

## City of Carson Mitigation Actions Matrix

Natural Hazard	Action Item	Coordinating Organization	Timeline	Plan Goals Addressed				
				Protect Life and Property	Public Awareness	Natural Systems	Partnerships and Implementation	Emergency Services
<b>Multi-Hazard Action Items</b>								
MH #1-1	Integrate the goals and action items from the City of Carson Natural Hazards Mitigation Plan into existing regulatory documents and programs, where appropriate.	Hazard Mitigation Working Groups	Ongoing				X	
MH #1-2	Identify and pursue funding opportunities to develop and implement mitigation activities.	Public Services, Finance and Administrative Working Groups	Ongoing				X	
MH #1-3	Establish a formal role for the Public Safety Commission to develop a sustainable process for implementing, monitoring, and evaluating citywide mitigation activities.	Public Safety Department	Ongoing				X	
MH #1-4	Identify, improve, and sustain collaborative programs focusing on the real estate and insurance industries, public and private sector	Economic Development Working Group, PIO	Ongoing	X	X		X	

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	organizations, and individuals to avoid activity that increases risk to natural hazards.							
MH #1-5	Develop public and private partnerships to foster natural hazard mitigation program coordination and collaboration in the City.	Hazard Mitigation Working Groups	Ongoing				X	
MH #1-6	Develop inventories of at-risk buildings and infrastructure and prioritize mitigation projects.	Hazard Mitigation Working Groups	1-2 Years	X			X	
MH #1-7	Strengthen emergency services preparedness and response by linking emergency services with natural hazard mitigation programs and enhancing public education on a regional scale.	Hazard Mitigation Working Groups	Ongoing					X
MH #1-8	Develop, enhance, and implement education programs aimed at mitigating natural hazards, and reducing the risk to citizens, public	Hazard Mitigation Working Groups	Ongoing		X			

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	agencies, private property owners, businesses, and schools.							
MH #1-9	Use technical knowledge of natural ecosystems and events to link natural resource management and land use organizations to mitigation activities and technical assistance.	Hazard Mitigation Working Group	Ongoing			X		
MH #1-10	Incorporate General Plan Safety Element Policies into the Carson Natural Hazards Mitigation Plan.	Public Safety Commission						
MH #1-11	Adoption of Uniform Building Code by municipality.	Building and Safety Department	Done					
MH #1-12	Install and improve back-up power in critical facilities.	City of Carson, Public Services, Building and Landscape	Ongoing	X				
MH #1-13	Provide additional sheltering facilities.	City, Public Services, Public Safety	5 Years				X	
MH #1-14	Develop updates for the Natural Hazards Mitigation Action Plan based on new information.	City, Development Services, Planning	5 years					

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MH #1-15	Minimize suffering and disruption caused by disasters.	City, Public Services, Public Safety	Ongoing				X	
MH #1-16	Promote public education to increase awareness of hazards and opportunities for mitigation.	Public Services, Public Safety	Ongoing		X			
MH #1-17	Promote business mitigation awareness to increase knowledge of public facilities managers.	Public Services, Public Safety, Economic Development	Ongoing		X			
MH #1-18	Write and administer appropriate grants to enhance all agencies/departments' incident response capabilities.	Public Services, Public Safety	Ongoing					X
MH #1-19	Engage the private sector to contribute to disaster preparedness and loss reduction at the local level.	City, Public Services, Public Safety, Economic Development	Ongoing				X	
MH #1-20	Identify and pursue funding opportunities to develop and implement local mitigation activities.	City, Development Services, Planning, Public Services, Public Safety	5 years	X				
MH #1-21	Identify all organizations within the jurisdiction that have programs or	Carson Public Safety	7 years		X			

