

DESCRIPTION OF THE PLANNING AREA – PERRY COUNTY

Including the Villages of Corning, Crooksville, Glenford, Hemlock, Junction City, New Straitsville, Rendville, Shawnee, Somerset, Thornville, and the City of New Lexington

PERRY COUNTY

Perry County is located in the southeastern portion of Ohio. The county contains 11 municipalities, including the villages of Corning, Crooksville, Glenford, Hemlock, Junction City, New Straitsville, Rendville, Shawnee, Somerset, Thornville, and the City of New Lexington, which are described below. The county was established in March of 1818 and encompasses approximately 408 square miles. The county is located in the foothills of the Appalachian Mountains, approximately 65 miles southeast of Columbus, the state capital, and approximately 60 miles from the Ohio River.

Perry County's transportation infrastructure is comprised of both land and air components. Perry County contains approximately 171 miles of state highway, including Routes 37, 155, 204, and 669 that cross the county east and west and Routes 13, 93, 312, 345, 555, 668, and 757, which run north and south. Other components of Perry County's transportation infrastructure include 14 miles of US Route 22. There are two (2) major in-use railroads that traverse the county: the PRR and T&OC railroads, which pass near Moxahala and New Lexington City. Also vital to the transportation infrastructure in Perry County are five (5) airports and/or landing strips, including the Perry County Airport and Crooksville Airport. The nearest airport with scheduled airline service is the Port Columbus International Airport in Columbus.

There are several small creeks and streams that flow through the county, including Rush Creek, Buckeye Fork of the Muskingum River, Moxahala Creek, and Little Monday Creek. There are no major rivers that flow through the county.

According to the 2010 Census,

2010 Population = 36,058

2010 housing units = 15,211

Persons per household 2005-2009 = 2.76.

Ownership rate, 2005-2009 = 75.5%

Median value of owner occupied housing units, 2005-2009 = \$100,800

Median household income 2009 = \$42,625

The majority of Perry County's land cover is forested and accounts for nearly 51% of the total land cover (134,816 acres); agriculture/open urban areas makeup another 44% of the total land cover. Perry County's topography varies greatly from the gently sloping in the Northwest portion of the county the Steep hill of the un-glaciated Southeast portion. Perry County is the home of to the Perry State Forest, Wayne National Forest, Buckeye Lake State Park, and portions of the Bur Oak Reservoir.

VILLAGE OF CORNING

The Village of Corning is located in the southeastern most portion of Perry County in Monroe Township, approximately nine (9) miles south and east of New Lexington City. The village is within the boundaries of Wayne National Forest. The major highways accessing the village include State Routes 13 (north and south) and 155 (east and west). Dolson Creek, West Branch, Indian Run, and Cedar Run all flow near the village.

According to the 2005-2009 Census estimates,

Population = 564

Housing units = 279

Persons per household = 2.4.

Median value of owner occupied housing units = \$58,200

Median household income = \$26,012

VILLAGE OF CROOKSVILLE

The Village of Crooksville is positioned in east-central Perry County in Harrison Township approximately six (6) miles northeast of New Lexington City. The major thoroughfares that can be used to access the village include State Routes 93 running north south and 669 running east west.

Four (4) creeks that flow near Crooksville, including Burley Run, McLuney Creek, Moxahala Creek, and Pasty Creek.

According to the 2005-2009 Census estimates,

Population = 2,376

Housing units = 1078

Persons per household = 2.57

Median value of owner occupied housing units = \$71,500

Median household income = \$33,107

VILLAGE OF GLENFORD

The Village of Glenford is located in north central Perry County near the Licking-Perry County line, and is the only municipality in Hopcwell Township. The village is located approximately five (5) miles east of Thomville Village.

The major highways that can be used to access the village include State Routes 668 and 757 running north south, and State Route 204 running east west. Jonathan Creek and Painter Creek flow near the Village of Glenford.

According to the 2005-2009 Census estimates,

Population = 233

Housing units = 66

Persons per household = 3.64

Median value of owner occupied housing units = \$89,600

Median household income = \$61,786

VILLAGE OF HEMLOCK

The Village of Hemlock is located in southern Perry County in Salt Lick Township, in the Wayne Nation Forest. The villages of Shawnee and New Straitsville are located just to the west of Hemlock. The transportation infrastructure in the village is limited, as State Route 155 is the only major roadway that can be used to access the village.

There are several small creeks and streams that flow near the village including Monday Creek, Pine Spring Run, and Tecumseh Lake.

According to the 2005-2009 Census estimates,

Population = 92

Housing units = 78

Persons per household = 2.79

Median value of owner occupied housing units = \$86,300

Median household income = \$44,688

VILLAGE OF JUNCTION CITY

The Village of Junction City is located in west-central Perry County, approximately four (4) miles west of New Lexington, and is the only municipality in Jackson Township. The major thoroughfares accessing the city include State Routes 37 running east west and 668 running north south. There are three (3) small to medium size creeks that flow near the village: Rush Creek, Dry Run, and Turkey Run.

According to the 2005-2009 Census estimates,

Population = 743

Housing units = 317

Persons per household = 2.48

Median value of owner occupied housing units = \$78,500

Median household income = \$35,750

CITY OF NEW LEXINGTON

The Village of New Lexington is positioned in the central portion of the county and is the county seat. The city is located in Pike Township and is the only municipality in the township. Major thoroughfares that can be used to access the city include State Routes 13, 93, and 345 running north south and State Route 37 running east west. There are also two (2) in-use railroads that pass through the City of New Lexington: the PRR and T&OC railroads. The Perry County Airport is located just two (2) miles south of the city limits.

There are at least four (4) creeks or streams that flow near the City of New Lexington: Bear Creek, Rush Creek, Turkey Run, and Moxahala Creek.

According to the 2005-2009 Census estimates,

Population = 4,460

Housing units = 1,924

Persons per household = 2.66

Median value of owner occupied housing units = \$83,400

Median household income = \$35,078

VILLAGE OF NEW STRAITSVILLE

New Straitsville Village is located in the south central portion of Perry County in Coal Township near the Hocking-Perry County line. The village is located in the Wayne National Forest. Indian Run and Monday Creek flow near the village.

The major roadways into and out of the village include State Routes 93 and 216 running east west, and State Route 595 running north south.

According to the 2005-2009 Census estimates,

Population = 545

Housing units = 271

Persons per household = 2.48

Median value of owner occupied housing units = \$52,000

Median household income = \$25,577

VILLAGE OF RENDVILLE

The Village of Rendville is located in the southeastern corner of Perry County in Monroe Township, just north of Corning Village. The transportation infrastructure into and out of the village is limited, as State Route 13 is the only major highway that accesses the village.

The village is located in the Wayne National Forest, and the Burr Oak Reservoir is located just to the south of the village. There are at least four (4) creeks or streams that flow in or near the village, including Dolson Creek, West Branch, Indian Run, and Cedar Run.

According to the 2005-2009 Census estimates,

Population = 53

Housing units = 27

Persons per household = 2.52

Median value of owner occupied housing units = \$102,500

Median household income = \$22,386

VILLAGE OF SHAWNEE

The Village of Shawnee is located in south-central Perry County in central Salt Lick Township, approximately six (6) miles south of New Lexington. State Route 93 running north south and State Route 155 running east west are the only two (2) major highways that can be used to access the village.

The village is located within the confines of the Wayne National Forest. There are at least two (2) small creeks and/or streams that flow near Shawnee, including Monday Creek, Pine Spring Run, and the Tecumseh Lake.

According to the 2005-2009 Census estimates,

Population = 586

Housing units = 220

Persons per household = 2.90

Median value of owner occupied housing units = \$46,300

Median household income = \$38,500

VILLAGE OF SOMERSET

The Village of Somerset is positioned in the western portion of Perry County in Reading Township. Somerset Village is approximately five (5) miles northwest of New Lexington City. There are several thoroughfares that can be used to access the village, including US Route 22 traveling east west and State Routes 13, 668, 669, and 757.

Clouse Lake is also located south of Somerset.

According to the 2005-2009 Census estimates,

Population = 1,740

Housing units = 722

Persons per household = 2.56

Median value of owner occupied housing units = \$104,800

Median household income = \$32,870

VILLAGE OF THORNVILLE

The Village of Thornville is located in the northwestern-most corner of Perry County in the center of Thorn Township. The major thoroughfares in the village include State Routes 13 running north south and 188 and 204 running east west.

The Buckeye Lake on Northwest and Honey Creek is located near the Village of Thornville.

According to the 2005-2009 Census estimates,

Population = 965

Housing units = 421

Persons per household = 2.38

Median value of owner occupied housing units = \$154,100

Median household income = \$67,875

HAZARD RISK ASSESSMENT – MULTI-JURISDICTIONAL PLAN REQUIREMENTS

According to 44 CFR Part 201.6(c)(2)(ii)(C)(iii), the risk assessment section must assess each jurisdiction's risks where they vary from the risks facing the entire planning area.

For the purpose of this assessment, risk will be assessed separately for each jurisdiction involved where it differs significantly. If the risk affects one (1) jurisdiction and not another, or if the risk affects one (1) jurisdiction in a significantly different manner, it will be so noted in the hazard identification step. If the risks are determined to impact each jurisdiction equally or in the same manner, it will be so noted. In such cases, please refer to the hazard profile contained in the larger jurisdiction's hazard profile (i.e. please refer to *Profiling Hazard Events –Perry County* for risks affecting Perry County and all of its municipalities in the same manner.)

IDENTIFYING HAZARDS – PERRY COUNTY

As per requirement 44 CFR Part 201.6(c)(2)(i): [The risk assessment shall include a] description of the type...of all natural hazards that can affect the jurisdiction.

Perry County identified several hazards in its risk assessment that will be addressed in the county's 2005 Hazard Mitigation Plan. These hazards were identified through an input from the following sources:

- Newspapers ranging in date from 2005 to 2011,
- Interviews conducted with local officials/experts:
 - Ms. Rita Spicer, Perry County EMA Director,
 - Various representatives of the county's critical facilities,
- Flood Insurance Rate Map (FIRM) information for Perry County and the villages of Corning, Crooksville, Glenford, Hemlock, Junction City, New Straitsville, Rendville, Shawnee, Somerset, Thornville, and the City of New Lexington.
- Multiple Internet sites concerning hazard mitigation and planning
 - American Red Cross - Local Chapters
<http://www.redcross.org/where/where.html>
 - Disaster Center
<http://www.desastercenter.com>
 - Digital Q3 Flood Data
<http://msc.fema.gov/MSC/statemap.htm>
 - ESRI
<http://www.esri.com/hazards>
 - Federal Emergency Management Agency
<http://www.fema.gov>
 - HAZUS Instruction and Technical Information
<http://www.fema.gov/hazus>
 - Socio-Economic Data Resources
http://www.csc.noaa.gov/products/nchaz/htm/dinfo_4.htm
 - USDA Natural Resources Conservation Service
<http://www.nhq.nrcs.usda.gov/RID/RID.html>
 - National Oceanic Atmospheric Administration
<http://www4.ncdc.noaa.gov/cgi-win>

As part of the 2011 updates the previous resources were used as well as updating historical information to confirm and support the initial findings in order to make the decisions necessary to include or omit from the 2011 updates.

Following are natural hazards that are not considered to be significant risks in Perry County or the municipalities included in this plan.

- Avalanche – Although Perry County contains elevated terrain and receives significant amounts of snowfall per year, the general elevation is not high enough to cause snow to cap mountains year-round.
- Coastal Erosion – Perry County does not have any coastal boundaries.
- Coastal Storm - Perry County is positioned inland from large bodies of water.
- Hurricane -- While Perry County sometimes receives precipitation as hurricanes hit the eastern and southern coastal states, the county does not experience intense hurricane conditions. The precipitation that is received can be classified as a severe thunderstorm or winter storm.
- Tsunami – Perry County is not located near any large bodies of water, and has no coastal boundaries.
- Volcano -- Research shows no volcanic activity in Perry County.

The following hazards have been identified in the Perry County Hazard Risk Assessment and through the evaluation process have maintained the following in the 2011 update.

Hazard	How Identified	Why Identified
Dam Failure	<ul style="list-style-type: none"> • Ohio Department of Natural Resources, Division of Water • National Dam Inventory • Internet research 	<ul style="list-style-type: none"> • There are currently 23 dams in Perry County, 10 of which are Class I. • A large portion of the Class I dams in the county are located near densely populated areas.
Drought	<ul style="list-style-type: none"> • Review of past newspaper coverage • Review of <i>Palmer Drought Index</i> • NOAA Event Records • USGS web site • Ohio Department of Natural Resources, Division of Water • Ohio Emergency Management Agency 	<ul style="list-style-type: none"> • The <i>Palmer Drought Severity Index</i> indicates that Ohio counties spend 0-5% of the summer and autumn months under drought conditions.

<p>Earthquake</p>	<ul style="list-style-type: none"> • Review of US Geological Survey National Seismic Hazard Mapping Project • Review of ESRI GIS information on Ohio • Ohio Department of Natural Resources web site • Ohio Seismic Network 	<ul style="list-style-type: none"> • The US Geological Survey lists Perry County as a PGA 2.0-3.0 (MMI IV). • According to an Earthquake Epicenters in Ohio Map prepared by the Department of Natural Resources, there have been two (2) earthquake occurrences along the Perry-Morgan County line, including a 3.0-3.9 non-instrumental earthquake in 1952. The second earthquake occurred one (1) year later and was smaller in magnitude.
<p>Epidemic</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • Public input • Ohio Department of Natural Resources web site • Ohio Department of Health 	<ul style="list-style-type: none"> • Epidemics can strike any area at any time. • According to a July 3, 2002 articles from the Perry County Tribune, the Perry County Health Department determined that several blue jays within the county were infected with West Nile Virus.
<p>Flooding</p>	<ul style="list-style-type: none"> • Review of FIRM information • Public input • Review of past newspaper coverage • NOAA Event Records • Internet research 	<ul style="list-style-type: none"> • There are several streams and creeks that flow through Perry County, including Buckeye Fork of the Muskingum River, Moxahala Creek, Little Monday Creek, Rush Creek, and Jonathon Creek.
<p>Hailstorm</p>	<ul style="list-style-type: none"> • Climatology reports • National Weather Service • NOAA Event Records • Reviews of past newspaper coverage • Interviews with local representatives 	<ul style="list-style-type: none"> • Hail is capable of widespread damage in a short period of time.
<p>Hazmat Incident</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • Environmental Protection Agency's (National Priorities Listing) • Internet research 	<ul style="list-style-type: none"> • There are currently 2,500 hazardous materials shipments per day on the highways that cross the state of Ohio. • Highways that cross the county are used to transport hazardous material shipments.
<p>Infestation</p>	<ul style="list-style-type: none"> • Ohio Department of Health • Review of online information from the Ohio Division of Forestry • Ohio Department of Natural Resources 	<ul style="list-style-type: none"> • According the Ohio Department of Natural Resources Perry County is among several Ohio counties to be placed under quarantine in an attempt to prevent the spread of gypsy moth caterpillars, the Emerald Ash Borer and Asian Long Horned Beetle.
<p>Land Subsidence and Mine Subsidence</p>	<ul style="list-style-type: none"> • Ohio Department of Natural Resources, (Mineral Resources Management) 	<ul style="list-style-type: none"> • According to the Ohio DNR, Mineral Resources Management Division, there are several underground mines located in the southeastern portion of Perry County. • There are six (6) municipalities in the southeastern portion of the county that could potentially be affected by mine subsidence, which account for 4,646 people and 2,017 housing units.

<p>Severe Thunderstorm</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • NOAA Event Records • National Weather Service 	<ul style="list-style-type: none"> • There have been 50 occurrences of thunderstorms in Perry County recorded in <i>NOAA Event Records</i>, most of which have resulted in property damage.
<p>Severe Wind and Tornado</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • NOAA Event Records • Review of ESRI GIS information on Ohio • National Weather Service • <i>State and Local Mitigation Planning How-To Guide: Understanding Your Risks</i> 	<ul style="list-style-type: none"> • According to a map prepared by the Ohio Insurance Institute Ohio endured 18 tornadoes in 2000.
<p>Severe Winter Storm and Sleet</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • NOAA Event Records • Public input • Review of past disaster declarations 	<ul style="list-style-type: none"> • According to the NOAA event record database, there have been 20 winter storm related events in Perry County between 1950 and 2003
<p>Terrorism (Biological)</p>	<ul style="list-style-type: none"> • Local officials requested terrorism be identified and evaluated 	<ul style="list-style-type: none"> • Perry County contains public infrastructure systems. • Perry County contains many agricultural assets that could become agri-terrorism targets.
<p>Terrorism (Chemical)</p>	<ul style="list-style-type: none"> • Local officials requested man-made hazards be identified and evaluated 	<ul style="list-style-type: none"> • Perry County contains public infrastructure systems.
<p>Terrorism (WMD)</p>	<ul style="list-style-type: none"> • Local officials requested man-made hazards be identified and discussed 	<ul style="list-style-type: none"> • WMD events in neighboring or nearby counties could potentially affect Perry County.
<p>Temperature Extreme</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • National Weather Service • NOAA Event Records • FEMA web site 	
<p>Wildfire</p>	<ul style="list-style-type: none"> • Review of past newspaper coverage • Ohio Department of Natural Resources • Ohio Division of Forestry • Internet research 	<ul style="list-style-type: none"> • Perry County contains portions of the Wayne National Forest and Perry State Forest. • Each year, an average of 1,000 acres of forest and grassland within Ohio's forest fire protection district perish as a result of wildfires.

PROFILING HAZARD EVENTS – PERRY COUNTY

Including the Villages of Corning, Crooksville, Glenford, Hemlock, Junction City, New Straitsville, Rendville, Shawnee, Somerset, Thornville, and the City of New Lexington

As per requirement 44 CFR Part 201.6(c)(2)(i): [The risk assessment shall include a] description of the...location and extent of all natural hazards that can affect the jurisdiction. The plan shall include information on previous occurrences of hazard events and on the probability of future events.

Perry County is subject to many hazard events. As discussed above, past newspaper research, searches of multiple Internet sites, reviews of current FIRM information, and discussions with local emergency management personnel assisted in the identification of these hazards. Each hazard is defined, discussed, and profiled below in detail.

The hazard profiles for each hazard are included in this report under a section labeled by the hazard, which includes Worksheet #3a. and Worksheet #4.

ASSET INVENTORY – PERRY COUNTY

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

Throughout the updating process the methodology used was very similar if not similar to the methodology used in the initial Hazard Mitigation Plan. In regard to the current asset inventory throughout the County and the participating municipalities there was no measurable differences according to available census data. Therefore the same figures are noted with adjustments to current 2011 prices relative value.

METHODOLOGY

Several resources were used to inventory the assets in Perry County, both for the county as a whole and within designated hazard risk areas. For example, HAZUS U.S., and Census data were used in addition to extensive correspondence with local representatives.

The first task that was undertaken was to identify the number of residential, commercial, industrial, agricultural, religious/non-profit, government, education, and utility facilities throughout the county and municipalities. Each type of structure was further broken down into three (3) sub-categories: # in Community or State, # in Hazard Area, and % in Hazard Area. (The hazard area was identified in the mapping generated during the hazard-profiling step.) The number of structures, value of structures, and number of people for each type of structure was listed, along with the three (3) sub-categories mentioned above.

HAZUS, Census 2010 information, and the GIS-based mapping that was generated during the hazard-profiling step determined the number and value of structures. Finally, the number of people was determined by Census 2010 information. This was done by highlighting all of the affected census block groups in the previously identified hazard areas on the GIS-based maps. The census block group information had been loaded into an ArcView 3.2 base map at the start of this project. All of this information was marked on Worksheet #3a. from FEMA's *State and Local Mitigation Planning How-to Guide: Understanding Your Risks*. This information was listed and reanalyzed for each of the hazards that were profiled.

Next, a specific asset inventory was developed based on HAZUS, Census 2010 data, and information provided by local representatives in Perry County. Each of these specific assets was classified in categories such as critical facility, vulnerable population, economic asset, special

consideration, or historic/other consideration. The size of each of the structures, as well as the replacement value, contents value, function use or value, displacement cost (should the asset be non-operational for a day or longer), occupancy or capacity, and other hazard specific information was compiled.

Following are the methods used to determine the above-categories for each of the county's assets.

- Size of buildings = square footage (for assets such as railroads and highways, length was used): This was usually determined by calling an official representative of the asset (e.g. the company president, utility manager, etc.).
- Replacement value of the structure: This was usually determined by calling an official representative of the asset (e.g. the company president, utility manager, etc.).
- Contents value, if not obtained by calling an official representative of the asset, was determined by HAZUS, which gave a table breaking each type (i.e. commercial or residential) of facility into a percentage by which to multiply the replacement value. (e.g. Contents Value of Schools/Libraries = Replacement Value X 100%)
- Function use or value was determined by total annual operational budget.
- Displacement cost (\$ per day) was determined by the function use or value divided by 365.
- Occupancy was determined by calling an official representative of the asset. (e.g. Occupancy of Schools = Total Students + Paid Staff)

A composite list of all of the county's assets was compiled. The assets were also listed based on their location in regards to a hazard area. For example, if a government facility was located in an area listed as highly susceptible to flood hazards, then that facility was also listed as such on a list for assets in flood areas. Worksheet #3b. from the *State and Local Mitigation Planning How-to Guide: Understanding Your Risks* and other asset grids were used to show these calculations and lists.

ASSETS

Perry County's Risk Assessment identifies specific assets located throughout the county and the hazards to which these facilities are susceptible. An asset is defined as a facility which is either in the public or private sector that provides essential products and services to the general public, is otherwise necessary to preserve the welfare and quality of life in Perry County, or fulfills important public safety, emergency response, and/or disaster recovery functions. Assets can be a critical facility, vulnerable population, economic asset, special consideration, or historic/other consideration.

The assets identified in the county are emergency services facilities (i.e. fire departments, EMS stations, police stations, etc.), hospitals, utility systems (i.e. water, sewer, gas, and electric),

airports, government facilities, schools, historic sites, bridges and transportation systems, and large industrial or commercial facilities. (See "Perry County Asset Inventory" map.)

In addition to critical facilities, an analysis of Census 2010 data indicates that the county contains at-risk populations that should be factored into this risk assessment. Perry County and all of its municipalities contain elderly with limited mobility in fact approximately 22% or 7,593 persons of the total population are between the ages of 45 and 64. Several care facilities are located throughout the county. This population is adversely affected during hazard events because of a lack of accessibility to emergency and other services. The county also contains youth populations that may be affected by certain hazard events. Hazards such as floods, winter storms, hail, etc. pose health and safety threats during hazard events.

A further analysis of Census 2010 data, coupled with historical census data indicates that Perry County and all municipalities therein have experienced a significant increase in population over the past ten (10) years. Similar residential development trends are likely to continue as the development near the City of New Lexington. Local leaders are working to increase residential development throughout Perry County. These leaders should be encouraged to consider mitigation, e.g. strengthened building materials, landscaping, etc., as this development occurs.

The following are major assets located in Perry County. Please see the attached chart that lists the replacement value, contents value, function use or value, displacement cost, occupancy or capacity, and other hazard specific information for each of these assets.

