

## Group 1

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<b>Goal 1 - Protect lives, property, environmental quality, and resources of the Commonwealth, including RL and SRL properties.</b>					
<i>Objective 1-1: By 2016, reduce flood-related losses (with an emphasis on reducing repetitive loss and severe repetitive loss properties by 5%) through promotion of the Commonwealth's flood protection program through county, state, and federal partners.</i>					
<i>Action 1-1a.</i> Support new state-funded flood protection and prevention projects.	Flood	Pennsylvania Emergency Management Agency (PEMA); Department of Environmental Protection (DEP); Department of General Services (DGS)	Jul-16	Secure funding for at least four new state-funded flood protection/prevention projects, one of which should focus on flood fighting supplies and training.	<ul style="list-style-type: none"> <li>Define the process between communicating and triggering state support for flood projects</li> <li>DEP hosts annual workshops to educate municipalities</li> </ul>
<i>Action 1-1b.</i> Support the maintenance of existing flood protection projects and construction.	Flood	DEP; Department Of Community And Economic Development (DCED); DGS; USACE; USDA; NRCS; Local Communities	July 2016; Ongoing	Ensure existing flood protection projects are being operated and maintained to ensure a state of readiness.	<ul style="list-style-type: none"> <li>Define flood protection projects (e.g. dams and levees)?</li> <li>Over 100 projects have been carried out</li> </ul>
				Provide annual workshops for Project Sponsors to discuss maintenance tips and latest technology.	<ul style="list-style-type: none"> <li>Show progress of Flood-proofing Workshops</li> </ul>
<i>Action 1-1c.</i> Provide non-federal match to project sponsors for FEMA Hazard Mitigation Assistance, NRCS, USACE and other federal funding sources.	Flood	Governor's Office	Jul-16	Allocate FY 2014 funds for the non-federal match for the projects listed in Action 1-1a.	<ul style="list-style-type: none"> <li>Update fiscal year</li> <li>Ask DEP legislative liaison</li> <li>Potential new action: cost-sharing for projects</li> </ul>

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<i>Action 1-1d.</i> Participate in discussions about potential solutions/policy changes regarding farmland flooding due to stream impediments.	Flood	DCED; PEMA; USDA; PDA	Dec-16	Determine feasibility of developing supporting legislation.	<ul style="list-style-type: none"> <li>• USDA Emergency Watershed program, cleaned up streams and reduced flooding risk near improved properties, cropland was excluded</li> <li>• Cropland needs to be included</li> <li>• Agencies: USDA, PDA, RMA, Farm Service Agency, Penn State Ext Office, Farm Bureau</li> <li>• Ag doesn't seem to be assessed for damage, new action? We don't know impact of flooding on farms and PDA can't get reports</li> </ul>
<i>Action 1-1e.</i> Support criteria to prioritize communities with severe repetitive and repetitive loss properties for available mitigation grant funding.	Flood	Counties; PEMA; DCED	Dec-16	Document project ranking and prioritization criteria including RL and SRL prioritization criteria and by December 2013.	<ul style="list-style-type: none"> <li>• Done, Tom has details</li> </ul>
<i>Action 1-1f.</i> Target SRL and RL properties for mitigation including demolition, acquisition and elevation, through HMA funding through prioritization during annual HMA project review and prioritization process.	Flood	PEMA; Counties; DCED	Dec-14	<p>Mitigate five or more SRL properties per year.</p> <p>Use the list of 'shovel ready' projects from recent DRs to facilitate mitigation project application process for future funding opportunities.</p>	<ul style="list-style-type: none"> <li>• Done, Tom has details</li> </ul>
<i>Action 1-1g.</i> Incorporate prioritizing of SRL and RL property mitigation into the PEMA-HM strategy and the Administrative Plan post-flood-related disaster.	Flood	PEMA; FEMA; DCED	1 year after a flood-related disaster	Support the development of five or more SRL properties mitigation applications per flood-related-disaster.	<ul style="list-style-type: none"> <li>• Done, Tom has details</li> </ul>

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<i>Action 1-1h.</i> Include the targeting of SRL and RL structures for mitigation in the mitigation strategies section of multi-jurisdictional or county §322 plan with SRL or RL properties.	Flood	PEMA; DCED	June 2014; Ongoing	Ensure that each multi-jurisdictional or county planning committee is aware and is implementing this requirement for all RL/SRL properties by March 31, 2014.	<ul style="list-style-type: none"> <li>Completed, in Mitigation Action Plan</li> <li>Should be included in all county §322 plans</li> <li>However, often references to structures is very vague in these plans.</li> <li>Should be included in SOG</li> </ul>
<ul style="list-style-type: none"> <li><i>Objective 1-2: Increase by 5% the number of projects implemented by the Commonwealth that will mitigate the most vulnerable structures against hazards by 2016.</i></li> </ul>					
<i>Action 1-2a.</i> Re-evaluate state GIS database to ensure datasets include hazard mitigation, planning and critical asset identification to enable the prioritization of mitigation projects.	All Hazards	PEMA; Counties	Annually	Identify all of the exact databases, and owners of those databases, to be evaluated by February of each year.	<ul style="list-style-type: none"> <li>5% increase was completed</li> <li>Contact PEMA representative for GIS committee</li> <li>Potential LiDAR project</li> <li>State needs to be able to share sensitive information between agencies, better coordination</li> <li>Feds also cannot share sensitive information</li> <li>Can state agency representatives be credentialed to access Fed data?</li> </ul>
				Use the results of the survey by PENNHAZUS/ FEMA Region III to determine improvements to risk assessment based on County GIS capability.	<ul style="list-style-type: none"> <li>Sensitive information policies are a huge obstacle</li> </ul>
<i>Action 1-2b.</i> Maximize use of FEMA HMA grant and other programs to support all-hazard mitigation as well as acquisition/ demolition, elevation and relocation of flood-prone residences along with flood-proofing of non-residential structures.	Flood, All Natural Hazards	PEMA; Local jurisdictions	Dec-16	Identify at least 100 structures to be acquired/ demolished/ elevated/ relocated with FEMA HMA grant support by January 2015.	<ul style="list-style-type: none"> <li>Completed, 100 structures done</li> <li>Using CDBG-DR, HMGP money</li> <li>Look into Rural Development funds</li> </ul>

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Action 1-2c. Identify section 406 projects and increase 404 funding	All Hazards	PEMA	December 2016; Ongoing	Added in annual review	<ul style="list-style-type: none"> <li>• Change wording, “404 available”</li> <li>• Need help from counties</li> </ul>
<ul style="list-style-type: none"> <li>• <i>Objective 1-3: Identify and work toward implementation of 5 feasible and cost-effective projects related to the mitigation of critical buildings, state facilities, and infrastructure.</i></li> </ul>					
<i>Action 1-3a.</i> Define “critical facilities” in terms of mitigation.	All Hazards	PEMA, OHS	January 2016; Ongoing	Update Standard Operating Guidance with statewide critical facilities definition information.	<ul style="list-style-type: none"> <li>• Feds identify tier 1 and 2, states identify 3 and state critical infrastructure , county identify 4</li> <li>• Should be critical “infrastructure”</li> <li>• Need to contact OHS</li> </ul>
<i>Action 1-3b.</i> Review state practices for floodplain management and consider appropriate opportunities to address multiple hazards and to encourage mitigation of state-owned or regulated facilities through a similar mechanism.	All Hazards	DGS; Office of Administration (OA)	Dec-16	Build on DGS policy to not build in floodplain, by promoting opportunities to address 2 more hazards in a state-wide policy by 2016.	<ul style="list-style-type: none"> <li>• Should be build “or rent”, new policy implemented</li> <li>• Should have continuity of operations plan, assess risk to build, where relocate employees</li> <li>• Agencies should have risk assessments for primary and secondary facilities as part of their COP plans</li> </ul>
<i>Action 1-3c.</i> Encourage mitigation of private sector infrastructure through technical assistance, education, demonstrations, etc.	All Hazards	PEMA; DL&I; DCED; OHS; DHS; PSP; State Police; COC’s	Jan-16	Coordinate with five local COC’s to bridge information.	<ul style="list-style-type: none"> <li>• COC=Chamber of Commerce, should be specified to avoid confusion</li> <li>• PEMA tried, has been hit and miss</li> <li>• Maybe provide guidance to EMA to work with COC and provide information to them?</li> </ul>

