PERRY COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN
INTRODUCTION

This multi-jurisdictional hazard mitigation plan has been created and subsequently revised in accordance with Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as enacted by Section 104 of the Disaster Mitigation Act of 2000. The guidelines for the completion of this plan appear in the Code of Federal Regulations under Title 44: Emergency Services, Part 201.6.

The Perry County office of the Ohio Emergency Management Agency (OEMA) monitored the hazard mitigation planning process. The villages of Coming and Crooksville have independently completed jurisdiction-specific Hazard mitigation plans for their respective villages.

The Perry County Emergency Management Agency (EMA) acted as the lead agency for the completion of this plan at the local level. The EMA contracted a consultant to facilitate the completion of the plan. The plan was formally adopted by each participating jurisdictions in early 2005. The task of revising and updating the plan to 2011 was contracted to the Perry Soil and Water District.

The Perry County Multi-Jurisdictional Hazard Mitigation Plan is considered "multi-jurisdictional" for the following reasons. In addition to the county governing body of Perry County, all municipal jurisdictions, township officials, Fire, EMS, and law enforcement as well as all government offices were invited to participate in the revision process.

DOCUMENTATION OF THE PLANNING PROCESS – PERRY COUNTY

Including the municipalities of the county

As per requirement 44 CFR Part 201.6(c)(1): [The plan must document] the planning process used to develop the plan, including how it was prepared, who was involved in the process, and how the public was involved.

OVERVIEW

At the direction of the Perry County Emergency Management Agency (EMA), the Perry Soil and Water Conservation District provided contractual services to assist Perry County and its municipalities to revise and update the Multi-Jurisdictional Hazard Mitigation Plan. The goal being: To update and identify probable hazard risks, profile future hazard events, estimate damage and losses as a result of future hazard events, and advocate mitigative projects to reduce the effects of the identified hazards on the communities within the county. The plan aims to create safer, more disaster-resistant communities.

The Perry SWCD and the Perry County EMA compiled a Hazard Mitigation Core Planning Committee (HMC), known as project stakeholders, to be invited to meet and be responsible for the development and implementation of the plan.

METHODOLOGY

The risk assessment phase of the mitigation plan and the updates were completed using a variety of research techniques. Federal Emergency Management Agency (FEMA), National Oceanic and Atmospheric Administration (NOAA), and other Internet sites were searched for historical hazard event records. Searches were made of local newspaper archives and existing reports and plans that were on file with the county. Interviews and discussions were conducted with numerous local officials and county agencies. The general public was involved in the process, through advertisement of the public meetings in the local newspaper.

Stakeholders were identified and contacted with a letter questionnaire. The intent of the questionnaire was to gain as much input as possible from stakeholders as possible if they could not attend the scheduled meetings, to discuss and get their feedback. The stakeholders' ideas were used in the revision process..

The following documents is the list of stakeholders contacted for input, a sample letter that was sent and a blank questionnaire form

FORMAL ADOPTION OF THE PLAN

Governmental units in Perry County worked cooperatively to complete this update to the hazard mitigation plan with the help of the Perry County EMA. To show each entity's dedication to implementing this plan, all entities adopted formal resolutions to implement the plan in their jurisdiction. Copies of the adopting documents were included in the plan.

Name	Title	Address 1	City	ST	Zip	Phone
Lonnie Wood	Perry County Commissioner	121 West Brown Street	New Lexington	OH	43764	342-2045
Fred Shriner	Perry County Commissioner	121 West Brown Street	New Lexington	OH	43764	342-2045
Ed Keister	Perry County Commissioner	121 West Brown Street	New Lexington	OH	43764	342-2045
Rita Spicer	Perry County EMA Director	121 West Brown Street	New Lexington	OH	43764	342-1141
Katrina Carpenter	Independent Contractor - Perry County EMA	3791 Cooperriders Road	Somerset	OH	43783	605-9522
William Barker	Perry County Sheriff	110 West Brown Street	New Lexington	OH	43764	342-4123
Angela DeRolph	Perry County Health Commissioner	212 South Main, Lower Level	New Lexington	OH	43764	342-5179
Kent Cannon	Perry County Engineer	2645 Old Somerset Road	New Lexington	OH	43764	342-2191
Jim Hart	Perry County Waste Reduction & Recycling	118 West Brown Street	New Lexington	OH	43764	342-7881
John Ulmer	Perry County Chamber of Commerce	121 South Main Street	New Lexington	OH	43764	342-3547
Mike Strode	Farm Services Agency	109-B East Gay Street	Somerset	OH	45783	743-1616
Justin Hunter	NRCS District Conservationist	109-A East Gay Street	Somerset	OH	43783	743-1325
Ted Wiseman	OSU Extension Service-Perry County	104 South Columbus Street	Somerset	OH	43783	743-1602
Eric Lane	Wildlife Officer	360 East State Street	Athens	OH	45701	589-9993
Jamie Lentz	Perry SWCD Board	5195 Tollgate Road	Somerset	OH	43783	605-1105
David Noll	Perry SWCD Board	3776 Twp. Rd. 121 NE	Somerset	OH	43783	743-2426
Dennis Young	Perry SWCD Board	8460 St. Rt. 13 NW	Somerset	OH	43783	743-2285
Tonya Cline	Perry SWCD Board	5235 Twp. Rd. 98	Thornville	OH	43076	743-9102
Kris Bashore	Perry SWCD Board	9999 St. Rt. 13 NW	Thornville	OH	43076	246-2136
Robin Zinn	Crooksville Police Department	98 South Buckeye	Crooksville	OH	43731	982-2666
Amy English	Junction City Police Department	111 West Front Street	Junction City	OH	43748	987-5511
Scott Ervin	New Lexington Police Department	215 South Main Street	New Lexington	OH	43764	342-4111
Jeff Slack	Roseville Police Department	107 North Main Street	Roseville	OH	43777	697-7315
Jeremy VanDermark	Somerset Police Department	100 Public Square	Somerset	OH	43783	743-1803
Darrell Ball	Thornville Police Department	1 South Main Street	Thornville	OH	43076	246-5511
Kevin Wintermute	Corning Village Police Department	115 South Corning Avenue	Corning	OH	43730	347-4476
William Evans III	New Straitsville Police Department	114 West Main Street	New Straitsville	OH	43766	394-2425
Curtis Bragg	Corning Volunteer Fire Department & EMS	107 East Main Street	Corning	OH	43730	347-4511
Fred Redfern	Crooksville Fire Department & EMS	98 South Buckeye Street	Crooksville	OH	43731	982-6801
Glen Sickles	Hopewell Twp. Fire & EMS	107 East Broad Street	Glenford	OH	43739	659-2262
John Mason	Junction City Volunteer Fire Department & EMS	109 Mulberry Street	Junction City	OH	43748	987-3001
Paul Owings	Monday Creek Twp. Vol. Fire Department & EMS	4435 Twp. Rd. 386 SW	Logan	OH	43138	385-2361
Rob Stallings	New Lexington Fire Department & EMS	215 South Main Street	New Lexington	OH	43764	342-4535
John Spicer	New Straitsville Vol. Fire Department & EMS	118 West Main Street	New Straitsville	OH	43766	394-2400

Name	Title	Address 1	City	ST	Zip	Phone
Mike Henderson	Somerset-Reading Township EMS	302 South Market Street	Somerset	OH	43783	743-1441
James Dishon	Shawnee Vol. Fire Department & EMS	9790 Ironpoint Road	Shawnee	OH	43782	394-2900
John Clouse	Somerset-Reading Twp. Fire Department	112 East Main Street	Somerset	OH	43783	743-1655
Duane Moore	Thorn Township Fire Department & EMS	25 East Columbus Street	Thornville	OH	43076	246-6735
David Sobers	Village of Corning	110 Jefferson Street	Corning	OH	43730	347-9011
Dennis Harvey	Village of Crooksville	213 East Brown Street	Crooksville	OH	43731	982-7005
Leonard Sheppard	Village of Glenford	107 North Main Street	Glenford	OH	43739	659-2009
Robert Lanning	Village of Hemlock	8434 High Street	Hemlock	OH	43730	394-2210
Ronald Gleason, Sr.	Village of Junction City	111 Front Street NW	Junction City	OH	43748	987-4121
Janine Conrad	Village of New Lexington	125 South Main Street	New Lexington	OH	43764	342-1633
David A. Brown	Village of New Straitsville	114 West Main Street	New Straitsville	OH	43766	394-2425
Chris Harris	Village of Rendville	6210 Sycamore Street SE	Corning	OH	43730	347-4513
Kimberly Dixon	Village of Roseville	103 Broad Street	Roseville	OH	43777	697-7323
John Arkley	Village of Shawnee		Shawnee	OH	43782	394-2462
Tom Johnson	Village of Somerset	200 Public Square	Somerset	OH	43783	743-2963
Beth Patrick	Village of Thornville	3 South Main Street	Thornville	OH	43076	246-6020
Darron Rambo	Bearfield Township Trustee	2681 St. Rt. 93 NE	Crooksville	OH	43731	982-0304
Justin Baker	Clayton Township Trustee	3438 Old Somerset Road	Somerset	OH	43783	342-2097
Raymond Jenks	Coal Township Trustee		New Straitsville	OH	43766	394-1034
Barney Printz	Harrison Township Trustee	315 Mohican Drive	Crooksville	OH	43731	982-5956
Ed Coble	Hopewell Township Trustee	14322 Twp. Rd. 65	Glenford	OH	43739	659-2526
David L. Folk	Jackson Township Trustee		Junction City	OH	43748	987-2641
Gary Chapman	Madison Township Trustee	6875 Kroft Road NE	Mount Perry	OH	43760	787-1293
Jerry Brown	Monday Creek Township Trustee	5607 Twp. Rd. 131 SE	New Straitsville	OH	43766	385-0177
Joseph Duffy	Monroe Township Trustee	7100 Jefferson Street	Corning	OH	43730	347-4740
Mike Boley	Pike Township Trustee	4842 Marietta Road SE	New Lexington	OH	43764	342-1374
Robert Plant	Pleasant Township Trustee	4464 St. Rt. 13	Corning	OH	43730	347-4557
James Emmert	Reading Township Trustee	7155 St. Rt. 13	Somerset	OH	43783	743-2000
James Denny	Saltlick Township Trustee	658 West Main Street	Shawnee	OH	43782	394-2227
Dick Boring	Thorn Township Trustee	15242 Twp. Rd. 28 NW	Thornville	OH	43076	246-6889

February 18, 2011

Lonnie Wood
Perry County Commissioner
121 West Brown Street
P.O. Box 248
New Lexington, OH 43764

Dear Lonnie Wood,

The Perry SWCD is working in conjunction with the office of the Perry County Emergency Management Agency and the Board of County Commissioners to revise the Natural Hazard Mitigation Plan for the county. This is your initial contact of what will be a multi-step process.

Our efforts are required to complete the necessary updates to the plan, which was completed in 2005. The multi-jurisdictional Hazard Mitigation Plan includes all hazards to which the county is susceptible, per Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act.

