

**Table D-2
Juniata County Multi-Jurisdictional Hazard Mitigation Plan
Non-Structural Mitigation Measures**

Project Number	Mitigation Measures		Benefit and Prioritization				Implementation			Estimated Cost
	Category	Description/Action Items	Hazard Vulnerability	Impact (1 - 5)	Benefit (1 - 5)	Score	Schedule	Funding	Responsibility	
1	Emergency Services	Implement a countywide electronic damage assessment management tool to increase the efficiency of county and municipal damage survey and reporting	All Hazards	5	5	25	2009-2010	PEMA EMPG	County EMA	\$4,000 - \$5,000
2	Emergency Services	Ensure the County's Standardized Street Addressing Project is completed and maintained to support accurate and timely emergency response	All Hazards	5	5	25	Ongoing	Act 78 of 1990 (as amended by Act 17 of 1998 and Act 56 of 2003)	County EMA	TBD
3	Preparedness	Consider implementing a circuit-rider program to staff and fund a full-time county engineer that would be shared by both the county and participating municipalities to provide technical reviews of municipal subdivision and land development plans, conduct bridge inspections, and perform routine and emergent municipal engineering inspections/reviews	Hazard Vulnerability	5	5	25	2009 and ongoing	SMSG and annual operating budget(s)	County Commissioners, municipalities	\$40,000 - \$50,000 (annual salary)
4	Preparedness	Consider preparing and implementing a countywide floodplain ordinance to provide consistent enforcement and compliance of municipal floodplain management regulations. Ensure such an ordinance meets or exceeds the minimum requirements of the NFIP program.	Flooding	5	5	25	2008 - 2012	LUPTAP, SMSG	County Planning Department, County Commissioners, municipalities	\$25,000 - \$50,000
5	Preparedness	Conduct a thorough critical facilities vulnerability assessment and impact analysis using the HMP's GIS-based critical infrastructure inventory	All Hazards	5	5	25	2007 - 2008 and update concurrently with the HMP 5-year maintenance cycle	Annual work program and budget	County EMA, County Planning Department, Local elected officials	TBD
6	Property Protection	Evaluate and refine the County's repetitive loss structures list by ranking properties based on the number of losses and the value of the claims paid and target the priority properties for buyout opportunities	Flooding	5	5	25	Ongoing	FEMA's Flood Mitigation Assistance program (FMA), the Pre-Disaster Mitigation (PDM) program, and the Hazard Mitigation Grant Program (HMGP).	County Commissioners, County EMA, County Planning Department, HMPO, municipalities	TBD
7	Property Protection	Encourage the County's National Flood Program communities to participate in the NFIP Community Rating System (CRS) and attain discount opportunities on flood insurance premiums	Flooding	5	5	25	Quarterly training	Annual work program and budget	County EMA, County Planning Department, County Commissioners, municipalities	TBD
8	Property Protection	Create a GIS dataset of the locations of the SARA facilities in Juniata County to analyze their vulnerability to potential hazards	All Hazards	5	5	25	Ongoing	Annual program and operating budget	County Commissioners, County Planning Department, County EMA, municipalities	TBD
9	Property Protection	Create a GIS dataset of the locations of the critical facilities in Juniata County to analyze their vulnerability to potential hazards	All Hazards	5	5	25	Ongoing	Annual program and operating budget	County Commissioners, County Planning Department, County EMA, municipalities	TBD