- **FIRE AND POLICE DEPARTMENTS**

- Corning Volunteer Fire Department – Critical Facility
- Crooksville Fire Department – Critical Facility
- Crooksville Police Department – Critical Facility
- Glenford Fire Department – Critical Facility
- Hopewell Township Fire Department – Critical Facility
- Junction City Volunteer Fire Department – Critical Facility
- Junction City Police – Critical Facility
- Monday Creek Township Fire Department – Critical Facility
- New Lexington City Police – Critical Facility
- New Lexington Fire Department – Critical Facility
- New Straitsville – Critical Facility

- Perry County Sheriff – Critical Facility
- Roseville Village Fire Department – Critical Facility
- Shawnee Fire Department – Critical Facility
- Shawnee Village Police -- Critical Facility
- Somerset Reading Township Fire Department – Critical Facility
- Somerset Village Police Department – Critical Facility
- Thomville Thorn Township Fire Department – Critical Facility
- Thornville Village Police – Critical Facility

• **SCHOOLS & EDUCATIONAL FACILITIES**

- Crooksville Elementary School – Critical Facility
- Crooksville High School - Critical Facility
- Crooksville Middle School – Critical Facility
- Crooksville School District – Critical Facility
- Glenford Elementary School – Critical Facility
- Junction City Elementary School – Critical Facility
- Millcreek Elementary School – Critical Facility
- Miller High School – Critical Facility
- New Lexington Elementary School -- Critical Facility
- New Lexington Middle School - Critical Facility
- New Lexington High School – Critical Facility
- Perry County Learning Center – Critical Facility
- Sheridan High School - Critical Facility
- Sheridan Middle School - Critical Facility
- Somerset Elementary School – Critical Facility
- Southern Local School District – Critical Facility
- Thornville Elementary School – Critical Facility

• **POST OFFICES**

- Corning Post Office – Special Consideration
- Roseville Post Office – Special Consideration
- Somerset Post Office – Special Consideration

- Shawnee Post Office – Special Consideration
- Crooksville Post Office – Special Consideration
- New Lexington Post Office – Special Consideration
- Thornville Post Office – Special Consideration

- **HOSPITALS, NURSING HOMES, AND AMBULANCE SERVICE**
 - Somerset Healthcare Center – Critical Facility
 - Sunbridge Care & Rehabilitation for New Lexington – Critical Facility

- **TRANSPORTATION INFRASTRUCTURE**
 - Bridges – Critical Facility
 - Roads – Critical Facility
 - Railroads – Critical Facility
 - Crooksville Runway – Critical Facility
 - Perry County Runway – Critical Facility
 - Clum Runway – Critical Facility
 - Roberts Field Runway – Critical Facility

- **OTHER CRITICAL FACILITIES**
 - Corning Village – Critical Facility
 - Clayton Township – Critical Facility
 - Crooksville Sanitation Department – Critical Facility
 - Crooksville Water Department – Critical Facility
 - Crooksville Village – Critical Facility
 - Glenford Village – Critical Facility
 - Glenford-Hopewell Township – Critical Facility
 - Junction City Waste Water Treatment Plant – Critical Facility
 - Junction City Water Works – Critical Facility
 - Junction City Village – Critical Facility
 - New Lexington – Critical Facility
 - New Lexington Water Works – Critical Facility

- New Lexington Waste Water Treatment Plant – Critical Facility
- New Straitsville Village – Critical Facility
- Madison Township – Critical Facility
- Monday Creek Township – Critical Facility
- Perry County Court House – Critical Facility
- Pleasant Township – Critical Facility
- Residential – Critical Facility
- Roseville Village Water Works – Critical Facility
- Saltlick Township – Critical Facility
- Shawnee Village – Critical Facility
- Shawnee Waste Water Treatment Plant – Critical Facility
- Shawnee Water Treatment Plant – Critical Facility
- Somerset Water Treatment Plant – Critical Facility
- Somerset Waste Water Treatment Plant – Critical Facility
- Somerset-Reading Township – Critical Facility
- Thornville Village – Critical Facility
- Village of Thornville Water Well and Tower – Critical Facility
- Village of Thornville Sewer Plant – Critical Facility

Perry County Asset Grid

Name or Description of Asset	Dam Failure	Drought	Earthquake	Epidemic	Flooding	Hailstorm	Hazmat	Infestation	Land / Mine Subsidence	Terrorism	Thunderstorm	Wind &Tornado	Winter Storm	Temp. Extreme - Heat Wave	Wildfires
Residential	L	M	H	L	M	L	L	L	H	L	M	M	M	L	M
Corning VFD	L	M	H	L	M	L	L	L	H	H	M	M	M	L	M
Crooksville FD	M	M	H	L	H	L	L	L	H	H	M	M	M	L	M
Hopewell TWP FD	L	M	H	L	H	L	L	L	L	H	M	M	M	L	M
Junction City VFD	L	M	H	L	M	L	L	L	M	H	M	M	M	L	M
Monday Creek TWP VFD	M	M	H	L	H	L	L	L	L	H	M	M	M	L	M
New Lexington FD	L	M	H	L	H	L	L	L	M	H	M	M	M	L	M
New Straitsville VFD	M	M	H	L	H	L	L	L	H	H	M	M	M	L	M
Shawnee VFD	L	M	H	L	M	L	L	L	H	H	M	M	M	L	M
Somerset Reading TWP FD	M	M	H	L	H	L	L	L	L	H	M	M	M	L	M
Thornville Thorn TWP VFD	L	M	H	L	H	L	L	L	L	H	M	M	M	L	M
Crooksville SD	L	L	H	M	H	L	L	L	H	L	M	M	M	L	L
Crooksville ES	L	L	H	M	H	L	L	L	H	L	M	M	M	L	L
Crooksville HS	L	L	H	M	H	L	L	L	H	L	M	M	M	L	L
Crooksville MS	L	L	H	M	H	L	L	L	H	L	M	M	M	L	L
Glenford ES	L	L	H	M	H	L	L	L	L	L	M	M	M	L	L
Junction City ES	L	L	H	M	H	L	L	L	L	L	M	M	M	L	L
Southern Local SD	L	L	H	M	M	L	L	L	H	L	M	M	M	L	L
Millicreek ES	L	L	H	M	M	L	L	L	H	L	M	M	M	L	L

Miller HS	L	L	H	M	M	L	L	L	L	H	L	M	M	M	L	L
Miller MS	L	L	H	M	M	L	L	L	L	H	L	M	M	M	L	L
New Lexington ES	L	L	H	M	H	L	L	L	L	M	L	M	M	M	L	L
New Lexington HS	L	L	H	M	H	L	L	L	L	M	L	M	M	M	L	L
New Lexington MS	L	L	H	M	H	L	L	L	L	M	L	M	M	M	L	L
Perry County Learning Center	L	L	H	M	H	L	L	L	L	M	L	M	M	M	L	L
Sheridan HS	L	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Sheridan MS	L	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Somerset ES	M	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Thornville ES	L	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Somerset Post Office	L	L	H	L	H	L	L	L	L	L	L	M	M	M	L	L
Shawnee Post Office	M	L	H	L	H	L	L	L	L	H	L	M	M	M	L	L
Crooksville Post Office	L	L	H	L	H	L	L	L	L	H	L	M	M	M	L	L
New Lexington Post Office	L	L	H	L	H	L	L	L	L	M	L	M	M	M	L	L
Somerset Healthcare Center	M	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Sunbridge Care & Rehabilitation for New Lexington	L	L	H	M	H	L	L	L	L	M	L	M	M	M	L	L
Roads	L	L	H	L	H	M	H	L	L	H	L	M	M	M	L	L
Railroads	L	L	H	L	H	M	H	L	L	H	L	M	M	M	L	L
Bridges	M	L	H	L	H	L	H	L	L	H	L	M	M	M	L	L
Crooksville Runway	L	L	H	L	H	M	H	M	M	H	L	M	M	M	L	L
Perry County Runway	L	L	H	L	H	M	H	M	M	M	L	M	M	M	L	L
Clum Runway	L	L	H	L	H	M	H	M	M	L	L	M	M	M	L	L
Roberts Field Runway	L	L	H	L	H	M	H	M	M	L	L	M	M	M	L	L
New Lexington City Police	L	L	H	L	H	L	L	L	L	M	H	M	M	M	L	L
Crooksville Police Department	L	L	H	L	H	L	L	L	L	H	H	M	M	M	L	L
Somerset Village Police Department	M	L	H	L	H	L	L	L	L	L	L	M	M	M	L	L

Junction City Village Police	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Shawnee Village Police Department	M	L	L	L	L	L	L	L	L	L	L	H	H	M	M	M	L	L
Thornville Village Police	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Shawnee Village Hall	M	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Shawnee Waste Water Treatment Plant	M	L	L	L	L	L	L	L	L	L	L	H	H	M	M	M	L	L
Shawnee Water Treatment Plant	M	L	L	L	L	L	L	L	L	L	L	H	H	M	M	M	L	L
Clayton Township	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Roseville Village Water Works	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Roseville Village FD	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	M
Roseville Post Office	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Crooksville Sanitation Department	L	L	L	L	L	L	M	L	L	L	L	L	H	M	M	M	L	L
Crooksville Water Department	L	L	L	L	L	L	M	L	L	L	L	L	H	M	M	M	L	L
Crooksville Village	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Junction City Waste Water Treatment Plant	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Junction City Water Works	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Junction City Village	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
New Straitsville Village	M	M	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Saltlick Township	M	M	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Corning Village	L	M	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Pleasant Township	L	M	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Corning Post Office	L	M	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Glenford FD	L	L	L	L	L	L	M	L	L	L	L	L	H	M	M	M	L	M
Glenford Hopewell Township	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Glenford Village	L	L	L	L	L	L	L	L	L	L	L	L	H	M	M	M	L	L
Somerset Waste Water Treatment Plant	L	L	L	L	L	L	M	L	L	L	L	L	H	M	M	M	L	L

Somerset Water Treatment Plant	L	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Somerset-Reading Township	L	L	H	L	H	L	L	L	L	L	L	M	M	M	L	L
Village of Thornville Water Well and Tower	L	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Village of Thornville Sewer Plant	L	L	H	M	H	L	L	L	L	L	L	M	M	M	L	L
Thornville Post Office	L	L	H	L	H	L	L	L	L	L	L	M	M	M	L	L
Thornville Village	L	L	H	L	H	L	L	L	L	L	L	M	M	M	L	L
New Lexington	L	L	H	L	H	L	L	L	L	L	M	M	M	M	L	L
New Lexington Water Works	L	L	H	M	H	L	L	L	L	L	M	M	M	M	L	L
New Lexington Waste Water Treatment Plant	L	L	H	M	H	L	L	L	L	L	M	M	M	M	L	L
Perry County Sheriff	L	L	H	L	H	L	L	L	L	L	H	M	M	M	L	L
Perry County Court House	L	L	H	L	H	L	L	L	L	L	H	M	M	M	L	L
Madison TWP	L	L	H	L	H	L	L	L	L	L	H	M	M	M	L	L
Monday Creek TWP	L	L	H	L	H	L	L	L	L	L	H	M	M	M	L	L

ASSET INVENTORY – VILLAGE OF CORNING

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Corning is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Corning.

ASSETS

- Corning Post Office – Special Consideration (Federal Facility)
- Corning Village – Critical Facility (Government Facility)
- Corning Volunteer Fire Department – Critical Facility (Emergency Service)
- Southern Local School District – Critical Facility (Education)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF CROOKSVILLE

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Crooksville is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Crooksville.

ASSETS

- Crooksville Fire Department -- Critical Facility (Emergency Service)
- Crooksville Police Department -- Critical Facility (Emergency Service)
- Crooksville Elementary -- Critical Facility (Education)
- Crooksville Middle -- Critical Facility (Education)
- Crooksville High -- Critical Facility (Education)
- Crooksville Post Office -- Special Consideration (Federal Facility)
- Crooksville Runway -- Critical Facility (Transportation Infrastructure)
- Crooksville Sanitation Department -- Critical Facility (Utilities)
- Crooksville School District -- Critical Facility (Education)
- Crooksville Village -- Critical Facility (Government Facility)
- Crooksville Water Department -- Critical Facility (Utilities)
- Roads -- Critical Facility (Transportation Infrastructure)
- Railroads -- Critical Facility (Transportation Infrastructure)
- Bridges -- Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF GLENFORD

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Glenford is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Glenford.

ASSETS

- Hopewell Township Volunteer Fire Department – Critical Facility (Emergency Service)
- Glenford Elementary - Critical Facility (Education)
- Glenford Fire Department – Critical Facility (Emergency Services)
- Glenford Hopewell Township – Critical Facility (Government Facility)
- Glenford Village – Critical Facility (Government Facility)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads -- Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF HEMLOCK

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Hemlock is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Hemlock.

ASSETS

- Millcreek Elementary – Critical Facility (Education)
- Miller High – Critical Facility (Education)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF JUNCTION CITY

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Junction City is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Junction City.

ASSETS

- Junction City Volunteer Fire Department – Critical Facility (Emergency Service)
- Junction City Village Police - Critical Facility (Emergency Service)
- Junction City Water Works – Critical Facility (Utilities)
- Junction City Waste Water Treatment Plant - Critical Facility (Utilities)
- Junction City Elementary – Critical Facility (Education)
- Junction City Village – Critical Facility (Government Facility)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – CITY OF NEW LEXINGTON

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the City of New Lexington is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the City of New Lexington.

ASSETS

- New Lexington – Critical Facility (Government Facility)
- New Lexington Fire Department – Critical Facility (Emergency Service)
- New Lexington City Police – Critical Facility (Emergency Service)
- Sunbridge Care & Rehabilitation for New Lexington – Critical Facility (Health Care)
- New Lexington Elementary – Critical Facility (Education)
- New Lexington Middle – Critical Facility (Education)
- New Lexington High – Critical Facility (Education)
- New Lexington Water Works – Critical Facility (Utilities)
- New Lexington Waste Water Treatment Plant – Critical Facility (Utilities)
- Perry County Learning Center – Critical Facility (Education)
- Perry County Sheriff – Critical Facility (Emergency Services)
- Perry County Court House – Critical Facility (Government Facility)
- New Lexington Post Office – Special Consideration (Federal Facility)
- Perry County Runway – Critical Facility (Transportation Infrastructure)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF NEW STRAITSVILLE

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of New Straitsville is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of New Straitsville.

ASSETS

- New Straitsville Volunteer Fire Department -- Critical Facility (Emergency Service)
- New Straitsville Village – Critical Facility (Government Facility)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF RENDVILLE

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Rendville is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Rendville.

ASSETS

- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF SHAWNEE

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Shawnee is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Shawnee.

ASSETS

- Saltlick Township – Critical Facility (Government Facility)
- Shawnee Volunteer Fire Department – Critical Facility (Emergency Service)
- Shawnee Village Police Department – Critical Facility (Emergency Service)
- Shawnee Village Hall – Critical Facility (Government)
- Shawnee Post Office – Special Consideration (Federal Facility)
- Shawnee Waste Water Treatment Plant – Critical Facility (Public Infrastructure)
- Shawnee Water Treatment Plant – Critical Facility (Public Infrastructure)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF SOMERSET

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Somerset is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Somerset.

ASSETS

- Somerset-Reading Township – Critical Facility (Government Facility)
- Somerset Reading Township Volunteer Fire Department – Critical Facility (Emergency Service)
- Somerset Village Police Department – Critical Facility (Emergency Service)
- Somerset Water Treatment Plant – Critical Facility (Utilities)
- Somerset Waste Water Treatment Plant – Critical Facility (Utilities)
- Somerset Elementary – Critical Facility (Education)
- Somerset Healthcare Center – Critical Facility (Health Care)
- Somerset Post Office – Special Consideration (Federal Facility)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ASSET INVENTORY – VILLAGE OF THORNVILLE

As per requirement 44 CFR Part 201.6 (c)(2)(ii)(A): [The risk assessment shall include a] description of the jurisdiction's vulnerability to the hazards described in paragraph (c)(2)(i) of this section. This description shall include an overall summary of each hazard and its impact on the community. The plan should describe vulnerability in terms of: the types and numbers of existing and future buildings, infrastructure, and critical facilities located in the identified hazard areas.

METHODOLOGY

The methodology for the asset inventory of the Village of Thornville is exactly the same as for Perry County. In fact, the assets that are located within the corporate limits are listed on the composite asset and hazard lists that encompass the county assets. For the purpose of clarity, the following assets are located within the corporate limits of the Village of Thomville.

ASSETS

- Thornville Post Office – Special Consideration (Federal Facility)
- Thornville Thom Township Volunteer Fire Department – Critical Facility (Emergency Service)
- Thornville Village – Critical Facility (Government Facility)
- Thornville Village Police Department – Critical Facility (Emergency Service)
- Thornville Elementary -- Critical Facility (Education)
- Sheridan Middle – Critical Facility (Education)
- Sheridan High -- Critical Facility (Education)
- Village of Thornville Sewer Plant – Critical Facility (Utilities)
- Village of Thornville Water Well and Tower -- Critical Facility (Utilities)
- Clum Runway – Critical Facility (Transportation Infrastructure)
- Roads – Critical Facility (Transportation Infrastructure)
- Railroads – Critical Facility (Transportation Infrastructure)
- Bridges – Critical Facility (Transportation Infrastructure)

ESTIMATE LOSSES – PERRY COUNTY

As per 44 CFR Part 201.6(c)(2)(ii)(B): [The plan should describe vulnerability in terms of an] estimate of the potential dollar losses to vulnerable structures identified in paragraph (c)(2)(i)(A) of this section and a description of the methodology used to prepare the estimate.

Perry County used GIS-based mapping, HAZUS, and interviews with local representatives, as well as Worksheet #4 from the Federal Emergency Management Agency's (FEMA) *State and Local Mitigation Planning How-to Guide: Understanding Your Risks* to estimate the potential dollar losses if the county was to experience the hazard events that are profiled above.

The information that was gathered in the asset inventory stage of the risk assessment was used to determine the estimated losses. For example, Worksheet #4 makes use of the replacement value, contents value, functional use or value, displacement cost, and occupancy or capacity information from Worksheet #3b. Displacement time was estimated based on historical data of past hazard events. For example, historical data was reviewed to determine how long the average flooding event closes county schools.

Following are the estimated losses to each asset if the hazard event were to occur. Please note that these are *estimates* for *potential* hazard events. The percentage of damage was determined on a "per hazard" basis depending also on the physical location of the asset. For example, assets in high hazard areas for winter storms received a higher damage percentage than assets in low hazard areas. The justification for such a determination is because winter storms are predicted to not only strike high hazard areas more frequently, but also be more severe (based on historical data). These dollar values do not represent actual losses from past hazard events.

Dam Failure

There are 23 total dams in Perry County, 10 of which are Class I Dams. According to the Ohio Department of Natural Resources, the failure of a Class I Dam could potentially result in the loss of life and structural damage to high valued properties such as homes, industries, and major public utilities.

Total loss to structures as a result of a dam failure is estimated to be \$23,623,780; total contents loss is estimated at \$122,400; total loss to structure use and function is anticipated to be \$113,590. The total estimated loss as a result of a dam failure is \$23,859,666.

Drought

It is very unlikely that drought would cause any damage to the county's structural assets. Drought would, however, have a direct impact of the agricultural assets and the local water supply. Effects on the water supply can potentially disrupt service, especially in many residential areas that rely on private wells.

Total loss to structures as a result of a drought is estimated to be \$0.00; total contents loss is estimated at \$0.00; total loss to structure use and function is anticipated to be as much as \$0.00. The total estimated loss as a result of a drought is \$0.00.

Earthquake

Perry County is listed as an MMI IV area with a Peak Ground Acceleration (PGA) of 2.0-3.0 with respect to earthquakes. There have been at least two (2) earthquake occurrences in Perry County since 1858, with the most recent occurring in 1953.

Total loss to structures as a result of an earthquake is estimated to be \$8,265,000; total contents loss is estimated at \$59,300; total loss to structure use and function is anticipated to be as much as \$211,920. The total estimated loss as a result of an earthquake is \$8,534,160.

Flooding

Flood damage is reported often throughout Perry County, as a result of both flash flooding and riverine flooding. Further, floods affect both structures and the contents in those structures as water often enters them. Consequently, loss estimates for flooding events are high.

Potential structural losses due to flooding are estimated to be \$7,361,100; potential contents losses total \$333,800; and structure use and function loss estimates total \$173,560. The total potential loss due to a flooding event in Perry County is \$7,868,460.

Hailstorm

Hailstorms are a significant hazard throughout all of Perry County. However, these events cause little to no structural damage to the county's assets, except for a possible broken window or damaged heating/cooling equipment. As such, the potential losses per structure are anticipated to be low. As with many of these identified hazards, it is perhaps more pertinent to review the accompanying charts for an asset-by-asset listing of potential loss.

Total, countywide structural losses are estimated to be \$578,900. This damage would be broken windows, damaged HVAC equipment, etc. Contents losses due to hail would also be relatively low. Potential contents losses total \$47,700. Total potential losses in the structure use and function category are estimated at \$105,970. Total potential losses due to a hailstorm are \$732,890.

Infestation

Losses to structural assets are relatively low when considering infestation. This hazard primarily affects agricultural assets. Therefore, anticipated potential losses to structural assets due to an infestation are low.

Total, countywide structural losses are estimated to be \$0.00. Contents losses due to infestations would also be relatively low. Potential contents losses total \$0.00. Total potential losses in the structure use and function category are estimated at \$69,700. Total potential losses due to infestations are \$69,700.

Land Subsidence and Mine Subsidence

There are several abandoned mines in Perry County most of which are located beneath heavily-populated municipalities. Sinkholes are common occurrences around abandoned mines and can result in significant property damage to a large area over a short period of time. Other, more traditional forms of subsidence may also cause problems throughout Perry County's mountainous terrain.

Potential structural losses in Perry County total \$5,995,200; content losses total \$268,100; and structure use and function loss estimates total \$279,890. The total potential loss in Perry County due to mine subsidence is anticipated to be \$6,543,190.

Severe Thunderstorm

Many of the structural damages associated with severe thunderstorms include downed power lines, fallen trees and other debris that causes structural damage, etc. Further, damage to contents is also potentially high, as in power surges due to lightning, etc.

Potential structural losses in Perry County total \$1,985,700; content losses total \$238,600; and structure use and function loss estimates total \$105,970. The total potential loss in Perry County due to a severe thunderstorm is \$2,322,330.

Severe Wind and Tornado

Strong windstorms, especially tornadoes, can cause significant damage to structural assets. Perry County's topography is that of flat and open to gently sloping, which offers no natural barriers to breakup severe wind or tornados that form. The following estimates were developed based on historic hazard events as well as statewide wind zone designations. Again, these figures are representative of the potential losses of a hazard event if it were to occur. These figures in no way insinuate that the particular hazard event will occur.

Potential structural losses total \$1,985,700; potential contents losses total \$238,600; and structure use or function loss totals \$0.00. Total potential loss in Perry County due to severe wind and possible tomadoes totals \$2,224,300.

Severe Winter Storm and Sleet

Damage as a result of winter storms often is associated with snow weight, hazardous driving conditions, etc. Loss estimates from winter storms were calculated both by the probability and severity of a potential hazard event. For instance, damage to assets in a "Low Hazard Risk" areas, are estimated lower than damage in "High Hazard Risk" areas, in part because not only are winter storm events more common in high hazard areas, but they are also more severe (because of the higher elevations associated with the "High Hazard Risk" areas).

Potential structural losses due to winter storms are estimated to be \$5,572,000; potential contents losses total \$238,600; and structure use and function loss estimates total \$108,830. The total potential loss due to a winter storm event in Perry County is \$5,919,430.

Temperature Extreme – Heat Wave

It is anticipated that extreme heat will not cause any damage to structural assets in Perry County. A heat wave can affect employers at the county's assets. However the possibility of enough people getting sick as a result of heat wave to close the asset is relatively low.

Wildfire

A large portion of Perry County is covered with vast wooded areas. Many of the structural assets in the county are within close proximity of those wooded areas. If a wildfire

where to occur a large portion of structural assets could possibly be damaged or completely destroyed.

Potential structural losses due to wildfires total \$1,110,800. Potential contents losses total \$127,300. Potential structure use and function loss estimates total \$105,970. The total potential losses for Perry County due to wildfires are estimated at \$1,344,07020.

ANALYZING DEVELOPMENT TRENDS – PERRY COUNTY

Including the Villages of Corning, Crooksville, Glenford, Hemlock, Junction City, New Straitsville, Rendville, Shawnee, Somerset, Thornville, and the City of New Lexington

As per 44 CFR Part 201.6(c)(2)(ii)(C): [The plan should describe vulnerability in terms of] providing a general description of land uses and development trends within the community so that mitigation options can be considered in future land use decisions.

Perry County is located in southeastern Ohio, Licking and Muskingum Counties border the county to the north, Muskingum and Morgan Counties border it to the east, Athens and Hocking Counties makes up the southern border, and Fairfield and Hocking Counties form the western border. The incorporated communities in the county include the villages of Corning, Crooksville, Glenford, Hemlock, Junction City, New Straitsville, Rendville, Shawnee, Somerset, Thornville, and the City of New Lexington. New Lexington City, the county seat, is currently the most populated of the municipalities in Perry County with a population of 4,731.