Your agency has been identified as a primary stakeholder in dealing with, and responding to potential disasters that can impact Perry County. I have included a list of the stakeholders with this letter. Being a primary Stakeholder, you are also part of the Hazard Mitigation Core Planning Committee (HMC). As part of the HMC we need first-hand input from your organization to update the Hazard Mitigation Plan. Without your input the County cannot meet the requirements of FEMA to complete this needed revision.

The first meeting of the HMC is scheduled for 6:30 p.m. on March 8, 2011 at the Perry County EMA office located at 121 West Brown Street, New Lexington. We will also schedule two public meetings at a later date to get general public input. I understand the time restrictions everyone has and I know it will be impossible to get everyone to an input meeting, therefore in order to obtain the required input from each and every agency I have enclosed a form that you can complete for each natural threat you see affecting your specific entity. If you cannot attend the March 8th meeting, please mail or email your responses with thoughts and concerns back to me prior to Thursday March 3rd so we can compile, and have that information for the meeting. I must receive this information back from each stakeholder in order for the county to meet the requirements for the updated plan.

For your reference in this input process I have also enclosed an excerpt from the initial plan – "Identified hazards of Perry County." Hazard Mitigation strategies fall into several categories. The categories that have been identified are:

1. Prevention
2. Property protection
3. Natural Resource Protection
4. Structural projects
5. Emergency Services
6. Public Education and Awareness

If other categories are identified in the revision process they will be added to the revised plan. I have also enclosed an excerpt from the initial plan, "Implementation of Mitigation Measures-Perry County."

If you are a village that has completed a Hazard Mitigation Plan independent of the County, please forward a copy of your plan, with all current updates, so that we may include it as an addendum to the County plan.

Your response is critical toward putting together an effective working tool in the form of a comprehensive Hazard Mitigation Plan for Perry County. The above mentioned meetings will be scheduled in the near future and you will receive advance notice of the dates.

Responses should be mailed to the following address prior to March 3rd:

Perry Soil and Water Conservation District
Attn: Ben Carpenter
109-A East Gay Street
PO Box 337
Somerset OH 43783

If you have any questions don't hesitate to contact me 740-743-1325 or email me at bencarpenter.swcd@att.net

Sincerely,

Benjamin Carpenter
Program Administrator, Perry SWCD
Flood Plain Administrator, Perry County

To Be Completed by each stakeholder:
(Copy this form as needed for each, identified hazard)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your local annual operations:

Hazard: (be specific)

_____

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)

_____

_____

_____

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)

_____

_____

_____

_____

_____

_____

_____

Time frame for your proposed Mitigation Strategy? (How long will it take?) _____

Cost Estimate and possible funding source: _____

Possible Agencies involved: _____

One or more of the 6 Mitigation types listed in the letter that this falls under:

_____

LOCAL HAZARD MITIGATION GOALS – PERRY COUNTY

Including the municipalities and townships of the county

As per requirement 44 CFR Part 201.6(c)(3)(i): [The hazard mitigation strategy shall include: a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

STAKEHOLDERS (Core Planning Committee)

In 2005 the Perry County Emergency Management Agency (EMA) compiled a representative group of stakeholders to be known as the Hazard Mitigation Core Planning Committee (HMC), this stakeholders group is composed of representatives from the following agencies and organizations.

- New Lexington City
- Coming Village
- Crooksville Village
- Glenford Village
- Hemlock Village
- Junction City Village
- New Straitsville Village
- Rendville Village
- Shawnee Village
- Somerset Village
- Thornville Village
- Monday Creek Township
- New Lexington Fire Department
- Perry County EMA
- Local Health Department
- Perry County Recycling
- SBC-911
- Perry County Community Improvement Corporation
- Perry County Commission
- R.D. Zande & Associates, Inc.

METHODOLOGY

In the spring of 2004, the Perry County EMA undertook a project to identify the natural hazards that affect Perry County. This project was known as the Perry County Hazard Risk Assessment (HRA). The HRA included not only a listing of the hazards to which the county is susceptible, but also an analysis of the county's vulnerability to the hazards. The HRA includes an inventory of the county's assets, including critical facilities, economic assets, vulnerable populations, etc., and indicates the potential loss each of the assets could incur as a result of the identified hazards. The HRA also includes a brief analysis of development trends in the county.

The Perry County EMA and HMC identified several goals, objectives and strategies to mitigate the hazard risks identified in the Perry County HRA. This identification process was completed through HMC meetings and public review sessions.

GOALS, OBJECTIVES, AND STRATEGIES

Through this process the Perry County EMA and HMC determined several goals, objectives, and strategies to mitigate the hazard risks identified in the county's HRA. These mitigation actions were developed based on projects thought to be most feasible and beneficial to hazard reduction. It is important to note that not all hazards appearing in the HRA have a significant number of mitigation strategies suggested. For many hazards, public awareness is the most feasible, cost effective and beneficial strategy.

The following strategies were assigned tentative cost estimates. These cost estimates were not based on any engineer's or contractor's estimations. All figures are approximations. At the time the implementation of any strategy is considered, a full cost estimate should be sought prior to securing funding.

Mitigation strategies fall into several categories. Following, each strategy is listed with the category to which it belongs. The categories of mitigation strategies are:

1. Prevention
2. Property Protection
3. Natural Resource Protection
4. Structural Projects
5. Emergency Services
6. Public Education and Awareness

GOAL 1: Reduce the potential for property damage as a result of dam failures in Perry County.

Objective 1.1: Reduce the probability of significant flood damage as a result of a dam failure.

Strategy 1.1.1: Coordinate with the Ohio Department of Natural Resources, Division of Water, in accordance with ORC Section 1512.062, to periodically reclassify any dam within Perry County as a result of a change in circumstances not in existence at the time of the dam's initial classification to ensure adequate safety according to the potential for downstream damage.

Timeframe:	3 months
Funding (Cost Estimate):	ODNR quite possibly has items such as this budgeted, as this project would fall under the responsibilities of ODNR personnel. (N/A)
Coordinating Agency:	ODNR, Dam Owner
Mitigation Type:	Prevention

Strategy 1.1.2: Coordinate with officials in Athens and Morgan Counties to provide notification and warning of a failure of the Burr Oak Reservoir Dam, which would greatly affect Perry County, especially the Village of Corning.

Timeframe:	At times of potential dam failure
Funding (Cost Estimate):	No additional funding required. (N/A)
Coordinating Agency:	Perry County EMA, Athens and Morgan County Officials
Mitigation Type:	Prevention, Public Education and Awareness

Strategy 1.1.3: Coordinate with the US Army Corps of Engineers to update outdated flood studies encompassing areas affected by the failure or topping of the Class I dams within and near Perry County, including, for example,

the Tecumseh Lake Dam, Buckeye Lake Dam, and Burr Oak Reservoir Dam.

Timeframe:	5 years
Funding (Cost Estimate):	Coordination with USACOE will require no additional funding. (N/A)
Coordinating Agency:	USACOE, Perry County EMA
Mitigation Type:	Prevention

Strategy 1.1.4: Coordinate with the ODNR, Dam Safety Engineering Program to conduct periodic safety inspections of existing dams in Perry County, and garner community support for the removal or repair of dams in disrepair.

Timeframe:	1 year
Funding (Cost Estimate):	No funding required per ODNR's normal operating budget. (N/A)
Coordinating Agency:	ODNR
Mitigation Type:	Prevention

GOAL 2: Protect Perry County's agricultural assets from the negative effects of a drought.

Objective 2.1: Increase public awareness as to the agricultural effects of drought, as well as the ramifications to the public water supply.

Strategy 2.1.1: Educate local residents on the benefits of conserving water at all times, not just during a drought.

Timeframe:	1 year
Funding (Cost Estimate):	Local Funding ($3,000 for publication and distribution of informative materials)
Coordinating Agency:	Local Water Providers
Mitigation Type:	Public Education and Awareness

Objective 2.2: Develop methods for the procurement of an emergency water supply.

Strategy 2.2.1: Coordinate mutual aid agreements with water hauling companies to have emergency supplies of water hauled into Perry County.

Timeframe:	2 years
Funding (Cost Estimate):	Coordinating mutual aid agreements will require no funding; however, initiating any sort of agreement may require local funding. (N/A)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Emergency Services

Strategy 2.2.2: Develop a proclamation to prioritize or control water use during emergency drought conditions to be promulgated as situations dictate.

Timeframe:	1 year
Funding (Cost Estimate):	Developing a proclamation will require no additional funding. (N/A)
Coordinating Agency:	County Commission, Municipal Councils
Mitigation Type:	Prevention

GOAL 3: Reduce the potential effects of earthquakes in Perry County.

Objective 3.1: Educate the public as to the potential for earthquakes in Ohio, specifically Perry County.

Strategy 3.1.1: Develop an informational brochure explaining the potential for earthquakes, as well as the potential damages from those earthquakes. The brochure should include information pertaining to measures to take to safe-proof homes and other structures from the potential effects of earthquakes.

Timeframe:	6 months
Funding (Cost Estimate):	PDM ($3,000 for publication and distribution of informative materials)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

Strategy 3.1.2: Educate local officials as to conditions in Perry County that would compound the effects of an actual earthquake, such as soil type, etc.

Timeframe:	1 year
Funding (Cost Estimate):	This strategy could be accomplished through a cooperative meeting with EMA staff. (N/A)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

GOAL 4: Protect Perry County's population from an epidemic.

Objective 4.1: Increase public awareness and knowledge after an epidemic has been declared.

Strategy 4.1.1: Produce public awareness campaigns on local media outlets.

Timeframe:	Immediately following declaration
Funding (Cost Estimate):	PDM, Local Funding (Unknown; contingent upon local media rates)
Coordinating Agency:	Perry County EMA, Local Health Department
Mitigation Type:	Public Education and Awareness

Objective 4.2: Limit or eliminate the spread of diseases by reducing the source of the infection.

Strategy 4.2.1: Identify the source of the epidemic and determine appropriate actions for the general public to take to reduce or slow the spread of the epidemic, especially following severe flooding.

Timeframe:	Next epidemic outbreak
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Local Health Department
Mitigation Type:	Emergency Services

GOAL 5: Reduce the negative effects of flooding in Perry County.

Objective 5.1: Lessen flood damage by preserving the natural course of waterways.

Strategy 5.1.1: Clean/drag creeks and streams, clearing log jams, trees and shrubs, and sediment bars.

Timeframe:	5 years
Funding (Cost Estimate):	USACOE, Local Funding (even small sections of streams could cost as much as $50,000 to $100,000)
Coordinating Agency:	USACOE , County Engineer
Mitigation Type:	Prevention

Objective 5.2: Increase coordination among pertinent individuals/groups to mitigate flood hazards.

Strategy 5.2.1: Facilitate the formation of flood task forces throughout the county to address flooding problems on a regular basis, which could include the Floodplain Coordinator and Township Trustees.

Timeframe:	2 years
Funding (Cost Estimate):	The formation of an action groups will require no additional funding. Projects undertaken or initiated by the groups, however, may require funding. (N/A)
Coordinating Agency:	Interested Individuals
Mitigation Type:	Public Education and Awareness

Strategy 5.2.2: Review and update floodplain maps on a regular basis.