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	Category	Description/Action Items		Impact (1 - 5)	Benefit (1 - 5)	Score		Funding	Responsibility	
10	Public Information	Review and approve the Juniata County DFIRM information and incorporate the data into the Juniata County GIS. Distribute the approved DFIRM data to all Juniata County municipalities in electronic and/or hard copy format.	Flooding	5	5	25	2008	USACE	County EMA, County Planning Department, County Commissioners, municipalities	TBD
11	Emergency Services	Update the Juniata County EOP to be consistent with the National Response Plan	All Hazards	4	5	20	2009-2010	PEMA EMPG	County EMA	\$25,000 - \$30,000
12	Emergency Services	Continue to work with the Pennsylvania Department of Health and the Pennsylvania Emergency Management Agency to implement a Strategic National Stockpile Plan for Juniata County and the South Central Mountain Counter-Terrorism Task Force (SCMCTF)	Public Health	4	5	20	Ongoing	Centers for Disease Control and Prevention	DOH, PEMA	\$50,000
13	Mitigation Measures	Integrate the 5-year maintenance cycle of the Hazard Mitigation Plan with both the 10-year and biennial review and maintenance cycles of the County Comprehensive Plan and County Regional Emergency Operations Plan, respectively (see Plan Maintenance Process Section of the HMP)	All Hazards	4	5	20	See Figure 5-1	PDM, LUPTAP, SMSG, General Fund, EMPG	County Commissioners, County EMA, County Planning Department, HMPO	TBD
14	Preparedness	Obtain first floor flood elevation data for the county's inventoried critical infrastructure and intersect this information with the base flood elevations to identify high risk facilities and formulate mitigation strategies	Flooding	4	5	20	2008-2012	Annual work program and operating budget	Recommended County Engineer Circuit Rider	TBD
15	Public Information	Incorporate the County's Flood Warning and Response System (FWRS) Procedures into Emergency Support Function 2 (Communications and Warning) of the County's Regional EOP	Flooding	4	5	20	2009	Annual work program and operating budget	County EMA	TBD
16	Emergency Services	Prepare a countywide Emergency Communications Procedures Manual (ECPM) to establish a consolidated and uniform set of communications policies and procedures for Juniata County's fire, EMS, and police services	All Hazards	4	4	16	2009	SCMCTF	County EMA	\$10,000
17	Natural Resources Protection	Prepare and enact stormwater management ordinances consistent with Act 167 Stormwater Management Plans	Flooding	4	4	16	2010-2015	DEP Act 167	County Planning Department, municipalities	TBD
18	Preparedness	Prepare and implement a Continuity of Government Plan for Juniata County Government	All Hazards	4	4	16	2008	SCMCTF	County Commissioners	\$25,000 - \$30,000
19	Property Protection	Conduct outreach to municipalities to ensure continued compliance with NFIP	Flooding	4	4	16	Ongoing	Annual program and operating budget	County Commissioners, County EMA	TBD
20	Emergency Services	Create and maintain a web-based inventory of the County's special needs population to strengthen emergency response and evacuation operations	All Hazards	3	5	15	2008-2009	PEMA PDM Grant	County EMA	\$15,000 - \$20,000
21	Preparedness	Maintain a countywide capital improvements plan to program, schedule, prioritize, and budget both county and municipal capital improvements	All Hazards	3	5	15	5-year plan with annual reviews	Annual work program and operating budget	County Commissioners and municipalities	TBD

