

Goal #3: Enhance training, education, and outreach efforts focusing on the effects of hazards, importance of mitigation, and ways to increase resiliency.

Mitigation Action	Hazard(s) Addressed	Priority	Category	Associated Goal	Estimated Cost	Potential/Current Funding Sources	Lead Agency or Department Resources	Implementation Schedule	Implementation Status	Milestones Achieved, Impediments to Implementation	Status in 2018 Plan
Develop education and outreach program addressing earthquake hazards	Earthquake	Moderate	Public Information and Awareness	3	\$100,000	Pre Disaster Mitigation, Hazard Mitigation Grant Program, FEMA – Emergency Management Performance Grant, Mitigation Assistance Program, Citizen Corps, FEMA and Red Cross materials free of charge	SC EMD	2007 - 1st edition began	Funding obtained from EMPG and HMGP. Research and facilitation of development to begin in late 2012. Design Phase in early 2013. Bids for publishing in late 2013 and distribution in early 2014.	Development, design, edit, and all facilitation will be done by contractors.	Ongoing
The development and implementation of a Statewide Public Awareness Expo held prior to Hurricane Season. Provide a series of workshops geared toward the education and awareness	Hurricane, high-wind storms and other natural disasters	High	Life Safety and Property Protection	3	\$150,000	HMGP, PDM, and other funding sources to include private and corporate sponsorships.	Department of Insurance	8-2009-Expo and Training Session took place in Charleston, SC. 3-2010-a CE Day was held in Myrtle Beach, SC. The DOI will participate in local community awareness activities throughout	Ongoing	2009 – The DOI participated with organizations to host the first Expo and Training Session. 2010- the DOI partnered with the Independent Agents and Brokers of SC and The Coastal	Ongoing

<p>of citizens in SC regarding the need for preparedness and mitigation measures that can be implemented to strengthen and protect their families and properties against natural disasters.</p>								<p>2010. April-June 2012 insurance policy review workshops were held to enhance public awareness of hazards and disaster preparedness.</p>		<p>Carolina Realtors Association to host a CE Day for industry professionals highlighting the incentives set forth by H.3820. 2012 – policy review workshops were conducted statewide. A statewide communication strategy was implemented which included a 30 sec public service announcement entitled, <i>Got It Covered?</i> that continues to air statewide. The PSA campaign has been enhanced with the addition of a state-wide</p>	
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										billboard campaign in which more than 250 billboards have been placed throughout the state again carrying the same message, asking consumers if they are covered through their insurance policy for the natural disasters that may impact their home and lives.	
Conserve water of specific state parks through construction of rainwater catch basins and implementation of visitor education practices	Wildfire	Moderate	Structural Projects/Public Awareness	3		Cost sharing grants, existing operating budget	South Carolina Parks, Recreation, and Tourism	As approved and ongoing	ongoing	approaching wildfires as well as the evacuation of park visitors. Fire breaks and controlled burns need to be funded to hold down the devastation of wildfires.	New

Post Disaster Coastal Workshops	Hurricane, Coastal Flood, Coastal Drought	Moderate	Public Education and Awareness	3	\$7,500		S.C. Sea Grant Consortium	As Needed	In the wake of a hazard event, S.C. Sea Grant's extension program will convene up to three workshops in affected coastal communities to educate stakeholders and residents about the extent of the disaster, recovery status, and mitigation actions to reduce damages from the next similar hazard event.	Workshop funding will need to be secured for speaker and participant travel. Workshop timing will depend on speaker availability in the wake of hazard events. 2018 - Ongoing	Ongoing
New coastal storm surge model	Flood, Hurricane, Nor'easter	High	Public Information and Awareness	3	\$2,000,000	FEMA Cooperating Technical Partners Program	Department of Natural Resources - Flood Mitigation Program	Complete	Funded through cooperating technical partners grant. As part of the Map Modernization Program DNR and their contracts are conducting a statewide	2017 - The project is complete and only one county is remaining to receive preliminary Flood Insurance Rate Maps.	