Timeframe:	On-going
Funding (Cost Estimate):	FEMA is currently undertaking a flood map modernization project across the nation. (N/A)
Coordinating Agency:	FEMA
Mitigation Type:	Public Education and Awareness

Strategy 5.2.3: Develop specific flood mitigation plan(s) to accompany this mitigation plan for flood-prone areas.

Timeframe:	2 years
Funding (Cost Estimate):	FEMA, Ohio EMA (FMA Program), Local Funding ($30,000 to $60,000 if a consultant is used).
Coordinating Agency:	Perry County EMA (for county jurisdiction)
Mitigation Type:	Prevention

Strategy 5.2.4: Participate in the Community Rating System (CRS) and join the National Flood Insurance Program (NFIP) where applicable to reduce flood insurance rates.

Timeframe:	3 years
Funding (Cost Estimate):	Participating in these programs require no additional funding. (N/A)
Coordinating Agency:	Perry County EMA, County Commission, Municipal Councils
Mitigation Type:	Public Education and Awareness

Strategy 5.2.5: Conduct acquisition and relocation projects in flood-prone portions of the county.

Timeframe:	2 years
Funding (Cost Estimate):	HMGP (Average projects consist of 3 properties, average property value is $72,500.)
Coordinating Agency:	Perry County EMA, County Commission, Municipal Councils

Objective 5.3: Reduce flood damage by undertaking structural projects to lessen obstructions to the flow of water.

Strategy 5.3.1: Consider installing, re-routing, or increasing the capacity of existing storm drainage systems that may involve detention and retention ponds.

Timeframe:	5 years
Funding (Cost Estimate):	FMA, PDM, CDBG (up to $5,000,000 to $10,000,000; contingent upon the size of the project)
Coordinating Agency:	County Engineer
Mitigation Type:	Structural Projects

Strategy 5.3.2: Consider elevating low bridge decks or removing bridge piers to allow water to flow freely, especially at times of elevated water levels.

Timeframe:	5 years
Funding (Cost Estimate):	FMA, PDM, CDBG (up to $100,000 to $1,000,000; contingent upon the size of the project)
Coordinating Agency:	County Engineer
Mitigation Type:	Structural Projects

Strategy 5.3.3: Undertake diking projects to channel water away from populated areas, being careful not to adversely affect properties downstream.

Timeframe:	5 years
Funding (Cost Estimate):	FMA, PDM, CDBG ($100,000 to $1,000,000; contingent upon the size of the project)
Coordinating Agency:	County Engineer
Mitigation Type:	Structural Projects

GOAL 6: Lessen hail damage in Perry County.

Objective 6.1: Provide local residents with advanced warning of impending hailstorms.

Strategy 6.1.1: Coordinate efforts with the local media to post advance warnings of hailstorms.

Timeframe:	6 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

Strategy 6.1.2: Encourage the use of NOAA weather radios that continuously broadcast National Weather Service forecasts and provide direct warnings to the public for natural, technological, and man-made hazards.

Timeframe:	3 months
Funding (Cost Estimate):	Encouraging use requires no additional funding; however, purchasing weather radios may require funding (up to $2,000 to purchase and install approximately 15 radios).
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

GOAL 7: Protect Perry County's population and assets from an infestation.

Objective 7.1: Control infestations by limiting the number of vacant structures.

Strategy 7.1.1: Consider demolishing and clearing vacant and/or condemned structures within Perry County to prevent rodent and other infestations.

Timeframe:	5 years
Funding (Cost Estimate):	Local Funding (up to $10,000 per structure demolished; contingent upon size of structure to be demolished.)
Coordinating Agency:	Property Owners
Mitigation Type:	Prevention

GOAL 8: Lessen the effects of mine subsidence in Perry County.

Objective 8.1: Assess the feasibility of undertaking reclamation projects.

Strategy 8.1.1: Coordinate with the Ohio Department of Natural Resources, Division of Mineral Resources Management, Office of Abandoned Mine Lands and Reclamation to undertake reclamation projects if subsidence occurs at a specific location.

Timeframe:	If subsidence occurs
Funding (Cost Estimate):	Coordination should require no significant additional funding; however, a project would require significant funding, primarily from ODNR through the AML&R program. (up to $2,000,000)
Coordinating Agency:	ODNR
Mitigation Type:	Property Protection

Strategy 8.1.2: Consider developing a land use plan or modifying an existing plan to guide development away from and reduce the density of population in subsidence-prone areas.

Timeframe:	2 years
Funding (Cost Estimate):	Local Funding ($10,000 to $50,000)
Coordinating Agency:	County Commission, CIC
Mitigation Type:	Prevention

GOAL 9: Reduce damages from severe thunderstorms in Perry County.

Objective 9.1: Increase public awareness that a severe thunderstorm is imminent.

Strategy 9.1.1: Coordinate with the National Weather Service (NWS) to warn residents of impending severe thunderstorm conditions.

Timeframe:	3 years
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Perry County EMA, NWS
Mitigation Type:	Public Education and Awareness

Strategy 9.1.2: Encourage the use of NOAA weather radios among residents that continuously broadcast NWS forecasts and provide direct warnings to the public for natural, technological, and man-made hazards.

Timeframe:	3 months
Funding (Cost Estimate):	Encouraging use requires no additional funding; however, purchasing weather radios may require funding. (up to $2,000 to purchase and install approximately 15 radios)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

Strategy 9.1.3: Encourage the use of the Emergency Alert System (EAS) on commercial radio, television, and cable systems to send out emergency information targeted to specific areas.

Timeframe:	3 months
Funding (Cost Estimate):	The EAS is already an established, available service. Its use requires no additional funding. (N/A)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

Strategy 9.1.4: Ensure that surge protection, such as surge protectors and grounding, has been installed on all critical electronic equipment owned by county government.

Timeframe:	1 month
Funding (Cost Estimate):	Local Funding (Many efforts have already been taken to ensure the security and safety of the county's critical electronic equipment. This strategy is primarily maintenance, which will cost little.)
Coordinating Agency:	County IT Staff
Mitigation Type:	Prevention

GOAL 10: Reduce damage from severe wind and tornadoes in Perry County.

Objective 10.1: Increase public awareness that severe wind and tornadoes are imminent.

Strategy 10.1.1: Coordinate with the National Weather Service (NWS) to warn residents of impending severe winds and possible tornado conditions.

Timeframe:	3 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Ageney:	Perry County EMA, NWS
Mitigation Type:	Public Education and Awareness

Strategy 10.1.2: Purchase and strategically install warning sirens throughout portions of Perry County.

Timeframe:	2 years
Funding (Cost Estimate):	PDM, Local Funding (up to $5,000/siren)
Coordinating Ageney:	Perry County EMA
Mitigation Type:	Public Education and Awareness

Objective 10.2: Increase public knowledge of what steps to take after a severe windstorm or tornado has occurred.

Strategy 10.2.1: Develop an informational brochure to distribute to local residents.

Timeframe:	6 months
Funding (Cost Estimate):	Local Funding, PDM ($3,000 for publication and distribution)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

Objective 10.3: Conduct an inventory of available shelters within Perry County.

Strategy 10.3.1: Assess the number, location, strength, and ability of shelters to house residents and withstand high wind speeds.

Timeframe:	2 years
Funding (Cost Estimate):	Local Funding, FEMA ($15,000 to $20,000)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Emergency Services

GOAL 11: Reduce the effects of severe winter storms in Perry County.

Objective 11.1: Minimize future damage from severe winter storms throughout Perry County by increasing response capabilities.

Strategy 11.1.1: Develop a Resource Manual Database that can be used to inventory emergency resources that can be employed to aid in emergency snow removal.

Timeframe:	1 year
Funding (Cost Estimate):	PDM, FEMA, DHS (up to $15,000 if contractor is used)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Emergency Services

Objective 11.2: Establish heating centers or shelters for vulnerable populations and stranded motorists.

Strategy 11.2.1: Strategically place or identify existing sites that could be used as emergency shelters throughout Perry County.

Timeframe:	1 year
Funding (Cost Estimate):	Local Funding, FEMA (Performing a survey to identify the shelters could range from $15,000 to $20,000; however, costs for stocking shelters are contingent upon the supplies normally kept at the site.)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Emergency Services

GOAL 12: Protect Perry County's population from heat waves.

Objective 12.1: Increase public knowledge of protective measures to take during heat waves.

Strategy 12.1.1: Develop an informational brochure to distribute to local residents.

Timeframe:	6 months
Funding (Cost Estimate):	Local Funding ($3,000 for publication and distribution)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Public Education and Awareness

GOAL 13: Protect Perry County's population and forests from wildfires.

Objective 13.1: Educate the public on how to avoid starting wildfires.

Strategy 13.1.1: Distribute information concerning the leading causes of wildfires and steps the general public can take to avoid starting wildfires.

Timeframe:	1 year
Funding (Cost Estimate):	ODNR, State Parks Commission, if necessary ($3,000 to $5,000 if state agencies do not already have materials printed)
Coordinating Agency:	ODNR, State Parks Commission
Mltigation Type:	Public Education and Awareness

Strategy 13.1.2: Encourage residents to inspect and clean their chimneys at least once a year.

Timeframe:	6 months
Funding (Cost Estimate):	No funding necessary. (N/A)
Coordinating Agency:	Perry County EMA, Home Owners
Mitigation Type:	Prevention, Property Protection

Strategy 13.1.3: Encourage residents to properly maintain property in or near wild land areas (including short grass, thinned trees, removal of low hanging branches, raking of leaves, and keeping woodpiles and other combustibles away from structures).

Timeframe:	6 months
Funding (Cost Estimate):	No funding necessary. (N/A)
Coordinating Agency:	Perry County EMA, Home Owners
Mitigation Type:	Prevention, Property Protection

Objective 13.2: Reduce the potential for wildfires by limiting the time periods during which burning is permitted to take place.

Strategy 13.2.1: Coordinate with National Forest Officials to determine the feasibility of creating an underbrush management plan for the Wayne National Forest.

Timeframe:	1 year
Funding (Cost Estimate):	Determining feasibility will not require funding; however, an underbrush management plan could range from $5,000 to $10,000.
Coordinating Agency:	National Forestry Officials, County Commission
Mitigation Type:	Prevention, Natural Resource Protection

GOAL 14: Reduce or eliminate the negative effects of various other hazards in Perry County.

Objective 14.1: Enhance or upgrade the existing communications system of Perry County.

Strategy 14.1.1: Establish a communications system that will allow all jurisdictional fire and police departments to communicate with each other during large-scale emergency situations.

Timeframe:	3 years
Funding (Cost Estimate):	Local Funding, PDM, FEMA (Up to $1,000,000)
Coordinating Agency:	Perry County EMA, Local Fire and Police Departments
Mitigation Type:	Emergency Services

Strategy 14.1.2: Coordinate with the local cellular provider to install more cellular towers in the southern portion of the county.