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Project Number	Mitigation Measures		Benefit and Prioritization	Benefit and Prioritization			Implementation			Estimated Cost
	Category	Description/Action Items		Hazard Vulnerability	Impact (1 - 5)	Benefit (1 - 5)	Score	Schedule	Funding	
22	Preparedness	Collect and analyze data on the specific locations and damages caused by flooding in each of the municipalities in Juniata County to include in the 5-year update of the Hazard Mitigation Plan	Flooding	3	5	15	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
23	Property Protection	Maintain a list of repetitive loss structures from the Governor's Center for Local Government Service's NFIP Coordinator and incorporate the data into the County's Hazard Mitigation Planning project	Flooding	3	5	15	Ongoing	Annual work program and operating budget	County EMA, County Planning Department, County GIS, County HMPO	TBD
24	Public Information	Update and digitize the Juniata County tax parcel database to allow for GIS analysis of the floodplain and more detailed potential property losses estimates	Flooding	3	5	15	Ongoing	Annual work program and operating budget	County EMA, County Planning Department, County GIS	TBD
25	Public Information	Expand the utilization of the PennFIRS fire reporting system and include this data into the 5 year update of the HMP.	Fire	3	4	12	2009-2010	Annual work program and operating budget	County Commissioners, County Office of Planning Department, County EMA, municipalities	TBD
26	Mitigation Measures	Continue to solicit input from municipalities and public and private stakeholders, including local schools and colleges, the Chamber of Commerce, and other groups, for the Hazard Mitigation Plan update	All Hazards	3	4	12	Ongoing	Annual work program and operating budget	County Commissioners, County EMA, County Planning Department	TBD
27	Mitigation Measures	Continue to work with municipalities to identify and incorporate hazard mitigation project opportunity forms to include in the 5 year update of the HMP.	All Hazards	3	4	12	Ongoing	PEMA, FEMA, See Table D-4	County Commissioners, County EMA, municipalities	TBD
28	Preparedness	Consider adopting a county-wide post-disaster recovery and reconstruction ordinance using the model ordinance included in the APA/FEMA PAS Report No. 483/484	All Hazards	3	4	12	2009-2010	SMSG, EMPG	County Commissioners	\$10,000 - \$15,000
29	Public Information	Maintain the County's Hazard Mitigation Planning GIS datasets and disseminate the information to municipalities through ESRI's free ArcGIS Explorer software	Flooding	3	4	12	Ongoing	Annual work program and operating budget	County EMA, County GIS	TBD
30	Preparedness	Work with the Chambers of Commerce to encourage all business owners to prepare and implement a Business Continuity Plan to provide safeguards against business activity interruptions	All Hazards	5	2	10	Quarterly training	Annual work program and operating budget	County EMA, County Commissioners	TBD
31	Emergency Services	Strengthen the County's domestic animal health surveillance by familiarizing the Juniata County agricultural community with the list of reportable diseases and conditions related to animal health per the Office of International Epizootics (OIE) and the Pennsylvania Domestic Animal Act (Act 100 of 1996)	Public Health	3	3	9	Annual	Annual work program and operating budget	County EMA, PSU County Extension Agency, PDA	TBD
32	Preparedness	Collect and analyze data on the specific impacts severe winter weather has on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Sever Winter Weather	3	3	9	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
33	Preparedness	Collect and analyze data on the specific impacts droughts have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Drought	3	3	9	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD

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Project Number	Mitigation Measures		Benefit and Prioritization	Benefit and Prioritization			Implementation			Estimated Cost
	Category	Description/Action Items		Hazard Vulnerability	Impact (1 - 5)	Benefit (1 - 5)	Score	Schedule	Funding	
34	Emergency Services	Continue to work with the County's agricultural community to develop and implement the County Animal Response Team (CART) to strengthen the County's comprehensive emergency management program	All Hazards	2	4	8	Ongoing	Annual work program and operating budget	County EMA, PSU Extension Agency, and PDA	TBD
35	Natural Resources Protection	Prepare Act 167 Stormwater Management Plans for the DEP-designated stormwater management watersheds draining Juniata County	Flooding	2	4	8	2010-2015	DEP Act 167	County Commissioners, Planning Department, County Conservation District	\$150,000 - \$250,000
36	Natural Resources Protection	Ensure County and municipal subdivision and land development ordinances are consistent with Chapter 102 Erosion & Sedimentation Control requirements	Flooding	2	4	8	Ongoing	Annual work program and operating budget	County Planning Department	TBD
37	Preparedness	Collect and analyze data on the specific impacts severe temperatures have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Severe Weather	3	2	6	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
38	Preparedness	Collect and analyze data on the specific impacts dam failures have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Dam Failure	3	2	6	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
39	Preparedness	Collect and analyze data on the specific impacts transportation accidents have on Juniata County and its municipalities and identify areas in need of safety improvements to include in the 5-year update of the Hazard Mitigation Plan	Transportation	3	2	6	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
40	Preparedness	Collect and analyze data on the utility providers in Juniata County and the specific impacts power failures have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Power Failure	3	2	6	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
41	Preparedness	Collect and analyze data on the specific impacts an infestation of forest insects and disease would have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Forest Insects and Disease	3	2	6	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
42	Public Information	Conduct analysis on the future demand for expanded infrastructure and critical facilities in Juniata County	All Hazards	2	3	6	Ongoing	Annual work program and operating budget	County EMA, County Planning Department	TBD
43	Emergency Services	Maintain the County's Commodity Flow Study to ensure the County planning department, first responders, and local officials understand the types, frequencies, and amounts of hazardous materials being transported through its borders	Hazardous Materials	2	2	4	Every 5-years to coincide with HMP maintenance cycle	PEMA EMPG, Act 165	County EMA	\$25,000 - \$30,000
44	Emergency Services	Develop and maintain a GIS dataset of all municipal Traffic Control Points (TCP) and Access Control Points (ACP) for evacuation route planning	All Hazards	2	2	4	Quarterly training	Annual work program and operating budget	County EMA	TBD