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<i>Action 1-3d.</i> Leverage support of the nine Regional Task forces to support critical infrastructure mitigation.	All Hazards	PEMA; Regional Tasks Forces	Jan-16	Complete 1 project through each task force before the 2016 plan update.	<ul style="list-style-type: none"> <li>Counties have to apply for funding. Task forces are not able.</li> <li>Should we remove this action?</li> <li>Discuss/define what critical infrastructure is</li> </ul>
<i>Action 1-3e.</i> Continue to use and improve GIS capability to prioritize hazard/critical infrastructure for mitigation.	All Hazards	PEMA; GOHS/PSP; DGS (CC note: GOHS/PSP are in charge of the critical infrastructure list. DGS is in charge of any state facilities that are also CI. May want to add as other agencies	Dec-16	Assign mitigation priorities to critical infrastructure by December 2016.	<ul style="list-style-type: none"> <li>State agencies already have criteria for critical infrastructure priorities</li> <li>Can provide to county level</li> <li>Counties with more critical infrastructure can get more DHS funding</li> </ul>
<i>Action 1-3f.</i> Continue to support LiDAR data development initiative.	Flood	PEMA; Department of Conservation and Natural Resources (DCNR)	Ongoing	Determine if any of the counties that underwent LiDAR data development will go through the RiskMAP process and if other counties should be prioritized for LiDAR development moving forward.	<ul style="list-style-type: none"> <li>LiDAR projects in the works</li> <li>Improve coordination with FEMA/ACOE, allow state more input on where risk mapping is done</li> <li>Prioritization and Improve watershed discovery</li> <li>Information sharing could make the process more efficient</li> </ul>
<i>Action 1-3g.</i> Identify insurable state owned flood-prone buildings and appropriate mitigation methods if located in the special flood hazard area (SFHA).	Flood	DGS; DCED	Dec-16	Continue to coordinate with DGS to see progress of DGS database for use in SSAHMP work.	<ul style="list-style-type: none"> <li>Work in progress</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 1-3h.</i> Evaluate state-owned structures for mitigation options for non-flood related high-priority hazards.	All Hazards	PEMA; Identified state agencies	Dec-16	Identify all state-owned structures vulnerable to high priority hazards by December 2016.	<ul style="list-style-type: none"> <li>• Facility workshop with agency facility managers?</li> <li>• Need to work with other agencies need look at non-DGS state owned buildings</li> <li>• Bring in Building EMI</li> </ul>
<i>Action 1-3i.</i> Provide emergency electrical backup generation to key state, county, and municipal critical facilities.	All Hazards	PEMA, FEMA	July 2016; Ongoing	Identify and prioritize key facilities including critical gas stations by December 2013.	<ul style="list-style-type: none"> <li>• 2 page survey developed for evaluation for generator needs</li> <li>• State contacted counties about generator fuel needs, heard back from ~20 counties</li> <li>• Educate counties on their needs</li> </ul>
				Submit 5 relative projects by 2014.	
<i>Action 1-3j.</i> Add internet interruption to the list of reportable incidences in PIERS and Knowledge Center.	Utility interruption	PEMA, counties	Fall 2014	Data tracking in place for utility interruption incidences that can be used for HM planning.	<ul style="list-style-type: none"> <li>• Change PIERS to current system</li> <li>• Internet interruption falls under Denial of Service incident</li> <li>• Does an outage get reported like electrical outage is?</li> </ul>
<ul style="list-style-type: none"> <li>• <i>Objective 1-4: Identify projects related to advanced warning within the Commonwealth by 2016.</i></li> </ul>					
<i>Action 1-4a.</i> Support the sustainment and enhancement of Commonwealth fusion centers.	Terrorism, Civil Disturbance	PEMA; Pennsylvania State Police; OHS	Dec-16	Identify the resources that would need to be acquired to sustain fusion centers by January 2014.	<ul style="list-style-type: none"> <li>• This has happened</li> </ul>
<i>Action 1-4b.</i> Promote reverse notification systems in high-hazard areas.	All Hazards	Counties	Jun-16	Identify and catalog success stories of jurisdictions utilizing reverse notification system by June 2014.	<ul style="list-style-type: none"> <li>• Reverse 911, central region has developed it and counties can use it</li> <li>• Contact PEMA 911 about what counties/regions are equipped with this system</li> </ul>

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<i>Action 1-4c.</i> Increase participation in Emergency Alert System.	All Hazards	OA, OPS & PIO	Jun-16	Increase participation by 50% between 2013 and 2016.	<ul style="list-style-type: none"> <li>PEMA can initiate emergency alerts from its HQ if counties cannot</li> <li>Counties have improved their system</li> <li>OA administers alters</li> </ul>
<i>Action 1-4d.</i> Establish Water Monitoring Council Action to improve stream gauge coordination in Commonwealth.	Flooding	USGS; River Basin Commissions; PEMA; DEP; NWS; USACE; Water Authorities; Municipalities; FEMA	Jul-16	Council established and met by 2016.	<ul style="list-style-type: none"> <li>No council has been established</li> <li>USGS has been pulling out gauges, gauge systems been taking step back in state</li> <li>Talk of funding BU Columbia County gauges in Fishing Creek and Little Fishing Creek</li> <li>Should be water gauge working group</li> </ul>
<i>Action 1-4e.</i> Complete flood inundation mapping, like completed for Harrisburg, for additional high risk and high population centers.	Flooding	SJ Initiative including USGS; USACE; NWS; PEMA; River Basin Commissions; FEMA	Jul-16	Complete one flood inundation mapping project and related outreach per year based on funding availability.	<ul style="list-style-type: none"> <li>Working on 100 miles of the Susquehanna River, should be completed next year</li> </ul>
Action 1-4f. Develop Risk profile, capability analysis and mitigation actions for new hazards of cyber attack and animal disease	Cyber, animal disease	PEMA	Oct-16	Complete FEMA standard additions to Risk, Capabilities and Mitigation Strategy portions of the plan	<ul style="list-style-type: none"> <li>Should split cyber-attacks and animal disease into different actions</li> <li>Generally automated systems hardened and/or removed for operating water and wastewater treatment plants</li> <li>Food and Feed Working Group been working on animal disease issues</li> <li>Avian Flu has been serious issue, PA also has large facility for making the flu vaccines</li> <li>Generally add more agricultural hazards and concerns</li> </ul>
<ul style="list-style-type: none"> <li><i>Objective 1-5: By 2020, minimize risk to communities posed by levee structures by increasing compliance of all levees with National Levee Safety Program standard, focusing on planning and certification.</i></li> </ul>					