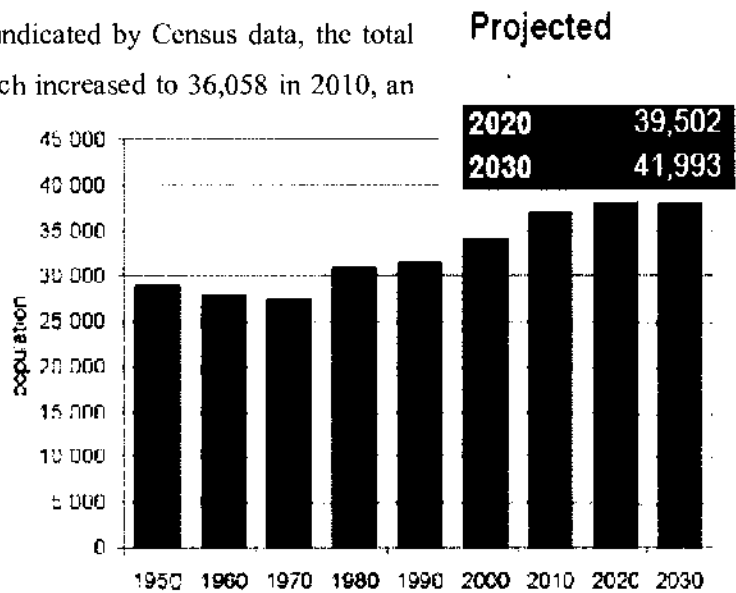
Perry County is located in the foothills of the Appalachian Mountains, approximately 65 miles southeast of Columbus. The area is rich in history and natural beauty, having been a major coal producing region in the late 1800's and early 1900's and being located within the Wayne National Forest. Small towns and villages flourished during these boom years as workers from Europe were recruited to work in the mines. As the mining industry mechanized, these workers were forced to leave the area in order to find new employment. Fishermen and hunters find a bounty of fish and game in the rolling wooded hills. Tecumseh Lake is located within the region and Burr Oak State Park is just 10 minutes to the south.

Land uses in the county consist of the following:

- ***Industrial and commercial areas*** -- The majority of the commercial areas can be found in and near the incorporated areas of the county, primarily in the larger cities and villages of Crooksville, New Lexington, and Somerset, as well as along US Route 22.
- ***Residential areas*** -- Located primarily in the south and eastern portions of the county and in the municipalities, primarily along the major roadways.

- **Farmland** – Agricultural land covers approximately 106,000 acres with a total of 740 individual farms. These agricultural areas are spread throughout the county; however, the majority are located in the eastern and southern portions.
- **Specialized land use designations** – Wayne National Forest, Perry State Forest, Buckeye Lake State Park, Tecumseh Lake Park, McGahan Monument, and General Philip Sheridan’s Monument and Home.

The residential sectors of the county have experienced a significant population increase. As indicated by Census data, the total population in 2000 was 34,078, which increased to 36,058 in 2010, an average increase of 198 people per year over the 10-year period. According to the Ohio Department of Development, this is a trend that is expected to continue, as can be seen in the figure to the right. The fringe areas of New Lexington are rapidly urbanizing. The populace is moving from the inner city to suburban areas, and subsequently into flood plains.



The present distribution of land use in Perry County will greatly influence development over the next 25 years. Capital improvements in roads, sewers, public buildings, and private uses in homes, shopping centers, and factories represent major fixed investments that are not easily changed.

According to the Economic Developer with the Perry County Chamber of Commerce, economic development is projected to take place countywide. Specific downtown targeted areas include the City of New Lexington, and the villages of Crooksville, Somersct, and Shawnee. Residential development is projected to occur in Northern Perry County near the Thornville area, as well as the New Lexington suburbs at the City Gate Residential Development. The Shawnee Historic District and individual historic sites located throughout the county have been slated for historic preservation and reconstruction.

Inventory Assets

Task C. Compile a detailed inventory of what can be damaged by a hazard event.

Name or Description of Asset	Sources of Information	Critical Facility	Vulnerable Populations	Economic Assets	Special Considerations	Historic/Other Considerations	Size of Building(sq ft) or Length (ft)	Replacement Value (\$)	Contents Value (\$)	Function Use or Value (\$)	Displacement Cost (\$ per day)	Occupancy of Capacity (#)
Residential		X	X	X				\$226,779,803.00				
Coming VFD	740-347-4511	X						\$150,081.00	\$28,975.00			
Crooksville FD	740-982-6801	X										
Hopewell TWP FD	740-659-2262/2541	X					3,485	\$289,750.00	\$811,300.00	\$37,088.00	\$104.31	28
Junction City VFD	740-987-3001	X					2,400	\$231,800.00	\$521,950.00			20
Monday Creek TWP VFD		X							See New Lexington			
New Lexington FD	740-342-4535/1292	X										
New Stratsville VFD	740-394-2400	X						\$33,611.00	\$359,290.00	\$34,770.00	\$100.00	16
Shawnee VFD	740-394-2900/2458	X										
Somerset Reading TWP FD	740-743-1655	X										
Thornville Thorn TWP VFD	740-246-6735	X					146,758	\$38,484,063.00	\$6,021,783.00	\$14,835,200.00	\$40,640.00	1,315
Crooksville SD		X							See Crooksville SD			
Crooksville ES	740-982-7010	X							See Crooksville SD			
Crooksville HS	740-982-7015	X							See Crooksville SD			
Crooksville MS	740-982-7010	X					51,000	\$6,458,406.00	\$381,023.00	\$289,750.00	\$790.00	396
Glenford ES	740-659-2209	X										
Junction City ES	740-987-3751	X					175,000	\$32,452,000.00	\$8,113,000.00	\$8,692,500.00	\$23,820.00	1,119
Southern Local SD		X							Southern Local SD			
Millicreek ES	740-394-2734	X							Southern Local SD			
Miller HS	740-394-2426	X							Southern Local SD			
Miller MS	740-394-1173	X							Southern Local SD			
New Lexington ES	740-342-3464	X										
New Lexington HS	740-342-3528	X										
New Lexington MS	740-342-4128	X										
Perry County Learning Center	740-342-2548	X										
Sheridan HS	740-743-1335	X					166,000	\$21,136,862.00	\$1,970,810.00	\$579,600.00	\$1,590.00	828
Somerset ES	740-743-1315	X					111,000	\$14,604,518.00	\$1,487,381.00	\$463,600.00	\$1,270.00	624
Somerset ES	740-743-1454	X					43,900	\$6,527,856.00	\$513,000.00	\$289,750.00	\$790.00	368
Thornville ES	740-249-6636	X					54,000	\$6,443,082.00	\$422,796.00	\$289,750.00	\$790.00	333
Somerset Post Office	740-743-1962	X			X				\$11,590.00			8
Shawnee Post Office	740-394-2800	X			X		6,400	\$231,800.00	\$92,720.00	\$99,674.00	\$270.00	2
Crooksville Post Office	740-982-3021/3328	X			X		8,370	\$1,135,820.00	\$243,390.00	\$324,520.00	\$890.00	10
New Lexington Post Office	740-342-1345/issame	X			X		1,200					11
Somerset Healthcare Center	740-743-2924	X					22,000	\$2,084,411.00	\$31,408.00	\$1,517,131.00	\$4,160.00	100
Sunbridge Care & Rehabilitation for New Lexington	740-342-5161	X					32,134	\$2,607,750.00	\$579,500.00	\$813,927.00	\$2,230.00	120
Roads		X					988,458	\$3,471,638,466.00				
Railroads		X					408,432	\$213,017,709.00				
Bridges		X					1,581	\$43,060,906.00				
Crooksville Runway		X					2,400	\$18,689,600.00				
Perry County Runway		X					3,500	\$24,339,000.00				

Name or Description of Asset	Sources of Information	Critical Facility	Vulnerable Populations	Economic Assets	Special Considerations	Historical/Other Considerations	Size of Building (sq ft) or Length (ft)	Replacement Value (\$)	Contents Value (\$)	Function Use or Value (\$)	Displacement Cost (\$ per day)	Occupancy of Capacity (#)
Cium Runway		X	X	X			1,800	\$11,126,400.00				
Roberts Field Runway		X					2,800	\$19,471,200.00				
New Lexington City Police	740-342-4111/1292	X					3,500	See New Lexington \$347,700.00	\$202,625.00	\$560.00		6
Crooksville Police Department	740-982-2688	X										
Somerset Village PD and Village	740-743-1803/1105	X										
Junction City Village Police	740-967-5511	X						\$127,490.00	\$57,950.00			7
Shawnee Village Police Department	740-394-2462	X							See Shawnee Village Hall			
Thornville Village Police	740-246-5511/5646	X							See Thornville Village			
Shawnee Village Hall		X						\$41,724.00	\$23,160.00	\$806,475.00	\$1,670.00	2
Shawnee Waste Water Treatment Plant		X						\$1,274,900.00		\$185,440.00	\$510.00	1
Shawnee Water Treatment Plant		X						\$17,385.00		\$12,695.00	\$30.00	3
Clayton Township	740-897-0521	X					1,704	\$52,039.00	\$3,477.00	\$195,361.00	\$540.00	5
Roseville Village Water Works	740-697-0322 or 7310	X					2,112	\$1,738,500.00	\$879,500.00	\$376,875.00	\$1,030.00	3
Roseville Village FD	740-687-7762	X					4,800	\$927,200.00	\$287,200.00	\$40,565.00	\$110.00	30
Roseville Post Office	740-687-7173	X			X		2,237		\$26,975.00			7
Crooksville Sanitation Department	740-982-8745	X						\$269,750.00	\$57,950.00			
Crooksville Water Department	740-982-2712 or 2976	X						\$3,245,200.00	\$1,176,385.00			
Crooksville Village	740-982-2656	X						\$1,158,000.00	\$173,650.00	\$2,897,500.00	\$7,940.00	25
Junction City Waste Water Treatment Plant	740-987-2600	X										
Junction City Water Works	740-987-4747	X										
Junction City Village	740-987-4121	X						\$2,883,957.00	\$35,349.00	\$347,700.00	\$950.00	1
New Straitsville Village	740-394-2425	X										
Satlick Township	740-384-2575	X						\$140,837.00	\$53,314.00			
Corning Village	740-347-4478	X					4,660	\$171,300.00	\$128,649.00	\$289,750.00	\$790.00	5
Pleasant Township	740-347-4803	X					1,296		\$23,180.00			34
Corning Post Office	740-347-4702	X			X							
Glenford FD	740-659-2221	X					10,240	\$231,800.00	\$579,500.00	\$527,393.00	\$1,440.00	40
Glenford Hopewell Township	740-659-2262	X						\$582,629.00	\$77,653.00			
Glenford Village	740-659-2009	X										
Somerset Waste Water Treatment Plant	740-743-2256	X										
Somerset Water Treatment Plant	740-743-1986	X										
Somerset-Reading Township	740-743-1655	X										
Village of Thornville Water Well and Tower		X					2,400	\$637,450.00	\$1,043,100.00	\$266,570.00	\$730.00	2
Village of Thornville Sewer Plant		X					1,440	\$278,160.00	\$869,250.00	\$278,160.00	\$760.00	2
Thornville Post Office	740-246-6155	X					1,200	\$52,155.00	\$23,180.00			14
Thornville Village	740-246-6020	X			X		3,600	\$347,700.00	\$579,500.00	\$365,085.00	\$1,000.00	6
New Lexington	740-342-1975 or 1633	X						\$25,845,700.00	\$17,385.00	\$4,056,500.00	\$11,110.00	90
New Lexington Water Works	740-342-2552 or 3263/1292	X							See New Lexington			
New Lexington Waste Water Treatment Plant	740-342-1443/1292	X							See New Lexington			
Perry County Sheriff	740-342-4123	X					5,000		\$1,159,000.00	\$1,043,100.00	\$2,660.00	13
Perry County Court House	740-342-2045	X					12,084	\$2,349,223.00	\$624,228.00			

Name or Description of Asset	Sources of Information	Critical Facility			Vulnerable Populations		Economic Assets		Special Considerations		Historical/Other Considerations		Size of Building(sq ft) or Length (ft)	Replacement Value (\$)	Contents Value (\$)	Function Use or Value (\$)	Displacement Cost (\$ per day)	Occupancy of Capacity (#)
		X	X	X	X	X	X	X	X	X	X							
Madison TWP		X	X	X	X	X	X	X	X	X		1,536	\$55,632.00	\$85,766.00	\$227,150.00	\$620.00	1	
Monday Creek TWP		X	X	X	X	X	X	X	X	X		5,800	\$521,550.00	\$92,720.00	\$162,260.00	\$440.00	4	

The attempt was made to collect data for every asset on the inventory list, but we were not successful in getting information on every asset.

Dam Failure



A dam is a barrier built across a waterway to control the flow or raise the level of water. A dam failure occurs when the barrier constructed across the waterway fails or otherwise does not obstruct or restrain the flow of water, which can rapidly result in a large area of completely inundated land.

There are about 80,000 dams in the United States, the majority of which are privately owned. State and local authorities, public utilities, and federal agencies own others. The benefits of dams are numerous: they provide water for drinking, navigation, and agricultural irrigation and save lives by preventing or reducing floods. Several methods of research identified dam failure as a hazard in Perry County. General information on dam failures was obtained from the following sources.

- Ohio Department of Natural Resources, Division of Water
- HAZUS Instruction and Technical Information
<http://www.fema.gov/hazus/>
- National Inventory of Dams

Dams are man-made structures designed to obstruct or restrain waters that may cause flooding downstream. These structures are generally made with concrete or earthen materials. The failure of these dams, although a man-made structure, may result in the natural event of flooding. According to the ODNR Division of Water, there are currently 23 dams in Perry County. Of those dams, 10 are Class I and 13 are

Class II. Dams are classified under two (2) conditions: height and storage (as illustrated in Table 1.1 and 1.2). The height of a dam is defined as the vertical dimension measured from the natural streambed at the downstream toe of a dam to the low point along the top of the dam. The storage volume of a dam is defined as the total volume impounded when the pool level is at the top of the

Table 1.1

Height of Dam	
Class I	Greater than 60 ft.
Class II	Greater than 40 ft.
Class III	Greater than 25 ft.
Class IV	Less than/equal to 25 ft.

Table 1.2

Storage Volume	
Class I	Greater than 5,000 ac.-ft.
Class II	Greater than 500 ac.-ft.
Class III	Greater than 50 ac.-ft.
Class IV	Less than/equal to 50 ac.-ft.

dam immediately before it is overtopped. According to the Ohio Department of Natural Resources, the projected damage from a dam failure coincides with the class of the dam. The potential downstream hazards are defined as the resultant downstream damage should the dam fail, including probable future development. Potential downstream hazards are broken into four (4) classes.

Table 1.3

POTENTIAL DOWNSTREAM HAZARDS	
Class I	Probable loss of life, structural damage to high value property (i.e. homes, industries, major public utilities).
Class II	Flood water damage to structures (no loss of life envisioned), damage to state and interstate highways, railroads, only access to residential areas.
Class III	Damage to low value non-residential structures, blocked roads, crops, and livestock.
Class IV	Losses restricted mainly to the dam.

Uncontrolled floodwaters are one of the most powerful and destructive forces in nature. Dams that are not designed to withstand major storms may be destroyed, increasing flood damage downstream. The potential for damage due to dam failures increases along with the number of residential and commercial developments downstream of dams. In many cases, existing dams will need to be modified to keep downstream areas safe from disasters resulting from catastrophic flooding.

Perry County contains dams that could present the possibility of significant flood damage to the residents and businesses located near or downstream from the dams. In many cases, the dams are less than five (5) miles away from the nearest community.

There are two (2) Class-I Dams located near the City of New Lexington, which is the most densely populated municipality in Perry County. A failure of either of those dams, the New Lexington Reservoir Dam or Rush Creek Structure No. 1-B, would have a significant impact on the entire county; there are also two (2) class II dams near the city.

There are three (3) types of failures of earthen dams: overtopping, seepage, and structural failure. Overtopping failures result from the erosive action of water on the embankment. Erosion is due to uncontrolled flow of water over, around, and adjacent to the dam. Earthen embankments are not designed to be overtopped and therefore are particularly susceptible to erosion. Once erosion has begun during overtopping, it is almost impossible to stop.

All earthen dams have seepage that results from water percolating slowly through the dam and its foundation. Seepage must, however, be controlled in both velocity and quantity. If uncontrolled, it can progressively erode soil from the embankment or its foundation, resulting in

the rapid failure of the dam. Erosion of the soil begins at the downstream side of the embankment, either in the dam proper or the foundation, progressively works toward the reservoir and eventually develops a “pipe” or direct conduit to the reservoir. Seepage can cause slope failure by creating high pressures in the soil pores or by saturating the slope.

Structural failures can occur in either the embankment or the appurtenances. Structural failure of a spillway, lake drain, or other appurtenance may lead to failure of the embankment. Cracking, settlement, and slides are the more common signs of structural failure of embankments. Large cracks in either an appurtenance or the embankment, major settlement, and major slides will require emergency measures to ensure safety, especially if the problems occur suddenly.

The three (3) types of failure previously described are often interrelated in a complex manner. For example, uncontrolled seepage may weaken the soil and lead to a structural failure. A structural failure may shorten the seepage path and lead to a piping failure. Surface erosion may result in structural failure, and so on. Minor defects such as cracks in the embankment may be the first visual sign of a major problem, which could lead to failure of the structure. Someone experienced in dam design and construction should evaluate the seriousness of all deficiencies as soon as they are detected.

The following table lists the dams in Perry County along with name, classification, and owner.

Table 1.4

Name	Class	Owner
Shelton Lake Dam	III	Martha & David Holtz
Glass Rock Lake Dam	I	Carneuse Lime and Stone
Perry County Recreation Association	II	Board of Perry County Commissioners
Rush Creek Structure No. III-A	I	Rush Creek Conservancy District
Somerset Reservoir Dam	I	Village of Somerset
Rush Creek Structure No. III-C	I	Rush Creek Conservancy District
New Lexington Reservoir Dam	I	City of New Lexington
Perry Reclamation Dam No. 3	I	ODNR, Division of Forestry
Rush Creek Structure No. I-B	I	City of New Lexington
Rush Creek Structure No. IV-C	I	Rush Creek Conservancy District
Allen No. 1 Dam II	II	Gary Allen Lilah J Allen Trust
San Toy Dam	I	Evelyn D. & Charles A. Lanphere
Altiers Lake Dam	I	Cherry Miesse

Glass Rock Tailing Dam	Abandoned	Oglebay Norton Industrial Sands, Inc.
Clouse Lake Dam	II	ODNR, Division of Wildlife
Rush Creek Structure No. III-B	II	Rush Creek Conservancy District
Rush Creek Structure No. III-E	II	Rush Creek Conservancy District
Rush Creek Structure No. IV-E	II	Rush Creek Conservancy District
Rush Creek Structure No. IV-A	II	Rush Creek Conservancy District
Essington Lake Dam	II	ODNR, Division of Forestry
Rush Creek Structure II	II	Rush Creek Conservancy District
Merkle Dam	II	Tri-State Reclamation
Sunnyhill Freshwater Reservoir Dam	II	Charles & Kathy Owen
Tecumseh Lake Dam	II	Village of Shawnee
New York Central Reservoir Dam	II	Keller Brothers Company

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Dam Failure

Structure Loss (Task A.1.)						Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)			
Residential	\$226,779,803.09	0.10	\$22,677,980.30		X	\$0.00			
Corning VFD	\$150,081.23	0.50	\$800.00		X	\$100.00			
Crooksville FD		1.00	\$0.00		X	\$0.00			
Hopewell TWP FD		0.50	\$0.00		X	\$0.00			
Junction City VFD	\$289,750.00	0.50	\$1,400.00		X	\$0.00			
Monday Creek TWP VFD	\$231,800.00	1.00	\$2,300.00		X	\$2,000.00			
New Lexington FD		0.50	\$0.00		X	\$0.00			
New Straitsville VFD		1.00	\$0.00		X	\$0.00			
Shawnee VFD	\$33,611.00	0.50	\$200.00		X	\$900.00			
Somerset Reading TWP FD		1.00	\$0.00		X	\$0.00			
Thornville Thorn TWP VFD		0.50	\$0.00		X	\$0.00			
Crooksville SD	\$38,464,063.32	0.50	\$192,300.00		X	\$15,100.00			
Crooksville ES		0.50	\$0.00		X	\$0.00			
Crooksville HS		0.50	\$0.00		X	\$0.00			
Crooksville MS		0.50	\$0.00		X	\$0.00			
Glenford ES	\$6,456,406.53	0.50	\$32,300.00		X	\$1,000.00			
Junction City ES		0.50	\$0.00		X	\$0.00			
Southern Local SD	\$32,452,000.00	0.50	\$162,300.00		X	\$20,300.00			
Millicreek ES		0.50	\$0.00		X	\$0.00			
Miller HS		0.50	\$0.00		X	\$0.00			
Miller MS		0.50	\$0.00		X	\$0.00			
New Lexington ES		0.50	\$0.00		X	\$0.00			
New Lexington HS		0.50	\$0.00		X	\$0.00			
New Lexington MS		0.50	\$0.00		X	\$0.00			

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Perry County Learning Center		X 0.50	\$0.00	
Sheridan HS	\$21,136,862.65	X 0.50	\$105,700.00	
Sheridan MS	\$14,604,518.43	X 0.50	\$73,000.00	
Somerset ES	\$6,527,856.56	X 1.00	\$65,300.00	
Thornville ES	\$6,443,082.67	X 0.50	\$32,200.00	
Somerset Post Office		X 0.50	\$0.00	
Shawnee Post Office	\$231,800.00	X 1.00	\$2,300.00	
Crooksville Post Office	\$1,135,820.00	X 0.50	\$5,700.00	
New Lexington Post Office		X 0.50	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	X 1.00	\$20,800.00	
Sunbridge Care & Rehabilitation for New Lexington				
Roads	\$2,607,750.00	X 0.50	\$13,000.00	
Railroads	\$3,471,638,466.00	X 0.00	\$0.00	
Bridges	\$213,017,709.60	X 0.00	\$0.00	
Crooksville Runway	\$43,060,906.50	X 0.00	\$0.00	
Perry County Runway	\$16,689,600.00	X 0.00	\$0.00	
Clum Runway	\$24,339,000.00	X 0.00	\$0.00	
Roberts Field Runway	\$11,126,400.00	X 0.00	\$0.00	
New Lexington City Police	\$19,471,200.00	X 0.00	\$0.00	
Crooksville Police Department		X 0.50	\$0.00	
Somerset Village PD and Village Hall		X 0.50	\$0.00	
Junction City Village Police	\$127,490.00	X 0.50	\$600.00	
Shawnee Village Police Department		X 1.00	\$0.00	
Thornville Village Police		X 0.50	\$0.00	
Shawnee Village Hall	\$41,724.00	X 1.00	\$400.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X 0.25	\$0.00		
\$1,970,610.61	X 0.25	\$4,900.00		
\$1,487,381.79	X 0.25	\$3,700.00		
\$513,000.06	X 0.50	\$2,600.00		
\$422,796.25	X 0.25	\$1,100.00		
\$11,590.00	X 0.25	\$0.00		
\$92,720.00	X 0.50	\$500.00		
\$243,390.00	X 0.25	\$600.00		
	X 0.25	\$0.00		
\$31,408.90	X 0.50	\$200.00		
\$579,500.00	X 0.25	\$1,400.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.00	\$0.00		
	X 0.25	\$0.00		
\$347,700.00	X 0.25	\$900.00		
	X 0.50	\$0.00		
\$57,950.00	X 0.25	\$100.00		
	X 0.50	\$0.00		
	X 0.25	\$0.00		
\$23,180.00	X 0.50	\$100.00		

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.00	\$12,700.00	
Shawnee Water Treatment Plant	\$17,385.00	1.00	\$200.00	
Clayton Township	\$52,039.10	0.50	\$300.00	
Roseville Village Water Works	\$1,738,500.00	0.50	\$8,700.00	
Roseville Village FD		0.50	\$0.00	
Roseville Post Office		0.50	\$0.00	
Crooksville Sanitation Department	\$289,750.00	0.50	\$1,400.00	
Crooksville Water Department	\$3,245,200.00	0.50	\$16,200.00	
Crooksville Village	\$1,159,000.00	0.50	\$5,800.00	
Junction City Waste Water Treatment Plant		0.50	\$0.00	
Junction City Water Works		0.50	\$0.00	
Junction City Village		0.50	\$0.00	
New Straitsville Village	\$2,883,957.09	1.00	\$28,800.00	
Saltlick Township		1.00	\$0.00	
Corning Village	\$140,837.04	0.50	\$700.00	
Pleasant Township	\$171,300.20	0.50	\$900.00	
Corning Post Office		0.50	\$0.00	
Glenford FD	\$231,800.00	0.50	\$1,200.00	
Glenford Hopewell Township	\$582,629.30	0.50	\$2,900.00	
Glenford Village		0.50	\$0.00	
Somerset Waste Water Treatment Plant		0.50	\$0.00	
Somerset Water Treatment Plant		0.50	\$0.00	
Somerset-Reading Township		0.50	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X			
	X		\$0.00	
	X		\$0.00	
\$3,477.00	X		\$0.00	
\$579,500.00	X		\$1,400.00	
\$927,200.00	X		\$2,300.00	
\$64,750.00	X		\$200.00	
\$57,950.00	X		\$100.00	
\$1,176,385.00	X		\$2,900.00	
\$173,850.00	X		\$400.00	
	X		\$0.00	
	X		\$0.00	
	X		\$0.00	
\$35,349.50	X		\$200.00	
	X		\$0.00	
\$53,314.00	X		\$100.00	
\$128,649.00	X		\$300.00	
\$23,180.00	X		\$100.00	
\$579,500.00	X		\$1,400.00	
\$77,653.00	X		\$200.00	
	X		\$0.00	
	X		\$0.00	
	X		\$0.00	
	X		\$0.00	