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	Category	Description/Action Items		Hazard Vulnerability	Impact (1 - 5)	Benefit (1 - 5)	Score	Schedule	Funding	
45	Natural Resources Protection	Develop a countywide greenway plan as an integral part of the County Comprehensive Plan update to manage development and its encroachment on floodplains, and impact on riparian buffers and stream corridors	Flooding	2	2	4	2010	LUPTAP, SMSG	County Commissioners, County Planning Department	TBD
46	Preparedness	Collect and analyze data on the specific impacts earthquakes have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Earthquake	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
47	Preparedness	Collect and analyze data on the specific impacts hurricanes and tropical storms have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Hurricanes and Tropical Storms	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
48	Preparedness	Collect and analyze data on the specific impacts tornados have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Tornado	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
49	Preparedness	Collect and analyze data on the specific impacts wildfires have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Wildfire	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
50	Preparedness	Collect and analyze data on the specific impacts sinkholes have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Sinkholes	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
51	Preparedness	Collect and analyze data on the specific impacts landslides have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Landslide	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
52	Preparedness	Collect and analyze data on the specific impacts urban fires and wildfires have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Fire	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
53	Preparedness	Collect and analyze data on public health emergencies and what specific impacts an outbreak or pandemic would have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Public Health Emergencies	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
54	Preparedness	Identify potential terrorism targets, collect and analyze data on the specific impacts potential terrorism tasks, and include in the 5-year update of the Hazard Mitigation Plan	Terrorism	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
55	Preparedness	Collect and analyze data on the specific impacts a nuclear power plant disaster would have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Nuclear Power Plant	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
56	Preparedness	Collect and analyze data on the specific impacts subsidence events would have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Subsidence	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD

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	Category	Description/Action Items		Impact (1 - 5)	Benefit (1 - 5)	Score	Schedule	Funding	Responsibility	
57	Preparedness	Identify areas where civil disorder may occur and collect and analyze data on the specific impacts acts of civil disorder may have on Juniata County and its municipalities to include in the 5-year update of the Hazard Mitigation Plan	Civil Disorder	2	2	4	2008-2012	Annual work program and operating budget	County EMA, County Planning Department, municipalities	TBD
58	Public information	Collaborate with the DEP Bureau of Radiation Protection to ensure the State's Radon Awareness Campaign and public service announcements are disseminated throughout Juniata County	Radon	2	2	4	Ongoing, Quarterly Training	Annual work program and operating budget	County EMA, County Planning Department, DEP	TBD
59	Public Information	Maintain and disseminate a list of DEP-certified radon testers, mitigators, and laboratories (current lists are available through DEP at http://www.dep.state.pa.us/dep/deputate/airwa ste/rp/Radon_Division/Radon_Homepage.htm)	Radon	2	2	4	Ongoing, Quarterly Training	Annual work program and operating budget	County EMA	TBD
60	Emergency Services	Ensure all applicable private industrial, commercial, and public utility service providers have a current Environmental Emergency Response Plan per the Federal Clean Water Act, the Pennsylvania Clean Streams Law (35 P.S. §§691.1-691.1001), the Pennsylvania Solid Waste Management Act, the Pennsylvania Storage Tank Act, the Oil Pollution Act and regulations promulgated thereunder	Hazardous Materials	1	3	3	Annual	Annual work program and operating budget	County EMA, Private Sector	TBD
61	Emergency Services	Ensure all County GIS staff receive regular HAZUS training from EMI	All Hazards	1	2	2	As needed	Annual work program and operating budget	County EMA	TBD