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	interests in natural hazards mitigation.							
MH #1-22	Conduct benefit/cost analysis for a mitigation activity to assist the community in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later	Redevelopment	5 years	X				
MH #1-23	Purchase a complete GIS/GPS setup and provide training on said setup to all pertinent community personnel.	Carson GIS	1 year				X	
MH #1-24	Minimize suffering and disruption caused by disasters by developing effective plans, community outreach, education and partnerships, practicing response capabilities and mitigating hazards.	Fire, Law Enforcement, and Public Safety	Now	X				
MH #1-25	Partner with other organizations and agencies in the community to identify	Carson Public Safety	7 years				x	

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	grant programs and foundations that may support mitigation activities.							
MH #1-26	Determine how, when, and under what circumstances government will demolish structures.	Building and Safety	5 years	x				
MH #1-27	Educate the public about emergency sheltering and evacuation procedures.	Public Services, Public Safety	Ongoing		X			
MH #1-28	Educate the public about hazards prevalent to their area.	Public Services, Public Safety	Ongoing	X				
MH #1-29	Hold a town-sponsored hazard mitigation seminar for the community residents.	Public Services, Public Safety	5 years		X			
MH #1-30	Publicize the documents associated with emergency response and mitigation.	Public Services, Public Safety	1 year		X			
MH #1-31	Manually disperse information about the community's SEMS Plan and Hazard Mitigation Plan and the relevant emergency response	City, Public Services, Public Safety	Ongoing		X			

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				Protect Life and Property	Public Awareness	Natural Systems	Partnerships and Implementation	Emergency Services
	actions the public can take. Develop a website posting that provides information about the community's SEMS Plan and Hazard Mitigation Plan.							
MH #1-32	Post the community's Hazard Mitigation Plan on the website.	City, Information Services	1 year		X			
MH #1-33	Develop a "how to" mitigation display booth to be used at special events. This display would include pictures and information, such as that contained in FEMA's Retrofitting for Homeowners Guide, Elevating Your Flood Prone Home, how to elevate critical structures and utilities and information on the NFIP.	Public Services, Public Safety	2 years		X			
MH #1-34	Determine costs associated with dumping disaster/construction debris at landfills.	Development Services, Public Works	1 year					X

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MH #1-35	Provide a response/reply section on the website where residents can comment on the effectiveness of the current and where they can make suggestions for future revisions of the plan.	City, Information Services	1 year		X			
MH #1-36	Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.	Public Services, Public Safety	Ongoing		X			
MH #1-37	The Public Safety Department website has information about disaster preparedness and related links. The plan is to expand and update the website as needed and as appropriate in a timely manner to benefit all County residents.	Public Safety	1 year		X			
MH #1-38	Update the county website to provide additional hazard related	Carson Public Safety	1 year		X			

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				Protect Life and Property	Public Awareness	Natural Systems	Partnerships and Implementation	Emergency Services
	information that is easily accessible.							
MH #1-39	Involve private businesses throughout the county in mitigation planning.	Carson Public Safety	7 years		X			
MH #1-40	Identify, improve, and sustain collaborative programs focusing on the real estate and insurance industries, public and private sector organizations, and individuals to avoid activity that increases risk to natural hazards.	Planning	7 years		X			
MH #1-41	Provide schools with seasonal disaster preparedness literature for students to take home to their families.	City, Public Services, Public Safety	1 year		X			
MH #1-42	Distribute preparedness literature, such as FEMA's Emergency Management "Guide for Businesses and Industry" and "Preparing Your	Public Services, Public Safety	1 year				X	

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	Business for the Unthinkable” brochure to the local Chamber of Commerce.							
MH #1-43	Advertise the Public Safety Department website by ensuring its address is printed on all materials and publications.	City, Public Services, Public Safety	Ongoing		X			
MH #1-44	Hold workshops about hazard mitigation and family disaster planning with the boys and girls clubs, scouting organizations, churches, PTA, Red Cross Youth Corps, VOAD, Chamber of Commerce, Rotary, Kiwanis, and Lions Clubs.	City, Public Services, Public Safety	5 years				X	
MH #1-45	Train in-house shelter staff to work as a shelter team with courses including the American Red Cross’s Introduction to Disasters, Shelter Operations, Mass Care and	Public Services, Parks and Recreation	5 years					X

