th>No</th>
<th>Department / Agency</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local citizen groups or non-profit organizations focused on environmental protection, emergency preparedness, access and functional needs, populations, etc.</td>
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<tr>
<td>Ongoing public education or information program (e.g., responsible water use, fire safety, household preparedness, environmental education)</td>
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<tr>
<td>Natural disaster or safety related school programs</td>
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<tr>
<td>StormReady certification</td>
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<tr>
<td>Firewise Communities certification</td>
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<tr>
<td>Public-private partnership initiatives addressing disaster-related issues</td>
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<tr>
<td>Other: ________________</td>
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</table>
5. POLITICAL CAPABILITY - Political capability can be generally measured by the degree to which local political leadership is willing to enact policies and programs that reduce hazard vulnerabilities in your community, even if met with some opposition. Examples may include guiding development away from identified hazard areas, restricting public investments or capital improvements within hazard areas, or enforcing local development standards that go beyond minimum State or Federal requirements (e.g., building codes, floodplain management, etc.). Please identify some general examples of these efforts if available and/or reference where more documentation can be found.
**6. SELF-ASSESSMENT OF CAPABILITY** - Please provide an approximate measure of your jurisdiction's capability to effectively implement hazard mitigation strategies to reduce hazard vulnerabilities. Using the following table, please place an "X" in the box marking the most appropriate degree of capability (Limited, Moderate or High) based upon best available information and the responses provided in Sections 1-5 of this survey.

<table>
<thead>
<tr>
<th>Planning and Regulatory Capability</th>
<th>Degree of Capability</th>
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<tbody>
<tr>
<td></td>
<td>Limited</td>
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<tr>
<td></td>
<td>High</td>
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<tr>
<td>Administrative and Technical Capability</td>
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<tr>
<td>Fiscal Capability</td>
<td></td>
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<tr>
<td>Education and Outreach Capability</td>
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<tr>
<td>Political Capability</td>
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<tr>
<td><strong>OVERALL CAPABILITY</strong></td>
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</table>

**7. ADDITIONAL COMMENTS** - Please provide any additional comments or recommendations on how your jurisdiction's local capabilities can be expanded or improved to reduce risk to natural hazards.
First, please provide us with the following information.

<table>
<thead>
<tr>
<th>Name / Title:</th>
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<tbody>
<tr>
<td>Jurisdiction:</td>
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<tr>
<td>Department:</td>
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<tr>
<td>Phone / E-mail:</td>
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</table>

1. **Please identify your jurisdiction's designated "Floodplain Administrator."** Please provide name, title, department and contact information (if different from above).

2. **Please list the regulations that were adopted to meet federal NFIP requirements, including the date and section number.** These may include a flood damage prevention ordinance, building codes, subdivision regulations, etc.

3. **Describe any local "higher standards" that exceed NFIP minimum requirements.** These may include higher finished floor elevation requirements (“freeboard”), foundation protection, more stringent building improvement rules, protection of critical facilities, low density zoning for floodplain development, preservation of floodplain storage, higher mapping and regulatory standards, etc.
4. Describe any additional floodplain management provisions that are integrated into other plans or processes that the community uses to guide development. These may include those integrated with the general plan, small area plans, capital improvements plans, etc.

5. Describe any other floodplain management activities your jurisdiction performs that go beyond FEMA minimum requirements. This includes activities such as drainage system maintenance, flood warning systems, or any public education or outreach activities related to promoting flood risk awareness, risk reduction, and the availability of flood insurance.

6. What is the date of your jurisdiction's last NFIP Community Assistance Visit (CAV) of Community Assistance Contact (CAC)? Please also identify any compliance issues that were identified and how they were resolved, and if another CAV or CAC is scheduled or needed.
7. Please describe any existing impediments to running an effective NFIP program in the community, if any.

8. Please identify some specific actions that your jurisdiction can take related to continued compliance with the NFIP. This may include a description of key elements that already contribute to an effective program such as building permit procedures, site plan reviews, field inspections and permanent retention of records. This may also include new actions to improve existing programs, such as those listed on the following page (please check any that your jurisdiction may be interested in pursuing).
**Possible new actions related to NFIP Compliance:**

- Maintain digital FEMA elevation certificates for all construction in the floodplain.
- Evaluate and consider the adoption of “higher standards” that are proven to reduce flood damage such as those described under Question #3 (especially freeboard, setbacks, limitations on lower-level enclosure size, and the prohibition on use of fill).
- Evaluate current floodplain management activities and coordinate with Insurance Services Office, Inc. to apply for participation in FEMA’s Community Rating System (CRS).
- Evaluate permit application forms to determine possible modifications focused on flood hazard prevention.
- Develop a checklist for review of building/development permit plans and for inspection of development in floodplains (a model is available).
- Establish a goal to have each plan reviewer and building inspector attend a related training periodically (for example, ASFPM’s Annual National Conference, chapter conferences, webinars, etc).
- Sponsor a periodic NFIP workshop for local surveyors and builders.
- Encourage or require certain local staff positions to obtain and maintain Certified Floodplain Manager (CFM) certification.
- Maintain a map of areas that flood frequently (e.g., areas where repetitive loss properties are located) and prioritize those areas for inspection immediately after the next flood. If outside FEMA special flood hazard areas, consider requiring existing NFIP regulatory standards (compliance with existing ordinance) through overlay zoning, etc.
- Hold informative work sessions for newly elected officials and new appointees to planning commissions and appeals/variance boards, to provide an overview of floodplain management, the importance of participating in the NFIP, and the implications of failing to enforce the requirements of the program or failing to properly handle variance requests.
- Obtain FEMA’s Substantial Damage Estimator and attend training to be prepared to use it when damage occurs; develop mutual aid agreements with other jurisdictions to augment local inspection personnel after major disasters.
- Conduct a review of other regulatory programs and planning tools, such as the comprehensive plan and zoning ordinance, and report on opportunities to improve consistency with the objectives of floodplain management.
- Maintain supplies of FEMA/NFIP materials to help property owners evaluate measures to reduce potential hazard damage. Make available in public buildings, local library, website, etc. and inform people who they can call to learn more information.
- Send information about the flood hazard and promote the availability of flood insurance through regularly scheduled mailings (such as the dissemination of handouts with annual property tax notices, utility bills, etc.).
- Develop handouts for permit applications on specific issues such as installation of manufactured homes in flood hazard areas according to HUD’s installation standards (examples available), or guidance on improving/repairing existing buildings to better withstand potential hazards.


Appendix G: Safe Growth Survey

As part of the 2013-2014 plan update process, each jurisdiction was also asked to complete a Safe Growth Survey. This unique survey instrument was drawn from a technique recommended by David Godschalk, FAICP and professor emeritus of city and regional planning at the University of North Carolina at Chapel Hill, to help better evaluate the extent to which each local jurisdiction in Monterey County is positioned to grow safely relative to its natural hazards. The survey covered 6 distinct topic areas including the following:

- Land Use
- Transportation
- Environmental Management
- Public Safety, Zoning Ordinance
- Subdivision Regulations
- Capital Improvement Program and Infrastructure Policies

The Safe Growth Survey was completed by appropriate planning, zoning and/or community development staff for each of jurisdiction and the results are summarized in Table G.1. In completing the survey each respondent was asked to indicate how strongly they agree or disagree with 25 “Safe Growth Statements” as they relate to their own jurisdiction’s current plans, policies and programs for guiding future community growth and development, according to the following scale:

  1=Strongly Disagree  2=Somewhat Disagree  3=Neutral  4=Somewhat Agree  5=Strongly Agree

Numerical averages were calculated for each jurisdiction to help quantify much each respondent agreed with the indicative Safe Growth Statements. Jurisdiction total averages ranged from 2.8 to 4.5, with a total cumulative average of 3.5 for the entire planning area. These results suggest that the jurisdictions have integrated hazard mitigation principles into their local community planning and development framework to a certain degree, but there are opportunities for enhancement. Of the 6 specific topic areas Land Use, Public Safety, and Environmental Management received the highest average ratings (3.9 for each) while Capital Improvement Program and Infrastructure received the lowest average rating (3.0).