Timeframe:	2 years
Funding (Cost Estimate):	Local Funding, Cellular Providers (Up to $50,000 per tower)
Coordinating Agency:	County Commission, Local Cellular Providers
Mitigation Type:	Emergency Services

Objective 14.2: Develop means to ensure safe traffic flow during emergency situations.

Strategy 14.2.1: Install generators to provide a backup power supply for traffic lights at major intersections.

Timeframe:	2 years
Funding (Cost Estimate):	ODOT, PDM ($1,000 to $1,500 per site)
Coordinating Agency:	ODOT, County Engineer
Mitigation Type:	Structural Projects

Objective 14.3: Determine the location and number of available facilities that could be used as shelter sites during emergency situations.

Strategy 14.3.1: Conduct a shelter assessment to inventory the facilities within Perry County that could be used as emergency shelters.

Timeframe:	3 months
Funding (Cost Estimate):	Local Funding, FEMA ($15,000 to $20,000)
Coordinating Agency:	Perry County EMA
Mitigation Type:	Emergency Services

Objective 14.4: Develop a system to aid emergency planning efforts.

Strategy 14.4.1: Coordinate with the OSU Extension Office to aid in the development of and training in a GIS System for Perry County.

Strategy 14.4. Timeframe:	1 year
Funding (Cost Estimate):	Local Funding (up to $5,000 to $15,000)
Timeframe:	2 years
Funding (Cost Estimate):	Local Funding (Appointing a commission will require no additional funding; however, appointing a director and/or staff could range from $30,000 to $70,000)
Coordinating Agency:	County Commission
Mitigation Type:	Prevention

CITIES AND VILLAGES OF PERRY COUNTY

NEW LEXINGTON

GOAL 1A: Reduce the potential for flooding in the City of New Lexington.

Objective 1A.1: Decrease the potential for flash flooding in the City of New Lexington by allowing runoff water to be absorbed.

Strategy 1A.1.1: Reduce the amount of impermeable ground coverage in upland and drainage areas.

Timeframe:	5 years
Funding (Cost Estimate):	Local Funding (up to $50,000 to $100,000 depending on size of area)
Coordinating Agency:	City Council
Mitigation Type:	Prevention

GLENFORD

GOAL 1B: Reduce the potential for flooding in portions of Glenford Village.

Objective 1B.1: Lessen flood damage by preserving the natural course of waterways.

Strategy 1B.1.1: Clean portions of Jonathan Creek to remove debris such as trees, log jams, and sediment bars to allow water to flow freely.

Timeframe:	5 years
Funding (Cost Estimate):	USACOE, Local Funding (even small sections of streams could cost as much as $50,000 to $100,000
Coordinating Agency:	USACOE , Village Council
Mitigation Type:	Prevention

Objective 2B.1: Undertake structural projects to reduce flooding in Glenford Village.

Strategy 2B.1.1: Construct a dike near South Main St. in Glenford to channel water away from the population and structures in that area of the village.

Timeframe:	5 years
Funding (Cost Estimate):	HMGP, Local Funding ($60,000 to $70,000)
Coordinating Agency:	USACOE, Village Council
Mitigation Type:	Prevention

HEMLOCK

GOAL 1C: Reduce the possibility of cascading effects as a result of thunderstorms in Hemlock Village.

Objective 1C.1: Reduce the probability of power outages following a severe thunderstorm event.

Strategy 1C.1.1: Trim trees to prevent limb breakage to safeguard nearby utility lines.

Timeframe:	1 year
Funding (Cost Estimate):	Local Funding (up to $10,000)
Coordinating Agency:	Village Council
Mitigation Type:	Prevention

JUNCTION CITY

GOAL 1D: Reduce the possibility of cascading effects as a result of flooding in Junction City.

Objective 1D.1: Eliminate or reduce the amount of debris along Rush Creek and Little Monday Creek that can be swept away during flooding.

Strategy 1D.1.1: Encourage residents to control and secure debris, yard items, or stored objects such as oil, gasoline, propane tanks, and paint or chemicals.

Timeframe:	6 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Village Council, Perry County EMA
Mitigation Type:	Prevention

NEW STRAITSVILLE

GOAL 1E: Reduce the amount of property damage as a result of land subsidence in New Straitsville.

Objective 1E.1: Reduce the exposure of residential or commercial properties to the subsidence prone areas of New Straitsville.

Strategy 1E.1.1: Maintain areas that are susceptible to subsidence or collapse as open space.

Timeframe:	5 years
Funding (Cost Estimate):	HMGP, PDM, CDBG (up to $100,000 to $1,000,000; contingent upon the size of the demolition project)
Coordinating Agency:	Village Council
Mitigation Type:	Prevention

RENDVILLE

GOAL 1F: Reduce the negative effects of severe winter storms in Rendville Village.

Objective 1F.1: Reduce the amount of blowing and drifting snow along portions the major highways that traverse Rendville.

Strategy 1F.1.1: Consider constructing snow fences or "living snow fences" (rows of trees or vegetation) to limit the blowing and drifting of snow over critical roadway segments.

Timeframe:	3 years
Funding (Cost Estimate):	Village Council (up to $10,000 for professional landscaping)
Coordinating Agency:	Village Council, ODOT
Mitigation Type:	Structural Projects, Prevention

SHAWNEE

GOAL G: Reduce the amount of property damage as a result of flooding in portions of Shawnee Village.

Objective 1G.1: Limit the number of structures that can be affected by flooding in Shawnee Village.

Strategy 1G.1.1: Conduct acquisition and relocation projects in portions of the village.

Timeframe:	5 years
Funding (Cost Estimate):	HMGP. ($60,000 to $100,000/per house)
Coordinating Agency:	Village Council
Mitigation Type:	Prevention

SOMERSET

GOAL 1H: Reduce the negative effects of severe thunderstorms that occur in Somerset Village.

Objective 1H.1: Provide advanced warnings to the residents of Somerset that a severe thunderstorm is imminent.

Strategy 1H.1.1: Provide public service messages detailing what actiuns residents should take to safeguard themselves during severe thunderstorms and other emergencies.

Timeframe:	3 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Village Council, Perry County EMA
Mitigation Type:	Public Education and Awareness

THORNVILLE

GOAL 1I: Lessen the amount of damage as a result of severe winds and tornadoes in Thornville Village.

Objective 1I.1: Limit the number of structures damaged by severe winds and tornadoes in Thornville Village.

Strategy 1I.1.1: Encourage homeowners to apply additional anchoring to manufactured homes and exterior structures such as carports and porches.

Timeframe:	6 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Village Council
Mitigation Type:	Property Protection

BEARFIELD

GOAL 1i: Reduce the potential for flooding in Bearfield Township.

Objective 1i.1: Lessen flood damage by preserving the natural course of Moxahala Creek.

Strategy 1i.1.1: Coordinate with other local agencies and state/federal agencies to clean portions of Moxahala Creek, clearing log jams, trees and sediment bars.

Timeframe:	1 year
Funding (Cost Estimate):	Coordination will require no additional funding; however, if an agreement is reached to clean the creek, significant funding may be required. (N/A)
Coordinating Agency:	Township Trustees
Mitigation Type:	Prevention

CLAYTON

GOAL 1ii: Limit the negative affects associated with severe thunderstorms in Clayton Township.

Objective 1ii.1: Ensure uninterrupted electrical power during and following severe thunderstorms.

Strategy 1ii.1.1: Establish a township forestry program to trim trees, clear debris from utility poles and maintain all public rights-of-way.

Timeframe:	3 years
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees, Residents of Clayton Township
Mitigation Type:	Prevention, Property Protection

COAL

GOAL 1iii: Reduce the negative effects of mine subsidence throughout Coal Township.

Objective 1iii.1: Identify areas of Coal Township that are most susceptible to land subsidence as a result of extensive underground mining.

Strategy 1iii.1.1: Contact the Ohio Department of Natural Resources, Division of Mineral Resources Management to learn of areas in Coal Township that could be affected by underground mining.

Timeframe:	1 year
Funding (Cost Estimate):	ODNR maintains this information and contacting them will require no additional funding. (N/A)
Coordinating Agency:	Township Trustees
Mitigation Type:	Public Education and Awareness

HARRISON

GOAL 1iv: Reduce property damage as a result of flooding throughout Harrison Township.

Objective 1iv.1: Conduct structural projects to reduce flooding in portions of Harrison Township.

Strategy 1iv.1.1: Evaluate options to lessen the damming of the stream as a direct result of the railroad bridge near Crooksville during high water events.

Timeframe:	1 year
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees, County Engineer
Mitigation Type:	Prevention

Strategy 1iv1.2: Construct a retention basin upstream of the railroad bridge near Crooksville.

Timeframe:	3 years
Funding (Cost Estimate):	PDM, Local Funding ($20,000 to $30,000)
Coordinating Agency:	Township Trustees, County Engineer
Mitigation Type:	Prevention, Structural Projects.

HOPEWELL

GOAL 1v: Decrease damages associated with flooding in Hopewell Township.

Objective 1v.1: Decrease the amount of debris that can be swept away by floodwaters.

Strategy 1v.1.1: Encourage residents to secure debris, yard items, or stored objects including oil, gasoline, propane tanks, paint, and chemical barrels that may be swept away by floodwaters.

Timeframe:	3 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees
Mitigation Type:	Property Protection

JACKSON

GOAL 1vi: Reduce the negative effects of severe thunderstorms that occur in Jackson Township.

Objective 1vi.1: Provide advanced warnings to the residents of Jackson Township that a severe thunderstorm is imminent.

Strategy 1vi.1.1: Provide public service messages detailing what actions residents should take to safeguard themselves during severe thunderstorms and other emergencies.

Timeframe:	3 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees, Perry County EMA
Mitigation Type:	Public Education and Awareness

MADISON

GOAL 1vii: Reduce the potential for injuries and property damage as a result of severe winter storms.

Objective 1vii.1: Reduce the amount of blowing and drifting snow over the roadways of Madison Township.

Strategy 1vii.1.1: Consider constructing snow fences or planning rows of trees to serve as living snow fences to limit blowing and drifting snow over critical roadways of the township.

Timeframe:	3 years
Funding (Cost Estimate):	ODOT, Local Funding (Up to $10,000 for professional landscaping; however, township road crews may be able to accomplish this strategy for only the cost of materials.
Coordinating Agency:	Township Trustees, ODOT
Mitigation Type:	Structural Projects, Prevention

GOAL 1viii: Reduce the townships vulnerability to many hazards and increase response capabilities.

Objective 1vlii.1: Provide local officials with the equipment they need to adequately respond to emergency events.

Strategy 1viii.1.1: Purchase a new 4-wheel drive tractor to assist in clearing snow from roadways during and following severe winter storm events.

Timeframe:	3 years
Funding (Cost Estimate):	Local Funding ($10,000 to $20,000)
Coordinating Agency:	Township Trustees
Mitigation Type:	Emergency Services

Strategy 1vii.1.2: Facilitate cooperation among local emergency responders by compiling and strengthening mutual aid agreements.

Timeframe:	2 years
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Monday Creek Township VFD
Mitigation Type:	Emergency Services

Strategy 1viii.1.3: Provide broad band Internet to local officials throughout the township to supplement warning capabilities.