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	Donations Management.							
MH #1-46	Identify and prioritize needs for additional shelter supplies to include but not limited to additional cots, blankets and shelter kits.	Public Services, Parks and Recreation	5 years					X
MH #1-47	Work with the American Red Cross, Board of Education, fire departments and churches towards upgrading all shelter resources.	Public Services, Public Safety	Ongoing				X	
MH #1-48	Develop and deliver the American Red Cross "Together We Prepare" presentation to homeowner associations, Parent Teacher Associations, the Board of Education, Chamber of Commerce's, etc. to educate on shelter in-place procedures.	Public Services, Public Safety	1 year		X			
<b>MH</b>	<b>Develop and deliver information to</b>	<b>Public Services, Public</b>	<b>Ongoing</b>		<b>X</b>			

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#1-49	all county residents, through community groups and/or publications, information on how to shelter in place and when it is appropriate to do so.	Safety						
MH #1-50	Develop and promote a communications plan to recruit and train more volunteers for sheltering assistance.	Public Services, Public Safety	5 years		X			
MH #1-51	Work with the American Red Cross to hold work sessions to share information about local shelters. Information to include the site of each shelter, how many people it can house and feed, if it has back-up power available on site, completed site survey forms and types of resources that they have or that they need. This will benefit all areas of the County in the need to open	Public Services, Parks and Recreation	5 years					X

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				Protect Life and Property	Public Awareness	Natural Systems	Partnerships and Implementation	Emergency Services
	shelters.							
MH #1-52	Conduct annual disaster exercises with local law enforcement, emergency managers, town and county officials, the LEPC and other disaster response agencies.	Public Safety	5 years				X	X
MH #1-53	Incorporate the training goals and objectives used by fire/EMS, law enforcement, public works, healthcare providers and other support personnel into selected hazardous material team training. This will foster the unified command relationship that will serve as the incident management blueprint for all disaster response.	Public Safety	5 years	X			X	X
MH #1-54	Ensure representatives from the Local Mitigation Planning Committee attend Planning Commission and	Public Safety	1 year		X		X	

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	Technical Advisory Board meetings to provide input on development in hazard areas.							
MH #1-55	Teach CERT classes to interested citizens in the County to assist their neighbors during emergencies. This course will be taught throughout the county utilizing the County's paramedics, fire fighters, American Red Cross and law enforcement personnel.	Public Safety	7 years		X		X	
MH #1-56	Form a specialized committee within the LEPC to develop strategies to increase LEPC membership and participation.	Public Services, Public Safety	Ongoing				X	
MH #1-57	Maintain and upgrade the Emergency Operations Center (EOC) at the City Hall. In the event the primary sites must be vacated,	Public Services, Public Safety	Ongoing					

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	the off-site back-up centers can be rapidly mobilized in a secured facility. Both centers will duplicate the primary points of operation.							
MH #1-58	Promote CERT through the Chamber of Commerce and Community Watch to gain business and neighborhood participation.	Public Services, Public Safety, LA County Sheriff and Fire Departments	Ongoing				X	
MH #1-59	Work with current LEPC business and industry members to network within the community to encourage participation and new membership.	Public Services, Public Safety	Ongoing				X	
MH #1-60	Develop strategies for debris management for natural disasters.	Development Services, Public Works	5 years					X
MH #1-61	Coordinate the maintenance of emergency transportation routes with neighboring jurisdictions and CalTrans.	Development Services, Public Works	Ongoing					X
MH #1-62	Determine what kinds of minor repairs and temporary protection	Public Works	7 years	X				X

