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Appendix I Mitigation Action Prioritization

MITIGATION ACTIONS		MULTI-OBJECTIVE MITIGATION ACTION RANKING CRITERIA					PRIORITY #	PRIORITY NAME
ACTION NO.	ACTION DESCRIPTION	EFFECTIVE-NESS	EFFICIENCY	MULTI-HAZARD MITIGATION	ADDRESSES HIGH RISK HAZARD	ADDRESSES CRITICAL COMM/CI		
1	Action 1-1a. Support the maintenance of existing flood protection projects and construction.	2	2	1	3	1	1.8	Low
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	Medium
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	High
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	High
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	Medium
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	High

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7	Action 1-3a. Define critical infrastructure/key resources (CI/KR) in terms of mitigation.	2	2	3	0	3	2.05	Medium
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	Medium
9	Action 1-3c. Leverage support of the nine Regional Task Forces to support critical infrastructure mitigation.	1	1	3	0	3	1.55	Low
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	Medium
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	Medium
12	Action 1-3f. Provide emergency electrical backup generation to key state, county, and municipal critical infrastructure.	2	3	3	3	3	2.8	High
13	Action 1-3g. Add internet interruption to the list of reportable incidents in Knowledge Center.	1	2	2	3	3	2.1	Medium
14	Action 1-4a. Support the sustainment and enhancement of Commonwealth fusion centers.	1	2	3	3	3	2.3	Medium

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15	Action 1-4b. Promote reverse notification systems in high-hazard areas.	2	2	3	3	2	2.35	Medium
16	Action 1-4c. Increase participation in PA Alert.	2	2	3	0	2	1.9	Medium
17	Action 1-4d. Establish Water Monitoring Council Action to improve stream gauge coordination in Commonwealth.	2	2	2	3	2	2.15	Medium
18	Action 1-4e. Complete flood inundation mapping for high risk and high population centers.	2	2	1	3	2	1.95	Medium
19	Action 1-5a. Re-examine impacts of federal levee guidance and identify necessary actions.	2	2	2	3	2	2.15	Medium
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	1	3	2	1.65	Low
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	Medium
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	Medium

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23	Action 1-5e. Encourage local, state, and federal levee system sponsors to develop Emergency Action Plans.	2	2	2	3	2	2.15	Medium
24	Action 1-6a. Continue to conduct statewide training for construction code officials.	2	3	3	0	2	2.2	Medium
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	Medium
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	Medium
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	High
28	Action 1-7b. Identify and implement mitigation actions based on Silver Jacket meeting results.	2	2	2	3	2	2.15	Medium
29	Action 1-7c. Evaluate and enforce appropriate remediation of dams.	3	2	2	3	2	2.35	Medium
30	Action 1-7d. Ensure that all high hazard dams have an Emergency Action Plan, as required.	3	3	2	3	2	2.65	High

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31	Action 1-7e. Reduce the vulnerability of High Hazard potential Dams (HHPDs) as defined by FEMA.	3	3	2	3	3	2.8	High
32	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	Medium
33	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	Medium
34	Action 1-8c. Explore the possibility of providing legal support for floodplain management ordinance enforcement to municipalities.	1	1	3	3	1	1.7	Low
35	Action 1-8d. Revise Suggested Floodplain Provisions (model ordinance) using information obtained through the gap analysis and strategic plan (Action 1-15f).	2	1	1	3	2	1.65	Low
36	Action 1-8e. Schedule and proctor 3 CFM Exams, one each in the Eastern, Central, and Western PEMA Regions every year.	2	2	2	3	2	2.15	Medium
37	Action 1-9a. Conduct formal statewide community risk assessment using Risk Assessment Mitigation Strategies database.	2	2	1	0	2	1.5	Low

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38	Action 1-9b. Work with FIREWISE communities to complete grant applications for outreach and fuels reduction projects.	2	2	1	0	2	1.5	Low
39	Action 1-10a. Support effort to complete subsidence mapping in the Commonwealth.	2	3	1	0	2	1.8	Low
40	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	Low
41	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	Medium
42	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	Medium
43	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	Medium

