

Appendix I

Appendix I Mitigation Action Prioritization

| MITIGATION ACTIONS | | MULTI-OBJECTIVE MITIGATION ACTION RANKING CRITERIA | | | | | PRIORITY |
|--------------------|---|--|------------|-------------------------|----------------------------|---|----------|
| ACTION NO. | ACTION DESCRIPTION | EFFECTIVENESS | EFFICIENCY | MULTI-HAZARD MITIGATION | ADDRESSES HIGH RISK HAZARD | ADDRESSES CRITICAL COMMUNICATIONS/CRITICAL INFRASTRUCTURE | |
| 1 | Action 1-1a. Support the maintenance of existing flood protection projects and construction. | 2 | 2 | 1 | 3 | 1 | 1.8 |
| 2 | Action 1-1b. Participate in discussions about potential solutions/policy changes regarding farm land flooding due to stream impediments. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 3 | Action 1-1c. Target SRL and RL properties for mitigation (including demolition, acquisition, and elevation) during annual HMA project review and prioritization process. | 3 | 3 | 2 | 3 | 2 | 2.65 |
| 4 | Action 1-2a. 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. | 3 | 3 | 2 | 3 | 2 | 2.65 |
| 5 | Action 1-2b. Increase FEMA HMGP Section 404 funding and identify Public Assistance Program Section 406 projects. | 3 | 3 | 3 | 0 | 2 | 2.4 |
| 6 | Action 1-2c. Mitigate buildings and structures, including historic structures, at risk from the impacts of natural and human-made hazards. | 3 | 3 | 3 | 0 | 3 | 2.55 |
| 7 | Action 1-3a. Define critical infrastructure/key resources (CI/KR) in terms of mitigation. | 2 | 2 | 3 | 0 | 3 | 2.05 |

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| 8 | Action 1-3b. Establish and sustain a business, industry and infrastructure subcommittee to advance the identification of CI/KR and interdependencies of CI/KR providing essential services. | 2 | 2 | 3 | 0 | 3 | 2.05 |
| 9 | Action 1-3c. Leverage support of the nine Regional Task Forces to support critical infrastructure mitigation. | 1 | 2 | 3 | 0 | 3 | 1.85 |
| 10 | Action 1-3d. Identify insurable state owned flood-prone buildings and appropriate mitigation methods if located in the special flood hazard area (SFHA). | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 11 | Action 1-3e. Evaluate state-owned structures for mitigation options for non-flood related high-priority hazards. | 2 | 2 | 3 | 3 | 2 | 2.35 |
| 12 | Action 1-3f. Provide emergency electrical backup generation to key state, county, and municipal critical infrastructure. | 2 | 3 | 3 | 3 | 3 | 2.8 |
| 13 | Action 1-3g. Add internet interruption to the list of reportable incidents in Knowledge Center. | 1 | 2 | 2 | 3 | 3 | 2.1 |
| 14 | Action 1-4a. Support the sustainment and enhancement of Commonwealth fusion centers. | 1 | 2 | 3 | 3 | 3 | 2.3 |
| 15 | Action 1-4b. Promote reverse notification systems in high-hazard areas. | 2 | 2 | 3 | 3 | 2 | 2.35 |
| 16 | Action 1-4c. Increase participation in PA Alert. | 2 | 2 | 3 | 0 | 2 | 1.9 |

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| 17 | Action 1-4d. Establish Water Monitoring Council Action to improve stream gauge coordination in Commonwealth. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 18 | Action 1-4e. Complete flood inundation mapping for high risk and high population centers. | 2 | 2 | 1 | 3 | 2 | 1.95 |
| 19 | Action 1-5a. Re-examine impacts of federal levee guidance and identify necessary actions. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 20 | Action 1-5b. 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. | 2 | 1 | 2 | 3 | 2 | 1.85 |
| 21 | Action 1-5c. Update emergency action plan guidelines for flood protection projects to assist project sponsors with developing project specific EAPs including inundation maps. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 22 | Action 1-5d. 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. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 23 | Action 1-5e. Encourage local, state, and federal levee system sponsors to develop Emergency Action Plans. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 24 | Action 1-6a. Continue to conduct statewide training for construction code officials. | 2 | 3 | 3 | 0 | 2 | 2.2 |