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 1-5a.</i> Re-examine impacts of federal levee guidance and identify necessary actions.	Flood; Levee Failure	DEP; DCNR; USACE; FEMA	Continuous	Continue to work with the USACE to implement the National Levee Safety Program and refine an inventory of all levees in the Commonwealth.	<ul style="list-style-type: none"> <li>• Doug from DEP will follow up on this</li> <li>• Program is there but funding is not</li> <li>• Dams all have EAP, levees are not required</li> <li>• Guidance document is done, but it's voluntary and participation has not been great</li> </ul>
<i>Action 1-5b.</i> Support non-state and non-federal levee owners, identified in the National Levee Inventory, with information on compliance with the National Levee Safety Program and appropriate funding streams.	Flood; Levee Failure	USACE; FEMA	Dec-16	By 2013, USACE has performed outreach activities with 50% of levee owners.	<ul style="list-style-type: none"> <li>• Follow-up in Silver Jackets Meeting</li> <li>• PEMA does not have access to levee inventory</li> <li>• DEP does? Who else does?</li> </ul>
<i>Action 1-5c.</i> Develop emergency action plan guidelines for flood protection projects to assist project sponsors with developing project specific EAPs including inundation maps.	Flood; Levee Failure	DEP; USACE; PEMA; levee owners; County EMAs	Dec-14	Scheduled for completion in December 2014.	<ul style="list-style-type: none"> <li>• -DEP working on it</li> </ul>
<i>Action 1-5d.</i> Identify and work with local sponsors of state levee systems, given an unacceptable or minimally acceptable rating, to bring them back up to acceptable rating.	Flood; Levee Failure	DEP; DCED; USACE	July 2016, Ongoing	Explore funding opportunities to provide support levee project improvements.	<ul style="list-style-type: none"> <li>• For funding, been sending applicants to Flood Mitigation Grant program</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 1-5e.</i> Encourage local, state, and federal levee system sponsors to develop Emergency Action Plans.	Flood; Levee Failure	USACE; DEP; Counties; Local Municipalities	Dec-13	Obtain Emergency Action Plans for 50% of state levee systems by December 2015.	<ul style="list-style-type: none"> <li>• Need more participation</li> </ul>
<ul style="list-style-type: none"> <li>• <i>Objective 1-6: By 2016, provide outreach and training opportunities for local building code enforcers by 500 individuals within the Commonwealth.</i></li> </ul>					
<i>Action 1-6a.</i> Develop and deliver a workshop on building code implementation.	All Hazards	DCED; FEMA Region III	Dec-15	Provide six workshops statewide by December 2016.	<ul style="list-style-type: none"> <li>• This did not happen</li> <li>• Do have Pennsylvania Construction Codes Academy, but does directly fulfill this. Just know putting training contract in place.</li> <li>• Group members will follow up with numbers</li> </ul>
<i>Action 1-6b.</i> Provide briefings to code association and county officials on damage assessment expectations following a disaster.	All Hazards	PEMA; DCED; FEMA Region III	Ongoing	Determine code officials “plug-in” and existing training opportunities.	<ul style="list-style-type: none"> <li>• BMP course on damage assessment and methodologies</li> <li>• Have training that inspectors would get credit for from Building Code Association</li> <li>• New training contract with PABC could be vehicle</li> </ul>
<i>Action 1-6c.</i> Invite the following groups to outreach meetings related to building resiliency and mitigation of structures: PA Association of Building Code Officials, PA Association of Code Officials and Council of Government organizations (COG).	All Hazards	PEMA; DCED	December 2016; Ongoing	Bridge the Silver Jackets with Codes Academy.	<ul style="list-style-type: none"> <li>• Could implement seminar or webinar with these groups</li> </ul>
<ul style="list-style-type: none"> <li>• <i>Objective 1-7: Increase coordination, prioritization, and funding availability to address community needs for dam hazards with special emphasis on inundation zone evaluation by 2016.</i></li> </ul>					

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<i>Action 1-7a.</i> Build on Silver Jackets initiative and on DEP's initiative to require dam owners to complete a dam break analysis and map inundation areas for dams of high hazard potential.	Flood, Dam Failure	DEP;PEMA;	Dec-15	Host meeting by May 2014. Ensure that 95% of high hazard dams have completed a dam break analysis in order to develop a digital inundation map by December 2015.	<ul style="list-style-type: none"> <li>Inundation mapping for at least 95% of all high hazard dams has been completed, not all digitized-work in progress</li> </ul>
<i>Action 1-7b.</i> Identify and implement mitigation actions based on Silver Jacket meeting results.	Flood, Dam Failure	PEMA; DEP; USACE	December 2016; Ongoing	Conduct capability assessment of departments and agencies that can assist with mitigation implementation by December 2016.	<ul style="list-style-type: none"> <li>Implemented sirens and notification warning system for DCNR dam, affected two counties, Cameron and</li> <li>Doug (DEP) has number for other mitigation actions</li> <li>State agencies send members to FEMA dam safety and preparedness training course</li> </ul>
<i>Action 1-7c.</i> Evaluate and enforce appropriate remediation of dams.	Flood, Dam Failure	DEP	December 2016; Ongoing	Identify applicable dams and enforce and assist with remediation.	<ul style="list-style-type: none"> <li>Doug (DEP) will follow up with in-depth info</li> </ul>
<i>Action 1-7d.</i> Ensure that all high hazard dams to have an Emergency Action Plan as required.	Flood, Dam Failure	DEP, PEMA	Dec-16	Obtain PEMA and DEP approved Emergency Action Plans for 95% of high hazard dams by December 2015.	<ul style="list-style-type: none"> <li>Good progress made on this, more info to follow</li> </ul>

## Group 2

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<p><i>Objective 1-8: Encourage aggressive enforcement of floodplain and storm water management ordinances and other all-hazards regulations within the Commonwealth to reduce losses in high risk areas.</i></p>					
<p><i>Action 1-8a.</i> Continue to track floodplain management ordinance information including adopted building code(s), other relevant ordinance(s), code(s), regulation(s), etc., and the incorporation of any more restrictive requirements.</p>	Flood, All Hazards	DCED; PEMA; FEMA Region III	Continuous	<p>Maintain or increase NFIP participation after DFIRM update ordinance reviews. Promote early review and submission of ordinances to DCED.</p>	<ul style="list-style-type: none"> <li>This is a capability that DCED has been doing for a while, likely document and move to capability section.</li> </ul>
<p><i>Action 1-8b.</i> Conduct effective outreach with municipalities to explain value of floodplain ordinances and adopting more restrictive requirements.</p>	Flood, All Hazards	DCED; PEMA; FEMA Region III	Continuous	<p>Reach 200 municipalities annually with ordinance related materials.</p>	<ul style="list-style-type: none"> <li>Check in with DCED on progress/tracking this metrics.</li> </ul>
<p><i>Action 1-8c.</i> Explore the possibility of providing legal support for floodplain management ordinance enforcement to municipalities.</p>	Flooding, All Hazards	DCED; FEMA Region III; State legal counsel	July 2014 - Completed by DCED	<p>Coordinate with DCED and meet with state legal counsel.</p>	<ul style="list-style-type: none"> <li>Check with DCED on progress.</li> </ul>