Timeframe:	2 years
Funding (Cost Estimate):	Local Funding (as much as $70 per month per connection)
Coordinating Agency:	Township Trustees, Internet Providers
Mitigation Type:	Prevention

Objective 1viii.2: Undertake structural projects to allow township officials to better organize and deploy resources.

Strategy 1viii.2.1: Build a new office/garage complex for the township.

Timeframe:	5 months
Funding (Cost Estimate):	Local Funding (up to $75,000 to $125,000)
Coordinating Agency:	Township Trustees
Mitigation Type:	Structural Projects

GOAL 2viii: Lessen the negative effects of flooding in Monday Creek Township.

Objective 2viii.1: Lesson flash flooding along roadways in the township.

Strategy 2viii.1.1: Increase the size of ditches along township roadways and install proper culverts to allow water to flow properly.

Timeframe:	5 years
Funding (Cost Estimate):	Local Funding, ODOT (Ditching could be accomplished at a low cost with the use of the township's equipment. Culvert projects may total as much as $1,500 per culvert)
Coordinating Agency:	Township Trustees
Mitigation Type:	Prevention

MONROE

GOAL 1ix: Reduce the potential for flash flooding as a result of dam failure in Monroe Township.

Objective 1ix.1: Provide the residents of Monroe Township advanced warning of impending dam failures.

Strategy 1ix.1.1: Coordinate with officials in Athens and Morgan Counties to establish an advanced warning system that will provide the residents of Monroe Township with warnings of any potential failures of the Burr Oaks Reservoir Dam.

Timeframe:	2 months
Funding (Cost Estimate):	PDM, Local Funding ($2,000 to $5,000)
Coordinating Agency:	Township Trustees
Mitigation Type:	Emergency Services

PIKE

GOAL 1x: Reduce the potential for significant flash flooding in Pike Township.

Objective 1x.1: Decrease the rapid accumulation of storm water runoff in the urbanized areas of Pike Township.

Strategy 1x.1.1: Coordinate with property owners to decrease the amount of impermeable ground coverage in upland and drainage areas to allow more water to be absorbed into the ground.

Timeframe:	5 years
Funding (Cost Estimate):	Coordination will require no additional funding. If projects are undertaken, township equipment may be used. (N/A)
Coordinating Agency:	Township Trustees, Property Owners
Mitigation Type:	Structural Projects

PLEASANT

GOAL 1xi: Limit the negative affects associated with severe thunderstorms in Pleasant Township.

Objective 1xi.1: Ensure uninterrupted electrical power during and following severe thunderstorms.

Strategy 1xi.1.1: Establish a township forestry program to trim trees and clear debris from utility poles and maintain all public right-of-ways.

Timeframe:	3 years
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees, Residents of Pleasant Township
Mitigation Type:	Prevention, Property Protection

READING

GOAL 1xii: Decrease the impact of flooding in Reading Township.

Objective 1xii.1: Educate residents on their specific vulnerability to flooding as a result of a topping or failure of the Somerset Reservoir Dam or Clouse Lake Dam.

Strategy 1xii.1.1: Coordinate with the US Army Corps of Engineers to updated outdated flood studies encompassing areas affected by the failure or topping of the aforementioned dams.

Timeframe:	1 year
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees, USACOE
Mitigation Type:	Property Protection

SALT LICK

GOAL 1xiii: Lessen the amount of damage as a result of severe winds and tornadoes in Salt Lick Township.

Objective 1xiii.1: Limit the number of structures damaged by severe winds and tornadoes in Salt Lick Township.

Strategy 1xiii.1.1: Encourage homeowners to apply additional anchoring to manufactured homes and exterior structures such as carports and porches.

Timeframe:	6 months
Funding (Cost Estimate):	No additional funding necessary. (N/A)
Coordinating Agency:	Township Trustees
Mitigation Type:	Property Protection

THORN

GOAL 1xiv:Reduce the negative impacts of severe winter storms in Thorn Township.

Objective 1xiv.1: Increase awareness among the residents of Thorn Township that severe winter weather is imminent.

Strategy 1xiv.1.1: Increase the coverage area and use of NOAA weather radios throughout Thorn Township.

Timeframe:	2 years
Funding (Cost Estimate):	Local Funding (up to $200-$500 per radio)
Coordinating Agency:	Township Trustees, Perry County EMA
Mitigation Type:	Prevention, Property Protection

METHODOLOGY – FOR THE UPDATE PROCESS

March 8TH 2011the Perry County EMA sponsored a meeting of stakeholders and the public facilitated by the Perry Soil and Water Conservation District to looked at complete goals and objectives and listen to the currents needs of stakeholders to include in the 2011 update project. The following is a list if entities that were invited:

Lonnie Wood	Perry County Commissioner	121 West Brown Street	New Lexington
Fred Shriner	Perry County Commissioner	121 West Brown Street	New Lexington
Ed Keister	Perry County Commissioner	121 West Brown Street	New Lexington
Rita Spicer	Perry County EMA Director	121 West Brown Street	New Lexington
Katrina Carpenter	independent Contractor - Perry County EMA	3791 Coopernders Road	Somerset
William Barker	Perry County Sheriff	110 West Brown Street	New Lexington
Angela DeRolph	Perry County Health Commissioner	212 South Main,	New Lexington
Kent Cannon	Perry County Engineer	2645 Old Somerset Road	New Lexington
Jim Hart	Perry County Waste Reduction & Recycling	118 West Brown Street	New Lexington
John Ulmer	Perry County Chamber of Commerce	121 South Main Street	New Lexington
Mike Strode	Farm Services Agency	109-B East Gay Street	Somerset
Justin Hunter	NRCS District Conservationist	109-A East Gay Street	Somerset
Ted Wiseman	OSU Extension Service-Perry County	104 South Columbus St	Somerset
Eric Lane	Wildlife Dfficer	360 East State Street	Athens
Jamie Lentz	Perry SWCD Board	S19S Toligate Road	Somerset
David Noll	Perry SWCD Board	3776 Twp. Rd. 121 NE	Somerset
Dennis Young	Perry SWCD Board	8460 St. Rt. 13 NW	Somerset
Tonya Cline	Perry SWCD Board	523S Twp. Rd. 98	Thornville
Kris Bashore	Perry SWCD Board	9999 St. Rt. 13 NW	Thornville
Robin Zinn	Crooksville Police Department	98 South Buckeye	Crooksville
Amy English	Junction City Police Department	111 West Front Street	Junction City
Scott Ervin	New Lexington Police Department	21S South Main Street	New Lexington
Jeff Slack	Roseville Police Department	107 North Main Street	Roseville
Jeremy VanDermark	Somerset Police Department	100 Public Square	Somerset
Darrell Ball	Thornville Police Department	1 South Main Street	Thornville
Kevin Wintermute	Corning Village Police Department	115 South Corning Av	Corning
William Evans III	New Straitsville Police Department	114 West Main Street	New Straitsville
Curtis Bragg	Corning Volunteer Fire Department & EMS	107 East Main Street	Corning
Fred Redfern	Crooksville Fire Department & EMS	98 South Buckeye Street	Crooksville
Glen Sickles	Hopewell Twp. Fire & EMS	107 East Broad Street	Glenford
John Mason	Junction City Volunteer Fire Department & EMS	109 Mulberry Street	Junction City
Paul Owings	Monday Creek Twp. Vol. Fire Department & EMS	4435 Twp. Rd. 386 SW	Logan
Rob Stallings	New Lexington Fire Department & EMS	21S South Main Street	New Lexington
John Spicer	New Straitsville Vol. Fire Department & EMS	118 West Main Street	New Straitsville
Mike Henderson	Somerset-Reading Township EMS	302 South Market Street	Somerset
James Dishon	Shawnee Vol. Fire Department & EMS	9790 Ironpoint Road	Shawnee
John Clouse	Somerset-Reading Twp. Fire Department	112 East Main Street	Somerset
Duane Moore	Thorn Township Fire Department & EMS	25 East Columbus Street	Thornville
David Sobers	Village of Corning	11D Jefferson Street	Corning
Dennis Harvey	Village of Crooksville	213 East Brown Street	Crooksville
Leonard Sheppard	Village of Glenford	107 North Main Street	Glenford
Robert Lanning	Village of Hemlock	8434 High Street	Hemlock
Ronald Gleason, Sr.	Village of Junction City	111 Front Street NW	Junction City
Janine Conrad	Village of New Lexington	12S South Main Street	New Lexington
David A. Brown	Village of New Straitsullie	114 West Main Street	New Straitsville
Chris Harris	Village of Rendville	6210 Sycamore Street SE	Corning
Kimberly Dixon	Village of Roseville	103 Broad Street	Roseville
John Arkley	Village of Shawnee		Shawnee
Tom Johnson	Village of Somerset	200 Public Square	Somerset
Beth Patrick	Village of Thornville	3 South Main Street	Thornville
Darron Rambo	Bearfield Township Trustee	2681 St. Rt. 93 NE	Crooksville
Justin Baker	Clayton Township Trustee	3438 Old Somerset Road	Somerset
Raymond Jenks	Coal Township Trustee		New Straitsville
Barney Printz	Harrison Township Trustee	31S Mohican Drive	Crooksville
Ed Coble	Hopewell Township Trustee	14322 Twp. Rd. 6S	Glenford
David L. Folk	Jackson Township Trustee		Junction City
Gary Chapman	Madison Township Trustee	687S Kroft Road NE	Mount Perry
Jerry Brown	Monday Creek Township Trustee	5607 Twp. Rd. 131 SE	New Straitsville
Joseph Duffy	Monroe Township Trustee	7100 Jefferson Street	Corning
Mike Boley	Pike Township Trustee	4842 Marietta Road SE	New Lexington
Robert Plant	Pleasant Township Trustee	4464 St. Rt. 13	Corning
James Emmert	Reading Township Trustee	71SS St. Rt. 13	Somerset
James Denny	Saltlick Township Trustee	658 West Main Street	Shawnee
Dick Boring	Thorn Township Trustee	1S242 Twp. Rd. 28 NW	Thornville

GOALS, OBJECTIVES, AND STRATEGIES

Through the process of meetings and direct mailings the Perry County EMA and HMC considered revisions to goals, objectives, and strategies to mitigate the hazard risks identified in Perry County. In most cases the mitigation actions developed in 2005 had not been completed due to lack of funding but were still thought to be the most feasible and beneficial to hazard reduction, in the respective jurisdiction.

The strategies were assigned very tentative initial cost estimates. These cost estimates have not been adjusted to 2011 figures because it is vital that detailed cost estimations be obtained from engineers or contractors, prior to securing any type of funding.

The public and stakeholder meetings were poorly attended despite direct mailings and followed up by personal reminder calls. However the following additional hazards and mitigation strategies were presented and discussed for consideration and have been included in the updated Perry County.

