

### Housing Mitigation Strategies

		Priority (CHECK ONLY ONE)											
2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
<b>HSNG - a - Multi-Hazard</b>													
a-1	a-1	Assist in ensuring adequate hazard disclosure by working with real estate agents to improve enforcement of real estate disclosure requirements <b>for residential properties</b> with regard to seven official natural hazard zones: <b>1) Special Flood Hazard Areas (designated by FEMA), 2) Areas of Potential Flooding from dam failure inundation, 3) Very High Fire Hazard Severity Zones, 4) Wildland Fire Zones, 5) Earthquake Fault Zones (designated under the Alquist-Priolo Earthquake Fault Zoning Act), and the 6) Liquefaction and Landslide Hazard Zones (designated under the Seismic Hazard Mapping Act).</b>	EQ LS WF FL SEC							X			Not appropriate.
a-2	a-2	Create incentives for <b>private</b> owners of historic or architecturally significant residential buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's <i>Guidelines for Rehabilitation</i> .	EQ LS WF FL SEC							X	Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.	
a-3	NEW Was GOVT b-4	Develop a plan for short-term sheltering of residents <b>of your community in conjunction with the American Red Cross.</b>	EQ LS WF FL SEC	X							City Manager/OES	Ongoing program.	
a-4	NEW Was GOVT b-4	<b>Develop a plan for interim housing for those displaced by working with the Regional Catastrophic Planning Grant Program (CPGP) that funded this effort in 2009. (Estimated completion is 2011.)</b>	EQ LS WF FL SEC							X		Not yet considered.	
<b>HSNG - b - Single-Family Homes Vulnerable to Earthquakes</b>													
b-1	b-1	Utilize or recommend adoption of a retrofit standard that includes standard plan sets and construction details for voluntary bolting of homes to their foundations and bracing of outside walls of crawl spaces ("cripple" walls), such as <b>Plan Set A</b> developed by a committee representing the East Bay-Peninsula-Monterey Chapters of the International Code Council (ICC), California Building Officials (CALBO), the Structural Engineers Association of Northern California (SEAONC), the Northern California Chapter of the Earthquake Engineering Research Institute (EERI-NC), and ABAG's Earthquake Program.	EQ							X	Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.	

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b-2	b-2	Require engineered plan sets for <b>seismic</b> retrofitting of heavy two-story homes with living areas over garages, as well as for split level homes <b>(that is, homes not covered by Plan Set A)</b> , until standard plan sets and construction details become available.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-3	b-3	Require engineered plan sets for <b>seismic</b> retrofitting of homes on steep hillsides <b>(because these homes are not covered by Plan Set A)</b> .	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-4	b-4	Encourage local government building inspectors to take classes on a periodic basis (such as the FEMA-developed training classes offered by ABAG) on retrofitting of single-family homes, <b>including application of Plan Set A</b> .	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-5	b-5	Encourage private retrofit contractors and home inspectors doing work in your area to take retrofit classes on a periodic basis (such as the FEMA-developed training classes offered by ABAG <b>or additional classes that might be offered by the CALBO Training Institute</b> ) on retrofitting of single-family homes.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-6	b-6	Conduct demonstration projects on common existing housing types demonstrating structural and nonstructural mitigation techniques as community models for earthquake mitigation.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-7	b-7	Provide retrofit classes or workshops for homeowners in your community, <b>or help promote utilization of subregional workshops in the South Bay, East Bay, Peninsula, and North Bay as such workshops become available through outreach using existing community education programs</b> .	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-8	b-8	Establish tool-lending libraries with common tools needed for retrofitting for use by homeowners with appropriate training.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
b-9	b-9	<b>(reworded) Provide financial incentives to owners of single-family homes to retrofit if those retrofits comply with Plan Set A or IEBC 2006 in addition to that provided by existing state law State law that makes such retrofits exempt from increases in property taxes.</b>	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
HSNG - c - Soft-Story Multifamily Residential Structures Vulnerable to Earthquakes													
c-1	c-1	Require engineered plan sets for voluntary or mandatory soft-story <b>seismic</b> retrofits <b>by private owners</b> until a standard plan set and construction details become available.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.