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	activities (e.g., temporary roofing, protect against loss of life/injury, shoring, protect contents) can be done in the immediate aftermath of a disaster.							
MH #1-63	Enhance response capability of county and municipal fire, police, and emergency medical services personnel to special populations.	Public Safety	7 years	X			X	X
<b>Earthquake Action Items</b>								
EQ #2-1	Integrate earthquake hazard mapping data for Los Angeles County and improve technical analysis of earthquake hazards.		2 years	X			X	
EQ #2-2	Incorporate the Evacuation Routes developed by the Public Works Department into appropriate planning documents.		3 years	X			X	
EQ	Identify funding sources for structural		Ongoing	X	X			

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#2-3	and nonstructural retrofitting of structures that are identified as seismically vulnerable.							
EQ #2-4	Educate public on the California Earthquake Insurance Program.	Hazard Mitigation Working Groups	Ongoing	X	X			
EQ #2-5	Encourage seismic strength evaluations of critical facilities in the City to identify vulnerabilities for mitigation of schools and university, public infrastructure, and critical facilities to meet current seismic standards.	Hazard Mitigation Working Groups	Ongoing	X	X			
EQ #2-6	Encourage reduction of nonstructural and structural earthquake hazards in homes, schools, businesses, and government offices.	Hazard Mitigation Working Groups	Ongoing	X	X			
EQ #2-7	Incorporate the building inventory into the hazard assessment.	EOC/GIS Department	Ongoing					
EQ #2-8	Identify activities for private sector and citizen involvement such as	Public Safety	Ongoing		X			

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	nonstructural seismic daycare retrofits.							
EQ #2-9	Minimize earthquake damage risk by retrofitting critical facilities owned by the City.	City, Public Services	5 years				X	
EQ #2-10	Encourage purchase of earthquake hazard insurance.	Public Safety	7 years		X			
EQ #2-11	Identify funding sources for structural and nonstructural retrofitting of structures that are identified as seismically vulnerable.	Building and Safety	7 years	X				
EQ #2-12	Integrate new earthquake hazard mapping data for the County and improve technical analysis of earthquake hazards.	Carson GIS	5 years				X	
<b>Flood Action Items</b>								
FLD #3-1	Analyze each repetitive flood area within Carson and identify feasible		1-2 years	X			X	

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	mitigation options.							
FLD #3-2	Recommend revisions to requirements for development within the flood-prone areas, where appropriate.	Public Works	1-2 years	X				
FLD #3-3	Develop better flood warning systems.	GIS	1-2 years	X				X
FLD #3-4	Enhance data and mapping for floodplain information within the City and identify and map flood-prone areas outside of designated floodplains.	Planning	3 years (as funding allows)	X				X
FLD #3-5	Identify surface water drainage obstructions for all parts of the City.	Planning, Public Works	5 years	X				
FLD #3-6	Record and maintain all tax parcel information and floodplain locations in a GIS system in order to build the community's capability to generate maps when needed.	City, Information Services, GIS	Ongoing					X

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FLD #3-7	Record all structures within the floodplain, as well as, areas of repetitive losses due to flooding.	Building and Safety					X	
FLD #3-8	Understand the National Flood Insurance Program (NFIP) requirements for new construction and substantially improved buildings;	Carson Public Works	5 years				X	
FLD #3-9	Distribute information on the National Flood Insurance Program to local businesses in or near the floodplain.	City, Public Services, Public Safety	1 year		X			
<b>Windstorm Action Items</b>								
WS #4-1	Develop and implement programs to keep trees from threatening lives, property, and public infrastructure during windstorm events.		2 years				X	X
WS #4-2	Enhance strategies for debris management for windstorm events.		2 years				X	X
WS #4-3	Map and publicize locations around the city that have the highest		5 years	X	X		X	

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	incidence of extreme windstorms.							
WS #4-4	Support/encourage electrical utilities to use underground construction methods where possible to reduce power outages from windstorms.		5 years			X	X	
WS #4-5	Increase public awareness of windstorm mitigation activities.		Ongoing	X	X			
WS #4-6	Develop and implement programs to keep trees from threatening lives, property, and public infrastructure during windstorm events.	Carson Public Works	5 years	X				