<table>
<thead>
<tr>
<th>Safe Growth Statement</th>
<th>Carmel-by-the-Sea</th>
<th>Del Rey Oaks</th>
<th>Gonzales</th>
<th>Greenfield</th>
<th>King City</th>
<th>Marina</th>
<th>Monterey</th>
<th>Pacific Grove</th>
<th>Salinas</th>
<th>Sand City</th>
<th>Seaside</th>
<th>Soledad</th>
<th>Monterey County</th>
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</thead>
<tbody>
<tr>
<td>LAND USE</td>
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<tr>
<td>The general plan includes a future land use map that clearly identifies natural hazard areas.</td>
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<td>Current land use policies discourage development and/or redevelopment within natural hazard areas.</td>
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<tr>
<td>The general plan provides adequate space for expected future growth in areas located outside of natural hazard areas.</td>
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<td>TRANSPORTATION</td>
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<td>The transportation element limits access to natural hazard areas.</td>
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<tr>
<td>Transportation policy</td>
<td>Transportation policy is used to guide future growth and development to safe locations.</td>
<td>3 4 5 3 3 3 4 3 3 4 4 3</td>
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<tr>
<td>Transportation systems</td>
<td>Transportation systems are designed to function under disaster conditions (e.g., evacuation, mobility for fire/rescue apparatus, etc.).</td>
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<tr>
<td>ENVIRONMENTAL MANAGEMENT</td>
<td>Environmental features that serve to protect development from hazards (e.g., wetlands, riparian buffers, etc.) are identified and mapped.</td>
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<td></td>
<td>Environmental policies encourage the preservation and restoration of protective ecosystems.</td>
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<td></td>
<td>Environmental policies provide incentives to development that is located outside of protective ecosystems.</td>
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<tr>
<td>PUBLIC SAFETY</td>
<td>The goals and policies of the general plan are related to and consistent with those in the Multi-jurisdictional Hazard Mitigation Plan.</td>
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<td></td>
<td>Public safety is explicitly included in the plan’s growth and development policies.</td>
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<td></td>
<td>The monitoring and implementation section of the plan covers safe growth objectives.</td>
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<tr>
<td>ZONING ORDINANCE</td>
<td>The zoning ordinance conforms to the general plan in terms of discouraging development and/or redevelopment within natural hazard areas.</td>
<td>5 4 5 3 2 4 5 3 5 3 4 4 5</td>
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<td></td>
<td>The ordinance contains natural hazard overlay zones that set conditions for land use within such zones.</td>
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<td></td>
<td>Rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use.</td>
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<tr>
<td></td>
<td>The ordinance prohibits development within, or filling of, wetlands, floodways, and floodplains.</td>
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</tr>
<tr>
<td>SUBDIVISION REGULATIONS</td>
<td>The subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas.</td>
<td>3 2 5 3 4 3 4 3 2 4 4 4 4</td>
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<tr>
<td></td>
<td>The regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources.</td>
<td>3 3.5 5 3 4 3 4 2 4 1 2 3 5</td>
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<td></td>
<td>The regulations allow density transfers where hazard areas exist.</td>
<td>1 3 5 3 3 2 1 2 3 1 3 2 5</td>
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</tr>
<tr>
<td>CAPITAL IMPROVEMENT PROGRAM AND INFRASTRUCTURE POLICIES</td>
<td>The capital improvement program limits expenditures on projects that would encourage development and/or redevelopment in areas vulnerable to natural hazards.</td>
<td>3 3 5 3 3 3 3 3 3 3 4 1</td>
<td></td>
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<tr>
<td>Infrastructure policies limit the extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards.</td>
<td>4</td>
<td>4</td>
<td>5</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
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</tr>
<tr>
<td>The capital improvements program provides funding for hazard mitigation projects identified in the Multi-jurisdictional Hazard Mitigation Plan.</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>

**OTHER**

<table>
<thead>
<tr>
<th>Small area or corridor plans recognize the need to avoid or mitigate natural hazards.</th>
<th>4</th>
<th>3</th>
<th>5</th>
<th>3</th>
<th>3</th>
<th>3</th>
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<th>2</th>
<th>5</th>
<th>3</th>
<th>4</th>
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<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>The building code contains provisions to strengthen or elevate new or substantially improved construction to withstand hazard forces.</td>
<td>3</td>
<td>3.5</td>
<td>5</td>
<td>4</td>
<td>5</td>
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<td>5</td>
<td>5</td>
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</tr>
<tr>
<td>Economic development and/or redevelopment strategies include provisions for mitigating natural hazards or otherwise enhancing social and economic resiliency to hazards.</td>
<td>4</td>
<td>3</td>
<td>5</td>
<td>4</td>
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<td>3</td>
<td>5</td>
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<td>4</td>
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</tbody>
</table>

| **AVERAGE SURVEY RATINGS** | **3.9** | **3.2** | **4.5** | **3.3** | **3.3** | **3.2** | **4.0** | **2.8** | **3.7** | **3.2** | **3.8** | **3.4** | **3.6** |

While somewhat of a subjective exercise, the Safe Growth Survey was used to provide some quantitative measures of how adequately existing planning mechanisms and tools for each jurisdiction were being used to address the notion of safe growth as currently advocated by organizations such as FEMA and the American Planning Association (APA). In addition, the survey instrument was aimed at further integrating the subject of hazard risk management into the dialogue of local planners throughout Monterey County and to possibly consider and identify new mitigation actions as it relates to those local planning policies or programs already in place. It is anticipated that the survey will be used again during future plan updates to help measure progress over time and to continue identifying possible mitigation actions as it relates to future growth and community development practices, and how such actions may better be incorporated into local planning mechanisms.
Monterey County Multi-jurisdictional Hazard Mitigation Plan Update

SAFE GROWTH SURVEY

This survey instrument is designed to capture some general information for purposes of updating the Monterey County Multi-jurisdictional Hazard Mitigation Plan. It has been adapted from a technique recommended by the American Planning Association and Federal Emergency Management Agency to help evaluate the extent to which each local jurisdiction in Monterey County is positioned to grow safely relative to its natural hazards. These hazards include but are not limited to agricultural emergency (drought, freeze, pests, disease, contamination, etc.), coastal erosion, dam failure, earthquake, flood, hazardous material event, landslide/debris flow, sea level rise, tsunami, wildland fire, and windstorm.

This survey should be completed by appropriate planning, zoning and/or community development staff for each jurisdiction participating in the hazard mitigation plan update process. If you have any questions regarding this survey or the plan update process, please contact your Local Jurisdiction Lead who is currently serving on the County’s multi-jurisdictional Planning Team. You may also contact Monterey County’s planning consultant, Darrin Punchard, at (919) 247-5784 or by e-mail at darrin.punchard@aecom.com.

Please provide us with the following contact information.

<table>
<thead>
<tr>
<th>Name / Title:</th>
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<table>
<thead>
<tr>
<th>Jurisdiction:</th>
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<thead>
<tr>
<th>Department:</th>
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<tr>
<th>Phone / E-mail:</th>
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</table>

Please indicate how strongly you agree or disagree with the following statements as they relate to your jurisdiction’s current plans, policies and programs for guiding future community growth and development.

1 = Strongly Disagree  2 = Somewhat Disagree  3 = Neutral  4 = Somewhat Agree  5 = Strongly Agree

<table>
<thead>
<tr>
<th>GENERAL PLAN</th>
<th>Land Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The general plan includes a future land use map that clearly identifies natural hazard areas.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>2. Current land use policies discourage development and/or redevelopment within natural hazard areas.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>3. The general plan provides adequate space for expected future growth in areas located outside of natural hazard areas.</td>
<td>1 2 3 4 5</td>
</tr>
<tr>
<td>Transportation</td>
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<tr>
<td>4. The transportation element limits access to natural hazard areas.</td>
<td>1 2 3 4 5</td>
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<tr>
<td>5.</td>
<td>Transportation policy is used to guide future growth and development to safe locations.</td>
</tr>
<tr>
<td>6.</td>
<td>Transportation systems are designed to function under disaster conditions (e.g., evacuation, mobility for fire/rescue apparatus, etc.).</td>
</tr>
<tr>
<td><strong>Environmental Management</strong></td>
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<tr>
<td>7.</td>
<td>Environmental features that serve to protect development from hazards (e.g., wetlands, riparian buffers, etc.) are identified and mapped.</td>
</tr>
<tr>
<td>8.</td>
<td>Environmental policies encourage the preservation and restoration of protective ecosystems.</td>
</tr>
<tr>
<td>9.</td>
<td>Environmental policies provide incentives to development that is located outside of protective ecosystems.</td>
</tr>
<tr>
<td><strong>Public Safety</strong></td>
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</tr>
<tr>
<td>10.</td>
<td>The goals and policies of the general plan are related to and consistent with those in the Multi-jurisdictional Hazard Mitigation Plan.</td>
</tr>
<tr>
<td>11.</td>
<td>Public safety is explicitly included in the plan’s growth and development policies.</td>
</tr>
<tr>
<td>12.</td>
<td>The monitoring and implementation section of the plan covers safe growth objectives.</td>
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<tr>
<td><strong>ZONING ORDINANCE</strong></td>
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<tr>
<td>13.</td>
<td>The zoning ordinance conforms to the general plan in terms of discouraging development and/or redevelopment within natural hazard areas.</td>
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<tr>
<td>14.</td>
<td>The ordinance contains natural hazard overlay zones that set conditions for land use within such zones.</td>
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<tr>
<td>15.</td>
<td>Rezoning procedures recognize natural hazard areas as limits on zoning changes that allow greater intensity or density of use.</td>
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<tr>
<td>16.</td>
<td>The ordinance prohibits development within, or filling of, wetlands, floodways, and floodplains.</td>
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</table>
### SUBDIVISION REGULATIONS

17. The subdivision regulations restrict the subdivision of land within or adjacent to natural hazard areas.

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18. The regulations provide for conservation subdivisions or cluster subdivisions in order to conserve environmental resources.