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c-2	c-2	Adopt the 2009 (changed date) International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory soft-story building retrofits <b>for use in city/county building department regulations. In addition, allow use of changes to that standard recommended by SEAOC for the 2012 IEBC.</b>	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-3	c-3	Work to educate building owners, local government staff, engineers, and contractors on <b>privately-owned</b> soft-story retrofit procedures and incentives using materials such as those developed by ABAG and the City of San Jose (see <a href="http://quake.abag.ca.gov/eqhouse.html">http://quake.abag.ca.gov/eqhouse.html</a> .)	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-4	c-4	Conduct an inventory of <b>privately-owned</b> existing or suspected soft-story residential structures <b>as a first step in establishing voluntary or mandatory programs for retrofitting these buildings.</b>	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-5	c-5	Use the soft-story inventory to require <b>private</b> owners to inform all existing tenants (and <b>prospective</b> tenants prior to signing a lease agreement) that they <b>may</b> live in this type of building.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-6	c-6	Use the soft-story inventory to require <b>private</b> owners to inform all existing <b>and prospective</b> tenants that they <b>may</b> need to be prepared to live elsewhere following an earthquake if the building has not been retrofitted.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-7	c-7	Investigate and adopt appropriate financial, procedural, and land use incentives ( <b>such as parking waivers</b> ) for <b>private</b> owners of soft-story buildings to facilitate retrofit such as those <b>described</b> by ABAG (see <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> ).	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-8	c-8	(reworded) Explore development of State regulations or legislation to require or encourage <b>private</b> owners of soft-story structures to strengthen them.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
c-9	c-9	Provide technical assistance in seismically strengthening <b>privately-owned</b> soft-story structures.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no soft-story buildings within City jurisdiction.
HSNG - d - Unreinforced Masonry Housing Stock													
d-1	d-1	Continue to actively implement existing State law that requires cities and counties to maintain lists of the addresses of unreinforced masonry buildings and inform <b>private</b> property owners that they own this type of hazardous structure.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no UMBs within City jurisdiction.

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d-2	d-2	Accelerate retrofitting of <b>privately-owned</b> unreinforced masonry structures that have not been retrofitted, for example, by (a) actively working with owners to obtain structural analyses of their buildings, (b) helping owners obtain retrofit funding, (c) adopting a mandatory versus voluntary, retrofit program, and/or (d) applying penalties to owners who show inadequate efforts to upgrade these buildings.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no UMBs within City jurisdiction.
d-3	d-3	Require <b>private</b> owners to inform all existing <b>tenants (and prospective tenants)</b> prior to signing a lease agreement) that they live in an <b>unreinforced masonry</b> building and the standard to which it may have been retrofitted.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no UMBs within City jurisdiction.
d-4	d-4	As required by State law, require <b>private</b> owners to inform all existing tenants that they may need to be prepared to live elsewhere following an earthquake even if the building has been retrofitted, <b>because</b> it has probably been retrofitted to a life-safety standard, not to a standard that will allow occupancy following major earthquakes.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction. Also, no UMBs within City jurisdiction.
HSNG - e - Other Privately-Owned Structurally Vulnerable Residential Buildings and Earthquakes													
e-1	e-1	Identify and work toward tying down mobile homes used as year-round permanent residences using an appropriate cost-sharing basis (for example, 75% grant, 25% owner).	EQ							X			Not applicable - no mobile homes within City jurisdiction.
e-2	e-2	Inventory non-ductile concrete, tilt-up concrete ( <b>such as converted lofts</b> ), and other privately-owned potentially structurally <b>vulnerable</b> residential buildings.	EQ							X			Not applicable - no such residential buildings within City jurisdiction.
e-3	e-3	Adopt the <b>2009</b> International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory retrofit of <b>privately-owned</b> seismically vulnerable buildings.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
e-4	e-4	Adopt one or more of the following strategies as incentives to encourage retrofitting of privately-owned <b>seismically vulnerable</b> residential buildings: (a) waivers or reductions of permit fees, (b) below-market loans, (c) local tax breaks, (d) grants to cover the cost of retrofitting or of a structural analysis, (e) land use ( <b>such as parking requirement waivers</b> ) and procedural incentives, or (f) technical assistance.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.