The following pages are inputs received from representatives from the village of Hemlock and Thorn Township which have been included in the goals and objectives of this multi-jurisdictional plan:

To Be Completed by each stakeholder:
(Village of Hemlock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and our local annual operations:

Hazard: (be specific)
Dam Failure at Tecumseh Dam

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
The earthen dam has the potential to

1. Fail/Breach: Breach is unlikely but effect could be severe

2. Overtap: Severe/pralanged rain events could cause this

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
Tecumseh Lake is autside Hemlack's jurisdiction but the abave could severely, adversely affect village residents and activities that are located in/cantinguaus ta the flaod plain. Mitigatian strategies could include: Breach: 1.) Annual inspection by the entity with jurisdictian, with letter repart ta PSWCD and ather jurisdictians (e.g. Hemlock, Shownee) concerned. 2.) Cantralling jurisdictian establish emergency cantingency plan far water level reductian shauld structural deficiencies be identified, and submit this plan with Perry County EMA and PSWCD far review and approvol. Overtopping: 1.) Jurisdictian with autharity establish criteria ta inspect far avertopping during patentially hazardaus events. 2.) Instoll emergency woter release gates ta mitigote avertapping eorly. 3.) Establish criteria far water release and natificatian at dawnstreom communities, persons affected.

Time frame for your proposed Mitigation Strategy? (How long will it take?) *Breach 1.) Passibly immediotely 2.) 6 manths Overtapping: 1.) six manths 2.) twa years 3.) simultaneous with 2.)*

Cost Estimate and possible funding source: *Breach 1.) nane 2) nane Overtapping 1) nane 2) $500,000.00 3) nane*

Possible Agencies Invoived: *Jurisdiction with authority aver the lake Perry Ca. EMA, PSWCD, caunty cammissianers, cammunity actian*

One or more of the 6 Mitigation types listed in the letter that this falls under:

1,2,3,4

To Be Completed by each stakeholder:
(Village of Hemlock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your local annual operations:

Hazard: (be specific)
Drought

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
See base letter

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
1)Participate in caunty-wide mitigation & information activities carrelated at the caunty level 2)Canstruct stream acid-mine drainage mitigatian projects at the saurce(s) an West Branch Sunday Creek sa thot residents along the creek cauld use the water with minimal purificatian requirements in event af extreme emergency. 3)Install a fire hydrant in the main Southern Perry County water line in villoge in the vicinity at the Route 155/Moin St. intersectian ta suppart wildfire fighting in the significantly farested areas at the village.

Time frame for your proposed Mitigation Strategy? (How long will it take?) *1)possible immediotely 2) two years 3) twa years*

Cost Estimate and possible funding source: *1) none 2) $1,500,000.00 3) $200,000.00*

Possible Agencies Involved: *PEMA, PSWCD, County Cammissianers, Cammunity Actian, Sauthern Perry County Water District*

One or more of the 6 Mitigation types listed in the letter that this falls under:

1,2,3,4,5,6

To Be Compieted by each stakeholder:
(Village of Hemiock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your local annual operations:

Hazard: (be specific)
Earthquake

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
Prabability of earthquake is cansidered law, but its effects cauld be severe

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
1)Identify locatians in/near the village far evacuatian in the event af a catastraphic accurrence.

2)Establish respansibility far village on-site inspectian far damaged utilities (e.g. gas, electricity) and

Reparting af same ta PEMA and servicing agencies.

3)See item "3" for drought

Time frame for your proposed Mitigation Strategy? (How iong will it take?) *1) 2 months 2) 2 months 3) See item "3" far draught*

Cost Estimate and possibie funding source: *1) none 2) nane 3) see item "3" for drought*

Possible Agencies Invoived: *PEMA, County Cammissioners, Community Action, Southern Perry County Woter District*

One or more of the 6 Mitigation types listed in the ietter that this faiis under:

1,2,4,5

To Be Compieted by each stakehoider:
(Village of Hemlock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your iocal annual operations:

Hazard: (be specific)
Flooding

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
Major damage experienced during flooding events in 2004

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
1)Establish a flaod damage mitigation/flaadplain management plan

2)See item "1" far earthquake

3)See item "2" for earthquake

4)Construct an emergency siren managed by PEMA ta alert residence ta hazardaus events

5)Remove substontially damaged structures from the floodplain to eliminate future "damming" thot cauld result fram structural callapse during a flaad event.

Time frame for your proposed Mitigation Strategy? (How long will it take?) *1) 2 manths 2) &3) see items "1" & "2" for earthquake 4) 2 years 5) 2 years*

Cost Estimate and possibie funding source: **1***) nane 2) none 3) none 4) $100,000.00 5) $10,000.00*

Possibie Agencies Invoived: *PEMA, PSWCD, Caunty Cammissioners, Cammunity Action, Property owners concerned, Perry County Public Health Agency*

One or more of the 6 Mitigation types iisted in the ietter that this fails under:

1,2,3,4,5,6

To Be Compieted by each stakehoider:
(Village of Hemlock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your iocai annuai operations:

Hazard: (be specific)
Land Subsidence/Mine Subsidence

History and Historic Events that have prompted you to identify this as a iocai hazard:
(ie how did you identify it, or why did you identify it?)
The village is a farmer mining cammunity with several apen mine shafts

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
1)Permonently and physically close apen mine shafts

Time frame for your proposed Mitigation Strategy? (How iong will it take?) *5 years*

Cost Estimate and possibie funding source: *$2,500,000.00*

Possible Agencies Involved:
ODNR

One or more of the 6 Mitigation types listed in the ietter that this falls under:

1,2,4

To Be Compieted by each stakehoider:
(Village of Hemlock)

Piease identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your iocal annual operations:

Hazard: (be specific)
Severe Thunderstorm/Wind/Tornado

History and Historic Events that have prompted you to identify this as a iocal hazard:
(ie how did you identify it, or why did you identify it?)
Thunderstorms, high winds, tornado have occurred around (but not in) the community many times

During the past several years.

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can heip you achieve this mitigation strategy?)
1)see item "1" for earthquake

2)see item "2" for earthquake

3)see item "4" for flooding

Time frame for your proposed Mitigation Strategy? (How iong wiii it take?) *1) & 2) 2 months 3) 2 years*

Cost Estimate and possibie funding source: *1) & 2) none 3) $100,000.00*

Possibie Agencies Invoived: *PEMA, County Commissianers, Community Actian*

One or more of the 6 Mitigation types iisted in the letter that this faiis under:

1,2,4,6

To Be Compieted by each stakeholder:
(Village of Hemlock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your local annual operations:

Hazard: (be specific)
Severe Winter Storm, Sleet and Ice

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
The passibility af high amaunts af snaw, sleet, and/ar ice is routine during the winter in this area

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
1)Ensure an annual cantract far ice & snow remaval is in effect each winter

2)See item "2" far earthquake

3)Identify residents wha have equipment that cauld be used ta supplement in event it is required,

Establish a fee schedule far these services and identify the persan respansible far activating this

Cantingency.

Time frame for your proposed Mitigation Strategy? (How long will it take?) *1)annually as required 2) 2 manths 3) 6 manths*

Cost Estimate and possibie funding source: *1)$10,000.00 2) none 3) nane*

Possibie Agencies Involved: *Village cauncil, cantractor, village residents os identified*

One or more of the 6 Mitigation types listed in the letter that this fails under:

2,5,6

To Be Completed by each stakeholder:
(Village of Hemlock)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your local annual operations:

Hazard: (be specific)
Wildfire

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
A significant portion of the village is farested and prave ta wildfire, particularly in periods of draught; additianally it is surrounded by woads fram ather jurisdictians, which could contribute to domoges in this community.

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
1)Rigarausly patrol, report, and cite for violotions of open burning ordinonces and warnings estoblished by the stote and county.

2)Keep raadside scrubs ond brush closely trimmed, especiolly during periods af draught (cigarette butts thrown out of vehicle windows.

3)See item "3" far draught.

Time frame for your proposed Mitigation Strategy? (How long will it take?) *1) angoing, immediately 2) situotionol os required 3) 2 yeors*

Cost Estimate and possible funding source: *1) no increosed cost, ond of routine, county-wide potrolling 2) no increosed cost, budgeted by the County Engineer 3) $200,000.00*

Possible Agencies Involved: *Perry County Sheriff, Perry County Engineers Office, County Commissioners, Community Action, Southern Perry County Woter District*

One or more of the 6 Mitigation types listed in the letter that this falls under:
1,2,3,4,5,6

To Be Completed by each stakeholder:
(Thorn Township – Charlie Boring)

Please identify each hazard that your "community", "agency"," organization" sees as a direct threat to Perry County and your local annual operations:

Hazard: (be specific)
Drought – Hoilstorm – Severe Thunderstorms

History and Historic Events that have prompted you to identify this as a local hazard:
(ie how did you identify it, or why did you identify it?)
We have had tree damage to our township over the past few years due to hoilstorms and high winds ond thunderstarms.

What do you see as the best Mitigation Strategy to address this Hazard?
(ie How can you reduce the potential for this hazard to occur? How can you reduce the damage or negative impact of this hazard? What other agencies and people can help you achieve this mitigation strategy?)
We can reduce damage by keeping our trees along our roadways trimmed and cut back

Time frame for your proposed Mitigation Strategy? (How long will it take?) *2 weeks*

Cost Estimate and possible funding source: *$4500.00*

Possible Agencies Involved: *Thorn Township*

One or more of the 6 Mitigation types listed in the letter that this falls under:

Hailstorms & Severe Thunderstarms

IDENTIFICATION AND ANALYSIS OF MITIGATION MEASURES –PERRY COUNTY

Including the municipalities and townships of the county

As per requirement 44 CFR Part 201.6(c)(3)(ii): [The mitigation strategy shall include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

Perry County's HMC has identified several hazard mitigation projects that will benefit the county and its municipalities. Large mitigation projects that have been identified for particularly hazard-prone areas are as follows. *NOTE: This is not a comprehensive listing of all mitigation actions. Only large projects requiring significant time, funding, or collaborative efforts are listed here, Many of the following projects listed are continuations from the 2005 hazard mitigation plan that are still a priority but the funding for completion has not yet been secured.

- **Perry County:** Coordination with the USACOE to update studies of flood impact areas from topping or failure of Class I dams in and near Perry County.
- **Perry County:** Review and update floodplain maps. Last update April 2011
- **Perry County:** Develop specific flood mitigation plan(s) to accompany this mitigation plan for flood-prone areas.
- **Perry County:** Consider installing, re-routing, or increasing the capacity of existing storm drainage systems that may involve detention and retention ponds.
- **Perry County:** Undertake diking projects to channel water away from populated areas of Perry County.
- **Perry County:** Coordinate with the Ohio Department of Natural Resources, Division of Mineral Resources Management, Office of Abandoned Mine Lands and Reclamation to undertake reclamation projects if subsidence occurs at a specific location.
- **Perry County:** Purchase and strategically install warning sirens throughout portions of Perry County. (system is operational and almost 100% completed)
- **Perry County:** Develop an integrated communications system that will allow all response units to communicate with each other. . (system is operational and almost 100% completed)

- **Perry County:** Coordinate with the local cellular providers to install more cellular towers in the southern portion of the county.