									storm surge analysis to provide better Flood Insurance Rate Maps.		
Continue training and coordination activities with the campus emergency operations team	All Hazards	Moderate	Prevention, Property Protection, Emergency Services, Public Information	3	Staff time and resources	General Fund	College of Charleston	Dependant on funding	Dependant on funding	Campus wide coordination and preparation for all emergency management activities; protect the lives of our employees and students from natural and man-made hazards. 2018 - Ongoing	Ongoing
Participation in Project Impact with the purpose of improving education on Hazards to the college and community	All Hazards	High	Prevention	3	Staff time and resources	General Fund	College of Charleston	Dependant on funding	Dependant on funding	Protect the lives of our citizens from natural and man-made hazards; educating citizens regarding steps to take to reduce vulnerabilities;	Ongoing

										improve hazard resistance of infrastructure; reduce vulnerability of our infrastructure to natural and man-made hazards. 2018 - Ongoing	
Continue support of the new campus sustainability program at the College	All Hazards	High	Natural and Beneficial Functions/Resource Preservation Activities	3	\$25,000	General Fund, Grant Funding	College of Charleston	Dependant on funding	Dependant on funding	Environmental, resiliency, outreach and education programs. 2018 - Ongoing	Ongoing
Continue hazardous material training	Hazard Materials	High	Emergency Services	3	Staff time and resources	General Fund	College of Charleston	Dependant on funding	Dependant on funding	Protecting lives employees and students from man-made hazards; minimize future hazardous materials incidents; preserve environmental resources; improve hazard resistance of infrastructure; assessing	Ongoing

										vulnerability to man-made hazards. 2018 - Ongoing	
Continue working to attain resources and to provide training for campus community on hurricane, earthquake and other natural hazards in the region	All Hazards	High	Emergency Services	3	Staff time and resources	General Fund	College of Charleston	Dependant on funding	Dependant on funding	Protecting the lives of employees and students from natural and man-made hazards; minimize future hazardous materials incidents; promote long-term resiliency of the college. 2018 - Ongoing	Ongoing
Establish a standard notification system to alert and train all K-12 school students regarding appropriate preparedness and response procedures.	All Hazards	High	Emergency Services	3	\$50,000.00	Pre Disaster Mitigation, Hazard Mitigation Grant Program, FEMA – Emergency Management Performance Grants	Department of Education	Dependant on funding	Dependant on funding	2012- Districts are not required to implement a standard notification system to alert and train students.	Ongoing
Provide training to school (teachers and bus drivers) and Department	All Hazards	High	Public Information and Awareness	3	\$25,000.00	Pre Disaster Mitigation, Hazard Mitigation Assistance Program (projects, technical assistance), FEMA – Emergency Management Performance Grants	Department of Education	Dependant on funding	Dependant on funding	2010 - A total of 14 school districts in South Carolina have	Ongoing

t staff on methods to avoid or manage the impacts of hazards.										received the Emergency Response and Crisis Management Grants since 2003. This grant includes district training to faculty, staff and teachers on emergency management procedures. 2018 - Ongoing	
Conduct vulnerability assessment of all school bus facilities. Findings should be used to educate school staff on appropriate prevention and mitigation measures.	All Hazards	Moderate	Prevention	3	None entered	Pre Disaster Mitigation, Hazard Mitigation Grant Program	Department of Education	Dependant on funding	Dependant on funding	Dependant on funding. 2018 - Ongoing	Ongoing
Develop training program for local school facility staff, including	All Hazards	Moderate	Public Information and Awareness	3	\$5,000.00	Pre-Disaster Mitigation, Hazard Mitigation Grant Program, FEMA – All Hazards Emergency Operational Planning, Citizen Corps	Department of Education	Dependant on funding	Many districts do provide this training and do have response plans.	Each district has access to the Department of Education's model safe	Ongoing

hazard-related impacts and how to prepare for, respond to, mitigate against and recover from disasters.										school checklist on the Safe and Drug-Free School's website. 2018 - Ongoing	
Provide an engineer's evaluation of school facilities that are designated for use as shelters. Provide upgrades to the construction to ensure the survivability of these structures.	All Hazards	High	Structural Projects	3	None entered	Hazard Mitigation Grant Program, Emergency Management Performance Grant, FEMA – All Hazards Emergency Operational Planning	Department of Education	Dependant on funding	Dependant on funding.	Dependant on funding. 2018 - Ongoing	Ongoing
Develop public information evacuation website.	Hurricane	Moderate	Public Information and Awareness	3	\$100,000	Pre Disaster Mitigation, Hazard Mitigation Grant Program, FEMA – Emergency Management Performance Grant, Citizen Corps	SC EMD	Dependent upon funding	No update provided	2018 - Ongoing	Ongoing
Perform workshops/ Seminars that spread dam safety information and education to the public and other government agencies.	Dam Failure	High	Public Education and Awareness	3	\$8,500	FEMA Non-Disaster Grant Funding and State Matching Money	DHEC – Dams and Reservoirs Safety Program	Immediate/ ongoing	Dependant on funding	The Dams and Reservoirs Safety Program is understaffed and tasked with many different core functions. This	Ongoing