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<b>HSNG - f - New Construction and Earthquakes</b>													
f-1	f-1	Continue to require that all new housing be constructed in compliance with <b>(deleted "structural")</b> requirements of the most recently adopted version of the <i>California Building Code</i> .	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
f-2	f-2	Conduct appropriate employee training and support continued education to ensure enforcement of building codes and construction standards, as well as identification of typical design inadequacies of housing and recommended improvements.	EQ							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
<b>HSNG - g - Wildfire and Structural Fires</b>													
g-1	g-1	Increase efforts to reduce hazards in existing <b>private</b> development in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat through improving engineering design and vegetation management for mitigation, appropriate code enforcement, and public education on defensible space mitigation strategies.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-2	g-2	Tie public education on defensible space and a comprehensive defensible space ordinance to a field program of enforcement.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-3	g-3	Require that new homes in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat be constructed of fire-resistant building materials (including roofing and exterior walls) and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floors) to increase structural survivability and reduce ignitability. <b>Note</b> - See Structural Fire Prevention Field Guide for Mitigation of Wildfires at <a href="http://osfm.fire.ca.gov/structural.html">http://osfm.fire.ca.gov/structural.html</a> .	WF							X		Contra Costa County Building Department, Contra Costa County Fire Protection District	Not appropriate - County Building Department and Fire District jurisdiction.
g-4	g-4	Create or identify "model" <b>properties showing defensible space and structural survivability</b> in neighborhoods that are wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF					X				Contra Costa County Fire Protection District (?)	If money fell from the sky... though this would probably be a Fire District jurisdiction as well.

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g-5	g-5	Consider fire safety, evacuation, and emergency vehicle access when reviewing proposals to add secondary units or additional residential units in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-6	g-6	Adopt and amend as needed updated versions of the <i>California Building and Fire Codes</i> so that optimal fire-protection standards are used in construction and renovation projects of <b>private buildings</b> .	WF							X		Contra Costa County Building Department, Contra Costa County Fire Protection District	Not applicable - County Building Department and Fire District jurisdiction.
g-7	g-7	Create a mechanism to enforce provisions of the <i>California Building and Fire Codes</i> and other local codes that require the installation of smoke detectors and fire-extinguishing systems <b>on existing residential buildings</b> by making installation a condition of (a) finalizing a permit for any work valued at over a fixed amount and/or (b) on any building over 75 feet in height, and/or (b) as a condition for the transfer of property.	WF							X		Contra Costa County Building Department, Contra Costa County Fire Protection District	Not appropriate - County Building Department and Fire District jurisdiction.
g-8	g-8	Work to ensure a reliable source of water for fire suppression in rural-residential areas through the cooperative efforts of water districts, fire districts, and residents.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-9	g-9	Expand vegetation management programs in wildland-urban- interface fire-threatened communities or in areas exposed to high-to-extreme fire threat to more effectively manage the fuel load through roadside collection and chipping, mechanical fuel reduction equipment, selected harvesting, use of goats or other organic methods of fuel reduction, and selected use of controlled burning.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-10	g-11	Establish <b>special funding mechanisms</b> (such as Fire Hazard Abatement Districts <b>or regional bond funding</b> ) to fund reduction in fire risk of existing properties through vegetation management that includes reduction of fuel loads, use of defensible space, and fuel breaks.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-11	g-12	Work with residents in rural-residential areas to ensure adequate <b>plans are developed for appropriate</b> access and evacuation in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat. <b>For example, in some areas, additional roads can be created, and in other areas, the communities will need to focus on early warning and evacuation because additional roads are not feasible.</b>	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.

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g-12	g-13	Require fire sprinklers in new homes located more than 1.5 miles or a 5-minute response time from a fire station or in an identified high hazard wildland-urban-interface wildfire area.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-13	g-14	Require fire sprinklers in all new or substantially remodeled multifamily housing, regardless of distance from a fire station.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-14	g-15	Require sprinklers in all mixed use development to protect residential uses from fires started in non-residential areas.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-15	g-16	Compile a list of <b>privately-owned</b> high-rise and high-occupancy buildings which are deemed, due to their age or construction materials, to be particularly susceptible to fire hazards, and determine an expeditious timeline for the fire-safety inspection of all such structures.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction. Also, no high-rise or high-occupancy buildings within City jurisdiction.
g-16	g-17	Conduct periodic fire-safety inspections of all multifamily buildings, as required by State law.	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
g-17	g-18	Ensure that <b>city/county-initiated</b> fire-preventive vegetation-management techniques and practices for creek sides and high-slope areas do not contribute to the landslide and erosion hazard. <b>For example, vegetation in these sensitive areas could be thinned, rather than removed, or replanted with less flammable materials. When thinning, the non-native species should be removed first. Other options would be to use structural mitigation, rather than vegetation management in the most sensitive areas.</b>	WF LS	X								Maintenance	Ongoing program.
g-18	g-19	Create a mechanism to require the bracing of water heaters and flexible couplings on gas appliances, and/or (as specified under "b. Single-family homes vulnerable to earthquakes" above) the bolting of homes to their foundations and strengthening of cripple walls to reduce fire ignitions due to earthquakes.	EQ WF							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.