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19. The regulations allow density transfers where hazard areas exist.

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### CAPITAL IMPROVEMENT PROGRAM AND INFRASTRUCTURE POLICIES

20. The capital improvement program limits expenditures on projects that would encourage development and/or redevelopment in areas vulnerable to natural hazards.

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21. Infrastructure policies limit the extension of existing facilities and services that would encourage development in areas vulnerable to natural hazards.

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22. The capital improvements program provides funding for hazard mitigation projects identified in the Multi-jurisdictional Hazard Mitigation Plan.

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### OTHER

23. Small area or corridor plans recognize the need to avoid or mitigate natural hazards.

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24. The building code contains provisions to strengthen or elevate new or substantially improved construction to withstand hazard forces.

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25. Economic development and/or redevelopment strategies include provisions for mitigating natural hazards or otherwise enhancing social and economic resiliency to hazards.

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</tr>
</tbody>
</table>

Thank you for your assistance in completing this survey. Please submit a completed, scanned copy to Darrin Punchard at darrin.punchard@aecom.com, or by fax to 617-723-6856.
Appendix H
County of Monterey
### Table H-1
County of Monterey Estimated Population and Building Inventory

<table>
<thead>
<tr>
<th>Population</th>
<th>Residential Buildings</th>
<th>Nonresidential Buildings</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000 Census Population Count*</td>
<td>Total Building Count</td>
<td>Total Value of Buildings ** (x$1000)</td>
</tr>
<tr>
<td>99,635</td>
<td>26,447</td>
<td>7,592,953</td>
</tr>
</tbody>
</table>

Source: Monterey County (residential and nonresidential buildings) and U.S. Census 2000 population data.
* Population count using census blocks within the county limits.
** Tax Assessor records.
*** Tax Assessor records.

### Table H-2
County of Monterey Critical Facilities and Infrastructure

<table>
<thead>
<tr>
<th>Category</th>
<th>Facility</th>
<th>Address</th>
<th>Estimated Insured Structural Value (x$1000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Government</td>
<td>Government Center</td>
<td>168 West Alisal St., Salinas CA 93901</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Courthouse</td>
<td>240 Church St., Salinas, CA 93901</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Health Department</td>
<td>1270 Natividad Rd., Salinas, CA 93906</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Information Technology Department</td>
<td>1590 Moffett St., Salinas, CA 93905</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Office of Education</td>
<td>901 Blanco Circle, Salinas, CA 93901</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Water Resources Agency</td>
<td>893 Blanco Circle, Salinas, CA 93901</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Department of Social and Employment Services</td>
<td>730 La Guardia St., Salinas, CA 93905</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>East Laurel Facilities</td>
<td>855 East Laurel Ave., Salinas, CA 93906</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Health Department - Animal Services Division</td>
<td>160 Hitchcock Rd., Salinas, CA 93908</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Agricultural Commission</td>
<td>1428 Abbot St., Salinas, CA 93901</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Emergency Services Center / 911</td>
<td>1322 Natividad Rd., Salinas, CA 93906</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Harbormaster’s Office</td>
<td>Del Monte Ave. and Figueroa Ave., Monterey, CA 93940</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Moss Landing Harbor District Office</td>
<td>7881 Sandholdt Rd., Moss Landing, CA 95039</td>
<td>1,180</td>
</tr>
<tr>
<td></td>
<td>Monterey County Sheriff’s Office / Jail</td>
<td>1414 Natividad Rd., Salinas, CA 93906</td>
<td>1,652</td>
</tr>
</tbody>
</table>
## Table H-2
### County of Monterey Critical Facilities and Infrastructure

<table>
<thead>
<tr>
<th>Category</th>
<th>Facility</th>
<th>Address</th>
<th>Estimated Insured Structural Value (x$1000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Response</td>
<td>Courthouse / Sheriff’s Office Substation</td>
<td>1200 Aguajito Rd., Monterey, CA 93940</td>
<td>1,652</td>
</tr>
<tr>
<td></td>
<td>Sheriff’s Office Substation</td>
<td>250 Franciscan Way, King. CA 93930</td>
<td>802</td>
</tr>
<tr>
<td></td>
<td>Aromas Fire District</td>
<td>492 Carpenteria Rd., Aromas CA 95004</td>
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<td>Camp Roberts Emergency Service</td>
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<td>Spreckles Vol. Fire Company</td>
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## Table H-2
County of Monterey Critical Facilities and Infrastructure

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<tr>
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<th>Estimated Insured Structural Value (x$1000)</th>
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<td>Town &amp; Country Residential Care for Seniors</td>
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<td>Carmel Villa</td>
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<td>Casa Lasconia</td>
<td>9825 Rolling Meadows Lane</td>
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<td></td>
<td>Scenic Views</td>
<td>25770 Partridge Place</td>
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### Table H-2
**County of Monterey Critical Facilities and Infrastructure**

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<th>Estimated Insured Structural Value (x$1000)</th>
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<td>Shepards Inn</td>
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<td>St. Remy Residential Care</td>
<td>9 Los Robles</td>
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<td></td>
<td>Touch of Grace</td>
<td>706 Elm St.</td>
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<td>25017 Valley Place</td>
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<td>Tularcitos Elementary School</td>
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<td>Chualar Union School</td>
<td>24285 Lincoln St., Chualar, CA 93925</td>
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<td>Pacific Unified School</td>
<td>69325 Highway 1, Pacific Valley #1, Big Sur, CA 93920</td>
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<td>San Antonio Union Elementary School</td>
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<td></td>
<td>San Lucas Union Elementary School</td>
<td>53675 San Benito St., San Lucas, CA 93954</td>
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<td>North Monterey County High School</td>
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<td>Carmel High School</td>
<td>3600 Ocean Ave., Carmel, CA 93923</td>
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### Table H-2
County of Monterey Critical Facilities and Infrastructure

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<tr>
<th>Category</th>
<th>Facility</th>
<th>Address</th>
<th>Estimated Insured Structural Value (x$1000)</th>
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<tbody>
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<td>Central Bay Continuation High School</td>
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<td>Monterey County Special Education</td>
<td>132 W. Market St., Salinas, CA 93912</td>
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<td>Boronda Independent Study</td>
<td>1114 Fontes Ln., Salinas, CA 933907</td>
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<td>Toro Park Elementary School</td>
<td>22500 Portola Dr., Salinas, CA 93908</td>
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<td>Washington Union Elementary School</td>
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<td>La Joya Elementary School</td>
<td>55 Rogge Rd., Salinas, CA 93906</td>
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<td>Gavilan View Middle School</td>
<td>18250 Van Buren Ave., Salinas, CA 93906</td>
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<td>Buena Vista Middle School</td>
<td>18250 Tara Dr., Salinas, CA 93908</td>
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<td>San Benancio Middle School</td>
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<td>Lagunita Elementary School</td>
<td>975 San Juan Grade Rd., Salinas, CA 93907</td>
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<td>Mission Union Elementary School</td>
<td>36825 Foothill Rd., Soledad, CA 93907</td>
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<td>Joseph Gambetta Middle School / North Monterey County Middle School</td>
<td>10301 Seymour St., Castroville, CA 95012</td>
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<td>All Saints Episcopal Day School</td>
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<td>Apple Pie Pre-School</td>
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<td>Bay School/Co-Op pre-School</td>
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<td>Cachagua Center</td>
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<td>Carmel Adult School at Logan Hall</td>
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### Table H-2