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| 25 | Action 1-6b. Provide briefings for code association and county officials on damage assessment expectations following a disaster. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 26 | Action 1-6c. Invite the PA Association of Building Code Officials, PA Association of Code Officials, and Council of Government organizations (COG) to outreach meetings related to building resiliency and mitigation of structures. | 2 | 2 | 3 | 0 | 2 | 1.9 |
| 27 | Action 1-7a. Build on DEP's initiative to require dam owners to complete a dam break analysis and map inundation areas for dams of high hazard potential. | 3 | 3 | 2 | 3 | 2 | 2.65 |
| 28 | Action 1-7b. Identify and implement mitigation actions based on Silver Jacket meeting results. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 29 | Action 1-7c. Evaluate and enforce appropriate remediation of dams. | 3 | 2 | 2 | 3 | 2 | 2.35 |
| 30 | Action 1-7d. Ensure that all high hazard dams have an Emergency Action Plan, as required. | 3 | 3 | 2 | 3 | 2 | 2.65 |
| 31 | Action 1-8a. 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. | 2 | 2 | 3 | 3 | 2 | 2.35 |

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| 32 | Action 1-8b. Conduct effective outreach with municipalities to explain value of floodplain ordinances and adopting more restrictive requirements. | 2 | 2 | 3 | 3 | 2 | 2.35 |
| 33 | Action 1-8c. Explore the possibility of providing legal support for floodplain management ordinance enforcement to municipalities. | 1 | 1 | 3 | 3 | 1 | 1.7 |
| 34 | Action 1-9a. Conduct formal statewide community risk assessment using Risk Assessment Mitigation Strategies database. | 2 | 2 | 1 | 0 | 2 | 1.5 |
| 35 | Action 1-9b. Work with FIREWISE communities to complete grant applications for outreach and fuels reduction projects. | 2 | 2 | 1 | 0 | 2 | 1.5 |
| 36 | Action 1-10a. Support effort to complete subsidence mapping in the Commonwealth. | 2 | 3 | 1 | 0 | 2 | 1.8 |
| 37 | Action 1-11a. Identify mitigation options for identified impacts and consequences associated with shale gas formation extraction and distribution. | 2 | 3 | 1 | 0 | 2 | 1.8 |
| 38 | Action 1-11b. Encourage attendance at training courses that enable counties and local governments to mitigate the negative impacts of shale gas formation extraction and distribution. | 2 | 3 | 2 | 0 | 2 | 2 |

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| 39 | Action 1-11c: Support the development of a Hazmat and Pipeline Training facility in Pennsylvania in collaboration with a college or university. | 3 | 3 | 1 | 0 | 3 | 2.15 |
| 40 | Action 1-11d: Promote awareness of new pipeline safety guidelines enacted as part of passage of PA Act 50 of 2017. | 3 | 3 | 2 | 0 | 3 | 2.35 |
| 41 | Action 1-12a. Report the successes of flood-related projects in the annual SSAHMP update 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. | 2 | 3 | 1 | 3 | 2 | 2.25 |
| 42 | Action 1-12b. Annually review the progress of SRL and RL property mitigation to ensure accuracy of BureauNet. Submit BureauNet updates as needed, particularly for location and mitigation status. | 2 | 3 | 1 | 3 | 2 | 2.25 |
| 43 | Action 1-13a. Identify cooperative funding opportunities for natural system protection projects. | 2 | 2 | 2 | 3 | 2 | 2.15 |
| 44 | Action 1-14a. Take steps to protect Pennsylvania's communities from cyber security attacks. | 3 | 3 | 1 | 3 | 3 | 2.6 |
| 45 | Action 1-14b. Work with industry and government to improve the cyber security position of control systems within critical infrastructure. | 3 | 3 | 1 | 3 | 3 | 2.6 |

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| 46 | Action 2-1a. Identify and prioritize critical government facilities and infrastructure that require back-up systems. | 2 | 2 | 3 | 3 | 3 | 2.5 |
| 47 | 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. | 2 | 2 | 3 | 2 | 3 | 2.35 |
| 48 | 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. | 2 | 2 | 3 | 0 | 2 | 1.9 |
| 49 | Action 2-2b. Support Silver Jackets work to identify current policies, plans, regulations, and laws that should include mitigation. | 2 | 2 | 3 | 0 | 2 | 1.9 |
| 50 | 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. | 2 | 2 | 3 | 0 | 1 | 1.75 |
| 51 | Action 2-3a. Develop a comprehensive list of types of hazard mitigation data that decision-makers might need by December 2020. | 2 | 2 | 3 | 0 | 2 | 1.9 |
| 52 | Action 2-3b. Represent the interests of hazard mitigation on the Pennsylvania State Geospatial Coordinating Board (GeoBoard). | 2 | 2 | 3 | 0 | 2 | 1.9 |