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Village of Thornville Water Well and Tower	\$637,450.00	X 0.50	\$3,200.00	=
Village of Thornville Sewer Plant	\$278,160.00	X 0.50	\$1,400.00	=
Thornville Post Office	\$52,155.00	X 0.50	\$300.00	=
Thornville Village	\$347,700.00	X 0.50	\$1,700.00	=
New Lexington	\$25,845,700.00	X 0.50	\$129,200.00	=
New Lexington Water Works		X 0.50	\$0.00	=
New Lexington Waste Water Treatment Plant		X 0.50	\$0.00	=
Perry County Sheriff		X 0.50	\$0.00	=
Perry County Court House	\$3,349,223.73	X 0.50	\$16,700.00	=
Madison TWP	\$55,632.00	X 0.50	\$300.00	=
Monday Creek TWP	\$521,550.00	X 0.50	\$2,600.00	=
Total Loss to Structure			\$23,623,780.30	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
\$1,043,100.00	X 0.25	\$2,600.00	=	
\$869,250.00	X 0.25	\$2,200.00	=	
\$23,180.00	X 0.25	\$100.00	=	
\$579,500.00	X 0.25	\$1,400.00	=	
\$17,385,000.00	X 0.25	\$43,500.00	=	
	X 0.25	\$0.00	=	
	X 0.25	\$0.00	=	
\$1,159,000.00	X 0.25	\$2,900.00	=	
\$624,228.13	X 0.25	\$1,600.00	=	
\$85,766.00	X 0.25	\$200.00	=	
\$92,720.00	X 0.25	\$200.00	=	
Total Loss to Contents			\$122,400.00	

Structure Use and Function Loss (Task A.3.) Dam Failure

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4) (\$)	=	Structure Use & Function Loss (\$)
Residential		X	2	+		X	0	=	\$0.00
Coming VFD		X	0	+		X	0	=	\$0.00
Crooksville FD		X	0	+		X	0	=	\$0.00
Hopewell TWP FD		X	0	+		X	0	=	\$0.00
Junction City VFD	\$104.31	X	0	+	\$104.31	X	0	=	\$0.00
Monday Creek TWP VFD		X	0	+		X	0	=	\$0.00
New Lexington FD		X	0	+		X	0	=	\$0.00
New Straitsville VFD		X	0	+		X	0	=	\$0.00
Shawnee VFD	\$92.72	X	0	+	\$92.72	X	0	=	\$0.00
Somerset Reading TWP FD		X	0	+		X	0	=	\$0.00
Thornville Thorn TWP VFD		X	0	+		X	0	=	\$0.00
Crooksville SD	\$40,646.13	X	1	+	\$40,646.13	X	0	=	\$40,650.00
Crooksville ES		X	1	+		X	0	=	\$0.00
Crooksville HS		X	1	+		X	0	=	\$0.00
Crooksville MS		X	1	+		X	0	=	\$0.00
Glenford ES	\$788.12	X	1	+	\$788.12	X	0	=	\$790.00
Junction City ES		X	1	+		X	0	=	\$0.00
Southern Local SD	\$23,817.45	X	1	+	\$23,817.45	X	0	=	\$23,820.00
Millcreek ES		X	1	+		X	0	=	\$0.00
Miller HS		X	1	+		X	0	=	\$0.00
Miller MS		X	1	+		X	0	=	\$0.00
New Lexington ES		X	1	+		X	0	=	\$0.00
New Lexington HS		X	1	+		X	0	=	\$0.00

Structure Loss + Content Loss + Function Loss (\$)
\$22,677,980.00
\$800.00
\$0.00
\$0.00
\$3,400.00
\$4,900.00
\$0.00
\$0.00
\$1,100.00
\$0.00
\$0.00
\$0.00
\$248,046.00
\$0.00
\$0.00
\$0.00
\$34,090.00
\$0.00
\$206,420.00
\$0.00
\$0.00
\$0.00
\$0.00

Structure Use and Function Loss (Task A.3.) Dam Failure

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		1		0	\$0.00	\$0.00
Perry County Learning Center		1		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00	\$112,190.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00	\$77,970.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00	\$68,690.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00	\$34,090.00
Somerset Post Office		0		0	\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$2,800.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$6,300.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	2	\$4,160.81	0	\$8,320.00	\$29,320.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	1	\$2,225.28	0	\$2,230.00	\$16,630.00
Roads		0		0	\$0.00	\$0.00
Railroads		0		0	\$0.00	\$0.00
Bridges		0		0	\$0.00	\$0.00
Crooksville Runway		0		0	\$0.00	\$0.00
Perry County Runway		0		0	\$0.00	\$0.00
Clum Runway		0		0	\$0.00	\$0.00
Roberts Field Runway		0		0	\$0.00	\$0.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$900.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Dam Failure

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$700.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	2	\$1,668.96	0	\$3,340.00	\$3,840.00
Shawnee Waste Water Treatment Plant	\$509.96	2	\$509.96	0	\$1,020.00	\$13,720.00
Shawnee Water Treatment Plant	\$336.11	2	\$336.11	0	\$670.00	\$870.00
Clayton Township	\$533.14	1	\$533.14	0	\$530.00	\$830.00
Roseville Village Water Works	\$1,031.51	1	\$1,031.51	0	\$1,030.00	\$11,130.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$2,300.00
Roseville Post Office		0		0	\$0.00	\$200.00
Crooksville Sanitation Department		1		0	\$0.00	\$1,500.00
Crooksville Water Department		1		0	\$0.00	\$19,100.00
Crooksville Village	\$7,939.15	1	\$7,939.15	0	\$7,940.00	\$14,140.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		1		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	2	\$950.38	0	\$1,900.00	\$30,900.00
Saitlick Township		2		0	\$0.00	\$0.00
Corning Village		1		0	\$0.00	\$800.00
Pleasant Township	\$788.12	1	\$788.12	0	\$790.00	\$1,990.00
Corning Post Office		0		0	\$0.00	\$100.00

Structure Use and Function Loss (Task A.3.) Dam Failure

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (# of days) (Step 4)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		0		0	\$0.00	\$2,600.00
Glenford Hopewell Township	\$1,448.75	1	\$1,448.75	0	\$1,450.00	\$4,550.00
Glenford Village		1		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset-Reading Township		1		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	1	\$730.17	0	\$730.00	\$6,530.00
Village of Thornville Sewer Plant	\$764.94	1	\$764.94	0	\$760.00	\$4,360.00
Thornville Post Office		0		0	\$0.00	\$400.00
Thornville Village	\$996.74	1	\$996.74	0	\$1,000.00	\$4,100.00
New Lexington	\$11,114.81	1	\$11,114.81	0	\$11,110.00	\$183,810.00
New Lexington Water Works		1		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	0	\$2,862.73	0	\$0.00	\$2,900.00
Perry County Court House		1		0	\$0.00	\$18,300.00
Madison TWP	\$625.86	1	\$625.86	0	\$630.00	\$1,130.00
Monday Creek TWP	\$440.82	1	\$440.82	0	\$440.00	\$3,240.00
Total Loss to Structure Use & Function					\$113,590.00	\$23,859,666.00

Drought



Several methods of research identified drought as a hazard in Perry County, including discussions with local representatives. Drought information was obtained from the following Internet sites.

- United States Department of Agriculture
<http://www.usda.gov>
- United States Geological Survey
<http://www.usgs.gov>
- National Oceanic Atmospheric Administration (NOAA)
<http://www4.ncdc.noaa.gov>

Drought is a relative term and is used in relation to who or what is being affected by the lack of moisture. Droughts can be categorized into three (3) types – each one affecting the other.

Agricultural Drought – Moisture deficiency seriously injurious to crops, livestock, or other agricultural commodities. Parched crops may wither and die. Pastures may become insufficient to support livestock. Effects of agricultural droughts are difficult to measure because there are many other variables that may impact production during the same growing season.

Hydrological Drought – Reduction in stream flow, lake and reservoir levels, depletion of soil moisture, and a lowering of the ground water table. Consequently, there is a decrease in groundwater discharge to streams and lakes. A prolonged hydrological drought will affect the water supply.

Mathematical Drought – Computation in which rainfall deficiencies are expressed. Extended, widespread droughts are fairly infrequent; however, brief local droughts are common and can be severe. The drought of 1930-36 was the most severe that has been recorded in Ohio. Precipitation totals for 1930 and 1934 were the smallest since the earliest statewide records began in 1883.

Perry County is susceptible to drought conditions during the summer and autumn months due to the significant lack of rainfall and/or other precipitation. These drought conditions often affect local farmers (both commercial farmers and personal farmers) and the local water supply (wells often run dry and rivers run low forcing public water supplies to decrease).

Perry County's agricultural sector, located primarily in the northern portion of the county, makes up approximately 44% of the total land cover and is extremely susceptible to drought. A drought event in this area could potentially cause significant economic losses. To see drought events that occurred in Perry County from 2005 to 2011, please reference *Volume 3 Historical Hazard Event Research 2005-2011*.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Drought

Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)
Residential	\$226,779,803.09	X	\$0.00
Corning VFD	\$150,081.23	X	\$0.00
Crooksville FD		X	\$0.00
Hopewell TWP FD		X	\$0.00
Junction City VFD	\$289,750.00	X	\$0.00
Monday Creek TWP VFD	\$231,800.00	X	\$0.00
New Lexington FD		X	\$0.00
New Straitsville VFD		X	\$0.00
Shawnee VFD	\$33,611.00	X	\$0.00
Somerset Reading TWP FD		X	\$0.00
Thornville Thorn TWP VFD		X	\$0.00
Crooksville SD	\$38,464,063.32	X	\$0.00
Crooksville ES		X	\$0.00
Crooksville HS		X	\$0.00
Crooksville MS		X	\$0.00
Glenford ES	\$6,456,406.00	X	\$0.00
Junction City ES		X	\$0.00
Southern Local SD	\$32,452,000.00	X	\$0.00
Millcreek ES		X	\$0.00
Miller HS		X	\$0.00
Miller MS		X	\$0.00
New Lexington ES		X	\$0.00
New Lexington HS		X	\$0.00
New Lexington MS		X	\$0.00

Structure Loss (Task A.1.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)
Residential	\$226,779,803.09	X	\$0.00
Corning VFD	\$150,081.23	X	\$0.00
Crooksville FD		X	\$0.00
Hopewell TWP FD		X	\$0.00
Junction City VFD	\$289,750.00	X	\$0.00
Monday Creek TWP VFD	\$231,800.00	X	\$0.00
New Lexington FD		X	\$0.00
New Straitsville VFD		X	\$0.00
Shawnee VFD	\$33,611.00	X	\$0.00
Somerset Reading TWP FD		X	\$0.00
Thornville Thorn TWP VFD		X	\$0.00
Crooksville SD	\$38,464,063.32	X	\$0.00
Crooksville ES		X	\$0.00
Crooksville HS		X	\$0.00
Crooksville MS		X	\$0.00
Glenford ES	\$6,456,406.00	X	\$0.00
Junction City ES		X	\$0.00
Southern Local SD	\$32,452,000.00	X	\$0.00
Millcreek ES		X	\$0.00
Miller HS		X	\$0.00
Miller MS		X	\$0.00
New Lexington ES		X	\$0.00
New Lexington HS		X	\$0.00
New Lexington MS		X	\$0.00

Contents of Loss (Task A.2.)			
Name/Description of Structure	Replacement Value of Contents (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Contents (\$)
Residential		X	\$0.00
Corning VFD	\$28,975.00	X	\$0.00
Crooksville FD		X	\$0.00
Hopewell TWP FD		X	\$0.00
Junction City VFD	\$811,300.00	X	\$0.00
Monday Creek TWP VFD	\$521,550.00	X	\$0.00
New Lexington FD		X	\$0.00
New Straitsville VFD		X	\$0.00
Shawnee VFD	\$359,290.00	X	\$0.00
Somerset Reading TWP FD		X	\$0.00
Thornville Thorn TWP VFD		X	\$0.00
Crooksville SD	\$6,021,783.85	X	\$0.00
Crooksville ES		X	\$0.00
Crooksville HS		X	\$0.00
Crooksville MS		X	\$0.00
Glenford ES	\$381,023.57	X	\$0.00
Junction City ES		X	\$0.00
Southern Local SD	\$8,113,000.00	X	\$0.00
Millcreek ES		X	\$0.00
Miller HS		X	\$0.00
Miller MS		X	\$0.00
New Lexington ES		X	\$0.00
New Lexington HS		X	\$0.00
New Lexington MS		X	\$0.00

Hazard: Drought

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Perry County Learning Center		X	0.00	\$0.00
Sheridan HS	\$21,136,862.65	X	0.00	\$0.00
Sheridan MS	\$14,604,518.44	X	0.00	\$0.00
Somerset ES	\$6,527,856.56	X	0.00	\$0.00
Thornville ES	\$6,443,082.67	X	0.00	\$0.00
Somerset Post Office		X	0.00	\$0.00
Shawnee Post Office	\$231,800.00	X	0.00	\$0.00
Crooksville Post Office	\$1,135,820.00	X	0.00	\$0.00
New Lexington Post Office		X	0.00	\$0.00
Somerset Healthcare Center	\$2,084,411.66	X	0.00	\$0.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,607,750.00	X	0.00	\$0.00
Roads	\$3,471,638,466.00	X	0.00	\$0.00
Railroads	\$213,017,709.60	X	0.00	\$0.00
Bridges	\$43,060,906.50	X	0.00	\$0.00
Crooksville Runway	\$16,689,600.00	X	0.00	\$0.00
Perry County Runway	\$24,339,000.00	X	0.00	\$0.00
Clum Runway	\$11,126,400.00	X	0.00	\$0.00
Roberts Field Runway	\$19,471,200.00	X	0.00	\$0.00
New Lexington City Police		X	0.00	\$0.00
Crooksville Police Department		X	0.00	\$0.00
Somerset Village PD and Village Hall		X	0.00	\$0.00
Junction City Village Police	\$127,490.00	X	0.00	\$0.00
Shawnee Village Police Department		X	0.00	\$0.00

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X	0.00	=	\$0.00
\$1,970,610.61	X	0.00	=	\$0.00
\$1,487,381.79	X	0.00	=	\$0.00
\$513,000.06	X	0.00	=	\$0.00
\$422,796.25	X	0.00	=	\$0.00
\$11,590.00	X	0.00	=	\$0.00
\$92,720.00	X	0.00	=	\$0.00
\$243,390.00	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
\$31,408.90	X	0.00	=	\$0.00
\$579,500.00	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
	X	0.00	=	\$0.00
\$347,700.00	X	0.00	=	\$0.00
\$57,950.00	X	0.00	=	\$0.00
	X	0.00	=	\$0.00

Hazard: Drought

Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Thornville Village Police		0.00	\$0.00	\$0.00
Shawnee Village Hall	\$41,724.00	0.00	\$0.00	\$0.00
Shawnee Waste Water Treatment Plant	\$1,274,900.00	0.00	\$0.00	\$0.00
Shawnee Water Treatment Plant	\$17,385.00	0.00	\$0.00	\$0.00
Clayton Township	\$52,039.10	0.00	\$0.00	\$0.00
Roseville Village Water Works	\$1,738,500.00	0.00	\$0.00	\$0.00
Roseville Village FD		0.00	\$0.00	\$0.00
Roseville Post Office		0.00	\$0.00	\$0.00
Crooksville Sanitation Department	\$289,750.00	0.00	\$0.00	\$0.00
Crooksville Water Department	\$3,245,200.00	0.00	\$0.00	\$0.00
Crooksville Village	\$1,159,000.00	0.00	\$0.00	\$0.00
Junction City Waste Water Treatment Plant		0.00	\$0.00	\$0.00
Junction City Water Works		0.00	\$0.00	\$0.00
Junction City Village		0.00	\$0.00	\$0.00
New Straitsville Village	\$2,883,957.09	0.00	\$0.00	\$0.00
Saltlick Township		0.00	\$0.00	\$0.00
Corning Village	\$140,837.04	0.00	\$0.00	\$0.00
Pleasant Township	\$171,300.20	0.00	\$0.00	\$0.00
Corning Post Office		0.00	\$0.00	\$0.00
Glenford FD	\$231,800.00	0.00	\$0.00	\$0.00
Glenford Hopewell Township	\$582,629.30	0.00	\$0.00	\$0.00
Glenford Village		0.00	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		0.00	\$0.00	\$0.00

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Thornville Village Police		0.00	\$0.00	\$0.00
Shawnee Village Hall	\$41,724.00	0.00	\$0.00	\$0.00
Shawnee Waste Water Treatment Plant	\$1,274,900.00	0.00	\$0.00	\$0.00
Shawnee Water Treatment Plant	\$17,385.00	0.00	\$0.00	\$0.00
Clayton Township	\$52,039.10	0.00	\$0.00	\$0.00
Roseville Village Water Works	\$1,738,500.00	0.00	\$0.00	\$0.00
Roseville Village FD		0.00	\$0.00	\$0.00
Roseville Post Office		0.00	\$0.00	\$0.00
Crooksville Sanitation Department	\$289,750.00	0.00	\$0.00	\$0.00
Crooksville Water Department	\$3,245,200.00	0.00	\$0.00	\$0.00
Crooksville Village	\$1,159,000.00	0.00	\$0.00	\$0.00
Junction City Waste Water Treatment Plant		0.00	\$0.00	\$0.00
Junction City Water Works		0.00	\$0.00	\$0.00
Junction City Village		0.00	\$0.00	\$0.00
New Straitsville Village	\$2,883,957.09	0.00	\$0.00	\$0.00
Saltlick Township		0.00	\$0.00	\$0.00
Corning Village	\$140,837.04	0.00	\$0.00	\$0.00
Pleasant Township	\$171,300.20	0.00	\$0.00	\$0.00
Corning Post Office		0.00	\$0.00	\$0.00
Glenford FD	\$231,800.00	0.00	\$0.00	\$0.00
Glenford Hopewell Township	\$582,629.30	0.00	\$0.00	\$0.00
Glenford Village		0.00	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		0.00	\$0.00	\$0.00

Hazard: Drought

Contents of Loss (Task A.2.)			
Name/Description of Structure	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)
Somerset Water Treatment Plant		X 0.00 =	\$0.00
Somerset-Reading Township		X 0.00 =	\$0.00
Village of Thornville Water Well and Tower	\$1,043,100.00	X 0.00 =	\$0.00
Village of Thornville Sewer Plant	\$889,250.00	X 0.00 =	\$0.00
Thornville Post Office	\$23,180.00	X 0.00 =	\$0.00
Thornville Village	\$579,500.00	X 0.00 =	\$0.00
New Lexington	\$17,385,000.00	X 0.00 =	\$0.00
New Lexington Water Works		X 0.00 =	\$0.00
New Lexington Waste Water Treatment Plant	\$1,159,000.00	X 0.00 =	\$0.00
Perry County Sheriff	\$624,228.13	X 0.00 =	\$0.00
Perry County Court House	\$85,766.00	X 0.00 =	\$0.00
Madison TWP	\$92,720.00	X 0.00 =	\$0.00
Monday Creek TWP			
Total Loss to Contents			\$0.00

Structure Loss (Task A.1.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)
Somerset Water Treatment Plant		X 0.00 =	\$0.00
Somerset-Reading Township		X 0.00 =	\$0.00
Village of Thornville Water Well and Tower	\$637,450.00	X 0.00 =	\$0.00
Village of Thornville Sewer Plant	\$278,160.00	X 0.00 =	\$0.00
Thornville Post Office	\$52,155.00	X 0.00 =	\$0.00
Thornville Village	\$347,700.00	X 0.00 =	\$0.00
New Lexington	\$25,845,700.00	X 0.00 =	\$0.00
New Lexington Water Works		X 0.00 =	\$0.00
New Lexington Waste Water Treatment Plant		X 0.00 =	\$0.00
Perry County Sheriff	\$3,349,223.73	X 0.00 =	\$0.00
Perry County Court House	\$55,632.00	X 0.00 =	\$0.00
Madison TWP	\$521,550.00	X 0.00 =	\$0.00
Monday Creek TWP			
Total Loss to Structure			\$0.00

Structure Use and Function Loss (Task A.3.) Drought										Structure Loss + Content Loss + Function Loss (\$)
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Displacement Time (Step 4) (\$)	Structure Use & Function Loss (\$)	Displacement Time (Step 4)	Displacement Time (Step 4) (\$)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Residential		2		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Corning VFD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Crooksville FD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Hopewell TWP FD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Junction City VFD	\$104.31	0	\$104.31	X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Monday Creek TWP VFD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
New Lexington FD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
New Straitsville VFD		0	\$92.72	X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Shawnee VFD	\$92.72	0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Somerset Reading TWP FD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Thornville Thorn TWP VFD		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Crooksville SD	\$40,646.13	0	\$40,646.13	X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Crooksville ES		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Crooksville HS		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Crooksville MS		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Glenford ES	\$788.12	0	\$788.12	X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Junction City ES		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Southern Local SD	\$23,817.45	0	\$23,817.45	X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Millicreek ES		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Miller HS		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
Miller MS		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
New Lexington ES		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00
New Lexington HS		0		X	0	\$0.00	0	\$0.00	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Drought							Structure Loss + Content Loss + Function Loss (\$)
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Displacement Time (Step 4) (\$)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		0		0		\$0.00	\$0.00
Perry County Learning Center		0		0		\$0.00	\$0.00
Sheridan HS	\$1,587.83	0	\$1,587.83	0		\$0.00	\$0.00
Sheridan MS	\$1,274.90	0	\$1,274.90	0		\$0.00	\$0.00
Somerset ES	\$788.12	0	\$788.12	0		\$0.00	\$0.00
Thornville ES	\$788.12	0	\$788.12	0		\$0.00	\$0.00
Somerset Post Office		0		0		\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0		\$0.00	\$0.00
Crooksville Post Office	\$788.12	0	\$788.12	0		\$0.00	\$0.00
New Lexington Post Office		0		0		\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	0	\$4,160.81	0		\$0.00	\$0.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	0	\$2,225.28	0		\$0.00	\$0.00
Roads		0		0		\$0.00	\$0.00
Railroads		0		0		\$0.00	\$0.00
Bridges		0		0		\$0.00	\$0.00
Crooksville Runway		0		0		\$0.00	\$0.00
Perry County Runway		0		0		\$0.00	\$0.00
Clum Runway		0		0		\$0.00	\$0.00
Roberts Field Runway		0		0		\$0.00	\$0.00
New Lexington City Police		0		0		\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0		\$0.00	\$0.00
Somerset Village PD and Village Hall		0		0		\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Drought									
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0		0	\$0.00	\$0.00	\$0.00
Shawnee Village Police Department		0		0		0	\$0.00	\$0.00	\$0.00
Thornville Village Police		0		0		0	\$0.00	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	0	\$1,668.96	0		0	\$0.00	\$0.00	\$0.00
Shawnee Waste Water Treatment Plant	\$509.96	0	\$509.96	0		0	\$0.00	\$0.00	\$0.00
Shawnee Water Treatment Plant	\$336.11	0	\$336.11	0		0	\$0.00	\$0.00	\$0.00
Clayton Township	\$533.14	0	\$533.14	0		0	\$0.00	\$0.00	\$0.00
Roseville Village Water Works	\$1,031.51	0	\$1,031.51	0		0	\$0.00	\$0.00	\$0.00
Roseville Village FD	\$115.90	0	\$115.90	0		0	\$0.00	\$0.00	\$0.00
Roseville Post Office		0		0		0	\$0.00	\$0.00	\$0.00
Crooksville Sanitation Department		0		0		0	\$0.00	\$0.00	\$0.00
Crooksville Water Department		0		0		0	\$0.00	\$0.00	\$0.00
Crooksville Village	\$7,939.15	0	\$7,939.15	0		0	\$0.00	\$0.00	\$0.00
Junction City Waste Water Treatment Plant		0		0		0	\$0.00	\$0.00	\$0.00
Junction City Water Works		0		0		0	\$0.00	\$0.00	\$0.00
Junction City Village		0		0		0	\$0.00	\$0.00	\$0.00
New Straitsville Village	\$950.38	0	\$950.38	0		0	\$0.00	\$0.00	\$0.00
Saltlick Township		0		0		0	\$0.00	\$0.00	\$0.00
Corning Village		0		0		0	\$0.00	\$0.00	\$0.00
Pleasant Township	\$788.12	0	\$788.12	0		0	\$0.00	\$0.00	\$0.00
Corning Post Office		0		0		0	\$0.00	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Drought										
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X (# of days)	Functional Downtime (Step 4)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4) (\$)	=	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		X	0	+		X	0	=	\$0.00	\$0.00
Glenford Hopewell Township	\$1,448.75	X	0	+	\$1,448.75	X	0	=	\$0.00	\$0.00
Glenford Village		X	0	+		X	0	=	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		X	0	+		X	0	=	\$0.00	\$0.00
Somerset Water Treatment Plant		X	0	+		X	0	=	\$0.00	\$0.00
Somerset-Reading Township		X	0	+		X	0	=	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	X	0	+	\$730.17	X	0	=	\$0.00	\$0.00
Village of Thornville Sewer Plant	\$764.94	X	0	+	\$764.94	X	0	=	\$0.00	\$0.00
Thornville Post Office		X	0	+		X	0	=	\$0.00	\$0.00
Thornville Village	\$996.74	X	0	+	\$996.74	X	0	=	\$0.00	\$0.00
New Lexington	\$11,114.81	X	0	+	\$11,114.81	X	0	=	\$0.00	\$0.00
New Lexington Water Works		X	0	+		X	0	=	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		X	0	+		X	0	=	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	X	0	+	\$2,862.73	X	0	=	\$0.00	\$0.00
Perry County Court House		X	0	+		X	0	=	\$0.00	\$0.00
Madison TWP	\$625.86	X	0	+	\$625.86	X	0	=	\$0.00	\$0.00
Monday Creek TWP	\$440.42	X	0	+	\$440.42	X	0	=	\$0.00	\$0.00
Total Loss to Structure Use & Function									\$0.00	\$0.00

Earthquake



An earthquake is a sudden motion or trembling that is caused by a release of strain accumulated within or along the edge of the Earth's tectonic plates. The severity of these effects is dependent on the amount of energy released from the fault or epicenter. The effects of an earthquake can be felt far beyond the site of its occurrence. They usually occur without warning and after just a few seconds can cause massive damage and extensive casualties. Common effects of earthquakes are ground motion and shaking, surface ruptures, and ground failure.