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<ul style="list-style-type: none"> <li>Objective 1-9: Promote increased implementation of urban-wild land interface (wildfire) mitigation projects by local communities by 2016.</li> </ul>					
<p>Action 1-9a. Conduct formal statewide community risk assessment using Risk Assessment Mitigation Strategies database.</p>	Wildfire	DCNR Bureau of Forestry; Office of State Fire Commissioner	Jun-14	Risk assessment disseminated to all communities by June 2014.	<ul style="list-style-type: none"> <li>Complete, integrate most current information into RA section of 2018 SSAHMP.</li> </ul>
<p>Action 1-9b. Work with FIREWISE communities to complete grant applications for outreach and fuels reduction projects.</p>	Wildfire	DCNR Bureau of Forestry; Office of State Fire Commissioner	Dec-16	Identify any support available to DCNR through the HMP process.	<ul style="list-style-type: none"> <li>Check in with DCNR and FIREWISE communities for progress</li> </ul>
<ul style="list-style-type: none"> <li>Objective 1-10: Enhance Commonwealth efforts to address mine/quarry related hazards by increasing inter-agency cooperation.</li> </ul>					
<p>Action 1-10a. Support effort to complete subsidence mapping in the Commonwealth.</p>	Subsidence Sinkhole	DEP – Mine Safety; Counties impacted by surface mine related hazards	Dec-14	Disseminate mapping and insurance information to jurisdictions once complete.	<ul style="list-style-type: none"> <li>There has been progress with this data, integrate newest information into RA section and complete or revise action.</li> </ul>
<p>Action 1-10b. Fully characterize coal ash basin inundation zones, rank hazards, and develop mitigation actions.</p>	Environmental Hazards	DEP/Bureau of Mining and Reclamation/Bureau of Waterways Engineering; PEMA	Sep-16	Continue to implement Chapter 8 and work towards zero flowback.	<ul style="list-style-type: none"> <li>There has been progress with this data, integrate newest information into RA section and complete or revise action.</li> </ul>
<ul style="list-style-type: none"> <li>Objective 1-11: Enable the Department of Environmental Protection to fully characterize hazard issues from Marcellus Shale natural gas extraction operations and explore mitigation options by 2016.</li> </ul>					

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<i>Action 1-11a.</i> Identify impacts and consequences of Marcellus Shale natural gas extraction operations.	Environmental Hazards	DEP; Counties impacted by Marcellus Shale	Mar-16	Complete TNORM study by 2016.	<ul style="list-style-type: none"> <li>• There has been significant progress on Marcellus Shale and unconventional well drilling planning.</li> <li>• Incorporate in RA section and revise actions.</li> </ul>
<i>Action 1-11b.</i> Identify mitigation options for identified impacts and consequences.	Environmental Hazards	DEP; PEMA; Counties impacted by Marcellus Shale; PUC; PennDOT	Dec-14	A preliminary list of actions will be identified by June 2014.	<ul style="list-style-type: none"> <li>• There has been significant progress on Marcellus Shale and unconventional well drilling planning.</li> <li>• Incorporate in RA and Capability section and revise actions.</li> </ul>
				Through Act 9, PEMA developed an Unconventional Well Site Emergency Response Plan template which was distributed to Counties.	
				Over \$200M was raised from Act 13 impact fees and distributed to local and state programs.	
<i>Action 1-11c.</i> Provide training that will enable counties to mitigate the negative impacts of Marcellus Shale extraction.	Environmental Hazards	DEP; Office of State Fire Commissioner and Academy; Partnerships with private sector; Counties impacted by Marcellus Shale; Universities	Jul-15	Develop training by January 2015.	<ul style="list-style-type: none"> <li>• There has been significant progress on Marcellus Shale and unconventional well drilling planning.</li> <li>• Incorporate in RA and Capability section and revise actions.</li> </ul>
				Promote US Department of Transportation, Pipeline and Hazardous Materials Safety Administration, Office of Pipeline Safety (US DOT PHMSA OPS) training webinars as appropriate.	
<ul style="list-style-type: none"> <li>• <i>Objective 1-12: Manage all Repetitive Loss and Severe Repetitive Loss databases, providing updates to FEMA at least annually in order to more efficiently identify properties to be mitigated.</i></li> </ul>					