**County of Monterey Critical Facilities and Infrastructure**

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<th>Category</th>
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<td>Carmel Child Development Center</td>
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<td>Faith Christian School</td>
<td>119 Springfield Rd. Moss Landing, CA 93907</td>
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<td>Graves Elementary School</td>
<td>15 McFadden Road La Mesa</td>
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<td>Montessori Learning Center Primary School</td>
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<td>Pacific Coast Christian Academy</td>
<td>381 San Juan Grade Rd. Salinas, CA 93906</td>
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<td>Prunedale Christian Academy &amp; Preschool</td>
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<td>River (Rec) School Age Child Care</td>
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<td>Stevenson School – Carmel Campus</td>
<td>24800 Dolores St. Carmel By The Sea, CA 93921</td>
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<td>The York School</td>
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<td>Tularcitos Co-Op Pre-School</td>
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<td>Marine, Environmental, and Community</td>
<td>Monterey Bay Aquarium Research Institute (MBARI)</td>
<td>7700 Sandholdt Rd., Moss Landing, CA 95039</td>
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<td></td>
<td>Moss Landing Marine Lab of California State University</td>
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<td></td>
<td>Marine Pollution Studies Lab, California Department of Fish &amp; Game</td>
<td>7544 Sandholdt Rd., Moss Landing, CA 95039</td>
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<td>Porter – Vallejo Mansion</td>
<td>29 Bishop St., Pajaro, CA 95076</td>
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## County of Monterey Critical Facilities and Infrastructure

<table>
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<th>Category</th>
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<td>Mazda Raceway Laguna Seca</td>
<td>1021 Monterey - Salinas Highway, Monterey, CA 93940</td>
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<td>Pajaro / Sunny Mesa Community Services District Office</td>
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<td>American Red Cross Monterey - San Benito Chapter Office</td>
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<td>American Red Cross - Carmel Area Chapter Office</td>
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Source: FEMA HAZUS-MH (estimated values) and Monterey County data
## Table H-3
### County of Monterey Potential Hazard Vulnerability Analysis - Population and Buildings

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<th>Hazard Type</th>
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<td>Wildland Fire</td>
<td>Very high</td>
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<td>2.03</td>
<td>689</td>
<td>330,586</td>
<td>162</td>
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<td>High</td>
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<td>1.00</td>
<td>3,390</td>
<td>108,979</td>
<td>1,110</td>
<td>251,068</td>
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<tr>
<td></td>
<td>Moderate</td>
<td>64,029</td>
<td>2.51</td>
<td>20,897</td>
<td>5,720,132</td>
<td>3,960</td>
<td>1,348,002</td>
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<td>Windstorm</td>
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<td>11,824</td>
<td>N/A</td>
<td>3,428</td>
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<td>140</td>
<td>326,557</td>
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</tbody>
</table>

1. Value = Building value based on Tax Assessor records (x $1,000)
## Table H-4

### County of Monterey Potential Hazard Vulnerability Analysis - Critical Facilities

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Methodology</th>
<th>Government</th>
<th>Government Value ($)</th>
<th>Emergency Response</th>
<th>Emergency Response Value ($)</th>
<th>Lifeline Utilities</th>
<th>Lifeline Utilities Value ($)</th>
<th>Care</th>
<th>Care Value ($)</th>
<th>Educational</th>
<th>Educational Value ($)</th>
<th>Marine, Environmental, and Community</th>
<th>Marine, Environmental, and Community Value ($)</th>
<th>Total</th>
<th>Total Value ($)</th>
</tr>
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<tbody>
<tr>
<td>Agricultural Emergency</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>Coastal Erosion</td>
<td>100-year erosion zone</td>
<td>1</td>
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<td>9,440</td>
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<td>0</td>
<td>2</td>
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<td>4</td>
<td>3,540</td>
<td>4</td>
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<td>31,569</td>
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<td>4</td>
<td>3,208</td>
<td>21</td>
<td>12,390</td>
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<td>237,167</td>
<td>47</td>
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<td>1,180</td>
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<td>0</td>
<td>1</td>
<td>802</td>
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<td>13,366</td>
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<td>21,130</td>
<td>13</td>
<td>21,130</td>
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<td>Flood</td>
<td>100-year flood zone</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<td>5</td>
<td>237,167</td>
<td>7</td>
<td>238,347</td>
<td>33</td>
<td>389,103</td>
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<tr>
<td>Hazardous Materials Event</td>
<td>1-mile buffer transport corridor</td>
<td>5</td>
<td>5,900</td>
<td>18</td>
<td>18,700</td>
<td>2</td>
<td>130,980</td>
<td>2</td>
<td>1,604</td>
<td>16</td>
<td>9,440</td>
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<td>239,527</td>
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<tr>
<td></td>
<td>1-mile buffer fixed site</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>845</td>
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<td>0</td>
<td>0</td>
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<td>0</td>
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<td></td>
<td>Moderate</td>
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<td>104</td>
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<td>Sea Level Rise</td>
<td>Inundation area</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>0</td>
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<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Wildland Fire</td>
<td>Very high</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>104</td>
<td>2</td>
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<td>252,893</td>
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<td>1</td>
<td>1,652</td>
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<td>3</td>
<td>2,832</td>
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*Value = Building value based on Tax Assessor records (x1000)
Table H-5
County of Monterey Potential Hazard Vulnerability Analysis - Critical Infrastructure

<table>
<thead>
<tr>
<th>Hazard</th>
<th>Methodology</th>
<th>Highways</th>
<th>Railroads</th>
<th>Bridges</th>
<th>Airports</th>
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<tbody>
<tr>
<td>Agricultural Emergency</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Coastal Erosion</td>
<td>100-year erosion zone</td>
<td>10.0</td>
<td>51,633</td>
<td>0.0</td>
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<tr>
<td>Dam Failure</td>
<td>Inundation area</td>
<td>72.7</td>
<td>481,979</td>
<td>59.8</td>
<td>82,609</td>
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<td>Earthquake</td>
<td>Extreme</td>
<td>16.1</td>
<td>96,008</td>
<td>9.3</td>
<td>12,833</td>
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<tr>
<td></td>
<td>High</td>
<td>144.7</td>
<td>942,401</td>
<td>47.6</td>
<td>65,657</td>
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<td></td>
<td>Moderate</td>
<td>273.4</td>
<td>1,673,073</td>
<td>47.9</td>
<td>66,079</td>
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<td>Flood</td>
<td>100-year flood zone</td>
<td>41.3</td>
<td>250,631</td>
<td>15.5</td>
<td>21,426</td>
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<td>Hazardous Materials Event</td>
<td>1-mile buffer transport corridor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1-mile buffer fixed site</td>
<td>16.3</td>
<td>8.2</td>
<td>3</td>
<td>0</td>
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<td>Landslide</td>
<td>High</td>
<td>40.6</td>
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<td>2.5</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Moderate</td>
<td>20.5</td>
<td>TBD</td>
<td>3.1</td>
<td>TBD</td>
</tr>
<tr>
<td>Sea Level Rise</td>
<td>Inundation area</td>
<td>6.2</td>
<td>8.4</td>
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<td>Tsunami</td>
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<td>TBD</td>
</tr>
<tr>
<td>Wildland Fire</td>
<td>Very high</td>
<td>8.8</td>
<td>TBD</td>
<td>0.0</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>High</td>
<td>81.4</td>
<td>TBD</td>
<td>13.8</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>Moderate</td>
<td>108.1</td>
<td>TBD</td>
<td>40.5</td>
<td>TBD</td>
</tr>
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<td>Prevailing wind zone</td>
<td>127.8</td>
<td>947,058</td>
<td>68.6</td>
<td>94,717</td>
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</tbody>
</table>

1Value = Building value based on Tax Assessor records (x1000)
Agricultural Emergency

There are 91,571 acres (143.1 square miles) of cropland in the unincorporated area of Monterey County that intersect with the 100-year floodplain.

Coastal Erosion

Coastal erosion is present along the entire coast of Monterey County. However, less than 0.2 percent of the county’s population resides in this hazard zone. On average, the dunes along the northern Monterey Bay erode 2.6 feet annually while the steep cliffs along the southern coastline erode 7 inches annually. Therefore, using a 100-year projection to determine areas at risk to coastal erosion, approximately 184 people, 163 residential buildings (worth $34.6 million), 3 nonresidential buildings (worth $9.9 million), and 1 critical facility (worth $1.2 million) reside in the coastal erosion hazard area. Additionally, 10.0 miles of highway are located in this hazard area.

Dam Failure

Approximately 20 percent of the county’s population is located in the inundation zones of the Nacimiento, San Antonio, San Clemente, Los Padres, and Black Rock Creek dams. This includes 17,638 people, 4,782 residential buildings (worth $921.2 million), 342 nonresidential buildings (worth $592.1 million), and 37 critical facilities (worth $248 million). In addition, 72.7 miles of highway, 59.8 miles of railroad tracks, and 79 bridges are located in this hazard area.