- **City of New Lexington:** Reduce the amount of impermeable ground coverage in upland drainage areas. .

- **Village of Glenford:** Clean portions of Jonathan Creek to remove debris such as trees, log jams, and sediment bars to allow water to flow freely.
- **Village of Glenford:** Construct a dike near South Main St. in Glenford to channel water away from the population and structures in that area of the village.
- **Village of Rendville:** Consider constructing snow fences or "living snow fences" (rows of trees or vegetation) to limit the blowing and drifting of snow over critical roadway segments.
- **Village of Shawnee:** Conduct acquisition and relocation projects in portions of the village.

- **Harrison Township:** Construct a retention basin upstream of the railroad bridge near Crooksville.
- **Harrison Township:** Evaluate options to lessen the damming of the stream as a direct result of the railroad bridge near Crooksville during high water events.
- **Madison Township:** Consider constructing snow fences or planting rows of trees to serve as living snow fences to limit blowing and drifting snow over the critical roadways of the township.
- **Monday Creek Township:** Increase the size of ditches along township roadways and install proper culverts to allow water to flow properly.
- **Pike Township:** Coordinate with property owners to decrease the amount of impermeable ground coverage in upland and drainage areas to allow more water to be absorbed into the ground.
- **Thorn Township:** Increase the coverage area and use of NOAA weather radios throughout Thorn Township.

IMPLEMENTATION OF MITIGATION MEASURES – PERRY COUNTY

Including the municipalities and townships of the county

As per requirement 44 CFR Part 201.6 (c)(3)(iii): [The mitigation strategy section shall include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

PRIORITIZATION OF MITIGATION STRATEGIES

The Perry County HMC identified several hazard mitigation projects to be included in the county's Hazard Mitigation Plan. These projects, along with their priority, are listed in the following table. Each strategy is given a numerical priority rating. Strategies listed with a rating of "1" are the highest priority for that jurisdiction.

PERRY COUNTY

Hazard	Mitigation Strategy	Priority
Dam Failure	**Strategy 1.1.1**: Coordinate with the Ohio Department of Natural Resources, Division of Water, in accordance with ORC Section 1512.062, to periodically reclassify any dam within Perry County as a result of a change in circumstances not in existence at the time of the dam's initial classification to ensure adequate safety according to the potential for downstream damage.	8
Dam Failure	**Strategy 1.1.2**: Coordinate with officials in Athens and Morgan Counties to provide notification and warning of a failure of the Burr Oak Reservoir Dam, which would greatly affect Perry County, especially the Village of Corning.	1
Dam Failure	**Strategy 1.1.3**: Coordinate with the US Army Corps of Engineers to update outdated flood studies encompassing areas affected by the failure or topping of the Class I dams within and near Perry County, including, for example, the Tecumseh Lake Dam, Buckeye Lake Dam, and Burr Oak Reservoir Dam.	3
Dam Failure	**Strategy 1.1.4**: Coordinate with the ODNR, Dam Safety Engineering Program to conduct periodic safety inspections of existing dams in Perry County, and garner community support for the removal or repair of dams in disrepair.	8
Drought	**Strategy 2.1.1**: Educate local residents on the benefits of conserving water at all times, not just during a drought.	5
Drought	**Strategy 2.2.1**: Coordinate mutual aid agreements with water hauling companies to have emergency supplies of water hauled into Perry County.	10

Drought	**Strategy 2.2.2**: Develop a proclamation to prioritize or control water use during emergency drought conditions to be promulgated as situations dictate.	13
Earthquake	**Strategy 3.1.1**: Develop an informational brochure explaining the potential for earthquakes, as well as the potential damages from those earthquakes. The brochure should include information pertaining to measures to take to safe-proof homes and other structures from the potential effects of earthquakes.	5
Earthquake	**Strategy 3.1.2**: Educate local officials as to conditions in Perry County that would compound the effects of an actual earthquake, such as soil type, etc.	5
Epidemic	**Strategy 4.1.1**: Produce public awareness campaigns on local media outlets.	5
Epidemic	**Strategy 4.2.1**: Identify the source of the epidemic and determine appropriate actions for the general public to take to reduce or slow the spread of the epidemic, especially following severe flooding.	6
Flooding	**Strategy 5.1.1**: Clean/drag creeks and streams, clearing log jams, trees and shrubs, and sediment bars.	9
Flooding	**Strategy 5.2.1**: Facilitate the formation of flood task forces throughout the county to address flooding problems on a regular basis, which could include the Floodplain Coordinator and Township Trustees.	5
Flooding	**Strategy 5.2.2**: Review and update floodplain maps on a regular basis.	7
Flooding	**Strategy 5.2.3**: Develop specific flood mitigation plan(s) to accompany this mitigation plan for flood-prone areas.	4
Flooding	**Strategy 5.2.4**: Participate in the Community Rating System (CRS) and join the National Flood Insurance Program (NFIP) where applicable to reduce flood insurance rates.	4
Flooding	**Strategy 5.2.5**: Conduct acquisition and relocation projects in flood-prone portions of the county.	12
Flooding	**Strategy 5.3.1**: Consider installing, re-routing, or increasing the capacity of existing storm drainage systems that may involve detention and retention ponds.	12
Flooding	**Strategy 5.3.2**: Consider elevating low bridge decks or removing bridge piers to allow water to flow freely, especially at times of elevated water levels.	12
Flooding	**Strategy 5.3.3**: Undertake diking projects to channel water away from populated areas, being careful not to adversely affect properties downstream.	11
Hailstorm	**Strategy 6.1.1**: Coordinate efforts with the local media to post advance warnings of hailstorms.	6
Hailstorm	**Strategy 6.1.2**: Encourage the use of NOAA weather radios that continuously broadcast National Weather Service forecasts and provide direct warnings to the public for natural, technological, and man-made hazards.	6

Infestation	**Strategy 7.1.1**: Consider demolishing and clearing vacant and/or condemned structures within Perry County to prevent rodent and other infestations.	12
Land & Mine Subsidence	**Strategy 8.1.1**: Coordinate with the Ohio Department of Natural Resources, Division of Mineral Resources Management, Office of Abandoned Mine Lands and Reclamation to undertake reclamation projects if subsidence occurs at a specific location.	3
Land & Mine Subsidence	**Strategy 8.1.2**: Consider developing a land use plan or modifying an existing plan to guide development away from and reduce the density of population in subsidence-prone areas.	4
Severe Thunderstorms	**Strategy 9.1.1**: Coordinate with the National Weather Service (NWS) to warn residents of impending severe thunderstorm conditions.	6
Severe Thunderstorms	**Strategy 9.1.2**: Encourage the use of NOAA weather radios among residents that continuously broadcast NWS forecasts and provide direct warnings to the public for natural, technological, and man-made hazards.	6
Severe Thunderstorms	**Strategy 9.1.3**: Encourage the use of the Emergency Alert System (EAS) on commercial radio, television, and cable systems to send out emergency information targeted to specific areas.	6
Severe Thunderstorms	**Strategy 9.1.4**: Ensure that surge protection, such as surge protectors and grounding, has been installed on all critical electronic equipment owned by county government.	12
Severe Wind and Tornado	**Strategy 10.1.1**: Coordinate with the National Weather Service (NWS) to warn residents of impending severe winds and possible tornado conditions.	6
Severe Wind and Tornado	**Strategy 10.1.2**: Purchase and strategically install warning sirens throughout portions of Perry County.	6
Severe Wind and Tornado	**Strategy 10.2.1**: Develop an informational brochure to distribute to local residents.	5
Severe Wind and Tornado	**Strategy 10.3.1**: Assess the number, location, strength, and ability of shelters to house residents and withstand high wind speeds.	7
Severe Winter Storm	**Strategy 11.1.1**: Develop a Resource Manual Database that can be used to inventory emergency resources that can be employed to aid in emergency snow removal.	14
Severe Winter Storm	**Strategy 11.2.1**: Strategically place or identify existing sites that could be used as emergency shelters throughout Perry County.	7
Temperature Extreme	**Strategy 12.1.1**: Develop an informational brochure to distribute to local residents.	5
Wildfires	**Strategy 13.1.1**: Distribute information concerning the leading causes of wildfires and steps the general public can take to avoid starting wildfires.	5
Wildfires	**Strategy 13.1.2**: Encourage residents to inspect and clean their chimneys at least once a year.	5

Wildfires	**Strategy 13.1.3**: Encourage residents to properly maintain property in or near wild land areas (including short grass, thinned trees, removal of low hanging branches, raking of leaves, and keeping woodpiles and other combustibles away from structures).	5
Wildfires	**Strategy 13.2.1**: Coordinate with National Forest Officials to determine the feasibility of creating an underbrush management plan for the Wayne National Forest.	3
Misc.	**Strategy 14.1.1**: Establish a communications system that will allow all jurisdictional fire and police departments to communicate with each other during large-scale emergency situations.	15
Misc.	**Strategy 14.1.2**: Coordinate with the local cellular provider to install more cellular towers in the southern portion of the county.	3
Misc.	**Strategy 14.2.1**: Install generators to provide a backup power supply for traffic lights at major intersections.	12
Misc.	**Strategy 14.3.1**: Conduct a shelter assessment to inventory the facilities within Perry County that could be used as emergency shelters.	7
Misc.	**Strategy 14.4.1**: Coordinate with the OSU Extension Office to aid in the development of and training in a GIS System for Perry County.	2
Misc.	**Strategy 14.4.2**: Develop a county planning commission to oversee comprehensive planning efforts of the county.	4

CITIES AND VILLAGES OF PERRY COUNTY

CITY OF NEW LEXINGTON

Hazard	*Mitigation Strategy*	*Priority*
Flooding	**Strategy 1A.1.1:** Reduce the amount of impermeable ground coverage in upland and drainage areas.	1

VILLAGE OF GLENFORD

Hazard	*Mitigation Strategy*	*Priority*
Flooding	**Strategy 1B.1.1:** Clean portions of Jonathan Creek to remove debris such as trees, log jams, and sediment bars to allow water to flow freely.	1
Flooding	**Strategy 2B.1.1:** Construct a dike near South Main St. in Glenford to channel water away from the population and structures in that area of the village.	2

VILLAGE OF HEMLOCK

Hazard	Mitigation Strategy	Priority
Severe Thunderstorm	**Strategy 1C.1.1:** Trim trees to prevent limb breakage to safeguard nearby utility lines.	1

VILLAGE OF JUNCTION CITY

Hazard	Mitigation Strategy	Priority
Flooding	**Strategy 1D.1.1:** Encourage residents to control and secure debris, yard items, or stored objects such as oil, gasoline, propane tanks, and paint or chemicals.	1

VILLAGE OF NEW STRAITSVILLE

Hazard	Mitigation Strategy	Priority
Mine Subsidence	**Strategy 1E.1.1:** Maintain areas that are susceptible to subsidence or collapse as open space.	1

VILLAGE OF RENDVILLE

Hazard	Mitigation Strategy	Priority
Severe Winter Storm	**Strategy 1F.1.1:** Consider constructing snow fences or "living snow fences" (rows of trees or vegetation) to limit the blowing and drifting of snow over critical roadway segments.	1