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44	Action 1-12a. Report the successes of flood-related projects in the annual SHMP 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	Medium
45	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	Medium
46	Action 1-13a. Identify cooperative funding opportunities for natural system protection projects.	2	2	2	3	2	2.15	Medium
47	Action 1-14a. Take steps to protect Pennsylvania's communities from cyber security attacks.	3	3	1	3	3	2.6	High
48	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	High
49	Action 1-15a. Increase NFIP support staff.	3	3	1	3	3	2.6	High
50	Action 1-15b. Provide technical assistance to NFIP communities through Community Assistance Visits (CAV).	3	3	1	3	3	2.6	High

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51	Action 1-15c. Deliver NFIP Training in the Commonwealth to increase local capacity for NFIP administration and enforcement.	3	3	1	3	3	2.6	High
52	Action 1-15d. Increase awareness and local capacity enforce and support Substantial Damage requirements.	2	2	2	2	3	2.15	Medium
53	Action 1-15e. Increase the number of Certified Floodplain Managers (CFMs) in the Commonwealth by developing and delivering CFM training in advance of scheduled CFM exams.	2	2	1	3	3	2.1	Medium
54	Action 1-15f. Complete a gap analysis of the Commonwealth's NFIP Program and subsequent strategic plan to address the findings.	3	3	1	3	3	2.6	High
55	Action 1-15g. Continue to improve the functionality and accessibility of the PA Flood Tool.	2	2	1	3	3	2.1	Medium
56	Action 2-1a. Identify and prioritize critical government facilities and infrastructure that require back-up systems.	2	2	3	3	3	2.5	High
57	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	Medium

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58	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	Medium
59	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	Medium
60	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	Low
61	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	Medium
62	Action 2-3b. Represent the interests of hazard mitigation on the Pennsylvania State Geospatial Coordinating Board (GeoBoard).	2	2	3	0	2	1.9	Medium
63	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	Medium

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64	Action 2-3d. Continue to use and improve GIS capability to prioritize hazard/critical infrastructure for mitigation.	2	3	3	0	3	2.35	Medium
65	Action 2-3e. Acquire remotely sensed data, specifically, orthophotography, as specified in the Commonwealth's Geospatial Strategic Plan.	2	3	3	0	3	2.35	Medium
66	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	Medium
67	Action 2-3g. Designate/develop a reporting mechanism and process that allows local data to be tracked and reported regarding costs and resources associated with the opioid epidemic in order to better understand, quantify and respond to impacts.	3	3	2	1	1	2.2	Medium
68	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	Medium
69	Action 2-4b. Bring county leads and planning champions together for regular meetings, knowledge exchanges, and trainings.	2	3	3	0	1	2.05	Medium

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70	Action 2-4c. Involve appropriate county mitigation plan team members in hazard mitigation implementation activities.	3	3	3	2	2	2.7	High
71	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	High
72	Action 2-4e. Develop County Hazard Mitigation Suggested Curriculum.	3	3	3	0	2	2.4	Medium
73	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	Medium
74	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	Medium
75	Action 2-5c. Identify strategic locations to deploy USACE Power Teams after a disaster.	2	3	3	0	3	2.35	Medium
76	Action 2-6a. Develop County Recovery Plans following the template designed in State Disaster Recovery Plan process.	2	3	3	0	2	2.2	Medium
77	Action 2-6b. Develop a Pennsylvania Resilience Strategy using the Smart Growth America model.	2	3	3	0	2	2.2	Medium

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78	Action 2-6c. Increase capacity of PennDOT's PA Mobility Plan to further estimate the impacts on the transportation system by simulating traffic patterns to reduce transportation accidents	2	2	3	1	2	2.05	Medium
79	Action 2-6c. Continue Implementation Steps of Extreme Weather Vulnerability Study	2	2	3	3	2	2.35	Medium
80	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	Medium
81	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	Medium
82	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	Medium
83	Action 3-1d Work with hazard mitigation stakeholders to provide increased support to Floodplain Managers.	2	3	3	3	2	2.65	High
84	Action 3-1e. Coordinate with USDA on the mass food contamination analysis phase.	2	3	1	0	3	1.95	Medium