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<i>Action 1-12a.</i> Maintain access to the National Flood Insurance Program (NFIP) BureauNet database of repetitive loss properties.	Flood	DCED; FEMA; PEMA	Continuous (meet annual requirements)	Ensure identified PEMA and DCED program managers receive by BureauNet access by October 2010.	<ul style="list-style-type: none"> <li>• Complete, move to Capability section and SRL Strategy section.</li> </ul>
<i>Action 1-12b.</i> Improve the accuracy of geo-locational data on RL and SRL properties by researching matches for properties with incomplete and/or out-of-date address based on rural road designations that have changed.	Flood	DCED; PEMA; Counties; FEMA Region III	Continuous	Continue to verify and update as additional properties are added.	<ul style="list-style-type: none"> <li>• Complete, move to Capability section and SRL Strategy section</li> </ul>
<i>Action 1-12c.</i> Align RL and SRL property data with validated FEMA NFIP RL and SRL property data annually.	Flood	DCED; PEMA; County EMAs and Planning Departments	Dec-12	Continue to routinely extract validated property information as needed from BureauNet.	<ul style="list-style-type: none"> <li>• Complete, move to Capability section and SRL Strategy section</li> </ul>
<i>Action 1-12d.</i> Use the Greatest Savings to the Fund (GSTF) data and methodology to promote the cost-effectiveness of SRL property mitigation for HMA grant applications.	Flood	PEMA; DCED	Jun-11	Use Greatest Savings to the Fund data in HMA grant applications, when applicable.	<ul style="list-style-type: none"> <li>• GSTF data was discontinued. Confirm with FEMA and change action to focus on SRL properties.</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<p><i>Action 1-12e.</i> Report the successes of flood-related projects in the annual update of the SSAHMP and provide a summary in the triennial plan update. Draft annual report by October 15th and finalize for submittal to FEMA no later than October 31st of the report year.</p>	Flood	PEMA; DCED	Continuous (annual requirement)	Submit annual reports on time; solicit support for RL/SRL funding to compile data.	<ul style="list-style-type: none"> <li>In progress, for 2018 plan update.</li> </ul>
<p><i>Action 1-12f.</i> Examine the FEMA-PEMA SRL and RL data sets to seek properties that could potentially be mitigated through the FEMA RFC, SRL or other HMA funding programs or any other funding sources on an annual basis.</p>	Flood	PEMA; Counties; DCED	December 2014; Ongoing for counties	Improve prioritization criteria for project selection in both pre- and post-disaster modes.	<ul style="list-style-type: none"> <li>Revise action to share analysis for 2018 SSAHMP with counties.</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<ul style="list-style-type: none"> <li>Objective 1-13: Compare properties within the Commonwealth that are known to have been mitigated with the FEMA-provided data sets for SRL and RL properties on an annual basis, and complete FEMA Form AW-501 to support update of the FEMA SRL and RL property databases.</li> </ul>					
<p><i>Action 1-13a.</i> Update annually the list of completed SRL and RL mitigated properties and use GIS or other methods to merge FEMA's SRL and RL database with Pennsylvania's mitigated properties database. Update the merged database when each HMA grant closes or whenever local data becomes available.</p>	Flood	PEMA; Counties; DCED	Continuous	Include information in annual report (Action 1-12e);100% compliance needed.	<ul style="list-style-type: none"> <li>1.13a, b, c, d, e are variations on the same action</li> <li>Revise into one ongoing action</li> </ul>
<p><i>Action 1-13b.</i> Complete FEMA Form AW-501 for each mitigated property and provide to FEMA through FEMA database or submittal to Region III upon project close-out.</p>	Flood	Municipalities; PEMA	Continuous (tri-annual requirement)	Tri-annual report accurately submitted on time.	<ul style="list-style-type: none"> <li>1.13a, b, c, d, e are variations on the same action</li> <li>Revise into one ongoing action</li> </ul>
<p><i>Action 1-13c.</i> Use GIS to merge the Increased Cost of Compliance SRL and RL database with Pennsylvania's mitigated properties database annually.</p>	Flood	PEMA; DCED	Continuous (annual requirement)	Annual report accurately submitted on time.	<ul style="list-style-type: none"> <li>1.13a, b, c, d, e are variations on the same action</li> <li>Revise into one ongoing action</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<p><i>Action 1-13d.</i> Ensure that the latitude and longitude of each property is confirmed during project close-out as well as during sponsoring community's three-year mitigation compliance inspection for completed properties. Update mitigated properties Excel workbooks to assure accurate status of mitigated RL and SRL properties.</p>	Flood	Municipalities; PEMA; DCED	Continuous	Accurately submitted tri-annual reports and project close-outs.	<ul style="list-style-type: none"> <li>• 1.13a, b, c, d, e are variations on the same action</li> <li>• Revise into one ongoing action</li> </ul>
<p><i>Action 1-13e.</i> Contact counties with SRL properties to confirm the number and type of mitigated properties and source of funding, if known. This approach can be used to establish an ongoing process of verifying addresses by gathering latitude and longitude data and will ensure currency of the FEMA RL and SRL data sets.</p>	Flood	PEMA in coordination with Counties and Counties in coordination with municipalities; DCED	Continuous	Reach out to 2 counties per year starting with locations with highest number of RL and SRL properties.	<ul style="list-style-type: none"> <li>• 1.13a, b, c, d, e are variations on the same action</li> <li>• Revise into one ongoing action</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<ul style="list-style-type: none"> <li>Objective 1-14: Promote Natural System Protection mitigation in the Commonwealth between 2013 and 2016.</li> </ul>					
<p>Action 1-14a. Identify cooperative funding opportunities with DEP for natural system protection projects</p>	<p>Flooding</p>	<p>PEMA; DEP; NRCS</p>	<p>Jul-16</p>	<p>Obtain hazard mitigation funds for a stream corridor restoration or wetland restoration project associated with flooding by July 2016.</p>	<ul style="list-style-type: none"> <li>Review opportunities for funding that intersect floodplain, watershed, stormwater management and climate adaption</li> <li>Incorporate information in 2018 SSAHMP update and likely revise action</li> </ul>
<ul style="list-style-type: none"> <li><b>Goal 2 - Enhance consistent coordination, collaboration, and communications among stakeholders.</b></li> </ul>					
<ul style="list-style-type: none"> <li>Objective 2-1: Promote development of COOP and COG plans for critical infrastructure within the Commonwealth, focusing on water treatment, water supply, and critical goods and services suppliers.</li> </ul>					
<p>Action 2-1a. Identify and prioritize critical government facilities and infrastructure that require back-up systems.</p>	<p>All Hazards</p>	<p>OA with support from all State Agencies; Counties; USACE</p>	<p>Dec-16</p>	<p>Collect lat/long data for identified critical facilities.</p> <p>Request USACE Power team review of generator sizing.</p>	<ul style="list-style-type: none"> <li>Complete, not progress and move to Capability section</li> </ul>
<p>Action 2-1b. Conduct outreach to privately-owned businesses and infrastructure that provide critical services in post-disaster situations to encourage them to develop COOP or Business Recovery Plans.</p>	<p>All Hazards</p>	<p>PEMA; OHS; DHS; DCED; DHS Protective Services</p>	<p>Jan-16</p>	<p>Complete two outreach workshops by January 1, 2016.</p> <p>Gather information on complementary workshops from DHS/GOHS for next SSAHMP update.</p>	<ul style="list-style-type: none"> <li>Some progress complete, need to follow-up with partners on specific progress</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<ul style="list-style-type: none"> <li>Objective 2-2: Promote integration of mitigation goals, objectives, and actions where appropriate in other federal, state and local planning initiatives by 2016.</li> </ul>					
<p>Action 2-2a. Integrate local (county level) risk assessment data into the State Plan updates and vice versa to ensure consistency between state and local plans with respect to the best available data.</p>	All Hazards	PEMA; Municipalities; Counties	Continuous	<p>Coordinate with PEMA OPS to integrate HM planning data and local plans into a single PA planning portal.</p> <p>Continue to update the SOG and provide annual training.</p>	<ul style="list-style-type: none"> <li>In progress, to be completed as part of 2018 SSAHMP update</li> </ul>
<p>Action 2-2b. Silver Jackets work to identify current policies, plans, regulations, and laws that should include mitigation.</p>	All Hazards	PEMA; Other State Agencies; Silver Jackets; PAFPM	Jan-15	As part of the update to the SJ mitigation guide, include lessons learned and planning guidance for local officials.	<ul style="list-style-type: none"> <li>In progress</li> </ul>
<p>Action 2-2c. Identify highest priority action items for counties that do not currently have a highest priority mitigation action identified in Section 6.3.2.</p>	All Hazards	PEMA; Municipalities; Counties	Ongoing	Update local standard operating procedures to reflect new mitigation action prioritization method so that highest ranking actions can be identified in the 2016 SSAHMP update.	<ul style="list-style-type: none"> <li>In progress for 2018 SSAHMP update</li> </ul>
<ul style="list-style-type: none"> <li>Objective 2-3: Support Pennsylvania Emergency Management Agency in developing mitigation data strategies for decision-makers by 2015.</li> </ul>					
<p>Action 2-3a. Develop a comprehensive list of types of data that decision-makers might need by December 2015.</p>	All Hazards	PEMA	Dec-15	Share the list of identified data with stakeholders.	<ul style="list-style-type: none"> <li>GIS providers survey by FEMA and PEMA progress</li> <li>Hazard related data to be posted in useable format for County HMPs on the 2018 SSAHMP update website</li> </ul>
<p>Action 2-3b. Build a network of data stewards.</p>	All Hazards	PEMA; Other State Agencies; Municipalities; FEMA Region III	Jul-16	Survey counties for available data and consolidate with agency GIS.	<ul style="list-style-type: none"> <li>Complete, by way of the GIS provider survey</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 2-3c.</i> Develop data-sharing protocols.	PEMA; OA; OIC	PEMA; OA IT; FEMA Region III	Jan-16	Create and distribute a protocol that encourages local jurisdictions to coordinate with state when updating plans and best available data by January 1, 2015.	<ul style="list-style-type: none"> <li>Check in and possible present to new State GIS Board and document their progress and mission in plan</li> </ul>
<i>Action 2-3d.</i> Develop Pennsylvania-specific earthquake soil site classification data for use in HAZUS earthquake modeling.	Earthquake	DCNR; PEMA (need input from DCNR)	Mar-18	Completed, HAZUS-ready GIS geodatabase with site classifications assigned statewide	<ul style="list-style-type: none"> <li>Re-visit with FEMA, this may not be the best use of funding for a low risk hazard</li> </ul>
<i>Action 2-3e.</i> Improve electronic data sharing between municipalities, BHP and PEMA to ensure statewide data remains current on historic properties and may be used for risk analysis.	All Hazards	Bureau for Historic Preservation (BHP) of PHMC; PEMA; FEMA	June 2016; Grant Period Ends 2017	<p>Determine the status of historic resource surveys by municipality and identify under-surveyed areas.</p> <p>Encourage communities with local survey information to share their survey data with BHP and provide communities that have not completed survey with existing BHP survey tools to inventory locally important cultural and historic resources.</p> <p>Include historic properties risk analysis for high hazards in next SSAHMP update.</p>	<ul style="list-style-type: none"> <li>Historic preservation to be integrated into 2018 SSAHMP and updated SOG</li> <li>Resources to be posted and linked to on 2018 SSAHMP website</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<ul style="list-style-type: none"> <li>Objective 2-4: Identify local Hazard Mitigation Officers and increase participation by local community representatives in the Commonwealth's Mitigation Planning Team by 50% between 2013 and 2016.</li> </ul>					
<p><i>Action 2-4a.</i> Maintain planning, emergency management, and GIS/data management contacts lists and expand contacts to include conservation districts.</p>	All Hazards	PEMA and Area Offices; DEP; Counties	Continuous	Expand contact lists to include conservation districts.	<ul style="list-style-type: none"> <li>Complete for GIS providers</li> <li>Add conservation districts in 2018 update</li> </ul>
<p><i>Action 2-4b.</i> Create State/Federal charter and bring county leads and planning champions together for regular meetings, knowledge exchanges, and trainings.</p>	All Hazards	PEMA; DCED' KEMA; FEMA Region III	Dec-16	Provide three integrated planning workshops/seminars throughout the state (building on Bucks County pilot) by 2016	<ul style="list-style-type: none"> <li>Re-visit this action, there has been progress but charter may not be right path</li> </ul>
<p><i>Action 2-4c.</i> Involve appropriate county mitigation plan team members in hazard mitigation implementation activities.</p>	All Hazards	PEMA; Counties	Continuous	Offer training or meeting opportunities for county mitigation planning team members at PEMA Annual Conference.	<ul style="list-style-type: none"> <li>Complete and ongoing, likely revise action to new targets</li> </ul>
<p><i>Action 2-4d.</i> Identify and pursue projects that tie-in goals and initiatives of multiple State Planning Team member agencies.</p>	All Hazards	PEMA; State Planning Team members	May-16	Complete high priority mitigation actions by May 2016	<ul style="list-style-type: none"> <li>Complete, document in capability section</li> </ul>
<p><i>Action 2-4e.</i> Develop County Hazard Mitigation Suggested Curriculum.</p>	All Hazards	PEMA; Counties	January 2016; Ongoing	Encourage at least one member of the local hazard mitigation team with a Certified Floodplain Manager (CFM) certification.	<ul style="list-style-type: none"> <li>To be completed as part of SOG update</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<ul style="list-style-type: none"> <li>Objective 2-5: Continue to support coordination between mitigation, planning, preparedness, and response personnel throughout the Commonwealth to ensure effectiveness in all-hazard mitigation planning.</li> </ul>					
<i>Action 2-5a.</i> Improve cooperation/ coordination of agencies with real time data (gauge station data, program availability, etc.).	All Hazards	Local, county, and state public safety agencies with planning support agencies	Continuous	Combine data moving forward into the next generation EOC.	<ul style="list-style-type: none"> <li>This is partial complete through Silver Jackets</li> <li>Stream gauge funding has been declining so consider best way to continue/revise action</li> </ul>
<i>Action 2-5b.</i> Reach out to agencies that were invited but did not participate in 2013 planning process.	All Hazards	PEMA; Silver Jackets	Oct-14	Participation in 2016 State Plan update builds on 2013 success and has more than 45 participating agencies/organizations/ county representatives.	<ul style="list-style-type: none"> <li>To be complete as part of 2018 SSAHMP update</li> </ul>
<i>Action 2-5c.</i> Identify strategic locations to deploy USACE Power Teams after a disaster.	All Hazards	PEMA; Silver Jackets; USACE	January 2018?, Ongoing	Establish contact with USACE Pittsburgh and Philadelphia Districts to determine POC for Power Team organization.	<ul style="list-style-type: none"> <li>Complete, document in capability section</li> </ul>