VILLAGE OF SHAWNEE

Hazard	Mitigation Strategy	Priority
Flooding	**Strategy 1G.1.1:** Conduct acquisition and relocation projects in portions of the village.	1

VILLAGE OF SOMERSET

Hazard	Mitigation Strategy	Priority
Severe Thunderstorm	**Strategy 1H.1.1:** Provide public service messages detailing what actions residents should take to safeguard themselves during severe thunderstorms and other emergencies.	1

VILLAGE OF THORNVILLE

Hazard	Mitigation Strategy	Priority
Severe Wind and Tornado	**Strategy 1I.1.1:** Encourage homeowners to apply additional anchoring to manufactured homes and exterior structures such as carports and porches.	1

TOWNSHIPS OF PERRY COUNTY

BEARFIELD TOWNSHIP

Hazard	Mitigation Strategy	Priority
Flooding	**Strategy 1i.1.1:** Coordinate with other local agencies and state/federal agencies to clean portions of Moxahala Creek, clearing log jams, trees and sediment bars.	1

CLAYTON TOWNSHIP

Hazard	Mitigation Strategy	Priority
Severe Thunderstorm	**Strategy 1ii.1.1:** Establish a township forestry program to trim trees, clear debris from utility poles and maintain all public rights-of-way.	1

COAL TOWNSHIP

Hazard	Mitigation Strategy	Priority
Mine Subsidence	**Strategy 1iii.1.1**: Contact the Ohio Department of Natural Resources, Division of Mineral Resources Management to learn of areas in Coal Township that could be affected by underground mining.	1

HARRISON TOWNSHIP

Hazard	Mitigation Strategy	Priority
Flooding	**Strategy 1iv.1.1**: Evaluate options to lessen the damming of the stream as a direct result of the railroad bridge near Crooksville during high water events.	2
Flooding	**Strategy 1iv1.2**: Construct a retention basin upstream of the railroad bridge near Crooksville.	1

HOPEWELL TOWNSHIP

Hazard	Mitigation Strategy	Priority
Flooding	**Strategy 1v.1.1:** Encourage residents to secure debris, yard items, or stored objects including oil, gasoline, propane tanks, paint, and chemical barrels that may be swept away by floodwaters.	1

JACKSON TOWNSHIP

Hazard	Mitigation Strategy	Priority
Severe Thunderstorm	**Strategy 1vi.1.1**: Provide public service messages detailing what actions residents should take to safeguard themselves during severe thunderstorms and other emergencies.	1

MADISON TOWNSHIP

Hazard	Mitigation Strategy	Priority
Severe Winter Storm	**Strategy 1vii.1.1:** Consider constructing snow fences or planning rows of trees to serve as living snow fences to limit blowing and drifting snow over critical roadways of the township.	1

MONDAY CREEK TOWNSHIP

Hazard	Mitigation Strategy	Priority
Misc.	**Strategy 1viii.1.1**: Purchase a new 4-wheel drive tractor to assist in clearing snow from roadways during and following severe winter storm events.	1
Misc.	**Strategy 1vii.1.2**: Facilitate cooperation among local emergency responders by compiling and strengthening mutual aid agreements.	5
Misc.	**Strategy 1viii.1.3**: Provide broad band Internet to local officials throughout the township to supplement warning capabilities.	4
Misc.	**Strategy 1viii.2.1**: Build a new office/garage complex for the township.	3
Flooding	**Strategy 2viii.1.1**: Increase the size of ditches along township roadways and install proper culverts to allow water to flow properly.	2

MONROE TOWNSHIP

Hazard	Mitigation Strategy	Priority
Flooding	**Strategy 1ix.1.1:** Coordinate with officials in Athens and Morgan Counties to establish an advanced warning system that will provide the residents of Monroe Township with warnings of any potential failures of the Burr Oaks Reservoir Dam.	1

PIKE TOWNSHIP

Hazard	*Mitigation Strategy*	*Priority*
Flooding	**Strategy 1x.1.1:** Coordinate with property owners to decrease the amount of impermeable ground coverage in upland and drainage areas to allow more water to be absorbed into the ground.	1

PLEASANT TOWNSHIP

Hazard	*Mitigation Strategy*	*Priority*
Severe Thunderstorm	**Strategy 1xi.1.1:** Establish a township forestry program to trim trees and clear debris from utility poles and maintain all public right-of-ways.	1

READING TOWNSHIP

Hazard	*Mitigation Strategy*	*Priority*
Flooding	**Strategy 1xii.1.1:** Coordinate with the US Army Corps of Engineers to updated outdated flood studies encompassing areas affected by the failure or topping of the aforementioned dams.	1

SALT LICK TOWNSHIP

Hazard	*Mitigation Strategy*	*Priority*
Severe Wind and Tornado	**Strategy 1xiii.1.1:** Encourage homeowners to apply additional anchoring to manufactured homes and exterior structures such as carports and porches.	1

THORN TOWNSHIP

Hazard	*Mitigation Strategy*	*Priority*
Severe Winter Storms	**Strategy 1xiv.1.1:** Increase the coverage area and use of NOAA weather radios throughout Thorn Township.	1

PLAN MAINTENANCE PROCEDURES – PERRY COUNTY

Including the municipalities of the county

As per requirement 44 CFR Part 201.6(c)(4)(i): [The plan maintenance process shall include a section describing the] method and schedule of monitoring, evaluating, and updating the mitigation plan within a five-year cycle.

As per requirement 44 CFR Part 201.6(c)(4)(ii): [The plan shall include a] process by which local governments incorporate the requirements of the mitigation plan into other planning mechanisms such as comprehensive or capital improvement plans, when appropriate.

As per requirement 44 CFR Part 201.6(c)(4)(iii): [The plan maintenance process shall include a] discussion on how the community will continue public participation in the plan maintenance process.

MONITORING, EVALUATING, AND UPDATING THE PLAN

The Perry County EMA developed a method to ensure that review and updating of the Perry County Hazard Mitigation Plan occurs. Performance of the plan will be monitored in several ways, such as analyzing social, technical, administrative, economic, and environmental criteria.

The Perry County EMA will review the plan following major hazard events. The effectiveness of any implemented mitigation strategies will also be determined at that time. Successful, implemented strategies can then be noted as completed in the plan. Finally, the EMA will consider new mitigation strategies, possibly based on recent hazard events. The Perry County EMA will be responsible for contacting all committee stakeholders prior to any updating process.

Performance of the plan will continue to be monitored based on several criteria.

Social: As mitigation strategies are implemented, are the procedures and outcomes well-received by the general public?

Technical: Are the mitigation strategies proving to be technically feasible?
Are the mitigation strategies eliminating problems rather than creating, new different problems?

Administrative/ Legal: Do the mitigation strategies conform with local, state, and federal policies as they are implemented?

Economic: Are implemented mitigation strategies stifling economic activity and growth?

Environmental: Does implementing mitigation strategies create any adverse environmental conditions? Do mitigation strategies represent sound environmental practices?

IMPLEMENTATION THROUGH EXISTING PROGRAMS

Whenever possible, it is the goal of the EMA to utilize the all available agencies and organizations as well as cooperative working agreements to work in a collaborative effort in order to achieve positive results for Perry County. The EMA will also foster new partnerships throughout the County and with all affected villages to implement identified objectives.

CONTINUED PUBLIC INVOLVEMENT

The Perry County EMA understands that the general public must be involved in the planning process, as well as the updates to the completed plan. As such, the EMA will consider involving the public as the plan is updated through sponsoring future public meetings, distributing questionnaires, etc. Further, as the plan is re-adopted, the public will be given the chance to comment on the document that is to be adopted *prior* to its actual adoption.

The EMA, will maintain copies of the Hazard Mitigation Plan that are available for perusal and review at any time. The EMA intends to log all comments received regarding the mitigation plan. Members of the public are invited to contact the EMA with comments regarding hazard events, etc. Local officials are also invited to review the plan's effectiveness at determining hazard susceptibility based on data from hazard events as they occur.

APPENDIX 1

Multi-Jurisdictional Hazard Risk Assessment

Perry County's Multi-Jurisdictional Hazard Risk Assessment, is revised as an appendix to the Hazard Mitigation Plan. The contents of the risk assessment can be found in Volumes 2 and 3 of the Hazard Mitigation Plan.

APPENDIX 2

Evidence of Public Involvement

Appendix 2 contains evidence of the public involvement during the revision of this hazard mitigation plan. This section contains photocopies of newspaper advertisements, agendas, minutes of such meetings.

Perry County Hazard Mitigation Plan
Stakeholder's / Public Meeting
March 8, 2011

The Perry Soil and Water Conservation District is working in conjunction with the Perry County Emergency Management Agency and the Board of County Commissioners to revise the Natural Hazard Mitigation Plan for Perry County.

The multi-jurisdictional Hazard Mitigation Plan includes all hazards to which the county is susceptible, per Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act. The original plan was completed in 2005.

Agencies that deal with or respond to potential disasters that could impact Perry County were identified as stakeholders. The identified hazards were divided into several categories including: prevention, property protection, natural resource protection, structural projects, emergency services, and public education and awareness. If other categories are identified during the revision process, they will be added to the plan.

The Stakeholder's Meeting was held on Tuesday, March 8, 2011 beginning at 6:30 p.m. The meeting was held at the Perry County Emergency Management Agency office, located at 121 West Brown Street in New Lexington. Those in attendance included Ben Carpenter, Perry SWCD District Administrator; Rita Spicer, Perry County EMA Director; Lonnie Wood, Perry County Commissioner; Katrina Carpenter, independent contractor for Perry County EMA projects; Tim Frash, Perry County Engineer's Office; Jim Mickey, Somerset-Reading Township Fire Department & Perry County FireWise Coordinator; Barry Hoy, Coal Township Trustee; Justin Hunter, NRCS District Conservationist for Perry County; and Theresa Wyer, Perry SWCD Secretary.

The purpose of the meeting was to gather input from the public and stakeholders on the problems they feel exist in the County and to identify any new concerns not included in the original plan. The discussion identified the following concerns:

- tornado damage
- straight line winds
- ice storms
- severe winter weather
- flooding
- fires burning in abandoned mines
- deteriorating dams & reservoir
- impact of Shale well drilling

Questionnaires received from entities not in attendance were also discussed. Those responses can be found in Chapter 3 of this plan.

A second public meeting will be scheduled for the stakeholders and interested parties to review the Hazard Mitigation Plan Update before it is submitted to the Federal Emergency Management Agency for approval.

The meeting adjourned at 8:10 p.m. The public meetings will be scheduled following completion of the plan update and will be advertised in the Perry County Tribune.

Respectfully Submitted,

Theresa Wyer
Recording Secretary

Benjamin Carpenter
Perry SWCD District Administrator
Flood Plain Administrator, Perry County

APPENDIX 3

Adopting Resolutions

Each jurisdiction encompassed in the Multi-Jurisdictional Hazard Mitigation Plan must formally adopt the plan. Appendix 3 contains the resolutions that completed the adoption process, once completed.