Earthquake

Approximately 10 percent of the county’s population resides in an extreme shaking area, while an additional 50 percent live in a high shaking area, and the remaining 30 percent live in a moderate shaking area. The strongest shaking potential is located in the southern and northern portions of the county. As such, exposed within the extreme shaking hazard area are 12,251 people, 3,357 residential buildings (worth $591.0 million), 129 nonresidential buildings (worth $260.6 million), and 7 critical facilities (worth $2.4 million). 16.1 miles of highway and 9.3 miles of railroad tracks are located in this hazard area. Exposed within the high shaking hazard area are 60,207 people, 21,237 residential buildings (worth $4.24 billion), 892 nonresidential buildings (worth $1.5 billion), and 124 critical facilities (worth $341 million). 144.7 miles of highway and 47.6 miles of railroad tracks are also located in this hazard area. Exposed within the moderate shaking hazard area are 26,301 people, 12,445 residential buildings (worth $2.6 billion), 275 nonresidential buildings (worth $537.7 million), and 4 critical facilities (worth $14.5 million). 273.4 miles of highway and 47.9 miles of railroad tracks are located in this hazard area.

Flood

Over 10 percent of the county’s population resides in the SFHA, which includes areas adjacent to the Salinas, Carmel, Pajaro, and Arroyo Seco Rivers, the Moro Cojo and Elkhorn sloughs, and low-lying coastal areas that are inundated by wave attack. Exposed within this hazard area are 10,802 people, 3,341 residential buildings (worth $630.2 million), 44 nonresidential buildings (worth $624.4 million), and 11 critical facilities (worth $237 million). Approximately 41.3 miles of highway and 15.5 miles of railroad tracks are also located in the 100-year floodplain.
Hazardous Materials Event

Within the 1-mile buffer of the transportation corridors are 57,560 people (approximately 46 percent of the county’s population), 14,136 residential buildings (worth $3.3 billion), 2,670 nonresidential buildings (worth $1.1 billion), and 84 critical facilities (worth $276.3 million). These figures are for the entirety of the transportation corridors and, therefore, overstate the exposure since a single HAZMAT event at a given point along these corridors is unlikely to affect all of the area within the 1-mile buffer.

Within the 1-mile buffer around the fixed HAZMAT sites, 3,060 people are exposed to a fixed-site hazardous materials event. This includes 712 residential buildings (worth $164.4 million), 162 nonresidential buildings (worth $96.9 million), and 8 critical facilities. These figures are for all of the fixed HAZMAT sites and, therefore, overstate the exposure since a single HAZMAT event at any one location is unlikely to affect all of the area within the jurisdiction.

Landslide

A little over 22 percent of the county’s population lives in moderate and high landslide hazard areas. The landslide areas within the county are located along the Big Sur coast, the Santa Lucia and Gabilan Mountain Ranges, the Carmel Valley, and the northern county limits. The high landslide hazard area includes 4,996 people, 1,045 residential buildings (worth $305.8 million), 288 nonresidential buildings (worth $59.3 million), and 0 critical facilities. Approximately 40.6 miles of highway and 2.5 miles of railroad tracks are located in this high hazard area. 17,215 people, 5,213 residential buildings (worth $1.5 billion), 751 nonresidential building (worth $191.8 million) and 6 critical facilities (worth $18 million) are located in the moderate landslide hazard area. Approximately 20.5 miles of highway and 3.1 miles of railroad tracks are located in this moderate hazard area.

Sea Level Rise

The potential for sea level rise is present along the entire coast of Monterey County. However, less than 4 percent of the county’s population resides in this hazard zone. This includes approximately 3,846 people, 305 residential buildings (worth $47.5 million), 85 nonresidential buildings (worth $69 million), and 3 critical facilities (worth $18 million). Additionally, 6.2 miles of highway, 8.4 miles of railroad, 17 bridges, and 58 airports are located in this hazard area.

Tsunami

Using the New Tsunami Inundation Map data, less than 1 percent of the county’s population, mainly residing in the unincorporated communities of the Carmel Highlands, Carmel, Lagoon, Castroville, Moss Landing, and Pajaro, is vulnerable to a tsunami. This includes 994 people, 120 residential buildings (worth $40 million), 42 nonresidential buildings (worth $62 million), and 1 critical facility. A significant coastal visitor population may also be vulnerable to tsunamis. Approximately 5.4 miles of highway and 4.4 miles of railroad tracks are located in this hazard area. Moss Landing Harbor is also vulnerable to strong and unpredictable currents.
Wildland Fire

Using the California FRAP model, very high wildland fire risk areas are located in and around the Los Padres National Forest. Within the area of very high wildland fire exposure are 2,486 people and 689 residential buildings (worth $330.6 million), 162 nonresidential buildings (worth $45.7 million) and 7 critical facilities (worth $104 million). Approximately 8.8 miles of highway are located in this hazard area.

In the high wildland fire risk areas are 15,415 people, 3,390 residential buildings (worth $109 million), 1,110 nonresidential buildings (worth $251.1 million), and 15 critical facilities (worth $671,000). Approximately 81.4 miles of highway and 13.8 miles of railroad tracks are located in this hazard area.

Areas of moderate wildland fire risk include 64,029 people, 20897 residential buildings (worth $5.7 billion), 3,960 nonresidential buildings (worth $1.3 million), and 108 critical facilities (worth $355 million). Approximately 108.1 miles of highway and 40.5 miles of railroad tracks are located in this hazard area.

Windstorm

Windstorms created by prevailing northwest sustained surface winds are common throughout the central and southern Salinas Valley from March to October. Therefore, 11,824 people, 3,428 residential buildings (worth $663.0 million), 140 nonresidential buildings (worth $326.6 million), and 3 critical facilities (worth $2.8 million) are located in this hazard area.
### Table H-6
**County of Monterey Legal and Regulatory Resources Available for Hazard Mitigation**

<table>
<thead>
<tr>
<th>Regulatory Tool</th>
<th>Name</th>
<th>Effect on Hazard Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Plans, Ordinances, and Codes</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>October 2006 Draft General Plan Safety Element</td>
<td>Establishes policies that will minimize the potential of human injury and property damage to the following natural hazards: drainage; flood; seismic and other geologic hazards; and wild fires.</td>
<td></td>
</tr>
<tr>
<td>Floodplain Management Plan 2003</td>
<td>Identifies flooding sources affecting Repetitive Loss Properties, establishes an implementation plan to reduce flooding, and ensures that the natural and beneficial of the floodplains are protected. The Water Resources Agency, in collaboration with the RMA Planning Department, is also working on a Drainage Design Manual to implement Policy S-3.7 of the General Plan.</td>
<td></td>
</tr>
<tr>
<td>Land Area Plans</td>
<td>Due to the diversity of Monterey County, smaller plans have been created to provide more specific policies unique to a particular geographical area. Area plans for the inland portion of the County include Cachagua, Central Salinas Valley, Greater Monterey Peninsula, Greater Salinas, North County, South County, and Toro.</td>
<td></td>
</tr>
<tr>
<td>Land Use Plans and Coastal Implementation Plans</td>
<td>Land Use Plans and Coastal Implementation Plans have been developed for the four areas that make up the Coastal Zone, including Big Sur, Carmel Area, Del Monte Forest, and North County Coastal.</td>
<td></td>
</tr>
<tr>
<td>Stormwater Management Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coastal Management Plan</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Operations Plan</td>
<td>The Emergency Operations Plan was revised and adopted in March 2014. The Catastrophic Event Planning (addressing earthquakes) was prepared as part of the Regional Catastrophic Preparedness Grant Program.</td>
<td></td>
</tr>
<tr>
<td>Winter Storm Plan</td>
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<td></td>
</tr>
<tr>
<td>Climate Adaptation Plan</td>
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<td></td>
</tr>
<tr>
<td>Community Wildfire Protection Plan</td>
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<td></td>
</tr>
<tr>
<td>Evacuation Plan</td>
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<td></td>
</tr>
<tr>
<td>Disaster Recovery Plan</td>
<td>Currently under development.</td>
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</tr>
<tr>
<td>Capital Improvements Plan</td>
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<td></td>
</tr>
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</table>
# County of Monterey Legal and Regulatory Resources Available for Hazard Mitigation