										creates an environment where time isn't available to offer workshops and seminars.	
Establish appropriate flood hazards, wind hazards, and signage for the University of South Carolina Campus.	Flood	High	Public Information and Awareness	3	\$25,000	HMA grants, Economic Development Administration, PA, EMPG, SBA	University of South Carolina	Install warning signs in each of the flood prone areas on campus	3/23/1900 5:00:00 PM City of Columbia installed 2 warning signs for 1 flood prone area. Funding is needed to continue implementation of this action. Once funding for the action is received, implementation will begin.	3/23/1900 5:00:00 PM City of Columbia installed 2 warning signs for 1 flood prone area. Funding is needed to install additional signage.	Ongoing
SC LIDAR project, phase I, II, and III	Hurricane, flood, landslide, earthquake, sea level rise and climate change	High	Prevention	3	Phase I - \$3,800,000; Phase II - \$2,150,000; Phase III - \$3,850,000	FEMA, Flood Map Modernization, US Army Corps of Engineers, US Forest Service, US Fish and Wildlife Service, US Geological Survey, US Dept. of Agriculture, US Dept. of Energy, SC Dept. of Natural Resources, SC Dept. of Health and Environmental Control, SC Dept. of Parks, Recreation and Tourism, SC Dept. of Transportation, and others in the SC LIDAR Consortium, Pre-disaster Hazard Mitigation Grant, Hazard Mitigation Grant	Department of Natural Resources	January 1, 2007 through February 28, 2009 (Phase I) January 1, 2009 through December 2010 (Phase II & III)	2008 - Phase I included the collection and processing of LIDAR data for 18 counties. Phase II will complete 11 more counties. Phase III	2017 - Completed	Ongoing

									will complete the remaining counties of SC. PHASE II AND III REQUIRE ADDITIONAL FUNDING.		
Host annual Hazard Mitigation Conference	All Hazards	High	Public Information and Awareness	3	\$30,000	PDM, HMGP, FMAP (technical assistance), FEMA-EMPG, FEMA-All Hazards Emergency Operational Planning	South Carolina Association of Hazard Mitigation	Occurs yearly	Ongoing	2011/2012 – The 2011 annual had 250 attendees. The conference was a joint conference with the SC Assoc. of Hazard Mitigation, and the NC Assoc. of Floodplain Managers held in Charleston, SC. Topics covered such as map modernization, building inspections after disaster events, updating hazard mitigation plans, and mitigation strategies for coastal	Ongoing

										areas. 2018 - Ongoing	
Develop brochure addressing the costs of hazards and the benefits of mitigation.	All Hazards	Moderate	Public Information and Awareness	3	None entered	Pre Disaster Mitigation, Hazard Mitigation Grant Program, post-disaster assistance via the FEMA Hazard Mitigation Technical Assistance Program, Flood Mitigation Assistance Program (technical assistance)	SC EMD	Ongoing	Ongoing	SCEMD website modifications address some mitigation issues but more focus analysis is needed to develop a comprehensive education and outreach program. Additional funding will be needed to research, design, edit, and publish information. 2018 - Ongoing	Ongoing
Conduct at least one training course each year to discuss hazard related topics including mitigation	All Hazards	Moderate	Public Information and Awareness	3	\$400 annually	South Carolina Association for Hazard Mitigation revenues, PDM, HMGP, FMAP (technical assistance), FEMA- EMPG, FEMA- All Hazards Emergency Operational Planning	South Carolina Association of Hazard Mitigation	Ongoing	Ongoing	2011/2012 – SCAHM offered the Certified Floodplain Managers (CFM) Refresher Course in March 2012, which was attended by 25 students.	Ongoing