## Group 3

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<b>Goal 3 - Provide a framework for active hazard mitigation planning and implementation.</b>					
<i>Objective 3-1: Identify opportunities for regional organizations, businesses, and universities to be engaged in hazard mitigation planning.</i>					
<i>Action 3-1a.</i> Maintain a comprehensive list of critical regional agencies, including Councils of Government (COGs), River Basin Commissions, and Metropolitan Planning Organizations (MPOs).	All Hazards	PEMA	Continuous	Identify a champion of this activity to oversee its development by January 1, 2014.	<ul style="list-style-type: none"> <li>Creating a guide of desired action and having a database to locate a point of contact (Silver Jackets)</li> </ul>
<i>Action 3-1b.</i> Require Local Hazard Mitigation Plans to list relevant regional agencies.	All Hazards	PEMA Utility companies with mutual aid	Continuous	Ensure communities address this requirement in local HMPs.	<ul style="list-style-type: none"> <li>Must be expanded and maintained.</li> <li>Stakeholders are everyone who lives, works and passes through the area. We need links in SOG</li> <li>Power companies have staging bases for mutual aid around the county</li> <li>PEMA would like to know the locations of these mutual aid staging bases. Agility Recovery uses excess properties for disaster rental, provide generators etc. Bob will provide agility information.</li> </ul>
<i>Action 3-1c.</i> Assess and identify locations where regional coordination between local HMPs would be beneficial to achieving efficiencies in mitigation efforts.	All Hazards	Counties; DCED; other State Agencies as applicable	Jan-18	Encourage counties to utilize university capabilities (i.e. engineering, planning, etc.) during the HM planning and implementation process.	<ul style="list-style-type: none"> <li>We have largely completed all of this action. There is room for expansion and improvement</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<p><i>Action 3-1d.</i> Continue to support Pennsylvania Department of Education (PDE) in its multi-hazard school planning efforts.</p>	All Hazards	PDE; PEMA; Safe Schools Initiative; PSP; FEMA Region III	Continuous	Perform outreach for safe school planning guide.	<ul style="list-style-type: none"> <li>Check for update on training with program POCs</li> </ul>
				Customize and update outreach material based on events.	
<p><i>Action 3-1e.</i> Identify and encourage involvement of key business, industry, and infrastructure stakeholders and stakeholder associations in mitigation.</p>	All Hazards	Local jurisdictions and Chamber of Commerce (More contact with businesses not Chamber)	Continuous	Continue to invite a broad range of stakeholder to participate in the HM planning process.	<ul style="list-style-type: none"> <li>Work with an insurance agent to connect plan to businesses. Essential to find proper POC and what to ask this person.</li> </ul>
<p><i>Action 3-1f.</i> Coordinate with USDA on the mass food contamination analysis phase.</p>	Mass food contamination	PEMA; Dept. of Agriculture; Conservation dis	Jan-14	Identify point of contact at Department of Agriculture and discuss integration.	<ul style="list-style-type: none"> <li>This is more after the fact response not mitigation. The question of water contamination was asked.</li> </ul>
<ul style="list-style-type: none"> <li><i>Objective 3-2: Enable the Pennsylvania Emergency Management Agency to encourage each participating jurisdiction to secure funding and initiate one mitigation action by 2016.</i></li> </ul>					