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| 53 | Action 2-3c. Re-evaluate state GIS database to ensure datasets include hazard mitigation, planning, and critical asset identification to enable the prioritization of mitigation projects. | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 54 | Action 2-3d. Continue to use and improve GIS capability to prioritize hazard/critical infrastructure for mitigation. | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 55 | Action 2-3e. Acquire remotely sensed data, specifically, ortho-photography, as specified in the Commonwealth's Geospatial Strategic Plan. | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 56 | Action 2-3f. Improve electronic data sharing between municipalities, counties, PA SHPO and PEMA to ensure statewide data remains current on historic properties and may be used for risk analysis. | 2 | 2 | 3 | 0 | 2 | 1.9 |
| 57 | Action 2-4a. Maintain planning, emergency management, and GIS/data management contacts lists and expand contacts to include conservation districts. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 58 | Action 2-4b. Bring county leads and planning champions together for regular meetings, knowledge exchanges, and trainings. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 59 | Action 2-4c. Involve appropriate county mitigation plan team members in hazard mitigation implementation activities. | 3 | 3 | 3 | 2 | 2 | 2.7 |

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| 60 | Action 2-4d. Meet regularly to implement projects that tie-in goals and initiatives of multiple State Planning Team member agencies. | 3 | 3 | 3 | 2 | 2 | 2.7 |
| 61 | Action 2-4e. Develop County Hazard Mitigation Suggested Curriculum. | 3 | 3 | 3 | 0 | 2 | 2.4 |
| 62 | Action 2-5a. Improve cooperation/coordination of agencies with real time data (gauge station data, program availability, etc.). | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 63 | Action 2-5b. Reach out to agencies that were invited but did not participate in 2018 planning process. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 64 | Action 2-5c. Identify strategic locations to deploy USACE Power Teams after a disaster. | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 65 | Action 2-6a. Develop County Recovery Plans following the template designed in State Disaster Recovery Plan process. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 66 | Action 2-6b. Develop a Pennsylvania Resilience Strategy using the Smart Growth America model. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 67 | Action 3-1a. Maintain a comprehensive list of relevant regional agencies, including Councils of Government (COGs), River Basin Commissions, and Metropolitan Planning Organizations (MPOs). | 2 | 3 | 3 | 0 | 1 | 2.05 |

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| 68 | Action 3-1b. Continue to support Pennsylvania Department of Education (PDE) in its multi-hazard school planning efforts. | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 69 | Action 3-1c. Identify and encourage involvement of key business, industry, and infrastructure stakeholders and stakeholder associations in mitigation. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 70 | Action 3-1d Work with hazard mitigation stakeholders to provide increased support to Floodplain Managers. | 2 | 3 | 3 | 3 | 2 | 2.65 |
| 71 | Action 3-1e. Coordinate with USDA on the mass food contamination analysis phase. | 2 | 3 | 1 | 0 | 3 | 1.95 |
| 72 | Action 3-2a. Maintain and improve Pennsylvania's Standard Operating Guide and other tools. | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 73 | Action 3-2b. Assist communities and counties in identifying funding streams to support the implementation of mitigation projects. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 74 | Action 3-2c. Update training courses regarding planning, project tools, as well as FEMA eGrants trainings. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 75 | Action 3-2d. Promote training and project tours for new members of hazard mitigation planning community, including personnel at universities, businesses, and regional organizations. | 2 | 3 | 3 | 0 | 1 | 2.05 |

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| 76 | Action 3-2e. Promote Hazard mitigation project tours to showcase successful flood mitigation projects. | 2 | 3 | 3 | 3 | 2 | 2.65 |
| 77 | Action 3-2f. Explore funding for County EMAP accreditation. | 2 | 2 | 3 | 0 | 1 | 1.75 |
| 78 | Action 4-1a. Facilitate tours for local, county, and state legislative officials focusing on mitigation projects or areas where mitigation efforts are needed. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 79 | Action 4-1b. Develop and disseminate relevant information on hazard mitigation programs. | 3 | 3 | 3 | 1 | 2 | 2.55 |
| 80 | Action 4-1c. Document and share in-state success stories and best practices. | 3 | 3 | 3 | 1 | 2 | 2.55 |
| 81 | Action 4-1d. Collect more detailed building information for mitigation projects to improve "Losses Avoided" analysis in SHMP. | 3 | 3 | 3 | 3 | | 2.55 |
| 82 | Action 4-1e. Press for Act 166 and 167 funding to be allocated. | 2 | 3 | 1 | 3 | 1 | 2.1 |
| 83 | Action 4-1f. Provide legislator webinar to explain disaster declaration and hazard mitigation funding process. | 2 | 2 | 3 | 3 | 1 | 2.2 |
| 84 | Action 4-2a. Expand working relationship with professional organizations including: NEMA, IAEM, ASFPM, KEMA, League of Cities, and Code Enforcement Officers. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 85 | Action 4-2b. Encourage PA-based professional organizations to be involved in the Silver Jackets Program. | 2 | 3 | 3 | 0 | 2 | 2.2 |