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g-19	g-20	Work with the State Fire Marshall, the California Seismic Safety Commission, Pacific Earthquake Engineering Research Center (PEER), and other experts to identify and manage gas-related fire risks of soft-story residential or mixed use buildings that are prone to collapse and occupant entrapment consistent with the natural gas safety recommendations of Seismic Safety Commission Report SSC-02-03. <b>Note</b> - See <a href="http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf">http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf</a> . <b>Also note</b> - any valves that are installed may need to have both excess flow and seismic triggers ("hybrid" valves).	EQ WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction. Also, no soft-story buildings within City jurisdiction.
g-20	new	<b>Work with insurance companies to create a public/private partnership to give a discount on fire insurance premiums to "Forester Certified" Fire Wise landscaping and fire-resistant building materials on private property.</b>	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
<b>HSNG - h - Flooding</b>													
h-1	h-1	To reduce flood risk, thereby reducing the cost of flood insurance to <b>private</b> property owners, work to qualify for the highest-feasible rating under the Community Rating System of the National Flood Insurance Program.	FL							X			Not cost effective.
h-2	h-2	Balance the housing needs of residents against the risk from potential flood-related hazards.	FL	X								Engineering, Community Development	Existing development standards.
h-3	h-3	Ensure that new <b>private</b> development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, <b>or</b> does not increase runoff by draining water to pervious areas or detention facilities.	FL	X								Engineering, Community Development	Existing development standards.
h-4	h-4	Provide sandbags and plastic sheeting to residents in anticipation of rainstorms, and deliver those materials to <b>vulnerable populations</b> upon request.	FL	X								Maintenance	Ongoing program.
h-5	h-5	Provide public information on locations for obtaining sandbags and/or deliver those sandbags to those various locations throughout a city and/or county prior to and/or during the rainy season.	FL	X								Maintenance	Ongoing program.
h-6	h-6	Apply floodplain management regulations for <b>private</b> development in the floodplain and floodway.	FL	X								Engineering, Community Development	Existing development standards.
h-7	h-7	Ensure that new subdivisions are designed to reduce or eliminate flood damage by requiring lots and rights-of-way <b>be</b> laid out for the provision of approved sewer and drainage facilities, providing on-site detention facilities whenever practicable.	FL	X								Engineering, Community Development	Existing development standards.

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h-8	h-8	Encourage home and apartment owners to participate in home elevation programs <b>within flood hazard areas.</b>	FL	X								City Manager	Included in City newsletter and community access channels.
h-9	h-9	As funding opportunities become available, encourage home and apartment owners to participate in acquisition and relocation programs for areas within floodways.	FL	X								City Manager	Included in City newsletter and community access channels.
h-10	h-10	Encourage owners of properties in a floodplain to consider purchasing flood insurance. For example, point out that most homeowners' insurance policies do not cover a property for flood damage.	FL	X								City Manager	Included in City newsletter and community access channels.
HSNG - i - Landslides and Erosion													
i-1	i-1	Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards <b>for private property</b> , such as those appearing in the <i>California Building Code</i> , California Geological Survey <i>Special Report 117 – Guidelines for Evaluating and Mitigating Seismic Hazards in California</i> , American Society of Civil Engineers (ASCE) report <i>Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California</i> , and the California Board for Geologists and Geophysicists <i>Guidelines for Engineering Geologic Reports</i> . Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance.	LS	X								Engineering, Community Development	Existing development standards.
i-2	i-2	Increase efforts to reduce landslides and erosion in existing and future <b>private</b> development through continuing education of design professionals on mitigation strategies.	LS							X			Not appropriate.
HSNG - j - Building Reoccupancy													
j-1	j-1 same as i-5	Develop and enforce a <b>repair and reconstruction ordinance</b> to ensure that <b>damaged</b> buildings are repaired in an appropriate and timely manner and retrofitted concurrently. <b>This repair and reconstruction ordinance should apply to all public and private buildings, and also apply to repair of all damage, regardless of cause. See <a href="http://quake.abag.ca.gov/recovery/info-repair-ord.html">http://quake.abag.ca.gov/recovery/info-repair-ord.html</a>.</b>	EQ LS WF FL SEC							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.