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
Action 3-2a. Maintain and improve Pennsylvania's Hazard Mitigation Planning and Project Toolkit and related training, including Standard Operating Guide, Library and other tools. Inclusion of IP Gateway from DHS & Discuss Previstar with PEMA Planning	All Hazards	PEMA	Continuous	Encourage all counties to complete update process using HM Standard Operating Guide. Update SOG to reflect Future Conditions (climate change), cyber attack and animal disease hazards.	<ul style="list-style-type: none"> <li>No longer pursuing this method. Revised tools will be posted to 2018 SSAHMP website</li> </ul>
<i>Action 3-2b.</i> Assist communities and counties in identifying funding streams to support the implementation of mitigation projects.	All Hazards	PEMA; DCED; DEP; Silver Jackets; Counties	Continuous	Fund ten projects and six plans per year.(Potential to increase this measure of success)	<ul style="list-style-type: none"> <li>Funded 20 plans and 60 projects. Disaster money and critical money is 7% for hazard mitigation. There are grants that require local funds.</li> </ul>
<i>Action 3-2c.</i> Update training courses regarding planning, project tools, as well as FEMA eGrants trainings.	All hazards	PEMA	Dec-16	<p>Continue to require courses for access to eGrants.</p> <hr/> <p>Conduct timely eGrants trainings as a part of at least 2 quarterly trainings per year.</p> <hr/> <p>Track training and technical assistance location, date, and attendance for next SSAHMP update.</p>	<ul style="list-style-type: none"> <li>There are opportunities for FEMA to help develop a course / help with application</li> <li>PEMA improving plan module and grant management</li> <li>Citizen Core with police and fire department</li> <li>DCED Engaging with county authority for funding</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 3-2d.</i> Promote training and project tours for new members of hazard mitigation planning community, including personnel at universities, businesses, and regional organizations.	All Hazards	PEMA	Continuous	Create and implement a policy on the role of DRU plans in the mitigation strategy of the Commonwealth in 2016 SSAHMP update.	<ul style="list-style-type: none"> <li>Completed this with Disaster Resistant University project</li> </ul>
<i>Action 3-2e.</i> Promote Hazard mitigation project tours to showcase successful flood mitigation projects.	Natural Hazards	PEMA/ Silver Jackets	Continuous	Provide at least 2 bus tours through Silver Jackets.	<ul style="list-style-type: none"> <li>Several kinds of mitigation</li> </ul>
<i>Action 3-2f.</i> Explore funding for county EMAP compliance	All	KEMA; PEMA	Jul-15	Disseminate information to counties pertaining to the incorporation of EMAP compliance into HM planning.	<ul style="list-style-type: none"> <li>Check with other POCs for action</li> </ul>
<ul style="list-style-type: none"> <li><b>Goal 4 - Build legislative support and secure funding for mitigation efforts.</b></li> </ul>					
<ul style="list-style-type: none"> <li><i>Objective 4-1: Provide opportunities for education of all State, county and local government officials and legislators about hazard risk and mitigation by Pennsylvania Emergency Management Agency and County Emergency Management Agencies by 2016.</i></li> </ul>					
<i>Action 4-1a.</i> Facilitate tours or visits to mitigation projects, or areas where mitigation efforts are needed to local and county officials and state legislators.	All Hazards	Counties; Local Jurisdictions; PEMA	Jul-16	Send invitation to site tours to organizations that organize jurisdictions in Pennsylvania and ask 20 legislators to attend a site tour visit by July 31, 2016.	<ul style="list-style-type: none"> <li>Note progress and continue by merging 4-1 a, b, c</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 4-1b.</i> Develop and disseminate relevant information on hazard mitigation programs.	All Hazards	Counties; PEMA; DEP; DCED; Silver Jackets	Ongoing	Coordinate with FEMA and other agencies to obtain relevant mitigation information to disseminate to the public by July 31, 2014.	<ul style="list-style-type: none"> <li>Note progress and continue by merging 4-1 a, b, c</li> </ul>
<i>Action 4-1c.</i> Document and share in-state success stories and best practices.	All Hazards	PEMA; Counties	Continuous	Create and disseminate a brochure that identifies success stories by December 31, 2014 and conduct one presentation on success stories each year by 2016. Add success stories to FEMA website.	<ul style="list-style-type: none"> <li>Note progress and continue by merging 4-1 a, b, c</li> </ul>
<i>Action 4-1d.</i> Perform a “Losses Avoided” study on mitigated SRL or RL properties to communicate money saved in response and recovery so that decision makers, community officials and property owners will be interested in mitigating specific properties.	Flood	PEMA; DCED	Jun-16	New SRL and RL “Losses Avoided” analysis results included in the 2016 Plan Update.	<ul style="list-style-type: none"> <li>Will expand losses avoided analysis in 2018 SSAHMP update</li> </ul>
<i>Action 4-1e.</i> Press for Act 166 and 167 funding to be allocated.	Flood	KEMA; PEMA; DEP	Jul-14	Coordinate with DEP to determine statistics and figures needed to present a case for Act 167 funding from a HM perspective.	<ul style="list-style-type: none"> <li>Revisit with PEMA and DEP POCs</li> </ul>
<i>Action 4-1f.</i> Provide legislator webinar to explain disaster declaration and hazard mitigation funding process.	Flood; All hazards	KEMA; PEMA	Continuous	<p>Obtain a spot on legislator calendar for training/outreach.</p> <p>PEMA will share information/white paper with KEMA as part of this effort.</p>	<ul style="list-style-type: none"> <li>Not progress of webinars from recent DRs and complete or continue action</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<ul style="list-style-type: none"> <li>Objective 4-2: By 2013, expand working relationships with at least two volunteer and professional organizations to improve mitigation efforts within the Commonwealth.</li> </ul>					
<p><i>Action 4-2a.</i> Expand working relationship with professional organizations including: NEMA, IAEM, ASFPM, KEMA, PAFPM, APA, PSATS, PAB, CCAP, League of Citizens, and Code Enforcement Officers.</p>	All Hazards	PEMA	Jan-16	Attend at least 2 new organization conferences and invite 2 new organizations to state Emergency Management conference.	<ul style="list-style-type: none"> <li>Complete, consider new agencies and measure of success for 2018 SSAHMP</li> </ul>
<p><i>Action 4-2b.</i> Encourage PA-based professional organizations, with emphasis on inviting PA Association of Floodplain Managers (PAFPM) participation, to be involved in the Silver Jackets Program.</p>	All Hazards	PEMA	Continuous	APA, PAFPM and River Basin Commission representatives and one member of another professional organization regularly attend Silver Jackets meetings between 2013 and 2016.	<ul style="list-style-type: none"> <li>Complete, consider new agencies and measure of success for 2018 SSAHMP</li> </ul>
<p><i>Action 4-2c.</i> Promote an increase in the number of CFMs.</p>	Floods	PAFPM; PEMA; DCED; DEP	Continuous	Identify steps to becoming a full ASFPM chapter.	<ul style="list-style-type: none"> <li>Document PAFPM progress and determine best next measure of success</li> </ul>
<p><i>Action 4-2d.</i> Develop a working relationship with private insurance and financial sector companies.</p>	All Hazards	Department of Banking and Securities; Department of Insurance; PEMA	Nov-13	Host Forum to discussion insurance issues that were identified during Lee and Sandy.	<ul style="list-style-type: none"> <li>Progress to be determined</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
Action 4-2e. Conduct outreach to utilities for ideas to mitigate damage to lines caused by hazard outside the easements or rights of way	Winter Storms, land slides, sink holes,	PUC and PEMA	December 2016; Ongoing	Further review: Is this an issue?	<ul style="list-style-type: none"> <li>• This needs to be in risk assessment</li> <li>• Further develop action</li> </ul>
Action 4-2f. Conduct Outreach with PUC and DCED to identify funding for sinkhole mitigation	Sinkholes	PEMA and PUC	December 2016; Ongoing	Add DEP/PennDot PA America	<ul style="list-style-type: none"> <li>• Progress to be determined</li> <li>• Consider best practices</li> </ul>
<ul style="list-style-type: none"> <li>• <i>Objective 4-3: Identify statutory, regulatory or other barriers to completing mitigation efforts within the Commonwealth, and leverage support against these barriers to implement mitigation actions by 2016.</i></li> </ul>					
Action 4-3a. Identify statutory, regulatory or other barriers that currently exist with respect to mitigation efforts and build consensus and plan integration with partners and decision makers.	All Hazards	PEMA; Office of General Counsel	June, 2016	<p>Continue to address and expand plan integration and eliminate barriers to mitigation through SJ Initiative and document successes.</p> <p>Build on Bucks County Initiative with seminars in other areas of state.</p> <p>Develop a list of counties in the Commonwealth that cover municipal zoning.</p>	<ul style="list-style-type: none"> <li>• Zoning is an issue at a local level with economic costs. Each municipality has its own zoning. Is it easier to create a more cohesive plan?</li> <li>• Start to work on it in the process enforcement and standardize zoning.</li> <li>• Show plan integration and where they connect</li> <li>• It is really hard to encourage zoning at higher level. Maybe this is not a PEMA issue but a DCED action</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<p><i>Action 4-3b.</i> Assist county and regional planning organizations to integrate preservation priorities into plans for economic growth, revitalization, natural resource, hazard mitigation and emergency management planning.</p>	All Hazards	BHP of PHMC; PEMA; FEMA	June, 2016	Identify at-risk communities for disasters and create hazard mitigation and/or emergency management plans for their historic resources.	<ul style="list-style-type: none"> <li>• A lot of work has been done but needs to be adapted into the plan and the SOG</li> <li>• GIS layer to contain critical facilities and historical buildings.</li> <li>• -Recovery: do not demolish unless the buildings are hazards</li> <li>• Create a balance between demolishing and saving buildings.</li> <li>• Not all historic buildings are worth saving.</li> <li>• How can we retrofit the buildings to historical codes?</li> <li>• Identify best practices for mapping these historical buildings.</li> <li>• Share PHMC GIS layer</li> </ul>
<ul style="list-style-type: none"> <li>• <i>Objective 4-4: Encourage inclusion of at least 5 relevant mitigation projects in the Commonwealth's Capital Improvement Program by the next plan revision.</i></li> </ul>					
<p><i>Action 4-4a.</i> Consider tax incentives and bonds for mitigation.</p>	All Hazards	Pennsylvania Department of Revenue; PEMA; KEMA	Dec-14	Promote and gain approval for a tax free mitigation day were people may purchase items like generators tax free.	<ul style="list-style-type: none"> <li>• Progress to be determined</li> </ul>
<ul style="list-style-type: none"> <li>• <b>Goal 5 - Increase awareness, understanding, and preparedness across all sectors.</b></li> </ul>					
<ul style="list-style-type: none"> <li>• <i>Objective 5-1: Support all-hazards mitigation and preparedness programs to educate private and public stakeholders, academia, government employees and elected officials on the hazards pertinent to the Commonwealth.</i></li> </ul>					