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| 86 | Action 4-2c. Promote designation as an Accredited Chapter. | 2 | 3 | 1 | 3 | 1 | 2.1 |
| 87 | Action 4-2d. Develop a working relationship with private insurance and financial sector companies. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 88 | Action 4-2e. Outreach to utilities to develop ideas to mitigate utility damage outside of easements or rights of way. | 2 | 3 | 2 | 3 | 3 | 2.6 |
| 89 | 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. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 90 | Action 4-3b. Assist county and regional planning organizations to integrate preservation priorities into plans for economic growth, revitalization, natural resource, hazard mitigation and emergency management planning. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 91 | Action 4-3c. Encourage counties and local municipalities to develop land bank authorities for the purpose of converting vacant or tax-delinquent properties at risk from the impacts of natural and human-made hazards into productive use. | 2 | 3 | 2 | 0 | 2 | 2 |
| 92 | Action 4-4a. Support new state-funded flood protection and prevention projects. | 3 | 3 | 1 | 3 | 1 | 2.3 |

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| 93 | Action 4-4b Provide non-federal match to project sponsors for FEMA Hazard Mitigation Assistance, NRCS, USACE and other federal funding sources. | 3 | 3 | 2 | 3 | 1 | 2.5 |
| 94 | Action 4-4c. Consider tax incentives and bonds for mitigation. | 2 | 2 | 3 | 0 | 1 | 1.75 |
| 95 | Action 4-2d. Identify funding for sinkhole mitigation. | 3 | 3 | 1 | 0 | 2 | 2 |
| 96 | Action 5-1a. Develop and provide presentations on hazard mitigation programs and sponsor conference booths (exhibits). | 2 | 3 | 3 | 0 | 3 | 2.35 |
| 97 | Action 5-1b. 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. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 98 | Action 5-1c. Work with the Citizen Corps Program to educate the public on hazard mitigation and preparedness. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 99 | Action 5-1d. Conduct a public information campaign through various media outlets. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 100 | Action 5-1e. Collaborate with the business community to implement hazard mitigation information and strategies. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 101 | Action 5-1f. Collaborate with non-profit, non-governmental and civic organizations to help inform their constituents about hazard mitigation. | 2 | 3 | 3 | 0 | 2 | 2.2 |

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| 102 | Action 5-1g. Collaborate with higher education institutions to incorporate hazard mitigation into relevant curricula. | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 103 | Action 5-1h. Prepare hazard mitigation information to disseminate to specific audiences (i.e. multi-lingual, special needs). | 2 | 3 | 3 | 0 | 2 | 2.2 |
| 104 | Action 5-1i. Develop and conduct education efforts that increase residential and business owners' knowledge and awareness of mitigation grants by conducting various outreach activities. | 2 | 3 | 1 | 3 | 2 | 2.25 |
| 105 | Action 5-1j. Work with county and municipal officials to educate property owners about grandfathering and revisions to the NFIP program. | 2 | 3 | 1 | 3 | 2 | 2.25 |
| 106 | Action 5-1k. Increase Pennsylvania participation in the CRS program through a State education strategy. | 2 | 3 | 1 | 3 | 2 | 2.25 |
| 107 | Action 5-1l. Increase public and private awareness about cyber threats. | 3 | 3 | 1 | 3 | 3 | 2.6 |
| 108 | Action 5-1m. Work with Pennsylvania Department of Health to increase awareness about treating and preventing opioid addiction. | 2 | 3 | 1 | 0 | 3 | 1.95 |
| 109 | Action 5-1n. Brief emergency management officials on resources available to respond to opioid addiction in their community. | 2 | 3 | 1 | 0 | 3 | 1.95 |
| 110 | Action 5-1o. Include recovery and resiliency planning as an outreach topic over the planning period. | 2 | 3 | 3 | 0 | 1 | 2.05 |

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| 111 | Action 5-1p. Include the impact of flooding on the agricultural sector as a training and outreach topic over the planning period. | 2 | 3 | 3 | 3 | 2 | 2.65 |
| 112 | Action 5-1q. Increase awareness about the impacts of Climate Change. | 2 | 3 | 3 | 0 | 1 | 2.05 |
| 113 | Action 5-2a. Increase outreach to the 110 priority communities impacted by flooding as identified by PEMA. | 2 | 3 | 1 | 3 | 2 | 2.25 |
| 114 | Action 5-2b. Conduct one meeting annually in each region of the state targeting RL and SRL community officials who serve as HMA grant sponsors. | 3 | 3 | 1 | 3 | 3 | 2.6 |
| 115 | Action 5-2c. Use the RL/SRL marketing and implementation program successes in PA communities as a platform for outreach efforts to other RL/SRL communities. | 2 | 3 | 1 | 3 | 1 | 2.1 |
| 116 | Action 5-2d. Provide an update on SRL and RL mitigation strategies and accomplishments at the annual Commonwealth of Pennsylvania Emergency Management Conference. | 2 | 3 | 1 | 3 | 1 | 2.1 |