Earthquakes are one of nature's most damaging hazards and are more widespread than is often realized. The area of greatest seismic activity in the United States is along the Pacific Coast in the States of California and Alaska; however, as many as 40 states can be characterized as having moderate earthquake risk.

Although most people do not think of Ohio as an earthquake-prone state, at least 170 earthquakes with epicenters in Ohio have been felt since 1776. Several methods of research identified earthquakes as a hazard in Perry County, including reviews of the FEMA-issued *State and Local Mitigation Planning How-To Guide: Understanding Your Risks* and reviews of several Internet sites, which are listed below.

- Building Seismic Safety Council
<http://www.bssconline.org>
- Earthquake Hazard History by State
<http://www.neic.cr.usgs.gov/neis/states.states.html>
- Earthquake Map and Information
<http://www.abag.ca.gov/bayarea/eqmaps/eqmaps.html>
- FEMA HAZUS Homepage
<http://www.fema.gov/hazus/>
- GIS Data Available on Earthquakes
<http://geohazards.cr.usgs.gov/eq/html/genmap.html>
- USGS Earthquake Homepage
<http://quake.wr.usgs.gov/>

- USGS National and Regional Custom Earthquake Risk Maps
<http://eqint.cr.usgs.gov/eq/html/custom.shtml>
- Ohio Department of Natural Resources, Division of Geological Survey
<http://www.ohiodnr.com/OhioSeis/>

According to the USGS, Perry County is listed as an MMI IV with regard to earthquakes. Perry County's Peak Ground Acceleration (PGA) is 2.0-3.0 according to the USGS National Seismic Hazard Mapping Project. The map was dated November 1996 and is illustrated in Figure 1.1. Because of the area's ranking as an MMI IV, earthquake hazards must be taken into consideration.

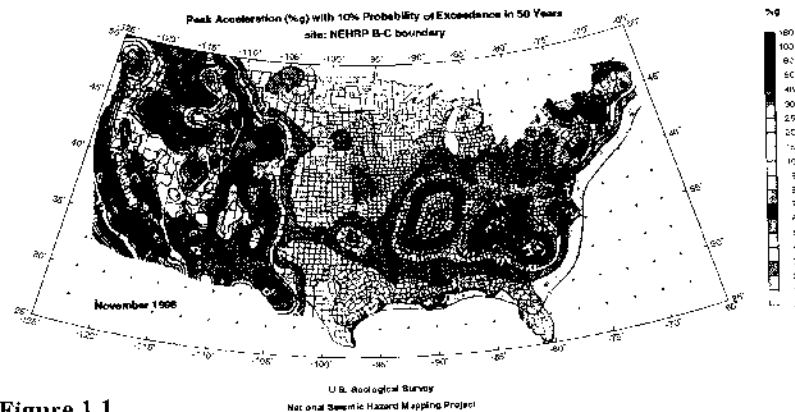


Figure 1.1

According to the FEMA *State and Local Mitigation Planning How-To Guide: Understanding Your Risks*, areas rated as an MMI IV (a PGA of 2.0-3.0 classifies an area as MMI IV) will not experience damage as a result of earthquakes. In these areas, perceived shaking is also light.

Earthquake activity in Perry County would probably stem from an event along the Starr Fault System. The Starr Fault is the closest known fault to Perry County and is located to the south in Hocking County. Also, Ohio is on the periphery of the New Madrid Seismic Zone, an area in Missouri and adjacent states. This seismic zone was the site of the largest earthquake sequence to occur in historical times in the continental United States.

According to an *Earthquake Epicenters In Ohio Map* prepared by the Ohio Department of Natural Resources, there have been two (2) earthquakes to occur in or near Perry County. A non-instrumental 3.0-3.9-

Table 1.1

I	Detected only by sensitive instruments	1.5
II	Felt by few persons at rest, especially on upper floors; distinctly suspended objects may swing	2
III	Felt noticeably indoors, but not always recognized as earthquake; standing auto's rock slightly; vibrations like passing truck	2.5
IV	Felt indoors by many, outdoors by few; at night some awaken; dishes, windows, doors disturbed; standing auto's rock noticeably	3
V	Felt by most people; some breakage of dishes, windows, and plaster; disturbance of tall objects	3.5
VI	Felt by all; many frightened and run outdoors; falling plaster and chimneys; damage small	4
VII	Everybody runs outdoors; damage to buildings varies depending on quality of construction; noticed by drivers of autos	4.5
VIII	Panel walls thrown out of frames; walls, monuments, chimneys fall and are ejected; drivers of autos disturbed	5
IX	Buildings shifted off foundations; cracked; thrown out of plumb; ground cracked; underground pipes broken	5.5
X	Most masonry and frame structures destroyed; ground cracked; rails bent, landslides	6
XI	Few structures remain standing; bridges destroyed; fissures in ground; pipes broken; roadsides, rails bent	6.5
XII	Damage total; waves seen on ground surface; lines of sight and level distorted; objects thrown up into air	7

magnitude earthquake occurred along the Morgan-Perry County line near Crooksville in 1952, and a non-instrumental 2.0-2.9 was recorded in 1953 in eastern Perry County. Though Perry County has endured limited earthquake activity, Fairfield County, which borders Perry to the west, has been the site of three (3) earthquakes ranging in magnitudes from 2.0 to 4.0.

Table 1.1 is the Modified Mercalli Scale, which is the general relationship between epicentral Modified Mercalli intensities and magnitude. Intensities can be highly variable depending on local geologic conditions. The Mercalli Scale is a semi-quantitative linear scale, whereas the Richter Scale is a quantitative logarithmic scale. The Richter Magnitude Scale was developed in 1935 by Charles F. Richter of the California Institute of Technology as a mathematical device to compare the size of earthquakes; it is illustrated in Table 1.2 below. The

Table 1.2

magnitude of an earthquake is determined from the logarithm of the amplitude of waves recorded between the various seismographs. Adjustments are located for the variation in the distance between the various seismographs and the epicenter of the earthquake. On the Richter Scale, magnitude is expressed in whole numbers and decimal fractions. For example, a magnitude 5.3 might be computed for a moderate earthquake, and a strong earthquake might be rated as magnitude 6.3. Because of the logarithmic basis of the scale, each whole number increase in magnitude represents a tenfold increase in measured amplitude.

Mild	0-2.9	I-III
Moderate	2.9-4.1	IV-V
Intermediate	4.1-5.4	VI-VII
Severe	5.4-7.3	VIII-X
Catastrophic	7.3 +	XI-XIII

The residual effects of an earthquake event can often be the most dangerous and damaging. An earthquake can set off a chain of events that can include various other hazards. Because of broken, defective electrical lines and gas mains, risks such as fires greatly increase immediately following an earthquake. In recent years, officials in most of the world's major cities have installed devices that automatically shut these services down if an earthquake strikes.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Earthquake

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
Residential	\$226,779,803.09	0.10	\$226,800.00		X	\$0.00		
Corning VFD	\$150,081.23	0.25	\$400.00		X	\$0.00		
Crooksville FD		0.25	\$0.00		X	\$0.00		
Hopewell TWP FD		0.25	\$0.00		X	\$0.00		
Junction City VFD	\$289,750.00	0.25	\$700.00		X	\$1,000.00		
Monday Creek TWP VFD	\$231,800.00	0.25	\$600.00		X	\$700.00		
New Lexington FD		0.25	\$0.00		X	\$0.00		
New Straitsville VFD		0.25	\$0.00		X	\$0.00		
Shawnee VFD	\$33,611.00	0.25	\$100.00		X	\$400.00		
Somerset Reading TWP FD		0.25	\$0.00		X	\$0.00		
Thornville Thorn TWP VFD		0.25	\$0.00		X	\$0.00		
Crooksville SD	\$38,464,063.32	0.25	\$96,200.00		X	\$7,500.00		
Crooksville ES		0.25	\$0.00		X	\$0.00		
Crooksville HS		0.25	\$0.00		X	\$0.00		
Crooksville MS		0.25	\$0.00		X	\$0.00		
Glenford ES	\$6,456,406.00	0.25	\$16,100.00		X	\$500.00		
Junction City ES		0.25	\$0.00		X	\$0.00		
Southern Local SD	\$32,452,000.00	0.25	\$81,100.00		X	\$10,100.00		
Millcreek ES		0.25	\$0.00		X	\$0.00		
Miller HS		0.25	\$0.00		X	\$0.00		
Miller MS		0.25	\$0.00		X	\$0.00		
New Lexington ES		0.25	\$0.00		X	\$0.00		
New Lexington HS		0.25	\$0.00		X	\$0.00		
New Lexington MS		0.25	\$0.00		X	\$0.00		

Hazard: Earthquake

Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Perry County Learning Center		X	\$0.00	\$0.00
Sheridan HS	\$21,136,862.65	X	\$52,800.00	\$2,500.00
Sheridan MS	\$14,604,518.44	X	\$36,500.00	\$1,900.00
Somerset ES	\$6,527,856.56	X	\$16,300.00	\$600.00
Thornville ES	\$6,443,082.67	X	\$16,100.00	\$500.00
Somerset Post Office		X	\$0.00	\$0.00
Shawnee Post Office	\$231,800.00	X	\$600.00	\$100.00
Crooksville Post Office	\$1,135,820.00	X	\$2,800.00	\$300.00
New Lexington Post Office		X	\$0.00	\$0.00
Somerset Healthcare Center	\$2,084,411.66	X	\$5,200.00	\$0.00
Sunbridge Care & Rehabilitation for New Lexington				
Roads	\$2,607,750.00	X	\$6,500.00	\$700.00
Railroads	\$3,471,638,466.00	X	\$6,943,300.00	\$0.00
Bridges	\$213,017,709.60	X	\$426,000.00	\$0.00
Crooksville Runway	\$43,060,906.50	X	\$86,100.00	\$0.00
Perry County Runway	\$16,689,600.00	X	\$33,400.00	\$0.00
Clum Runway	\$24,339,000.00	X	\$48,700.00	\$0.00
Roberts Field Runway	\$11,126,400.00	X	\$22,300.00	\$0.00
New Lexington City Police	\$19,471,200.00	X	\$38,900.00	\$0.00
Crooksville Police Department		X	\$0.00	\$400.00
Somerset Village PD and Village Hall		X	\$0.00	\$0.00
Junction City Village Police	\$127,490.00	X	\$300.00	\$100.00
Shawnee Village Police Department		X	\$0.00	\$0.00

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Perry County Learning Center		X	\$0.00	\$0.00
Sheridan HS	\$21,136,862.65	X	\$52,800.00	\$2,500.00
Sheridan MS	\$14,604,518.44	X	\$36,500.00	\$1,900.00
Somerset ES	\$6,527,856.56	X	\$16,300.00	\$600.00
Thornville ES	\$6,443,082.67	X	\$16,100.00	\$500.00
Somerset Post Office		X	\$0.00	\$0.00
Shawnee Post Office	\$231,800.00	X	\$600.00	\$100.00
Crooksville Post Office	\$1,135,820.00	X	\$2,800.00	\$300.00
New Lexington Post Office		X	\$0.00	\$0.00
Somerset Healthcare Center	\$2,084,411.66	X	\$5,200.00	\$0.00
Sunbridge Care & Rehabilitation for New Lexington				
Roads	\$2,607,750.00	X	\$6,500.00	\$700.00
Railroads	\$3,471,638,466.00	X	\$6,943,300.00	\$0.00
Bridges	\$213,017,709.60	X	\$426,000.00	\$0.00
Crooksville Runway	\$43,060,906.50	X	\$86,100.00	\$0.00
Perry County Runway	\$16,689,600.00	X	\$33,400.00	\$0.00
Clum Runway	\$24,339,000.00	X	\$48,700.00	\$0.00
Roberts Field Runway	\$11,126,400.00	X	\$22,300.00	\$0.00
New Lexington City Police	\$19,471,200.00	X	\$38,900.00	\$0.00
Crooksville Police Department		X	\$0.00	\$400.00
Somerset Village PD and Village Hall		X	\$0.00	\$0.00
Junction City Village Police	\$127,490.00	X	\$300.00	\$100.00
Shawnee Village Police Department		X	\$0.00	\$0.00

Hazard: Earthquake

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Thornville Village Police		X 0.25 =	\$0.00	
Shawnee Village Hall	\$41,724.00	X 0.25 =	\$100.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	X 0.25 =	\$3,200.00	
Shawnee Water Treatment Plant	\$17,385.00	X 0.25 =	\$0.00	
Clayton Township	\$52,039.10	X 0.25 =	\$100.00	
Roseville Village Water Works	\$1,738,500.00	X 0.25 =	\$4,300.00	
Roseville Village FD		X 0.25 =	\$0.00	
Roseville Post Office		X 0.25 =	\$0.00	
Crooksville Sanitation Department	\$289,750.00	X 0.25 =	\$700.00	
Crooksville Water Department	\$3,245,200.00	X 0.25 =	\$8,100.00	
Crooksville Village	\$1,159,000.00	X 0.25 =	\$2,900.00	
Junction City Waste Water Treatment Plant		X 0.25 =	\$0.00	
Junction City Water Works		X 0.25 =	\$0.00	
Junction City Village		X 0.25 =	\$0.00	
New Straitsville Village	\$2,883,957.09	X 0.25 =	\$7,200.00	
Saitlick Township		X 0.25 =	\$0.00	
Corning Village	\$140,837.04	X 0.25 =	\$400.00	
Pleasant Township	\$171,300.20	X 0.25 =	\$400.00	
Corning Post Office		X 0.25 =	\$0.00	
Glenford FD	\$231,800.00	X 0.25 =	\$600.00	
Glenford Hopewell Township	\$582,629.30	X 0.25 =	\$1,500.00	
Glenford Village		X 0.25 =	\$0.00	
Somerset Waste Water Treatment Plant		X 0.25 =	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X 0.13 =	\$0.00		
\$23,180.00	X 0.13 =	\$0.00		
	X 0.13 =	\$0.00		
\$3,477.00	X 0.13 =	\$0.00		
\$579,500.00	X 0.13 =	\$700.00		
\$927,200.00	X 0.13 =	\$1,200.00		
\$28,975.00	X 0.13 =	\$0.00		
\$57,950.00	X 0.13 =	\$100.00		
\$1,176,385.00	X 0.13 =	\$1,500.00		
\$173,850.00	X 0.13 =	\$200.00		
	X 0.13 =	\$0.00		
	X 0.13 =	\$0.00		
	X 0.13 =	\$0.00		
\$35,349.50	X 0.13 =	\$0.00		
	X 0.13 =	\$0.00		
\$53,314.00	X 0.13 =	\$100.00		
\$128,649.00	X 0.13 =	\$200.00		
\$23,180.00	X 0.13 =	\$0.00		
\$579,500.00	X 0.13 =	\$700.00		
\$77,653.00	X 0.13 =	\$100.00		
	X 0.13 =	\$0.00		
	X 0.13 =	\$0.00		

Hazard: Earthquake

Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Somerset Water Treatment Plant		0.25	\$0.00	\$0.00
Somerset-Reading Township		0.25	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$637,450.00	0.25	\$1,600.00	\$1,300.00
Village of Thornville Sewer Plant	\$278,160.00	0.25	\$700.00	\$1,100.00
Thornville Post Office	\$52,155.00	0.25	\$100.00	\$0.00
Thornville Village	\$347,700.00	0.25	\$900.00	\$700.00
New Lexington	\$25,845,700.00	0.25	\$64,600.00	\$21,700.00
New Lexington Water Works		0.25	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		0.25	\$0.00	\$0.00
Perry County Sheriff		0.25	\$0.00	\$1,400.00
Perry County Court House	\$3,349,223.73	0.25	\$8,400.00	\$800.00
Madison TWP	\$55,632.00	0.25	\$100.00	\$100.00
Monday Creek TWP	\$521,550.00	0.25	\$1,300.00	\$100.00
Total Loss to Structure			\$8,265,000.00	\$59,300.00

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Somerset Water Treatment Plant		0.25	\$0.00	\$0.00
Somerset-Reading Township		0.25	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$637,450.00	0.25	\$1,600.00	\$1,300.00
Village of Thornville Sewer Plant	\$278,160.00	0.25	\$700.00	\$1,100.00
Thornville Post Office	\$52,155.00	0.25	\$100.00	\$0.00
Thornville Village	\$347,700.00	0.25	\$900.00	\$700.00
New Lexington	\$25,845,700.00	0.25	\$64,600.00	\$21,700.00
New Lexington Water Works		0.25	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		0.25	\$0.00	\$0.00
Perry County Sheriff		0.25	\$0.00	\$1,400.00
Perry County Court House	\$3,349,223.73	0.25	\$8,400.00	\$800.00
Madison TWP	\$55,632.00	0.25	\$100.00	\$100.00
Monday Creek TWP	\$521,550.00	0.25	\$1,300.00	\$100.00
Total Loss to Structure			\$8,265,000.00	\$59,300.00

Structure Use and Function Loss (Task A.3.) Earthquake

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Residential		2		0	\$0.00	\$226,800.00
Corning VFD		0		0	\$0.00	\$400.00
Crooksville FD		0		0	\$0.00	\$0.00
Hopewell TWP FD		0		0	\$0.00	\$0.00
Junction City VFD	\$104.31	0	\$104.31	0	\$0.00	\$1,700.00
Monday Creek TWP VFD		0		0	\$0.00	\$1,300.00
New Lexington FD		0		0	\$0.00	\$0.00
New Straitsville VFD		0		0	\$0.00	\$0.00
Shawnee VFD	\$92.72	0	\$92.72	0	\$0.00	\$500.00
Somerset Reading TWP FD		0		0	\$0.00	\$0.00
Thornville Thorn TWP VFD		0		0	\$0.00	\$0.00
Crooksville SD	\$40,646.13	2	\$40,646.13	0	\$81,290.00	\$184,990.00
Crooksville ES		2		0	\$0.00	\$0.00
Crooksville HS		2		0	\$0.00	\$0.00
Crooksville MS		2		0	\$0.00	\$0.00
Glenford ES	\$788.12	2	\$788.12	0	\$1,580.00	\$18,180.00
Junction City ES		2		0	\$0.00	\$0.00
Southern Local SD	\$23,817.45	2	\$23,817.45	0	\$47,630.00	\$138,830.00
Millcreek ES		2		0	\$0.00	\$0.00
Miller HS		2		0	\$0.00	\$0.00
Miller MS		2		0	\$0.00	\$0.00
New Lexington ES		2		0	\$0.00	\$0.00
New Lexington HS		2		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Earthquake

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		2		0	\$0.00	\$0.00
Perry County Learning Center		2		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	2	\$1,587.83	0	\$3,180.00	\$58,480.00
Sheridan MS	\$1,274.90	2	\$1,274.90	0	\$2,550.00	\$40,950.00
Somerset ES	\$788.12	2	\$788.12	0	\$1,580.00	\$18,480.00
Thornville ES	\$788.12	2	\$788.12	0	\$1,580.00	\$18,180.00
Somerset Post Office		0		0	\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$700.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$3,100.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	2	\$4,160.81	0	\$8,320.00	\$13,520.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	2	\$2,225.28	0	\$4,450.00	\$11,650.00
Roads		0		0	\$0.00	\$6,943,300.00
Railroads		0		0	\$0.00	\$426,000.00
Bridges		2		0	\$0.00	\$86,100.00
Crooksville Runway		2		0	\$0.00	\$33,400.00
Perry County Runway		2		0	\$0.00	\$48,700.00
Clum Runway		2		0	\$0.00	\$22,300.00
Roberts Field Runway		2		0	\$0.00	\$38,900.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$400.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00

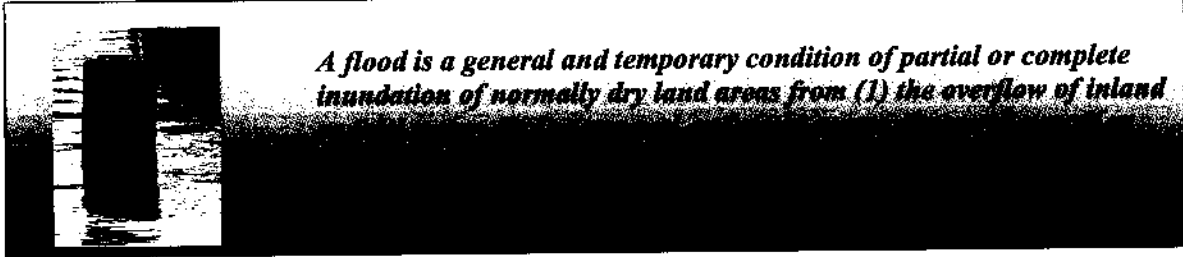
Structure Use and Function Loss (Task A.3.) Earthquake

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$400.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	2	\$1,668.96	0	\$3,340.00	\$3,440.00
Shawnee Waste Water Treatment Plant	\$509.96	2	\$509.96	0	\$1,020.00	\$4,220.00
Shawnee Water Treatment Plant	\$336.11	2	\$336.11	0	\$670.00	\$670.00
Clayton Township	\$533.14	2	\$533.14	0	\$1,070.00	\$1,170.00
Roseville Village Water Works	\$1,031.51	2	\$1,031.51	0	\$2,060.00	\$5,000.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$1,200.00
Roseville Post Office		0		0	\$0.00	\$0.00
Crooksville Sanitation Department		2		0	\$0.00	\$800.00
Crooksville Water Department		2		0	\$0.00	\$9,600.00
Crooksville Village	\$7,939.15	2	\$7,939.15	0	\$15,880.00	\$18,980.00
Junction City Waste Water Treatment Plant		2		0	\$0.00	\$0.00
Junction City Water Works		2		0	\$0.00	\$0.00
Junction City Village		2		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	2	\$950.38	0	\$1,900.00	\$9,100.00
Saltlick Township		2		0	\$0.00	\$0.00
Corning Village		2		0	\$0.00	\$500.00
Pleasant Township	\$788.12	2	\$788.12	0	\$1,580.00	\$2,180.00
Corning Post Office		0		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Earthquake

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		0		0	\$0.00	\$1,300.00
Glenford Hopewell Township	\$1,448.75	2	\$1,448.75	0	\$2,900.00	\$4,500.00
Glenford Village		2		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		2		0	\$0.00	\$0.00
Somerset Water Treatment Plant		2		0	\$0.00	\$0.00
Somerset-Reading Township		2		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	2	\$730.17	0	\$1,460.00	\$4,360.00
Village of Thornville Sewer Plant	\$764.94	2	\$764.94	0	\$1,530.00	\$3,330.00
Thornville Post Office		0		0	\$0.00	\$100.00
Thornville Village	\$996.74	2	\$996.74	0	\$1,990.00	\$3,590.00
New Lexington	\$11,114.81	2	\$11,114.81	0	\$22,230.00	\$108,530.00
New Lexington Water Works		2		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		2		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	0	\$2,862.73	0	\$0.00	\$1,400.00
Perry County Court House		2		0	\$0.00	\$9,200.00
Madison TWP	\$625.86	2	\$625.86	0	\$1,250.00	\$1,450.00
Monday Creek TWP	\$440.42	2	\$440.42	0	\$880.00	\$2,280.00
Total Loss to Structure Use & Function					\$211,920.00	\$8,534,160.00

Flooding



Floods are the most prominent hazard in the United States. Each year, floods cause more property damage than any other type of natural disaster and cause an average of 150 fatalities. The history of flooding within Perry County indicates that flooding can occur at any time of the year. However, nearly all major floods are produced by winter and spring rains falling on already saturated, snow covered, or frozen soil. Winter and spring rains, although of lesser intensity than summer and fall rains, are usually of longer duration and result in greater peak flows in the stream.