<table>
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<tr>
<th>Regulatory Tool</th>
<th>Name</th>
<th>Effect on Hazard Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Economic Development Plan</td>
<td>Currently under development. The Economic Development Department (EDD) is a newly formed department within the County. This plan is in its early stages (asset inventory/assessment and identification of economic opportunities). It will be determined at a later date what effect this plan will have on addressing hazard loss reduction.</td>
<td></td>
</tr>
<tr>
<td>Historic Preservation Plan</td>
<td>Currently under development. The only hazards this plan will address would be those due to hazardous materials in older buildings that would need retrofitting.</td>
<td></td>
</tr>
<tr>
<td>Transportation Plan</td>
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<td></td>
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<tr>
<td>Zoning Ordinance</td>
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<td>Subdivision Ordinance</td>
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<tr>
<td>Site Plan Review Requirements</td>
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<tr>
<td>Fire Prevention Codes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Programs</td>
<td>National Flood Insurance Program (NFIP)</td>
<td>Makes affordable flood insurance available to homeowners, business owners, and renters in participating communities. In exchange, those communities must adopt and enforce minimum floodplain management regulations to reduce the risk of damage from future floods.</td>
</tr>
<tr>
<td>Capital Improvement Program</td>
<td>It is a five-year program that is updated annually. It consists of construction projects, such as storm drain improvements, that have a total cost of more than $100,000 and are planned to commence construction between July 1, 2006 and June 30, 2012.</td>
<td></td>
</tr>
<tr>
<td>Monterey Regional Storm Water Program</td>
<td>Reduce pollution from storm water discharge and runoff with regard to the EPA’s Phase II Storm Water National Pollutant Discharge Elimination System requirements. It is a collective effort and implementation of area-wide activities designed to benefit all participating entities.</td>
<td></td>
</tr>
<tr>
<td>Local Coastal Program</td>
<td>Land Use Plans and Coastal Implementation Plans indicate the kinds, location, and intensity of land use and applicable resource protection and development policies within the Coastal Zone.</td>
<td></td>
</tr>
</tbody>
</table>
## Table H-6

### County of Monterey Legal and Regulatory Resources Available for Hazard Mitigation

<table>
<thead>
<tr>
<th>Regulatory Tool</th>
<th>Name</th>
<th>Effect on Hazard Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Policies</strong>&lt;br&gt;(County Code)</td>
<td><strong>Title 10 Health and Safety</strong></td>
<td><strong>Title 10.46 Weed Control</strong>&lt;br&gt;Currently considered to be noxious weeds within the meaning of Section 5004 of the California Food and Agricultural Code which the Agricultural Commissioner finds and determines to be detrimental or destructive and difficult to control or eradicate. However, in future updates, policy could also include combustible weeds for fire hazard abatement.</td>
</tr>
<tr>
<td><strong>Policies</strong>&lt;br&gt;(County Code)</td>
<td><strong>Title 10 Health and Safety</strong></td>
<td><strong>Title 10.65 Hazardous Materials Registration</strong>&lt;br&gt;Provides a continuing source of current information concerning hazardous substances and chemicals being utilized in the County of Monterey to protect the general health and safety of the public and to enable emergency personnel to respond safely and speedily to emergency situations which may arise and establish a continuing program for the purpose of preventing contamination from, and improper storage of, hazardous substances stored underground. This title also establishes orderly procedures that will ensure that newly constructed underground storage tanks meet appropriate standards and that existing tanks be properly maintained, inspected, and tested so that the health, property, and resources of the people of the County will be protected.</td>
</tr>
<tr>
<td><strong>Policies</strong>&lt;br&gt;(County Code)</td>
<td><strong>Title 16 Environment</strong></td>
<td><strong>16.08 Grading</strong>&lt;br&gt;Sets forth rules and regulations to control all grading, including excavations, earthwork, road construction, fills and embankments, and establishes the administration procedure for issuance of permits; and provides for approval of plans and inspections of grading construction.</td>
</tr>
<tr>
<td><strong>Policies</strong>&lt;br&gt;(County Code)</td>
<td><strong>Title 16 Environment</strong></td>
<td><strong>16.12 Erosion Control</strong>&lt;br&gt;Requires control of all existing and potential conditions of accelerated (human-induced) erosion; sets forth required provisions for project planning, preparation of erosion control plans, runoff control, land clearing, and winter operations; and establishes procedures for administering those provisions.</td>
</tr>
<tr>
<td><strong>Policies</strong>&lt;br&gt;(County Code)</td>
<td><strong>Title 16 Environment</strong></td>
<td><strong>16.16 Regulations for Floodplains in Monterey County</strong>&lt;br&gt;Identifies areas where terrain characteristics would present new developments and their users with potential hazards to life and property from potential inundation by a 100-year frequency flood or other known flood hazards. These standards are also intended to minimize the effects of development on drainage ways and watercourses.</td>
</tr>
</tbody>
</table>
### Table H-6
**County of Monterey Legal and Regulatory Resources Available for Hazard Mitigation**

<table>
<thead>
<tr>
<th>Regulatory Tool</th>
<th>Name</th>
<th>Effect on Hazard Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18.50 Residential, Commercial and Industrial Water Conservation Measures</td>
<td>Reduces the excessive use of water within the Greater Salinas, Toro, Greater Monterey Peninsula, and a portion of North County and Coast Planning areas by requiring the installation of low water use plumbing fixtures and low water use landscape material as part of new construction and prohibiting certain excessive use of water.</td>
</tr>
<tr>
<td></td>
<td>18.56 Wildfire Protection Measures in State Responsibility Areas</td>
<td>Establishes wildfire protection standards in conjunction with building, construction, and development in State responsibility areas located within the boundaries of Monterey County and under the direct fire protection authority of the California Department of Forestry. These standards shall provide that future design and construction of structures, subdivisions and developments in State Responsibility Areas shall provide for emergency access and perimeter wildfire protection measures.</td>
</tr>
<tr>
<td><strong>Title 20</strong> Coastal Implementation Plan Zoning</td>
<td>20.17 Watershed Scenic Corridor District</td>
<td>Provides a district to allow development in the more remote or mountainous areas in the Coastal Zone while protecting the significant and substantial resources of those areas. Of specific concern are the highly sensitive resources inherent in such areas such as viewshed, watershed, plant and wildlife habitat, streams and riparian corridors.</td>
</tr>
</tbody>
</table>
## Table H-6
**County of Monterey Legal and Regulatory Resources Available for Hazard Mitigation**

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<tr>
<th>Regulatory Tool</th>
<th>Name</th>
<th>Effect on Hazard Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>20.64 Development on Slopes in Excess of 30 Percent</td>
<td>Establishes regulations, procedures, and standards to consider development on slopes in excess of 30 percent (25 percent in North County).</td>
</tr>
<tr>
<td></td>
<td>20.66 Development Standards for Hazardous Areas</td>
<td>Same as 21.66, see below.</td>
</tr>
<tr>
<td>Title 21 Inland Zoning</td>
<td>21.66 Development Standards for Hazardous Areas</td>
<td>Provides development standards, including the requirement of ageologic report, which regulate land use and development, using the best available planning practices, in order to minimize risk to life and property and damage to the natural environment.</td>
</tr>
</tbody>
</table>
### Table H-7
County of Monterey Administrative and Technical Resources for Hazard Mitigation

<table>
<thead>
<tr>
<th>Staff/ Personnel Resources</th>
<th>Department/ Division Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planner(s) or engineer(s) with knowledge of land development and land management practices</td>
<td>Planning and Building Inspection</td>
</tr>
<tr>
<td>Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure</td>
<td>Planning and Building Inspection</td>
</tr>
<tr>
<td>Planner(s) or engineer(s) with an understanding of manmade or natural hazards</td>
<td>Planning and Building Inspection</td>
</tr>
<tr>
<td>Building inspector</td>
<td>RMA-Building</td>
</tr>
<tr>
<td>Emergency manager</td>
<td>Office of Emergency Services</td>
</tr>
<tr>
<td>Floodplain manager</td>
<td>Water Resources Agency</td>
</tr>
<tr>
<td>Land surveyor(s)</td>
<td>Public Works</td>
</tr>
<tr>
<td>Resource development staff or grant writers</td>
<td>Public Works</td>
</tr>
<tr>
<td>Public information officer(s)</td>
<td>Chief Administrative Officer’s Office</td>
</tr>
<tr>
<td>Personnel skilled in GIS and/or HAZUS-MH</td>
<td>Planning &amp; Building Inspection/Information Technology/ Office of Emergency Services</td>
</tr>
<tr>
<td>Maintenance programs to reduce risk</td>
<td>Public Works</td>
</tr>
<tr>
<td>Warning systems/services</td>
<td>Office of Emergency Services</td>
</tr>
<tr>
<td>Mutual Aid Agreements</td>
<td>Emergency Responders</td>
</tr>
</tbody>
</table>
## Table H-8
### County of Monterey Financial Resources for Hazard Mitigation