										SCAHM and SCDNR provides instructors for the course. 2018 - Ongoing	
Encourage participation of local governments in the National Flood Insurance Program and the Community Rating System.	Flood	Moderate	Prevention, Public Information and Awareness	3	Staff time and resources	Community Assistance Program-State Support Services Element grant	Department of Natural Resources - Flood Mitigation Program	Ongoing	Ongoing. DNR staff continue to work with communities to join the NFIP, CRS and improve their CRS rating.	2017 - Two hundred thirty-five (235) communities participate in the NFIP in SC. Also, Forty-two (42) communities participate in the CRS program. SC Community activities currently generate over \$25 million in premium discounts for SC NFIP policy holders.	Ongoing
Develop annually published hurricane awareness newspaper insert.	Hurricane	High	Public Information and Awareness	3	\$100,000 for 750,000 copies in English and Spanish; \$200,000 for 1,500,000 copies in English and Spanish	Pre Disaster Mitigation, Hazard Mitigation Grant Program, FEMA – Emergency Management Performance Grant, Citizen Corps, FEMA and Red Cross materials free of charge	SC EMD	On-going	On-going	Published annually as an insert through major newspapers and additional copies continually requested through	Ongoing

										SCEMD public information. Also available free of charge on the SCEMD website.	
Inform high risk communities of practices to implement Firewise principles.	Wildfire	High	Public Information and Awareness	3	Staff time and resources	Pre Disaster Mitigation, Hazard Mitigation Grant Program, FEMA – Emergency Management Performance Grant, National Fire Protection grants, Department of Homeland Security – Assistance to Firefighters Grants	Forestry Commission	Ongoing as funds allow	Ongoing	2013 - Completed - Plans are completed and being delivered to fire chiefs and interested homeowner associations. Utilize National Fire Plan grant funds to conduct assessments and develop Community Wildfire Protection Plans.	Ongoing
Conduct cross training or interagency training with fire departments on smoke mitigation and mop-up following wildfires along highways.	Wildfire	Low	Public Information and Awareness	3	\$460,000	Emergency Management Performance Grant, National Fire Protection grants, Department of Homeland Security – Assistance to Firefighters Grants	Forestry Commission	Ongoing as funds allow	In process and ongoing	2013 - Are coordinating efforts for interagency, CTCC region-based All-hazard IMTs (utilizing grant funds from DHS and NFP). Have	Ongoing

										instructed rural firemen in S-130, S-190, S-215 and made courses available on-line to increase training capacity. 2018 - Ongoing	
Conduct two Wildland Urban Interface (WUI) training sessions per county to fire department personnel working in the Wildland Urban Interface.	Wildfire	Moderate	Public Information and Awareness	3	\$920,000	Emergency Management Performance Grant, National Fire Protection grants, Department of Homeland Security – Assistance to Firefighters Grants	Forestry Commission	Ongoing as funds allow	In process	2010 - Have done 60 workshops statewide with more than 2,500 attending. Plans are underway for additional workshops to target communities with highest risk. Utilize National Fire Plan grant funds. 2018 - Ongoing	Ongoing

<p>Local training and outreach on Hazard Mitigation Planning Process. Establish a consistent program for localities to learn the hazard mitigation planning process using both FEMA and SCEMD standards. Make available to local jurisdictions information about programs and funding mechanisms that may support mitigation projects. Foster local Pre-Disaster Mitigation planning. Assist in identifying existing and potential mitigation projects; increase Public</p>	<p>All Hazards</p>	<p>High</p>	<p>Planning</p>	<p>3</p>	<p>\$150,000 - \$300,000</p>	<p>FEMA-Emergency Operational Planning, Hazard Mitigation Grant Program, Pre Disaster Mitigation, Emergency Management Performance Grant, Homeland Security Grants, State Funding</p>	<p>SC EMD</p>	<p>Time span 3-5 years</p>	<p>Dependent on funding</p>	<p>Staff time and resources. 2018 - Ongoing</p>	<p>Ongoing</p>
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Education and Awareness of Hazards and Mitigation.											
Cut down large trees that if toppled over by high winds, will destroy DMV Branch offices	Flood, Hurricane, Tornadoes	High	Property Protection, Continued Services	3	\$134,000 (estimated at \$1,000 per tree for 134 trees, across 23 facilities statewide)	FEMA, Emergency Operational Planning, PDM, HMGP, EMPG, Homeland Security Grants, State Funding	Department of Motor Vehicles, Max Parmisani, Mobile (803) 429-0365, Office (803) 896-9891	Upon funding, solicitations will begin for immediate implementation	Dependent on funding	Dependent on funding, but goal is to remediate trees that pose a fall hazard the will destroy or partially destroy facilities during natural disaster type conditions	New