Flooding was identified as a hazard in Perry County through reviews of newspaper coverage, reviews of past disaster declarations, discussions with local officials, and public input. The following Internet sites were also used to gain information on flooding.

- Association of Dam Safety Officials
<http://crunch.tec.army.mil/nid/webpages/nid.cfm>
- Federal Emergency Management Agency
<http://www.fema.gov/maps/>
- Flash-Flood Safety Rules
<http://www.nws.noaa.gov/om/nh-ffld.htm>
- Flood Risk and Map Information
<http://www.fema.gov/nfip/fmapinfo.htm>
- Flood Safety Rules
<http://www.new.noaa.gov/om/nh-flood.html>
- Floodplain Management Association
<http://www.foodplain.org>

- General Flood Information
http://www.nfpa.org/Education/Consumers_and_Families/Fire_Safety_Information/Talking_About_Disaster/Flood_and_Flash_Flood/flood_and_flash_flood.html
- Guide to Flood Maps on the Web
<http://www.fema.gov/nfip/readmap>
- Latest Hydrological Information (Flooding, Droughts, Snow Conditions, and Water Supply)
<http://www.nws.noaa.gov/oh/hic/current/>
- Real-Time Hydrologic Data Page
<http://water.usgs.gov/realtime.html>
- Regional River Forecast Centers
http://www.srh.noaa.gov/abrfc.rfc_wfo.html
- State Floodplain Managers
<http://www.floods.org/stcoor.htm>
- United States Army Corps of Engineers (USACOE)
<http://www.wsace.army.mil/inet/functions/cw>
- USGS Streamflow Data Historical
<http://water.usgs.gov/usa/nwis/sw>

RIVERINE FLOODING

Flooding continues to be a frequent and damaging natural disaster in Perry County as a result of several small creeks and streams. These tributaries include Rush Creek, which passes near Junction City and New Lexington; Moxahala Creek, which passes near to Roseville, Crooksville, and Shawnee; Buckeye Fork of the Muskingum River, which passes near Roseville and Crooksville; and Little Monday Creek, which passes near the City of New Lexington.

Riverine flooding is very likely to continue striking these same areas. Some areas near the path of Sunday Creek, especially Corning Village, are particularly low-lying areas. Local officials should consider strengthening and/or developing building or development regulations in these areas.

There are three (3) listed "repetitive loss" properties in Perry County. The following table lists the type of structure, location, and the number of losses. This information is legally privileged and confidential. Its use is protected under the privacy act of 1974, 5 U.S.C. section

552(a). Use of the information provided should be restricted to applicable routine use. As can be seen, Corning appears to be particularly susceptible to flooding.

Table 1.1

REPETITIVE LOSS DETAILS		
Type of Structure	Location	Number of Losses
Single Family	Corning Village	2
Single Family	Corning Village	2
Single Family	Corning Village	2

FLASH FLOODING

Because the majority of Perry County is of gently rolling topography, flooding is usually a widespread event; small creeks and streams over fill their banks and flood large areas of agricultural fields and rural roads. However, if rain falls with great intensity high creek levels and a rapid water flow can cause flash flooding in rural areas. Flooding that occurs in or near urban areas is often attributed to failing storm sewers and poor drainage systems. Excessive amounts of paved areas or other surfaces in communities upstream can increase the amount and rate of water runoff. Development affects the runoff of storm water and snowmelt. When rain falls in an undeveloped area, as much as 90 percent of it will infiltrate the ground; however, in a highly developed area, as much as 90 percent of it will run off.

Unlike riverine flooding, which can often be predicted by monitoring stream levels. Flash flooding, though, is a quick-onset event and is difficult against which to mitigate.

Hazards associated with flooding can be divided into **primary effects** that occur due to contact with water; **secondary effects** that occur because of the flooding, such as disruption of services and health impacts such as famine and disease; and **tertiary effects**, such as changes in the position of river channels.

To see flooding events that occurred from 2005 to 2011, please reference *Volume 3, Historical Hazard Event Research 2005-2011*

Primary Effects

- With higher velocities, streams are able to transport larger particles as suspended load. Such large particles include not only rocks and sediment,

but, during a flood, these particles could include such large objects as automobiles, houses, and bridges.

- Massive amounts of erosion can be accomplished by floodwaters. Such erosion can undermine bridge structures, levees, and buildings, causing their collapse.
- Water entering human built structures causes water damage. Even with minor flooding of homes, furniture is ruined, floors and walls are damaged, and anything that comes in contact with the water is likely to be damaged or lost. Flooding of automobiles usually results in damage that cannot easily be repaired.
- The higher velocity of floodwaters allows the water to carry more sediment as suspended load. When floodwaters retreat, velocity is generally much lower and sediment is deposited. After the retreat of the floodwaters, everything is usually covered with a thick layer of stream-deposited mud, including the interior of buildings.
- Flooding of farmland usually results in crop loss. Livestock, pets, and other animals are often carried away and drown.
- Humans that get caught in the high velocity floodwaters often drown.
- Floodwaters can concentrate garbage, debris, and toxic pollutants that can cause the secondary effects of health hazards.

Secondary Effects

- Drinking water supplies may become polluted, especially if sewerage treatment plants are flooded.
- Gas and electrical service may be disrupted.
- Transportation systems may be disrupted.

Tertiary Effects or Cascading Effects

- Location of river channels may change as the result of flooding: new channels develop, leaving the old channels dry.

- Sediment deposited by flooding may destroy farmland (although silt deposited by floodwaters could also help to increase agricultural productivity).
- Jobs may be lost due to the disruption of services, destruction of business, etc. (although jobs may be gained in the construction industry to help rebuild or repair flood damage).
- Destruction of wildlife habitat.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Flooding

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Residential	\$226,779,803.09	0.50	\$1,133,900.00			\$0.00	
Corning VFD	\$150,081.23	1.00	\$1,500.00	\$28,975.00	0.50	\$100.00	
Crooksville FD		1.50	\$0.00		0.75	\$0.00	
Hopewell TWP FD		1.50	\$0.00		0.75	\$0.00	
Junction City VFD	\$289,750.00	1.00	\$2,900.00	\$811,300.00	0.50	\$4,100.00	
Monday Creek TWP VFD	\$231,800.00	1.50	\$3,500.00	\$521,550.00	0.75	\$3,900.00	
New Lexington FD		1.50	\$0.00		0.75	\$0.00	
New Straitsville VFD		1.50	\$0.00		0.75	\$0.00	
Shawnee VFD	\$33,611.00	1.00	\$300.00	\$359,290.00	0.50	\$1,800.00	
Somerset Reading TWP FD		1.50	\$0.00		0.75	\$0.00	
Thornville Thorn TWP VFD		1.50	\$0.00		0.75	\$0.00	
Crooksville SD	\$38,464,063.32	1.50	\$577,000.00	\$6,021,783.85	0.75	\$45,200.00	
Crooksville ES		1.50	\$0.00		0.75	\$0.00	
Crooksville HS		1.50	\$0.00		0.75	\$0.00	
Crooksville MS		1.50	\$0.00		0.75	\$0.00	
Glenford ES	\$6,456,406.53	1.50	\$96,800.00	\$381,023.57	0.75	\$2,900.00	
Junction City ES		1.50	\$0.00		0.75	\$0.00	
Southern Local SD	\$32,452,000.00	1.00	\$324,500.00	\$8,113,000.00	0.50	\$40,600.00	
Millcreek ES		1.00	\$0.00		0.50	\$0.00	
Miller HS		1.00	\$0.00		0.50	\$0.00	
Miller MS		1.00	\$0.00		0.50	\$0.00	
New Lexington ES		1.50	\$0.00		0.75	\$0.00	
New Lexington HS		1.50	\$0.00		0.75	\$0.00	
New Lexington MS		1.50	\$0.00		0.75	\$0.00	

Hazard: Flooding

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Perry County Learning Center		1.50	\$0.00	
Sheridan HS	\$21,136,862.65	1.50	\$317,100.00	
Sheridan MS	\$14,604,518.44	1.50	\$219,100.00	
Somerset ES	\$6,527,856.56	1.50	\$97,900.00	
Thornville ES	\$6,443,082.67	1.50	\$96,600.00	
Somerset Post Office		1.50	\$0.00	
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	
Crooksville Post Office	\$1,135,820.00	1.50	\$17,000.00	
New Lexington Post Office		1.50	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	1.50	\$31,300.00	
Sunbridge Care & Rehabilitation for New Lexington		1.50		
Roads	\$2,607,750.00		\$39,100.00	
Railroads	\$3,471,638,466.00	0.10	\$3,471,600.00	
Bridges	\$213,017,709.60	0.10	\$213,000.00	
Crooksville Runway	\$43,060,906.50	0.00	\$0.00	
Perry County Runway	\$16,689,600.00	0.10	\$16,700.00	
Cium Runway	\$24,339,000.00	0.10	\$24,300.00	
Roberts Field Runway	\$11,126,400.00	0.10	\$11,100.00	
New Lexington City Police	\$19,471,200.00	0.10	\$19,500.00	
Crooksville Police Department		1.50	\$0.00	
Somerset Village PD and Village Hall		1.50	\$0.00	
Junction City Village Police	\$127,490.00	1.50	\$1,900.00	
Shawnee Village Police Department		1.50	\$0.00	
Thornville Village Police		1.50	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X			
	X			
\$1,970,610.61	X	\$14,800.00		
\$1,487,381.79	X	\$11,200.00		
\$513,000.60	X	\$3,800.00		
\$422,796.25	X	\$3,200.00		
\$11,590.00	X	\$100.00		
\$92,720.00	X	\$500.00		
\$243,390.00	X	\$1,800.00		
	X			
\$31,408.90	X	\$200.00		
\$579,500.00	X	\$4,300.00		
	X			
	X			
	X			
	X			
	X			
	X			
	X			
	X			
	X			
	X			
\$347,700.00	X	\$2,600.00		
	X			
\$57,950.00	X	\$400.00		
	X			
	X			

Hazard: Flooding

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Shawnee Village Hall	\$41,724.00	1.50	\$600.00	=
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.50	\$19,100.00	=
Shawnee Water Treatment Plant	\$17,385.00	1.50	\$300.00	=
Clayton Township	\$52,039.10	1.50	\$800.00	=
Roseville Village Water Works	\$1,738,500.00	1.50	\$26,100.00	=
Roseville Village FD		1.50	\$0.00	=
Roseville Post Office		1.50	\$0.00	=
Crooksville Sanitation Department	\$289,750.00	1.50	\$4,300.00	=
Crooksville Water Department	\$3,245,200.00	1.50	\$48,700.00	=
Crooksville Village	\$1,159,000.00	1.50	\$17,400.00	=
Junction City Waste Water Treatment Plant		1.50	\$0.00	=
Junction City Water Works		1.50	\$0.00	=
Junction City Village		1.50	\$0.00	=
New Straitsville Village	\$2,883,957.09	1.50	\$43,300.00	=
Saltlick Township		1.50	\$0.00	=
Corning Village	\$140,837.04	1.00	\$1,400.00	=
Pleasant Township	\$171,300.20	1.00	\$1,700.00	=
Corning Post Office		1.00	\$0.00	=
Glenford FD	\$231,800.00	1.50	\$3,500.00	=
Glenford Hopewell Township	\$582,629.00	1.50	\$8,700.00	=
Glenford Village		1.50	\$0.00	=
Somerset Waste Water Treatment Plant		1.50	\$0.00	=
Somerset Water Treatment Plant		1.50	\$0.00	=

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
\$23,180.00	0.75	\$200.00	=	
	0.75	\$0.00	=	
\$3,477.00	0.75	\$0.00	=	
\$579,500.00	0.75	\$4,300.00	=	
\$927,200.00	0.75	\$7,000.00	=	
\$28,975.00	0.75	\$200.00	=	
\$57,950.00	0.75	\$400.00	=	
\$1,176,385.00	0.75	\$8,800.00	=	
\$173,850.00	0.75	\$1,300.00	=	
	0.75	\$0.00	=	
	0.75	\$0.00	=	
\$35,349.50	0.75	\$300.00	=	
	0.75	\$0.00	=	
\$53,314.00	0.50	\$300.00	=	
\$128,649.00	0.50	\$600.00	=	
\$23,180.00	0.50	\$100.00	=	
\$579,500.00	0.75	\$4,300.00	=	
\$77,653.00	0.75	\$600.00	=	
	0.75	\$0.00	=	
	0.75	\$0.00	=	
	0.75	\$0.00	=	

Hazard: Flooding

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Somerset-Reading Township		1.50	\$0.00	=
Village of Thornville Water Well and Tower	\$637,450.00	1.50	\$9,600.00	=
Village of Thornville Sewer Plant	\$278,160.00	1.50	\$4,200.00	=
Thornville Post Office	\$52,155.00	1.50	\$800.00	=
Thornville Village	\$347,700.00	1.50	\$5,200.00	=
New Lexington	\$25,845,700.00	1.50	\$387,700.00	=
New Lexington Water Works		1.50	\$0.00	=
New Lexington Waste Water Treatment Plant		1.50	\$0.00	=
Perry County Sheriff		1.50	\$0.00	=
Perry County Court House	\$3,349,223.73	1.50	\$50,200.00	=
Madison TWP	\$55,632.00	1.50	\$800.00	=
Monday Creek TWP	\$521,550.00	1.50	\$7,800.00	=
Total Loss to Structure			\$7,361,100.00	=

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	0.75		=	\$0.00
\$1,043,100.00	0.75		=	\$7,800.00
\$869,250.00	0.75		=	\$6,500.00
\$23,180.00	0.75		=	\$200.00
\$579,500.00	0.75		=	\$4,300.00
\$17,385,000.00	0.75		=	\$130,400.00
	0.75		=	\$0.00
	0.75		=	\$0.00
\$1,159,000.00	0.75		=	\$8,700.00
\$624,228.13	0.75		=	\$4,700.00
\$85,766.00	0.75		=	\$600.00
\$92,720.00	0.75		=	\$700.00
Total Loss to Contents			=	\$333,800.00

Structure Use and Function Loss (Task A.3.) Flooding									
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4) (\$)	=	Structure Use & Function Loss (\$)
Residential		X	2	+		X	0	=	\$0.00
Corning VFD		X	0	+		X	0	=	\$0.00
Crooksville FD		X	0	+		X	0	=	\$0.00
Hopewell TWP FD		X	0	+		X	0	=	\$0.00
Junction City VFD	\$104.31	X	0	+	\$104.31	X	0	=	\$0.00
Monday Creek TWP VFD		X	0	+		X	0	=	\$0.00
New Lexington FD		X	0	+		X	0	=	\$0.00
New Straitsville VFD		X	0	+		X	0	=	\$0.00
Shawnee VFD	\$92.72	X	0	+	\$92.72	X	0	=	\$0.00
Somerset Reading TWP FD		X	0	+		X	0	=	\$0.00
Thornville Thorn TWP VFD		X	0	+		X	0	=	\$0.00
Crooksville SD	\$40,646.13	X	2	+	\$40,646.13	X	0	=	\$81,290.00
Crooksville ES		X	2	+		X	0	=	\$0.00
Crooksville HS		X	2	+		X	0	=	\$0.00
Crooksville MS		X	2	+		X	0	=	\$0.00
Glenford ES	\$788.12	X	2	+	\$788.12	X	0	=	\$1,580.00
Junction City ES		X	2	+		X	0	=	\$0.00
Southern Local SD	\$23,817.45	X	1	+	\$23,817.45	X	0	=	\$23,820.00
Millcreek ES		X	1	+		X	0	=	\$0.00
Miller HS		X	1	+		X	0	=	\$0.00
Miller MS		X	1	+		X	0	=	\$0.00
New Lexington ES		X	2	+		X	0	=	\$0.00
New Lexington HS		X	2	+		X	0	=	\$0.00

Structure Loss + Content Loss + Function Loss (\$)
\$1,133,900.00
\$1,600.00
\$0.00
\$0.00
\$7,000.00
\$7,400.00
\$0.00
\$0.00
\$0.00
\$2,100.00
\$0.00
\$0.00
\$703,490.00
\$0.00
\$0.00
\$0.00
\$101,280.00
\$0.00
\$388,920.00
\$0.00
\$0.00
\$0.00
\$0.00

Structure Use and Function Loss (Task A.3.) Flooding

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		2		0		0	\$0.00	\$0.00
Perry County Learning Center		2		0		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	2	\$1,587.83	0	\$1,587.83	0	\$3,180.00	\$335,080.00
Sheridan MS	\$1,274.90	2	\$1,274.90	0	\$1,274.90	0	\$2,550.00	\$232,850.00
Somerset ES	\$788.12	2	\$788.12	0	\$788.12	0	\$1,580.00	\$103,280.00
Thornville ES	\$788.12	2	\$788.12	0	\$788.12	0	\$1,580.00	\$101,380.00
Somerset Post Office		0		0		0	\$0.00	\$100.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$278.16	0	\$0.00	\$2,800.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$892.43	0	\$0.00	\$18,800.00
New Lexington Post Office		0		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	2	\$4,160.81	0	\$4,160.81	0	\$8,320.00	\$39,820.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	2	\$2,225.28	0	\$2,225.28	0	\$4,450.00	\$47,850.00
Roads		1		0		0	\$0.00	\$3,471,600.00
Railroads		1		0		0	\$0.00	\$213,000.00
Bridges		0		0		0	\$0.00	\$0.00
Crooksville Runway		1		0		0	\$0.00	\$16,700.00
Perry County Runway		1		0		0	\$0.00	\$24,300.00
Clum Runway		1		0		0	\$0.00	\$11,100.00
Roberts Field Runway		1		0		0	\$0.00	\$19,500.00
New Lexington City Police		0		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$556.32	0	\$0.00	\$2,600.00
Somerset Village PD and Village Hall		0		0		0	\$0.00	\$0.00

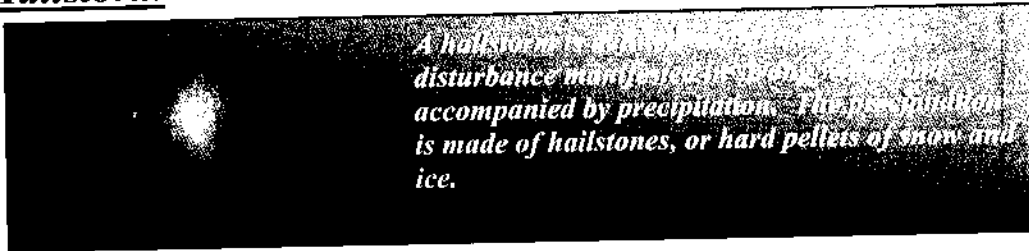
Structure Use and Function Loss (Task A.3.) Flooding

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$2,300.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	2	\$1,668.96	0	\$3,340.00	\$4,140.00
Shawnee Waste Water Treatment Plant	\$509.96	1	\$509.96	0	\$510.00	\$19,610.00
Shawnee Water Treatment Plant	\$336.11	1	\$336.11	0	\$340.00	\$640.00
Clayton Township	\$533.14	2	\$533.14	0	\$1,070.00	\$1,870.00
Roseville Village Water Works	\$1,031.51	1	\$1,031.51	0	\$1,030.00	\$31,430.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$7,000.00
Roseville Post Office		0		0	\$0.00	\$200.00
Crooksville Sanitation Department		1		0	\$0.00	\$4,700.00
Crooksville Water Department		1		0	\$0.00	\$57,500.00
Crooksville Village	\$7,939.15	2	\$7,939.15	0	\$15,880.00	\$34,580.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		2		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	2	\$950.38	0	\$1,900.00	\$45,500.00
Saltlick Township		2		0	\$0.00	\$0.00
Corning Village		1		0	\$0.00	\$1,700.00
Pleasant Township	\$788.12	1	\$788.12	0	\$790.00	\$3,090.00
Corning Post Office		0		0	\$0.00	\$100.00

Structure Use and Function Loss (Task A.3.) Flooding

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4)	=	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		X	2	+		X	0	=	\$0.00	\$7,800.00
Glenford Hopewell Township	\$1,448.75	X	2	+	\$1,448.75	X	0	=	\$2,900.00	\$12,200.00
Glenford Village		X	2	+		X	0	=	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		X	1	+		X	0	=	\$0.00	\$0.00
Somerset Water Treatment Plant		X	1	+		X	0	=	\$0.00	\$0.00
Somerset-Reading Township		X	2	+		X	0	=	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	X	2	+	\$730.17	X	0	=	\$1,460.00	\$18,860.00
Village of Thornville Sewer Plant	\$764.94	X	1	+	\$764.94	X	0	=	\$760.00	\$11,460.00
Thornville Post Office		X	0	+		X	0	=	\$0.00	\$1,000.00
Thornville Village	\$996.74	X	2	+	\$996.74	X	0	=	\$1,990.00	\$11,490.00
New Lexington	\$11,114.81	X	1	+	\$11,114.81	X	0	=	\$11,110.00	\$529,210.00
New Lexington Water Works		X	1	+		X	0	=	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		X	1	+		X	0	=	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	X	0	+	\$2,862.73	X	0	=	\$0.00	\$8,700.00
Perry County Court House		X	1	+		X	0	=	\$0.00	\$54,900.00
Madison TWP	\$625.86	X	2	+	\$625.86	X	0	=	\$1,250.00	\$2,650.00
Monday Creek TWP	\$440.42	X	2	+	\$440.42	X	0	=	\$880.00	\$9,380.00
Total Loss to Structure Use & Function									\$173,560.00	\$7,868,460.00

Hailstorm



Numerous methods of research identified hailstorms as a natural hazard in Perry County, including discussions with local representatives and Internet searches at ESRI, National Weather Service, and National Oceanic Atmospheric Administration (NOAA) sites.

A hot summer afternoon thunderstorm is capable of transforming the landscape from verdant green to icy white with the onset of a hailstorm. The first sign that hail may be arriving is a growing whitening among the shafts of rain. Soon, a rattling sound is heard as hailstones strike roofs and pavements and the ground whitens, becoming slippery as hailstones cover grass and roadways. A hailstorm can be the most damaging part of a thunderstorm, inflicting injury to both man and beast and destroying crops, gardens, and property like a giant pummeling machine.

Hailstone damage is often confined to automobiles and crops; however, structural damage is a possibility in the form of broken windows and damaged gutters or HVAC systems (depending on the size of the structure). Historical records indicate that hailstorms are a countywide hazard and can occur at any time in any location. Hail is often associated with severe thunderstorms and/or severe winter storms, both of which have been identified as natural-occurring hazards in Perry County.