<table>
<thead>
<tr>
<th>Financial Resources</th>
<th>Effect on Hazard Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>General funds</td>
<td>General Fund expenses must be considered by the Board of Supervisors but may be available for hazard mitigation activities at the discretion of the Board.</td>
</tr>
<tr>
<td>Capital improvements project funding</td>
<td>Funding subject to review and approval by the Board of Supervisors but may be available to support hazard mitigation activities.</td>
</tr>
<tr>
<td>Authority to levy taxes for specific purposes</td>
<td>Can be used for any hazard mitigation activity, but only eligible for use with voter approval.</td>
</tr>
<tr>
<td>Water/sewer fees</td>
<td>Most of the county is served by private wells and septic systems. However, those areas served by public water and sewer purveyors are regulated by public utilities.</td>
</tr>
<tr>
<td>Development impact fees</td>
<td>Development impact fees are available on a case-by-case basis.</td>
</tr>
<tr>
<td>Incur debt through general obligation bonds</td>
<td>Can be used for any hazard mitigation activity, but only eligible for use with voter approval.</td>
</tr>
<tr>
<td>Incur debt through special tax and revenue bonds</td>
<td>Revenue Bonds can be issued through the County with voter approval to raise funds for hazard mitigation activities.</td>
</tr>
<tr>
<td>Incur debt through private activity bonds</td>
<td>Can be used for any hazard mitigation activity but only eligible for use with voter approval.</td>
</tr>
<tr>
<td>FEMA HMGP and PDM grants</td>
<td>HMGP grant funding is available to local communities after a Presidentially-declared disaster. It can be used to fund both pre- and post-disaster mitigation plans and projects. PDM funding is available on an annual basis. This grant can only be used to fund pre-disaster mitigation plans and projects only.</td>
</tr>
<tr>
<td>Community Development Block Grants (CDBG)</td>
<td>The Community Development Block Grant (CDBG) program is a flexible program that provides communities with resources to address a wide range of unique community development needs.</td>
</tr>
<tr>
<td>United States Fire Administration (USFA) Grants</td>
<td>The purpose of these grants is to assist state, regional, national, or local organizations to address fire prevention and safety. The primary goal is to reach high-risk target groups including children, seniors, and firefighters.</td>
</tr>
<tr>
<td>Fire Mitigation Fees</td>
<td>Finance future fire protection facilities and fire capital expenditures required because of new development within Special Districts.</td>
</tr>
</tbody>
</table>
## Table H-9
### County of Monterey Education and Outreach Resources for Hazard Mitigation

<table>
<thead>
<tr>
<th>Education and Outreach Resources</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Local citizen groups or non-profit organizations focused on environmental protection, emergency</td>
<td>Land Use Advisory Committees, Housing Advisory Committee, Monterey Bay Fund, Sustainable Seaside, Ecology Action (Santa Cruz)</td>
</tr>
<tr>
<td>preparedness, access and functional needs populations, etc.</td>
<td></td>
</tr>
<tr>
<td>Ongoing public education or information program</td>
<td>Community Outreach is a collaborative effort between Monterey County OES and communities’ fire districts. Includes school programs (Get Ready 5th GRADE); Participation in Great Shakeout; numerous community fairs and meetings; CERT programs; PSAs; and website, Facebook, and Twitter followings.</td>
</tr>
<tr>
<td>StormReady certification</td>
<td>The Board of Supervisors acknowledged and received National Weather Service certification on October 14, 2008.</td>
</tr>
</tbody>
</table>

**Problem Statements** are statements of particular interest with regard to primary hazards of concern, geographic areas of concern, or vulnerable community assets. These statements were primarily derived from local community site visits and discussion with local staff and officials from each community during Individual Jurisdiction Meetings, in combination with a review of the Safety Elements of local General Plans and GIS analysis using best available data in support of updates to the vulnerability analysis for each jurisdiction. They were developed to assist in the identification and analysis of potential hazard mitigation actions for Monterey County.

- Overgrown vegetation and sediment build-up in the Salinas River channel has increased the potential for destructive flooding for many communities in Monterey County. The Salinas River Stream Maintenance Program proposed by the Monterey County Water Resources Agency continues to seek solutions for adequate flood protection, but to date has not been approved for implementation due to concerns raised by agricultural and environmental interests. A long-term, holistic approach to the problem is still required and should be considered among the highest priorities for the County’s ongoing, multi-jurisdictional hazard risk reduction efforts.

- Many participating jurisdictions raised the problem of major resource shortages to plan for and implement activities in support of the MJHMP. Monterey County should consider the potential for coordinating with all jurisdictions (and possibly CSUMB) to jointly support the hiring or designation of a shared resource development officer or grants writer with the responsibility for addressing existing resources shortages.

- The Pajaro Valley includes populations that are particularly vulnerable to flood hazards, as was seen during the 1995 and 1998 major flood events.

- Hundreds of residential properties in Carmel Valley are susceptible to flooding, including many located in the mapped floodway. Even if not damaged, many homes in this area will become isolated following major flood events.
• Natividad Medical Center is a critical County-owned and operated facility that has undergone numerous seismic upgrade projects but may still experience structural damage and service interruptions that pose risks to the public following a strong earthquake.

• The water and wastewater infrastructure for the unincorporated communities of Castroville, San Lucas, and San Ardo is not mapped and deemed particularly vulnerable to unmitigated losses.

• Although the Monterey County Water Resources Agency has already identified primary and secondary solutions for repetitive loss properties, current property owners are not interested in the types of flood mitigation projects (elevation) that are cost-effective and eligible for FEMA grant funding.
# County of Monterey Mitigation Action Plan Matrix

<table>
<thead>
<tr>
<th>Action Number</th>
<th>Description</th>
<th>Ranking / Prioritization</th>
<th>Administering Department</th>
<th>Potential Funding</th>
<th>Timeframe</th>
<th>Benefit-Costs</th>
<th>Status</th>
<th>Narrative Update/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Identify hazard-prone critical facilities and infrastructure and carry out acquisition, relocation, and structural and nonstructural retrofitting measures as necessary.</td>
<td>Priority / High</td>
<td>OES</td>
<td>HMGP and PDM Grants</td>
<td>Ongoing</td>
<td>This action will help ensure that the community/critical facilities can operate in some capacity before, during, and after the disaster.</td>
<td>Partially Completed / In Progress</td>
<td>Identification: GIKR data has been identified and mapped. That data has been analyzed as to Threat and Vulnerability Analysis through Digital Sandbox software. Field assessment of Priority One facilities are 50% completed.</td>
</tr>
<tr>
<td>2</td>
<td>Develop a sustained public outreach program that encourages consistent hazard mitigation content. For example, consider publishing tsunami inundation maps in telephone books, wildland fire defensible space tips with summer water bills, and the safe handling and disposal of hazardous waste and chemicals with garbage bills.</td>
<td>Priority / High</td>
<td>OES</td>
<td>General Funds, HMGP, and PDM Grants</td>
<td>0-1 years</td>
<td>A mitigation outreach program will help build and support local capacity to enable the public to prepare for, respond to, and recover from disasters.</td>
<td>Ongoing / Continuous</td>
<td>OES website identifies hazard and has access to the State of CA “My Hazards.” Tsunami Inundation Map Door Hangers have been produced for all homes in the Tsunami Inundation Zone for County. The door hangers include protective actions for community residents. OES has conducted on average 35 community outreach programs per year for community residents including underserved populations.</td>
</tr>
<tr>
<td>Action Number</td>
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</tr>
<tr>
<td>---------------</td>
<td>------------------------------------------------------------------------------</td>
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<td>--------------------</td>
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<td>-------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>3</td>
<td>Review and update County inundation maps every five years and participate in DSOD mapping updates.</td>
<td>Priority / High</td>
<td>Water Resources</td>
<td>General Funds</td>
<td>Every 5 years</td>
<td></td>
<td>Ongoing / Continuous</td>
<td>Facilitated READY-5th grade program in schools and pre-elementary headstart program for children and parents.</td>
</tr>
<tr>
<td>4</td>
<td>Examine and mitigate critical infrastructure that has been identified as currently being too narrow to ensure the safe transportation of truck loads within Monterey County.</td>
<td>Priority / High</td>
<td>Public Works</td>
<td>General Funds</td>
<td>1-3 years</td>
<td></td>
<td>Partially Completed / In Progress</td>
<td>See Capital Improvement Program for FY2010-2011 through 2014-2015.</td>
</tr>
</tbody>
</table>
### Table H-10