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85	Action 3-2a. Maintain and improve Pennsylvania's Standard Operating Guide and other tools.	2	3	3	0	3	2.35	Medium
86	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	Medium
87	Action 3-2c. Update training courses regarding planning, project tools, as well as FEMA eGrants trainings.	2	3	3	0	1	2.05	Medium
88	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	Medium
89	Action 3-2e. Promote Hazard mitigation project tours to showcase successful flood mitigation projects.	2	3	3	3	2	2.65	High
90	Action 3-2f. Explore funding for County EMAP accreditation.	2	2	3	0	1	1.75	Low
91	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	Medium
92	Action 4-1b. Develop and disseminate relevant information on hazard mitigation programs.	3	3	3	1	2	2.55	High
93	Action 4-1c. Document and share in-state success stories and best practices.	3	3	3	1	2	2.55	High

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94	Action 4-1d. Collect more detailed building information for mitigation projects to improve "Losses Avoided" analysis in SHMP.	3	3	3	3		2.55	High
95	Action 4-1e. Press for Act 166 and 167 funding to be allocated.	2	3	1	3	1	2.1	Medium
96	Action 4-1f. Provide legislator webinar to explain disaster declaration and hazard mitigation funding process.	2	2	3	3	1	2.2	Medium
97	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	Medium
98	Action 4-2b. Encourage PA-based professional organizations to be involved in the Silver Jackets Program.	2	3	3	0	2	2.2	Medium
99	Action 4-2c. Develop a working relationship with private insurance and financial sector companies.	2	3	1	3	1	2.1	Medium
100	Action 4-2d. Outreach to utilities to develop ideas to mitigate utility damage outside of easements or rights of way.	2	3	2	3	3	2.6	High
101	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	Medium

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102	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	Medium
103	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	Medium
104	Action 4-4a. Support new state-funded flood protection and prevention projects.	3	3	1	3	1	2.3	Medium
105	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	High
106	Action 4-4c. Consider tax incentives and bonds for mitigation.	2	2	3	0	1	1.75	Low
107	Action 4-2d. Identify funding for sinkhole mitigation.	3	3	1	0	2	2	Medium
108	Action 5-1a. Develop and provide presentations on hazard mitigation programs and sponsor conference booths (exhibits).	2	3	3	0	3	2.35	Medium

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109	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	Medium
110	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	Medium
111	Action 5-1d. Conduct a public information campaign through various media outlets.	2	3	3	0	2	2.2	Medium
112	Action 5-1e. Collaborate with the business community to implement hazard mitigation information and strategies.	2	3	3	0	2	2.2	Medium
113	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	Medium
114	Action 5-1g. Collaborate with higher education institutions to incorporate hazard mitigation into relevant curricula.	2	3	3	0	2	2.2	Medium
115	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	Medium

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116	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	Medium
117	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	Medium
118	Action 5-1k. Increase Pennsylvania participation in the CRS program through a State education strategy.	2	3	1	3	2	2.25	Medium
119	Action 5-1l. Increase public and private awareness about cyber threats.	3	3	1	3	3	2.6	High
120	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	Medium
121	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	Medium
122	Action 5-1o. Include recovery and resiliency planning as an outreach topic over the planning period.	2	3	3	0	1	2.05	Medium
123	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	High

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124	Action 5-1q. Increase awareness about the impacts of Climate Change.	2	3	3	0	1	2.05	Medium
125	Action 5-1r. Develop and implement a comprehensive community education program for youth and families about hazards and mitigation (CREATE Resilience: Community Resilience through Education, Art, Technology and Engagement).	2	2	3	3	1	2.2	Medium
126	Action 5-2a. Increase outreach to the 110 priority communities impacted by flooding as identified by PEMA.	2	3	1	3	2	2.25	Medium
127	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	High
128	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	Medium
129	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	Medium