To see any events of hailstorms that occurred in the years 2005 to 2011, please refer to *Volume 3 Historical Hazard Event Research 2005-2011*.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Hailstorm

Contents of Loss (Task A.2.)			
Replacement Value of Contents (Step 3) (\$)	X	Percent Damage (step 4) (%)	Loss to Contents (\$)
	X	0.05	\$0.00
	X	0.10	\$0.00
\$28,975.00	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00
\$811,300.00	X	0.10	\$800.00
\$521,550.00	X	0.10	\$500.00
	X	0.10	\$0.00
	X	0.10	\$0.00
\$359,290.00	X	0.10	\$400.00
	X	0.10	\$0.00
	X	0.10	\$0.00
\$6,021,783.85	X	0.10	\$6,000.00
	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00
\$381,023.57	X	0.10	\$400.00
	X	0.10	\$0.00
\$8,113,000.00	X	0.10	\$8,100.00
	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00
	X	0.10	\$0.00

Structure Loss (Task A.1.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	X	Loss to Structure (\$)
Residential	\$226,779,803.09	X	\$226,800.00
Coming VFD	\$150,081.23	X	\$300.00
Crooksville FD		X	\$0.00
Hopewell TWP FD		X	\$0.00
Junction City VFD	\$289,750.00	X	\$600.00
Monday Creek TWP VFD	\$231,800.00	X	\$500.00
New Lexington FD		X	\$0.00
New Straitsville VFD		X	\$0.00
Shawnee VFD	\$33,611.00	X	\$100.00
Somerset Reading TWP FD		X	\$0.00
Thornville Thorn TWP VFD		X	\$0.00
Crooksville SD	\$38,464,063.32	X	\$76,900.00
Crooksville ES		X	\$0.00
Crooksville HS		X	\$0.00
Crooksville MS		X	\$0.00
Glenford ES	\$6,456,406.00	X	\$12,900.00
Junction City ES		X	\$0.00
Southern Local SD	\$32,452,000.00	X	\$64,900.00
Millicreek ES		X	\$0.00
Miller HS		X	\$0.00
Miller MS		X	\$0.00
New Lexington ES		X	\$0.00
New Lexington HS		X	\$0.00
New Lexington MS		X	\$0.00

Hazard: Hailstorm

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)		Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
Perry County Learning Center		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Sheridan HS	\$21,136,862.65	X 0.20	\$42,300.00	=	\$1,970,610.61	X 0.10	\$2,000.00	=	
Sheridan MS	\$14,604,518.44	X 0.20	\$29,200.00	=	\$1,487,381.79	X 0.10	\$1,500.00	=	
Somerset ES	\$6,527,856.56	X 0.20	\$13,100.00	=	\$513,000.06	X 0.10	\$500.00	=	
Thornville ES	\$6,443,082.67	X 0.20	\$12,900.00	=	\$422,796.25	X 0.10	\$400.00	=	
Somerset Post Office		X 0.20	\$0.00	=	\$11,590.00	X 0.10	\$0.00	=	
Shawnee Post Office	\$231,800.00	X 0.20	\$500.00	=	\$92,720.00	X 0.10	\$100.00	=	
Crookville Post Office	\$1,135,820.00	X 0.20	\$2,300.00	=	\$243,390.00	X 0.10	\$200.00	=	
New Lexington Post Office		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Somerset Healthcare Center	\$2,084,411.66	X 0.20	\$4,200.00	=	\$31,408.90	X 0.10	\$0.00	=	
Sunbridge Care & Rehabilitation for New Lexington					\$579,500.00	X 0.10	\$600.00	=	
Roads	\$3,471,638,466.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Railroads	\$213,017,709.60	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Bridges	\$43,060,906.50	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Crooksville Runway	\$16,689,600.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Perry County Runway	\$24,339,000.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Clum Runway	\$11,126,400.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Roberts Field Runway	\$19,471,200.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
New Lexington City Police		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Crooksville Police Department		X 0.20	\$0.00	=	\$347,700.00	X 0.10	\$300.00	=	
Somerset Village PD and Village Hall		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Junction City Village Police	\$127,490.00	X 0.20	\$300.00	=	\$57,950.00	X 0.10	\$100.00	=	
Shawnee Village Police Department		X 0.20	\$0.00	=		X 0.10	\$0.00	=	

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)		Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
Perry County Learning Center		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Sheridan HS	\$21,136,862.65	X 0.20	\$42,300.00	=	\$1,970,610.61	X 0.10	\$2,000.00	=	
Sheridan MS	\$14,604,518.44	X 0.20	\$29,200.00	=	\$1,487,381.79	X 0.10	\$1,500.00	=	
Somerset ES	\$6,527,856.56	X 0.20	\$13,100.00	=	\$513,000.06	X 0.10	\$500.00	=	
Thornville ES	\$6,443,082.67	X 0.20	\$12,900.00	=	\$422,796.25	X 0.10	\$400.00	=	
Somerset Post Office		X 0.20	\$0.00	=	\$11,590.00	X 0.10	\$0.00	=	
Shawnee Post Office	\$231,800.00	X 0.20	\$500.00	=	\$92,720.00	X 0.10	\$100.00	=	
Crookville Post Office	\$1,135,820.00	X 0.20	\$2,300.00	=	\$243,390.00	X 0.10	\$200.00	=	
New Lexington Post Office		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Somerset Healthcare Center	\$2,084,411.66	X 0.20	\$4,200.00	=	\$31,408.90	X 0.10	\$0.00	=	
Sunbridge Care & Rehabilitation for New Lexington					\$579,500.00	X 0.10	\$600.00	=	
Roads	\$3,471,638,466.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Railroads	\$213,017,709.60	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Bridges	\$43,060,906.50	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Crooksville Runway	\$16,689,600.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Perry County Runway	\$24,339,000.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Clum Runway	\$11,126,400.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
Roberts Field Runway	\$19,471,200.00	X 0.00	\$0.00	=		X 0.00	\$0.00	=	
New Lexington City Police		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Crooksville Police Department		X 0.20	\$0.00	=	\$347,700.00	X 0.10	\$300.00	=	
Somerset Village PD and Village Hall		X 0.20	\$0.00	=		X 0.10	\$0.00	=	
Junction City Village Police	\$127,490.00	X 0.20	\$300.00	=	\$57,950.00	X 0.10	\$100.00	=	
Shawnee Village Police Department		X 0.20	\$0.00	=		X 0.10	\$0.00	=	

Hazard: Hailstorm

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X		=	
	X		=	\$0.00
\$23,180.00	X		=	\$0.00
	X		=	\$0.00
	X		=	\$0.00
	X		=	\$0.00
\$3,477.00	X		=	\$0.00
\$579,500.00	X		=	\$600.00
\$927,200.00	X		=	\$900.00
\$28,975.00	X		=	\$0.00
\$57,950.00	X		=	\$100.00
\$1,176,385.00	X		=	\$1,200.00
\$173,850.00	X		=	\$200.00
	X		=	\$0.00
	X		=	\$0.00
	X		=	\$0.00
\$35,349.50	X		=	\$0.00
	X		=	\$0.00
\$53,314.00	X		=	\$100.00
\$128,649.00	X		=	\$100.00
\$23,180.00	X		=	\$0.00
\$579,500.00	X		=	\$600.00
\$77,653.00	X		=	\$100.00
	X		=	\$0.00
	X		=	\$0.00

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Thornville Village Police		X 0.20	\$0.00	
Shawnee Village Hall	\$41,724.00	X 0.20	\$100.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	X 0.20	\$2,500.00	
Shawnee Water Treatment Plant	\$17,385.00	X 0.20	\$0.00	
Clayton Township	\$52,039.10	X 0.20	\$100.00	
Roseville Village Water Works	\$1,738,500.00	X 0.20	\$3,500.00	
Roseville Village FD		X 0.20	\$0.00	
Roseville Post Office		X 0.20	\$0.00	
Crooksville Sanitation Department	\$289,750.00	X 0.20	\$600.00	
Crooksville Water Department	\$3,245,200.00	X 0.20	\$6,500.00	
Crooksville Village	\$1,159,000.00	X 0.20	\$2,300.00	
Junction City Waste Water Treatment Plant		X 0.20	\$0.00	
Junction City Water Works		X 0.20	\$0.00	
Junction City Village		X 0.20	\$0.00	
New Straitsville Village	\$2,883,957.09	X 0.20	\$5,800.00	
Saltlick Township		X 0.20	\$0.00	
Corning Village	\$140,837.04	X 0.20	\$300.00	
Pleasant Township	\$171,300.20	X 0.20	\$300.00	
Corning Post Office		X 0.20	\$0.00	
Glenford FD	\$231,800.00	X 0.20	\$500.00	
Glenford Hopewell Township	\$582,629.30	X 0.20	\$1,200.00	
Glenford Village		X 0.20	\$0.00	
Somerset Waste Water Treatment Plant		X 0.20	\$0.00	

Hazard: Hailstorm

Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Somerset Water Treatment Plant		0.20 =	\$0.00	\$0.00
Somerset-Reading Township		0.20 =	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$637,450.00	0.20 =	\$1,300.00	\$1,000.00
Village of Thornville Sewer Plant	\$278,160.00	0.20 =	\$600.00	\$900.00
Thornville Post Office	\$52,155.00	0.20 =	\$100.00	\$0.00
Thornville Village	\$347,700.00	0.20 =	\$700.00	\$600.00
New Lexington	\$25,845,700.00	0.20 =	\$51,700.00	\$17,400.00
New Lexington Water Works		0.20 =	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		0.20 =	\$0.00	\$0.00
Perry County Sheriff		0.20 =	\$0.00	\$1,200.00
Perry County Court House	\$3,349,223.73	0.20 =	\$6,700.00	\$600.00
Madison TWP	\$55,632.00	0.20 =	\$100.00	\$100.00
Monday Creek TWP	\$521,550.00	0.20 =	\$1,000.00	\$100.00
Total Loss to Structure			\$578,900.00	\$47,700.00

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Somerset Water Treatment Plant		0.20 =	\$0.00	\$0.00
Somerset-Reading Township		0.20 =	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$637,450.00	0.20 =	\$1,300.00	\$1,000.00
Village of Thornville Sewer Plant	\$278,160.00	0.20 =	\$600.00	\$900.00
Thornville Post Office	\$52,155.00	0.20 =	\$100.00	\$0.00
Thornville Village	\$347,700.00	0.20 =	\$700.00	\$600.00
New Lexington	\$25,845,700.00	0.20 =	\$51,700.00	\$17,400.00
New Lexington Water Works		0.20 =	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		0.20 =	\$0.00	\$0.00
Perry County Sheriff		0.20 =	\$0.00	\$1,200.00
Perry County Court House	\$3,349,223.73	0.20 =	\$6,700.00	\$600.00
Madison TWP	\$55,632.00	0.20 =	\$100.00	\$100.00
Monday Creek TWP	\$521,550.00	0.20 =	\$1,000.00	\$100.00
Total Loss to Structure			\$578,900.00	\$47,700.00

Structure Use and Function Loss (Task A.3.) Hallstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Residential		2		0	\$0.00	\$226,800.00
Corning VFD		0		0	\$0.00	\$300.00
Crooksville FD		0		0	\$0.00	\$0.00
Hopewell TWP FD		0		0	\$0.00	\$0.00
Junction City VFD	\$104.31	0	\$104.31	0	\$0.00	\$1,400.00
Monday Creek TWP VFD		0		0	\$0.00	\$1,000.00
New Lexington FD		0		0	\$0.00	\$0.00
New Stratsville VFD		0		0	\$0.00	\$0.00
Shawnee VFD	\$92.72	0	\$92.72	0	\$0.00	\$500.00
Somerset Reading TWP FD		0		0	\$0.00	\$0.00
Thornville Thorn TWP VFD		0		0	\$0.00	\$0.00
Crooksville SD	\$40,646.13	1	\$40,646.13	0	\$40,650.00	\$123,550.00
Crooksville ES		1		0	\$0.00	\$0.00
Crooksville HS		1		0	\$0.00	\$0.00
Crooksville MS		1		0	\$0.00	\$0.00
Glenford ES	\$788.12	1	\$788.12	0	\$790.00	\$14,090.00
Junction City ES		1		0	\$0.00	\$0.00
Southern Local SD	\$23,817.45	1	\$23,817.45	0	\$23,820.00	\$96,820.00
Millcreek ES		1		0	\$0.00	\$0.00
Miller HS		1		0	\$0.00	\$0.00
Miller MS		1		0	\$0.00	\$0.00
New Lexington ES		1		0	\$0.00	\$0.00
New Lexington HS		1		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Hallsform							
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4) (\$)	Structure Use & Function Loss (\$)	Structure Use & Function Loss (\$)	Structure Use & Function Loss (\$)
New Lexington MS		1		0	\$0.00		\$0.00
Perry County Learning Center		1		0	\$0.00		\$0.00
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00		\$45,890.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00		\$32,290.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00		\$14,390.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00		\$14,090.00
Somerset Post Office		0		0	\$0.00		\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00		\$600.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00		\$2,500.00
New Lexington Post Office		0		0	\$0.00		\$0.00
Somerset Healthcare Center	\$4,160.81	1	\$4,160.81	0	\$4,160.00		\$8,360.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	1	\$2,225.28	0	\$2,230.00		\$8,030.00
Roads		0		0	\$0.00		\$0.00
Railroads		0		0	\$0.00		\$0.00
Bridges		0		0	\$0.00		\$0.00
Crooksville Runway		0		0	\$0.00		\$0.00
Perry County Runway		0		0	\$0.00		\$0.00
Clum Runway		0		0	\$0.00		\$0.00
Roberts Field Runway		0		0	\$0.00		\$0.00
New Lexington City Police		0		0	\$0.00		\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00		\$300.00
Somerset Village PD and Village Hall		0		0	\$0.00		\$0.00

Structure Loss + Content Loss + Function Loss (\$)
\$0.00
\$0.00
\$45,890.00
\$32,290.00
\$14,390.00
\$14,090.00
\$0.00
\$600.00
\$2,500.00
\$0.00
\$8,360.00
\$8,030.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$300.00
\$0.00

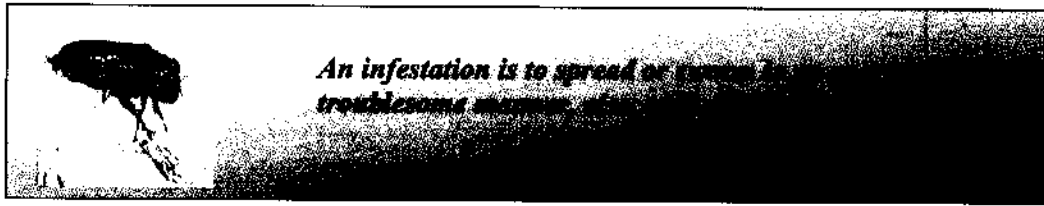
Structure Use and Function Loss (Task A.3.) Hailstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$400.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	1	\$1,668.96	0	\$1,670.00	\$1,770.00
Shawnee Waste Water Treatment Plant	\$509.96	1	\$509.96	0	\$510.00	\$3,010.00
Shawnee Water Treatment Plant	\$336.11	1	\$336.11	0	\$340.00	\$340.00
Clayton Township	\$533.14	1	\$533.14	0	\$530.00	\$630.00
Roseville Village Water Works	\$1,031.51	1	\$1,031.51	0	\$1,030.00	\$5,130.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$900.00
Roseville Post Office		0		0	\$0.00	\$0.00
Crooksville Sanitation Department		1		0	\$0.00	\$700.00
Crooksville Water Department		1		0	\$0.00	\$7,700.00
Crooksville Village	\$7,939.15	1	\$7,939.15	0	\$7,940.00	\$10,440.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		1		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	1	\$950.38	0	\$950.00	\$6,750.00
Saltlick Township		1		0	\$0.00	\$0.00
Corning Village		1		0	\$0.00	\$400.00
Pleasant Township	\$788.12	1	\$788.12	0	\$790.00	\$1,190.00
Corning Post Office		1		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Hailstorm

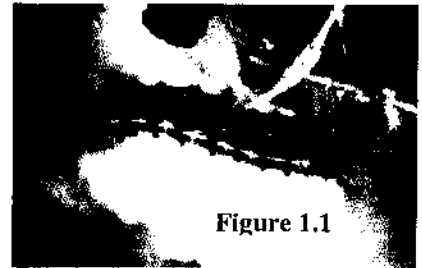
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		1		0	\$0.00	\$1,100.00
Glenford Hopewell Township	\$1,448.75	1	\$1,448.75	0	\$1,450.00	\$2,750.00
Glenford Village		1		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset-Reading Township		1		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	1	\$730.17	0	\$730.00	\$3,030.00
Village of Thornville Sewer Plant	\$764.94	1	\$764.94	0	\$760.00	\$2,260.00
Thornville Post Office		0		0	\$0.00	\$100.00
Thornville Village	\$996.74	1	\$996.74	0	\$1,000.00	\$2,300.00
New Lexington	\$11,114.81	1	\$11,114.81	0	\$11,110.00	\$80,210.00
New Lexington Water Works		1		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	0	\$2,862.73	0	\$0.00	\$1,200.00
Perry County Court House		1		0	\$0.00	\$7,300.00
Madison TWP	\$625.86	1	\$625.86	0	\$630.00	\$830.00
Monday Creek TWP	\$440.42	1	\$440.42	0	\$440.00	\$1,540.00
Total Loss to Structure Use & Function					\$105,970.00	\$732,890.00

Infestation



According to searches and reviews of online information provided by the Ohio Division of Forestry, Perry County is subject to an infestation primarily of a European strain of gypsy moth (pictured in Figure 1.1), Emerald Ash Borer (Fig 1.2) and the Asian Long Horned Beetle (Fig. 1.3).

The gypsy moth, during its caterpillar phase, is one of the most destructive defoliating insect pests to attack the trees and forests of the northeastern United States. The impact of gypsy moths includes economic losses through timber mortality, loss of recreational opportunities in severely defoliated areas, and nuisances from gypsy moth caterpillars. A state gypsy moth quarantine was established in 1987.



The environmental, social, and economic impact the Emerald Ash Borer is having on Ohio's rural and urban forests is staggering.

EAB larvae feed on the living portion of the tree, directly beneath the bark. This eating habit restricts the tree's ability to move essential water and nutrients throughout the plant. In three to five years, **even the healthiest tree is unable to survive an attack.**



This pest can be difficult to identify because the symptoms that infested ash trees exhibit are much like the symptoms of our native ash borers. The main symptoms of an EAB infested tree are **branch dieback, sprouting around the base of the tree, and unusual woodpecker activity.**

The Asian Long Horned Beetle infestation in Ohio was first discovered in June 2011, near the village of Bethel in Clermont County. The insect was previously found associated with solid wood packing and crating materials in warehouses located in Cincinnati, Columbus, and Loudonville.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

Hazard: Infestation

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Perry County Learning Center		X		
Sheridan HS	\$21,136,862.65	X	\$0.00	
Sheridan MS	\$14,604,518.44	X	\$0.00	
Somerset ES	\$6,527,856.56	X	\$0.00	
Tharville ES	\$6,443,082.67	X	\$0.00	
Somerset Post Office		X	\$0.00	
Shawnee Post Office	\$231,800.00	X	\$0.00	
Crooksville Post Office	\$1,135,820.00	X	\$0.00	
New Lexington Post Office		X	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	X	\$0.00	
Sunbridge Care & Rehabilitation for New Lexington				
Roads	\$2,607,750.00	X	\$0.00	
Railroads	\$3,471,638,466.00	X	\$0.00	
Bridges	\$213,017,709.60	X	\$0.00	
Crooksville Runway	\$43,060,906.50	X	\$0.00	
Perry County Runway	\$16,689,600.00	X	\$0.00	
Clum Runway	\$24,339,000.00	X	\$0.00	
Roberts Field Runway	\$11,126,400.00	X	\$0.00	
New Lexington City Police	\$19,471,200.00	X	\$0.00	
Crooksville Police Department		X	\$0.00	
Somerset Village PD and Village Hall		X	\$0.00	
Junction City Village Police	\$127,490.00	X	\$0.00	
Shawnee Village Police Department		X	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X			
	X	\$0.00		\$0.00
\$1,970,610.61	X	\$0.00		\$0.00
\$1,487,381.79	X	\$0.00		\$0.00
\$513,000.06	X	\$0.00		\$0.00
\$422,796.25	X	\$0.00		\$0.00
\$11,590.00	X	\$0.00		\$0.00
\$92,720.00	X	\$0.00		\$0.00
\$243,390.00	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
\$31,408.90	X	\$0.00		\$0.00
\$579,500.00	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
\$347,700.00	X	\$0.00		\$0.00
	X	\$0.00		\$0.00
\$57,950.00	X	\$0.00		\$0.00
	X	\$0.00		\$0.00

Hazard: Infestation

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Thornville Village Police		X	\$0.00	=
Shawnee Village Hall	\$41,724.00	X	\$0.00	=
Shawnee Waste Water Treatment Plant	\$1,274,900.00	X	\$0.00	=
Shawnee Water Treatment Plant	\$17,385.00	X	\$0.00	=
Clayton Township	\$52,039.10	X	\$0.00	=
Roseville Village Water Works	\$1,738,500.00	X	\$0.00	=
Roseville Village FD		X	\$0.00	=
Roseville Post Office		X	\$0.00	=
Crooksville Sanitation Department	\$289,750.00	X	\$0.00	=
Crooksville Water Department	\$3,245,200.00	X	\$0.00	=
Crooksville Village	\$1,159,000.00	X	\$0.00	=
Junction City Waste Water Treatment Plant		X	\$0.00	=
Junction City Water Works		X	\$0.00	=
Junction City Village		X	\$0.00	=
New Straitsville Village	\$2,883,957.09	X	\$0.00	=
Saltlick Township		X	\$0.00	=
Corning Village	\$140,837.04	X	\$0.00	=
Pleasant Township	\$171,300.20	X	\$0.00	=
Corning Post Office		X	\$0.00	=
Glenford FD	\$231,800.00	X	\$0.00	=
Glenford Hopewell Township	\$582,629.30	X	\$0.00	=
Glenford Village		X	\$0.00	=
Somerset Waste Water Treatment Plant		X	\$0.00	=

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X	=		
	X	0.00	\$0.00	=
\$23,180.00	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
\$3,477.00	X	0.00	\$0.00	=
\$579,500.00	X	0.00	\$0.00	=
\$927,200.00	X	0.00	\$0.00	=
\$28,975.00	X	0.00	\$0.00	=
\$57,950.00	X	0.00	\$0.00	=
\$1,176,385.00	X	0.00	\$0.00	=
\$173,850.00	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
\$35,349.50	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
\$53,314.00	X	0.00	\$0.00	=
\$128,649.00	X	0.00	\$0.00	=
\$23,180.00	X	0.00	\$0.00	=
\$579,500.00	X	0.00	\$0.00	=
\$77,653.00	X	0.00	\$0.00	=
	X	0.00	\$0.00	=
	X	0.00	\$0.00	=

Hazard: Infestation

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Somerset Water Treatment Plant		X 0.00 =	\$0.00	
Somerset-Reading Township		X 0.00 =	\$0.00	
Village of Thornville Water Well and Tower	\$637,450.00	X 0.00 =	\$0.00	
Village of Thornville Sewer Plant	\$278,160.00	X 0.00 =	\$0.00	
Thornville Post Office	\$52,155.00	X 0.00 =	\$0.00	
Thornville Village	\$347,700.00	X 0.00 =	\$0.00	
New Lexington	\$25,845,700.00	X 0.00 =	\$0.00	
New Lexington Water Works		X 0.00 =	\$0.00	
New Lexington Waste Water Treatment Plant		X 0.00 =	\$0.00	
Perry County Sheriff		X 0.00 =	\$0.00	
Perry County Court House	\$3,349,223.73	X 0.00 =	\$0.00	
Madison TWP	\$55,632.00	X 0.00 =	\$0.00	
Monday Creek TWP	\$521,550.00	X 0.00 =	\$0.00	
Total Loss to Structure			\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X 0.00 =	\$0.00		
	X 0.00 =	\$0.00		
\$1,043,100.00	X 0.00 =	\$0.00		
\$869,250.00	X 0.00 =	\$0.00		
\$23,180.00	X 0.00 =	\$0.00		
\$579,500.00	X 0.00 =	\$0.00		
\$17,385,000.00	X 0.00 =	\$0.00		
	X 0.00 =	\$0.00		
	X 0.00 =	\$0.00		
\$1,159,000.00	X 0.00 =	\$0.00		
\$624,228.13	X 0.00 =	\$0.00		
\$85,766.00	X 0.00 =	\$0.00		
\$92,720.00	X 0.00 =	\$0.00		
Total Loss to Contents			\$0.00	

Structure Use and Function Loss (Task A.3.)

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		1		0	\$0.00	\$0.00
Perry County Learning Center		1		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00	\$1,590.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00	\$1,270.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00	\$790.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00	\$790.00
Somerset Post Office		0		0	\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$0.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$0.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	0	\$4,160.81	0	\$0.00	\$0.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	0	\$2,225.28	0	\$0.00	\$0.00
Roads		0		0	\$0.00	\$0.00
Railroads		0		0	\$0.00	\$0.00
Bridges		0		0	\$0.00	\$0.00
Crooksville Runway		0		0	\$0.00	\$0.00
Perry County Runway		0		0	\$0.00	\$0.00
Clum Runway		0		0	\$0.00	\$0.00
Roberts Field Runway		0		0	\$0.00	\$0.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$0.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.)