#### County of Monterey Mitigation Action Plan Matrix

<table>
<thead>
<tr>
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<th>Status</th>
<th>Narrative Update/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Continue to conduct current fuel management programs and investigate and apply new and emerging fuel management techniques.</td>
<td>Priority / High</td>
<td>County Fire</td>
<td>HMGP and PDM Grants</td>
<td>Ongoing</td>
<td>The probability of future damage from wildland fires could be high if this mitigation action is not implemented.</td>
<td>Ongoing / Continuous</td>
<td>See Section 5-4 (Safety Element—Fire Hazards) of the 2010 General Plan. Monterey County has identified a Fire Warden and fuel mitigation officer as well as an Advisory Group to develop oversight plans for the implementation of the MCCWPP. The Advisory Committee is represented by government and private stakeholders.</td>
</tr>
<tr>
<td>6</td>
<td>Include provisions for dust erosion control methods in building, grading, and land clearing permits.</td>
<td>Priority / High</td>
<td>Public Works</td>
<td>General Funds</td>
<td>0-2 years</td>
<td>Dust control erosion measures will reduce the effects of bad air quality and soil loss, thereby improving health and work conditions.</td>
<td>Ongoing / Continuous</td>
<td>Chapter 16.12 (Erosion Control) of the Monterey County Code.</td>
</tr>
<tr>
<td>7*</td>
<td>Implement the Carmel River (CSA-50) Lower Carmel River Flood Control Project structural and operational improvements, including adding pumping capacity, installing flood walls, and raising and extending levees.</td>
<td>Priority / High</td>
<td>Water Resources Agency</td>
<td>HMGP and PDM Grants</td>
<td>0-5 years</td>
<td>The mitigation of repetitively flooded properties is a priority for FEMA grant programs.</td>
<td>Partially Completed / In Progress</td>
<td>CSA-50 is preparing an update to the lower Carmel River Flood Control project final report dated 8/9/02.</td>
</tr>
</tbody>
</table>
## Appendix H
### County Of Monterey

<table>
<thead>
<tr>
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<th>Status</th>
<th>Narrative Update/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>8*</td>
<td>Work with Repetitive Loss property owners to implement property protection activities including constructing retaining walls, berms, and terrace drains, as well as installing debris fences and elevating structures to have the lowest floor a minimum of 1-foot above the base flood elevation.</td>
<td>Priority / High</td>
<td>Water Resources Agency</td>
<td>HMGP and PDM Grants</td>
<td>0-5 years</td>
<td>The mitigation of repetitively flooded properties is a priority for FEMA grant programs.</td>
<td>Deferred</td>
<td>No funding and homeowner support for this effort.</td>
</tr>
<tr>
<td>9</td>
<td>Develop and implement a multi-hazard public awareness program to include new risks of sea level rise and climate change impacts.</td>
<td>Moderate</td>
<td>Monterey County OES</td>
<td>EMPG Funds 505 match to Salaries of Emergency Planners</td>
<td>0-1 year</td>
<td>Awareness Programs provide residents and public with risk tools to understand their hazards and actions to prepare for them.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>10</td>
<td>Develop a debris management plan.</td>
<td>High</td>
<td>Monterey County OES</td>
<td>UASI Funding for Crosswalk. Salaries of staff for completion</td>
<td>0-1 year</td>
<td>Existence of debris management plan (FEMA approved) provides 80% cost share to state/local during recovery efforts.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
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</tr>
<tr>
<td>11</td>
<td>Conduct bi-annual core capability assessments of Monterey County public safety agencies.</td>
<td>Moderate</td>
<td>Monterey County OES</td>
<td>UASI Digital Sandbox funded. Staff time EMPG match</td>
<td>Ongoing every 2 years</td>
<td>Self assessments identify.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>12</td>
<td>Develop and implement new tsunami evacuation and maritime response playbooks to improve decision making for protective actions that are specific for local jurisdictions and coastal effects. Utilize maritime playbooks to determine where maritime facilities and infrastructure in Moss Landing Harbor can be strengthened.</td>
<td>High</td>
<td>Monterey County OES</td>
<td>Staff time EMPG 505 match for planning</td>
<td>0-1 years</td>
<td>Benefit of saving lives by shortening ENS notifications to public. Reduce tsunami impacts and improve recovery in Moss Landing Harbor.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>13</td>
<td>Implement Business Operations Center and Private Sector Advisory Committee to ensure private/public partnerships.</td>
<td>Moderate</td>
<td>Monterey County OES</td>
<td>UASI funds, EMPG funds; General Funds Cost Share</td>
<td>0-1</td>
<td>Better information sharing; resource sharing and deployment by private sector; streamlining lifeline pathways.</td>
<td>New</td>
<td>New</td>
</tr>
</tbody>
</table>
### Table H-10
County of Monterey Mitigation Action Plan Matrix

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</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Encourage water conservation measures to home and business owners through public awareness outlets.</td>
<td>Moderate</td>
<td>Monterey County OES</td>
<td>General Funds/EMPG Cost Share 50%</td>
<td>Ongoing</td>
<td>Prevention of severe drought conditions.</td>
<td>Continuous</td>
<td>New</td>
</tr>
<tr>
<td>15</td>
<td>Require and maintain safe access for fire apparatus to wildland/urban interface neighborhoods/properties, and defensible space around structures.</td>
<td>High</td>
<td>RMA</td>
<td>CFSC, DHS, FEMA</td>
<td>Ongoing</td>
<td>Public Safety Access during emergency response. Defensible space will prevent loss of structures and lives.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>16</td>
<td>Create and maintain community fuel breaks and other fuel management projects.</td>
<td>High</td>
<td>RMA/CAL FIRE</td>
<td>CFSC, DHS, FEMA</td>
<td>Ongoing</td>
<td>Defensible space will prevent loss of property, economic loss, and save lives.</td>
<td>New</td>
<td>New</td>
</tr>
</tbody>
</table>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>Use prescribed burning to reduce fuel loads that threaten public safety and</td>
<td>High</td>
<td>CAL FIRE</td>
<td>CFSC, DHS, FEMA</td>
<td>Ongoing</td>
<td>Defensible space will prevent loss of property, economic loss and save lives.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td></td>
<td>property, and to manage for ecological values and functions</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Create and fund positions to support the Fire Warden and Fuel Mitigation</td>
<td>High</td>
<td>RMA</td>
<td>CFSC, DHS, FEMA</td>
<td>Ongoing</td>
<td>The Fire Warden will ensure planning efforts are coordinated and various</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td></td>
<td>Officer.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>grants are leveraged. Ensure that stakeholders are engaged in order to</td>
<td></td>
<td></td>
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<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>keep projects on track. Ensure efficiency of fuel management activities.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td>Support outreach and education programs, in conjunction with fire authorities</td>
<td>High</td>
<td>RMA/CAL FIRE/OES/Local</td>
<td>CFSC, DHS, FEMA</td>
<td>Ongoing</td>
<td>Awareness Programs provide residents and public with risk tools to understand</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td></td>
<td>having jurisdiction.</td>
<td></td>
<td>Fire/Local Fire</td>
<td></td>
<td></td>
<td>their hazards and actions to prepare for.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table H-10

#### County of Monterey Mitigation Action Plan Matrix

<table>
<thead>
<tr>
<th>Action Number</th>
<th>Description</th>
<th>Ranking/Prioritization</th>
<th>Administering Department</th>
<th>Potential Funding</th>
<th>Timeframe</th>
<th>Benefit-Costs</th>
<th>Status</th>
<th>Narrative Update/Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Salinas River Management Program will provide a comprehensive river ecosystem and flood mitigation planning and restoration program for the river vegetation and channel.</td>
<td>High</td>
<td>WRA</td>
<td>General Funds, Federal, State, NGO</td>
<td>Ongoing 7-10 years</td>
<td>Salinas River Management Program will develop a “holistic” approach to river management, providing solutions to environmental and flood mitigation issues.</td>
<td>New</td>
<td>New</td>
</tr>
<tr>
<td>21</td>
<td>Elkhorn Slough Road Improvement: develop plan to improve circulating tidal waters, emergency access that Elkhorn Road is currently blocking during periods of king tides and future sea level rise.</td>
<td>High</td>
<td>RMA</td>
<td>General Funds/</td>
<td>0-5 years</td>
<td>Protect road from flooding and prohibited emergency access to area. Improve water quality and environment to Elkhorn Slough and provide erosion control benefits.</td>
<td>New</td>
<td>New</td>
</tr>
</tbody>
</table>

* Additional mitigation actions identified in the Monterey County Floodplain Management Plan 2003.