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J-2	NEW same as econ i-6	Establish preservation-sensitive measures for the repair and reoccupancy of historically significant <b>privately-owned</b> structures, including requirements for temporary shoring or stabilization where needed, arrangements for consulting with preservationists, and expedited permit procedures for suitable repair or rebuilding of historically or architecturally valuable structures.	EQ LS WF FL SEC							X		Contra Costa County Building Department	Not appropriate - County Building Department jurisdiction.
HSNG - k - Public Education													
k-1	k-1	Provide information to residents of your community on the availability of interactive hazard maps showing your community on ABAG's web site.	EQ LS WF FL SEC			X						City Clerk	<b>Need to add link on City website.</b>
k-2	k-2	Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging residents to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines.	EQ LS WF FL SEC							X			Not cost effective.
k-3	k-3	Inform residents of comprehensive mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in high wildfire threat and wildfire-urban-interface areas, structural retrofitting techniques for older homes, and use of intelligent grading practices through workshops, publications, and media announcements and events.	EQ LS WF FL SEC							X			Not cost effective.
k-4	k-4	Develop a public education campaign on the cost, risk, and benefits of earthquake, flood, and other hazard insurance <b>as compared to mitigation.</b>	EQ LS FL SEC							X			Not cost effective.
k-5	k-5	Use disaster anniversaries, such as April (the 1906 earthquake), September (9/11), and October (Loma Prieta earthquake and Oakland Hills fire), to remind the public <b>of</b> safety and security mitigation activities.	EQ LS WF FL SEC							X			Not cost effective.
k-6	k-6	Sponsor the formation and training of Community Emergency Response Teams (CERT) <b>for residents in your community.</b> [Note – these programs go by a variety of names in various cities and areas.]	EQ LS WF FL SEC							X			Not cost effective.
k-7	k-7	Include flood fighting technique session based on California Department of Water Resources training to the list of available public training classes offered by CERT.	FL							X			Not cost effective.
k-8	k-8	Institute the neighborhood watch block captain and team programs outlined in the Citizen Corps program guide.	EQ LS WF FL SEC	X								Police Dept.	Ongoing program.

### Housing Mitigation Strategies

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
k-9	k-9	Assist residents in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF							X			Not cost effective.
k-10	k-10	Train homeowners to locate and shut off gas valves if they smell or hear gas leaking.	EQ LS WF FL SEC							X			Not appropriate.
k-11	k-12	Develop a program to provide at-cost NOAA weather radios to residents of flood hazard areas <b>that request them, with priority to neighborhood watch captains and others trained in their use.</b>	FL							X			Not cost effective.
k-12	k-13	Make use of the materials on the ABAG web site at <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> and other web sites to increase residential mitigation activities related to earthquakes. (ABAG plans to continue to improve the quality of those materials over time.)	EQ									City Manager	<b>Need to add link on City website.</b>
k-13	k-14	Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging <b>private</b> businesses and residents to keep storm drains in their neighborhood free of debris.	FL							X			Not cost effective.
k-14	k-15	Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the <i>Fire Wise Program</i> . <b>This effort is important because grant funds are currently available to offset costs of specific council-supported projects.</b>	WF							X		Contra Costa County Fire Protection District	Not appropriate - Fire District jurisdiction.
k-15	k-16	Inform shoreline-property owners of the possible long-term economic threat posed by rising sea levels.	FL							X			Not applicable - no ocean or bay shoreline within City jurisdiction.
k-16	k-17	Distribute appropriate materials related to disaster mitigation and preparedness <b>to residents. Appropriate materials are (1) culturally appropriate and (2) suitable for special needs populations. For example, such materials are available on the <a href="http://www.preparenow.org">http://www.preparenow.org</a> website and from non-governmental organizations that work with these communities on an on-going basis.</b>	EQ LS WF FL SEC							X			Not cost effective.
<b>deleted</b>	g-10	DELETED - REPLACED BY DISCUSSION OF REVERSE 911 in GOVT c-14.								X			Deleted.
<b>deleted</b>	k-11									X			Deleted.