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 5-1a.</i> Develop and provide presentations on hazard mitigation programs and sponsor conference booths (exhibits).	All Hazards	PEMA; State Planning Team members	Dec-16	Attend and present at 1 conference per year.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1b.</i> Schedule workshops and outreach sessions with local jurisdictions and invite home and business owners of mitigated structures to speak and share their experience with potential applicants.	All Hazards	PEMA	Jan-16	Draft lessons learned for elevation and acquisition projects the workshops and sessions by January 30, 2015.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1c.</i> Work with the Citizen Corps program to educate the public on hazard mitigation and preparedness.	All Hazards	Counties; PEMA	Jul-16	Meet at least annually with Citizen Corps program director to discuss how to integrate hazard mitigation and preparedness into Citizen Corps programs.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1d.</i> Conduct a public information campaign through various media outlets.	All Hazards	PEMA Press Office; FEMA Public Information Officer; Governor's Office of Communications & Press; DCED; FEMA region III	Dec-16	Create a media strategy/campaign plan by December 31, 2014.	<ul style="list-style-type: none"> <li>FEMA and CERC just put out new standards</li> <li>Lessons learned/ sustainability issues</li> </ul>
				Build outreach related coordination for Long Term Recovery	
<i>Action 5-1e.</i> Collaborate with the business community to implement hazard mitigation information and strategies.	All Hazards	PEMA; Chamber of Commerce; Regional Task Force Business and Labor Infrastructure Committees (or equivalent)	Jul-16	Attend three Chamber of Commerce events by December 31, 2016.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 5-1f.</i> Collaborate with non-profit, non-governmental and civic organizations to help inform their constituents about hazard mitigation.	All Hazards	Local/County Governments; Voluntary Organizations Active in Disaster (VOAD)	Dec-16	Invite VOAD groups to next SJ outreach session.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1g.</i> Collaborate with higher education institutions to incorporate hazard mitigation into relevant curricula.	All Hazards	PDE; PA Commission for Community Colleges; PA Association of Colleges and Universities	Mar-16	Research out to PA Commission for Community Colleges and PA Association of Colleges and Universities to identify candidate institutions with relevant programs by July 31, 2014.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1h.</i> Prepare hazard mitigation information to disseminate to specific audiences (i.e. multi-lingual, special needs).	All Hazards	PEMA; Counties; FEMA Region III; organizations that organize jurisdictions; NGOs	Dec-15	Create a list of hazard mitigation topics and target audiences by July 31, 2015.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1i.</i> Develop and conduct education efforts that increase residential and business owners' knowledge and awareness of mitigation grants by conducting various outreach activities.	Flood	PEMA; Counties; FEMA Region III; organizations that organize jurisdictions	Dec-15	Complete 4 sessions a year.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<i>Action 5-1j.</i> Work with county and municipal officials to educate property owners about grandfathering and revisions to the NFIP program.	Flood	DCED, FEMA Region III, PEMA	Continuous	Support and document Biggert-Waters Flood Insurance Reform Act outreach.	<ul style="list-style-type: none"> <li>There has been progress on many of the 5-1 actions, which overlap each other. Document success and revise so that 5-1 actions are less repetitive</li> </ul>
<i>Action 5-1k.</i> Increase Pennsylvania participation in the CRS program through a State education strategy.	Flood	DCED; PEMA	Dec-15	Develop a State outreach Strategy for CRS by January 31, 2015.	<ul style="list-style-type: none"> <li>There is a State CRS Work Group</li> </ul>
<ul style="list-style-type: none"> <li><i>Objective 5-2: Prioritize outreach efforts that will result in a 10% increase in RL and SRL related grant applications between 2013 and 2016.</i></li> </ul>					
<i>Action 5-2a.</i> Conduct one meeting annually in each region of the state targeting RL and SRL community officials who serve as HMA grant sponsors.	Flood	PEMA; DCED; Counties	Jun-16	Document meeting dates and outreach for HMA in detail for 2016 SSAHMP.	<ul style="list-style-type: none"> <li>SRL Actions from Goal 1 and Goal 5 are quite repetitive. Re-visit and streamline SRL actions</li> </ul>
<i>Action 5-2b.</i> Assist municipalities with direct mailings to SRL property owners.	Flood	PEMA in coordination with Counties and Counties in coordination with municipalities; DCED	Dec-16	Reach out to 2 counties per year starting with locations with highest number of RL and SRL properties.	<ul style="list-style-type: none"> <li>SRL Actions from Goal 1 and Goal 5 are quite repetitive. Re-visit and streamline SRL actions</li> </ul>
<i>Action 5-2c.</i> Use the RL/SRL marketing and implementation program successes in PA communities (e.g., Bucks, Lycoming Counties) as a platform for outreach efforts to other RL/SRL communities.	Flood	PEMA; Counties; DCED	Dec-16	Submit 1 story per year to FEMA website, KEMA Newsletter, PEMA Pointers, and SJ Buzz.	<ul style="list-style-type: none"> <li>SRL Actions from Goal 1 and Goal 5 are quite repetitive. Re-visit and streamline SRL actions</li> </ul>

ACTION DESCRIPTION	HAZARD	LEAD/SUPPORT AGENCY	TARGET COMPLETION DATE	MEASURE OF SUCCESS	NOTES
<p><i>Action 5-2d.</i> Provide an update on SRL and RL mitigation strategies and accomplishments at the annual Commonwealth of Pennsylvania Emergency Management Conference.</p>	Flood	PEMA; DCED	Sep-15	Ensure slot on agenda by March 31, 2014.	<ul style="list-style-type: none"> <li>SRL Actions from Goal 1 and Goal 5 are quite repetitive. Re-visit and streamline SRL actions</li> </ul>