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (# of days) (Step 4)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$0.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	0	\$1,668.96	0	\$0.00	\$0.00
Shawnee Waste Water Treatment Plant	\$509.96	0	\$509.96	0	\$0.00	\$0.00
Shawnee Water Treatment Plant	\$336.11	0	\$336.11	0	\$0.00	\$0.00
Clayton Township	\$533.14	0	\$533.14	0	\$0.00	\$0.00
Roseville Village Water Works	\$1,031.51	0	\$1,031.51	0	\$0.00	\$0.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$0.00
Roseville Post Office		0		0	\$0.00	\$0.00
Crooksville Sanitation Department		0		0	\$0.00	\$0.00
Crooksville Water Department		0		0	\$0.00	\$0.00
Crooksville Village	\$7,939.15	0	\$7,939.15	0	\$0.00	\$0.00
Junction City Waste Water Treatment Plant		0		0	\$0.00	\$0.00
Junction City Water Works		0		0	\$0.00	\$0.00
Junction City Village		0		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	0	\$950.38	0	\$0.00	\$0.00
Saitlick Township		0		0	\$0.00	\$0.00
Corning Village		0		0	\$0.00	\$0.00
Pleasant Township	\$788.12	0	\$788.12	0	\$0.00	\$0.00
Corning Post Office		0		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.)

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (# of days) (Step 4)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		0		0	\$0.00	\$0.00
Glenford Hopewell Township	\$1,448.75	0	\$1,448.75	0	\$0.00	\$0.00
Glenford Village		0		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		0		0	\$0.00	\$0.00
Somerset Water Treatment Plant		0		0	\$0.00	\$0.00
Somerset-Reading Township		0		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	0	\$730.17	0	\$0.00	\$0.00
Village of Thornville Sewer Plant	\$764.94	0	\$764.94	0	\$0.00	\$0.00
Thornville Post Office		0		0	\$0.00	\$0.00
Thornville Village	\$996.74	0	\$996.74	0	\$0.00	\$0.00
New Lexington	\$11,114.81	0	\$11,114.81	0	\$0.00	\$0.00
New Lexington Water Works		0		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		0		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	0	\$2,862.73	0	\$0.00	\$0.00
Perry County Court House		0		0	\$0.00	\$0.00
Madison TWP	\$625.86	0	\$625.86	0	\$0.00	\$0.00
Monday Creek TWP	\$440.42	0	\$440.42	0	\$0.00	\$0.00
Total Loss to Structure Use & Function					\$69,700.00	\$69,700.00

Land Subsidence and Mine Subsidence



Several methods of research identified land subsidence and mine subsidence as a hazards in Perry County. Mine subsidence information was obtained form the following Internet site.

- Ohio Department of Natural Resources Division of Geological Survey
http://www.dnr.state.oh.us/geosurvey/geo_fact/geo_f12.htm
- American Planning Association – Landslide Hazards and Planning
<http://www.planning.org/landslides>
- General Landslide Information
http://www.nfpa.org/Education/Consumers_and_Families/Fire_Safety_Information/Talking_About_Disaster/Landslides_and_Debris_Flow_Mud/Landslide_and_debris_flow_mud.html
- How to Do Landslide Hazard Analysis
<http://www.itc.nl/ilwi/s>
- Landslide and Mudflow Fact Sheet
<http://www.fema.gov/library/landslid.htm>
- Landslide Overview Map of the US
http://landslide.usgs.gov/html_files/landslides/nationalmap/national.html

Landslides are classified into three (3) types:

Rotational slump- A rotational slump is the movement of a mass of weak rock or sediment as a block unit along a curved slip plane. These slumps are the largest type of landslide in Ohio, commonly involving hundreds of thousands of

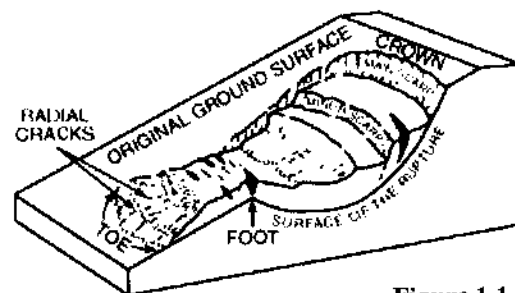


Figure 1.1

cubic yards of material and extending for hundreds of feet. The major components of a rotational slump are illustrated in Figure 1.1.

Earth flow - An earth flow involves a weathered mass of rock or sediment that flows downslope as a jumbled mass, forming a jagged topography of ridges and swales.

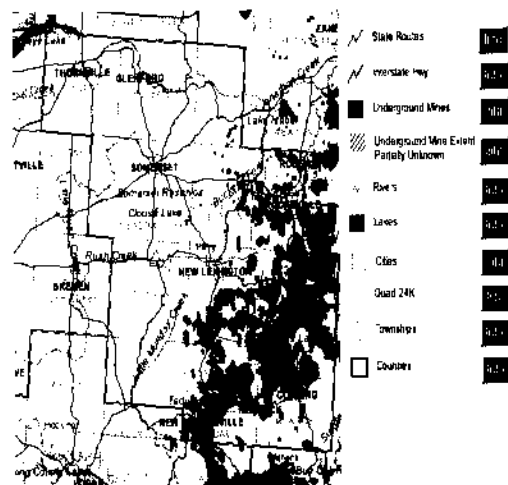
Rock fall - A rock fall is an extremely rapid, and potentially dangerous, downslope movement of earth materials. Large blocks of massive bedrock may suddenly become detached from a cliff or steep hillside and travel downslope in free fall and/or a rolling, bounding, or sliding manner until a position of stability is achieved.

The Ohio Department of Natural Resources (ODNR) recognizes land subsidence or landslides as a minimal risk in Perry County. According to the ODNR, landslides have the capability of damaging or destroying homes, businesses, and highways, resulting in annual costs of millions of dollars in Ohio. Upon occasion, landslide events can be a serious threat to personal safety.

As per ODNR information, landslides are not a random totally unpredictable occurrence. Consequently, certain inherent geologic conditions are a prerequisite to a landslide incidence: steep slopes, jointed rocks, fine-grained, permeable rock or sediment, clay or shale units subject to lubrication, and large amounts of water. Although many areas in Perry County may possess only a few of the above conditions, a landslide also requires a trigger, an event to initiate downslope movement. Events or circumstances, either natural or man made, that commonly trigger landslides in Ohio include vibrations, oversteepened slope, increased weight on a slope, and removal of vegetation.

The ODNR recommends several practices for landslides mitigation. Avoid excavating at the base of the slope, placing large quantities of fill on the upper part of the slope, removing vegetation, disrupting natural drainage patterns, and allowing water from downspouts or septic tanks to discharge onto a slope. In questionable areas, the services of a consulting geologist familiar with the problems of slope failure may be well worth the expense.

According to the Ohio Department of Natural Resources (ODNR), Division of Geological Survey (Mineral Resources Management), there are several abandoned underground mines in Perry County



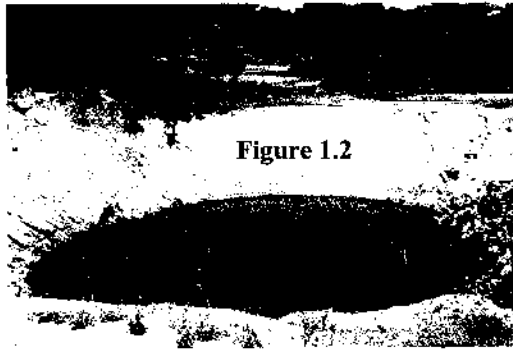


Figure 1.2

located near the Villages of Corning, Crooksville, Hemlock, New Straitsville, Rendville, and Shawnee. Safety problems for travelers caused by sinkholes (illustrated in Figure 1.2) and landslides initiated by abandoned underground mines are a growing concern. As a mitigation effort, the Ohio Department of Transportation (ODOT) developed an abandoned, underground mine inventory and

risk assessment process. The process is intended to locate and assess the safety of mine sites underlying highways throughout Ohio. For example, a twelve foot section of Interstate 70 in Guernsey County suddenly collapsed due to abandoned underground mine subsidence on March 5, 1995. This collapse resulted in closure of this vital roadway for four (4) months. Mine subsidence, like an earthquake, is a geologic hazard that can strike with little or no warning and can result in catastrophic and costly damages. There are several highways that could become damaged as a result of mine subsidence in Perry County: State Routes 13, 93, 155, 216, 345, 555, 595, and 669 are all located in the southeastern portion of the county. Unlike an earthquake, mine subsidence normally only affects few people. However, if a mine collapses under a heavily traveled highway, several lives and industries are subject to potential damage.

Mine subsidence also can cause foundation damage to buildings, disrupt underground utilities, and be a potential risk to human life. The number of persons that could potentially be affected by mine subsidence in Perry County is 4,646. There are also approximately 2,434 housing units that could become damaged as a result of mine subsidence. The majority of underground mines in Ohio are coal mines. Subsequently, Ohio has had a history of coal mine subsidence problems dating back

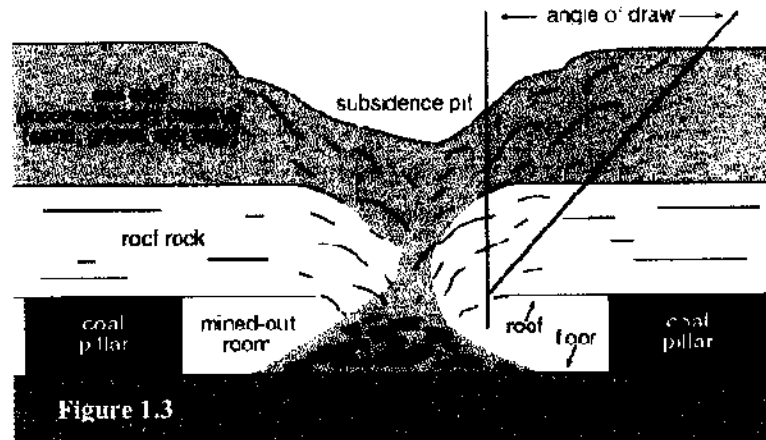


Figure 1.3

to the early 20th century. There are two (2) types of subsidence: (1) pit, also called sinkhole or pothole, and (2) sag or through. (The term "sinkhole" more properly refers to solution collapse features in limestone). Pit subsidence (illustrated in Figure 1.3) is characterized by an abrupt sinking of the surface, resulting in a circular, steep-sided, craterlike feature that has an inward

drainage pattern. It is often associated with the roof collapse of mines that have total overburden (overlying unconsolidated material and rock) of less than 165 feet, weak roof rock of shale or mudstone, and/or a ratio of unconsolidated-material thickness to rock thickness of less than 1.2. Sag subsidence is a gentle, gradual settling of the surface. It is associated with pillar crushing or pillar punching in deeper mines (overburden of more than 75 feet). Sag subsidence features may fill with water if the surface of the subsidence intersects the water table.

Mine subsidence can be controlled by several factors, including the height of mined-out areas, the width of unsupported mine roofs, the thickness of overburden, competency (strength) of bedrock, pillar dimensions, hydrology, fractures/joints, and time.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Land Subsidence and Mine Subsidence

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Residential	\$226,779,803.09	0.10	\$226,800.00			\$0.00	
Corning VFD	\$150,081.23	1.50	\$2,300.00	\$28,975.00	0.75	\$200.00	
Crooksville FD		1.50	\$0.00		0.75	\$0.00	
Hopewell TWP FD		0.50	\$0.00		0.25	\$0.00	
Junction City VFD	\$289,750.00	1.00	\$2,900.00	\$811,300.00	0.50	\$4,100.00	
Monday Creek TWP VFD	\$231,800.00	0.50	\$1,200.00	\$521,550.00	0.25	\$1,300.00	
New Lexington FD		1.00	\$0.00		0.50	\$0.00	
New Straitsville VFD		1.50	\$0.00		0.75	\$0.00	
Shawnee VFD	\$33,611.00	1.50	\$500.00	\$359,290.00	0.75	\$2,700.00	
Somerset Reading TWP VFD		0.50	\$0.00		0.25	\$0.00	
Thornville Thorn TWP VFD		0.50	\$0.00		0.25	\$0.00	
Crooksville SD	\$38,464,063.32	1.50	\$577,000.00	\$6,021,783.85	0.75	\$45,200.00	
Crooksville ES		1.50	\$0.00		0.75	\$0.00	
Crooksville HS		1.50	\$0.00		0.75	\$0.00	
Crooksville MS		1.50	\$0.00		0.75	\$0.00	
Glenford ES	\$6,456,406.00	0.50	\$32,300.00	\$381,023.57	0.25	\$1,000.00	
Junction City ES		0.50	\$0.00		0.25	\$0.00	
Southern Local SD	\$32,452,000.00	1.50	\$486,800.00	\$8,113,000.00	0.75	\$60,800.00	
Millcreek ES		1.50	\$0.00		0.75	\$0.00	
Miller HS		1.50	\$0.00		0.75	\$0.00	
Miller MS		1.50	\$0.00		0.75	\$0.00	
New Lexington ES		1.00	\$0.00		0.50	\$0.00	
New Lexington HS		1.00	\$0.00		0.50	\$0.00	
New Lexington MS		1.00	\$0.00		0.50	\$0.00	

Hazard: Land Subsidence and Mine Subsidence

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)
Perry County Learning Center		X 1.00 =	\$0.00		X 0.50 =	\$0.00
Sheridan HS	\$21,136,862.65	X 0.50 =	\$105,700.00	\$1,970,610.61	X 0.25 =	\$4,900.00
Sheridan MS	\$14,604,518.44	X 0.50 =	\$73,000.00	\$1,487,381.79	X 0.25 =	\$3,700.00
Somerset ES	\$6,527,856.56	X 0.50 =	\$32,600.00	\$513,000.00	X 0.25 =	\$1,300.00
Thornville ES	\$6,443,082.67	X 0.50 =	\$32,200.00	\$422,796.25	X 0.25 =	\$1,100.00
Somerset Post Office		X 0.50 =	\$0.00	\$11,590.00	X 0.25 =	\$0.00
Shawnee Post Office	\$231,800.00	X 1.50 =	\$3,500.00	\$92,720.00	X 0.75 =	\$700.00
Crooksville Post Office	\$1,135,820.00	X 1.50 =	\$17,000.00	\$243,390.00	X 0.75 =	\$1,800.00
New Lexington Post Office		X 1.00 =	\$0.00		X 0.50 =	\$0.00
Somerset Healthcare Center	\$2,084,411.66	X 0.50 =	\$10,400.00	\$31,408.90	X 0.25 =	\$100.00
Sunbridge Care & Rehabilitation for New Lexington		1.00 =				
Roads	\$2,607,750.00	X	\$26,100.00	\$579,500.00	X 0.50 =	\$2,900.00
Roads	\$3,471,638,466.00	X 0.10 =	\$3,471,600.00		X 0.05 =	\$0.00
Railroads	\$213,017,709.60	X 0.10 =	\$213,000.00		X 0.05 =	\$0.00
Bridges	\$43,060,906.50	X 0.10 =	\$43,100.00		X 0.05 =	\$0.00
Crooksville Runway	\$16,689,600.00	X 0.20 =	\$33,400.00		X 0.10 =	\$0.00
Perry County Runway	\$24,339,000.00	X 0.20 =	\$48,700.00		X 0.10 =	\$0.00
Clum Runway	\$11,126,400.00	X 0.20 =	\$22,300.00		X 0.10 =	\$0.00
Roberts Field Runway	\$19,471,200.00	X 0.20 =	\$38,900.00		X 0.10 =	\$0.00
New Lexington City Police		X 1.00 =	\$0.00		X 0.50 =	\$0.00
Crooksville Police Department		X 1.50 =	\$0.00	\$347,700.00	X 0.75 =	\$2,600.00
Somerset Village PD and Village Hall		X 0.50 =	\$0.00		X 0.25 =	\$0.00
Junction City Village Police	\$127,490.00	X 0.50 =	\$600.00	\$57,950.00	X 0.25 =	\$100.00
Shawnee Village Police Department		X 1.50 =	\$0.00		X 0.75 =	\$0.00

Hazard: Land Subsidence and Mine Subsidence

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)		Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
Thornville Village Police		0.50	\$0.00	X		0.25	\$0.00	X	
Shawnee Village Hall	\$41,724.00	1.50	\$600.00	X	\$23,180.00	0.75	\$200.00	X	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.50	\$19,100.00	X		0.75	\$0.00	X	
Shawnee Water Treatment Plant	\$17,385.00	1.50	\$300.00	X		0.75	\$0.00	X	
Clayton Township	\$52,039.10	1.50	\$800.00	X	\$3,477.00	0.75	\$0.00	X	
Roseville Village Water Works	\$1,738,500.00	1.50	\$26,100.00	X	\$579,500.00	0.75	\$4,300.00	X	
Roseville Village FD		1.50	\$0.00	X	\$927,200.00	0.75	\$7,000.00	X	
Roseville Post Office		1.50	\$0.00	X	\$28,975.00	0.75	\$200.00	X	
Crooksville Sanitation Department	\$289,750.00	1.50	\$4,300.00	X	\$57,950.00	0.75	\$400.00	X	
Crooksville Water Department	\$3,245,200.00	1.50	\$48,700.00	X	\$1,176,385.00	0.75	\$8,800.00	X	
Crooksville Village	\$1,159,000.00	1.50	\$17,400.00	X	\$173,850.00	0.75	\$1,300.00	X	
Junction City Waste Water Treatment Plant		0.50	\$0.00	X		0.25	\$0.00	X	
Junction City Water Works		0.50	\$0.00	X		0.25	\$0.00	X	
Junction City Village		0.50	\$0.00	X		0.25	\$0.00	X	
New Straitsville Village	\$2,883,957.09	1.50	\$43,300.00	X	\$35,349.50	0.75	\$300.00	X	
Saltlick Township		1.50	\$0.00	X		0.75	\$0.00	X	
Corning Village	\$140,837.04	1.50	\$2,100.00	X	\$53,314.00	0.75	\$400.00	X	
Pleasant Township	\$171,300.20	1.50	\$2,600.00	X	\$128,649.00	0.75	\$1,000.00	X	
Corning Post Office		1.50	\$0.00	X	\$23,180.00	0.75	\$200.00	X	
Glenford FD	\$231,800.00	0.50	\$1,200.00	X	\$579,500.00	0.25	\$1,400.00	X	
Glenford Hopewell Township	\$582,629.30	0.50	\$2,900.00	X	\$77,653.00	0.25	\$200.00	X	
Glenford Village		0.50	\$0.00	X		0.25	\$0.00	X	
Somerset Waste Water Treatment Plant		0.50	\$0.00	X		0.25	\$0.00	X	

Hazard: Land Subsidence and Mine Subsidence

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)
Somerset Water Treatment Plant		0.50 =	\$0.00	X	0.25 =	\$0.00
Somerset-Reading Township		0.50 =	\$0.00	X	0.25 =	\$0.00
Village of Thornville Water Well and Tower	\$637,450.00	0.50 =	\$3,200.00	X	0.25 =	\$2,600.00
Village of Thornville Sewer Plant	\$278,160.00	0.50 =	\$1,400.00	X	0.25 =	\$2,200.00
Thornville Post Office	\$52,155.00	0.50 =	\$300.00	X	0.25 =	\$100.00
Thornville Village	\$347,700.00	0.50 =	\$1,700.00	X	0.25 =	\$1,400.00
New Lexington	\$25,845,700.00	1.00 =	\$258,500.00	X	0.50 =	\$86,900.00
New Lexington Water Works		1.00 =	\$0.00	X	0.50 =	\$0.00
New Lexington Waste Water Treatment Plant		1.00 =	\$0.00	X	0.50 =	\$0.00
Perry County Sheriff		1.50 =	\$0.00	X	0.75 =	\$8,700.00
Perry County Court House	\$3,349,223.73	1.50 =	\$50,200.00	X	0.75 =	\$4,700.00
Madison TWP	\$55,632.00	1.50 =	\$800.00	X	0.75 =	\$600.00
Monday Creek TWP	\$521,550.00	1.50 =	\$7,800.00	X	0.75 =	\$700.00
Total Loss to Structure				\$5,995,200.00		
				Total Loss to Contents		
				\$268,100.00		

Structure Use and Function Loss (Task A.3.) Land/Mine Subsidence

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Residential		2		0	\$0.00	\$226,800.00
Corning VFD		0		0	\$0.00	\$2,500.00
Crooksville FD		0		0	\$0.00	\$0.00
Hopewell TWP FD		0		0	\$0.00	\$0.00
Junction City VFD	\$104.31	0	\$104.31	0	\$0.00	\$7,000.00
Monday Creek TWP VFD		0		0	\$0.00	\$2,500.00
New Lexington FD		0		0	\$0.00	\$0.00
New Straitsville VFD		0		0	\$0.00	\$0.00
Shawnee VFD	\$92.72	0	\$92.72	0	\$0.00	\$3,200.00
Somerset Reading TWP FD		0		0	\$0.00	\$0.00
Thornville Thorn TWP VFD		0		0	\$0.00	\$0.00
Crooksville SD	\$40,646.13	3	\$40,646.13	0	\$121,940.00	\$744,140.00
Crooksville ES		3		0	\$0.00	\$0.00
Crooksville HS		3		0	\$0.00	\$0.00
Crooksville MS		3		0	\$0.00	\$0.00
Glenford ES	\$788.12	1	\$788.12	0	\$790.00	\$34,090.00
Junction City ES		1		0	\$0.00	\$0.00
Southern Local SD	\$23,817.45	3	\$23,817.45	0	\$71,450.00	\$619,050.00
Millcreek ES		3		0	\$0.00	\$0.00
Miller HS		3		0	\$0.00	\$0.00
Miller MS		3		0	\$0.00	\$0.00
New Lexington ES		2		0	\$0.00	\$0.00
New Lexington HS		2		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Land/Mine Subsidence

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4) (\$)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		2		0	\$0.00	\$0.00
Perry County Learning Center		2		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00	\$112,190.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00	\$77,970.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00	\$34,690.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00	\$34,090.00
Somerset Post Office		0		0	\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$4,200.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$18,800.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	1	\$4,160.81	0	\$4,160.00	\$14,660.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	2	\$2,225.28	0	\$4,450.00	\$33,450.00
Roads		1		0	\$0.00	\$3,471,600.00
Railroads		1		0	\$0.00	\$213,000.00
Bridges		1		0	\$0.00	\$43,100.00
Crooksville Runway		1		0	\$0.00	\$33,400.00
Perry County Runway		1		0	\$0.00	\$48,700.00
Clum Runway		1		0	\$0.00	\$22,300.00
Roberts Field Runway		1		0	\$0.00	\$38,900.00
New Lexington City Police		2		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	3	\$556.32	0	\$1,670.00	\$4,270.00
Somerset Village PD and Village Hall		1		0	\$0.00	\$0.00

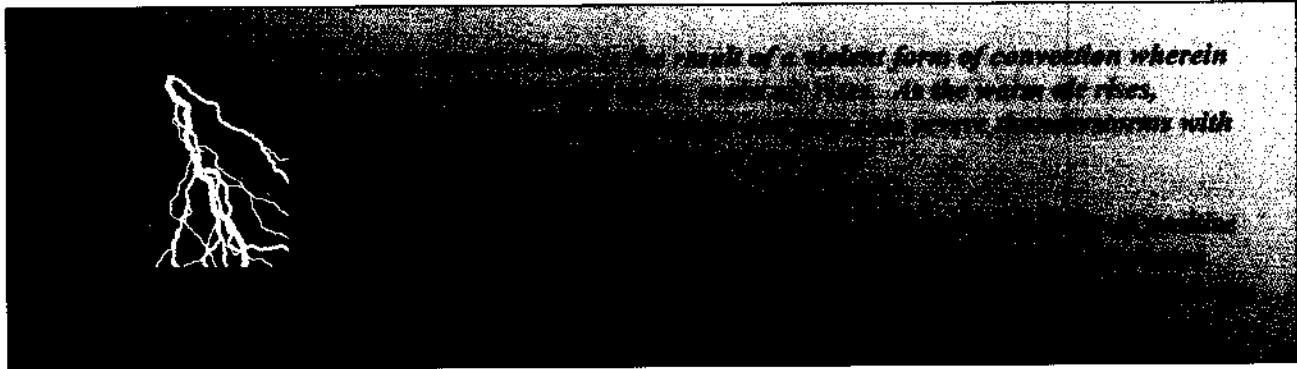
Structure Use and Function Loss (Task A.3.) Land/Mine Subsidence

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		1		0	\$0.00	\$700.00
Shawnee Village Police Department		3		0	\$0.00	\$0.00
Thornville Village Police		1		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	3	\$1,668.96	0	\$5,010.00	\$5,810.00
Shawnee Waste Water Treatment Plant	\$509.96	3	\$509.96	0	\$1,530.00	\$20,630.00
Shawnee Water Treatment Plant	\$336.11	3	\$336.11	0	\$1,010.00	\$1,310.00
Clayton Township	\$533.14	3	\$533.14	0	\$1,600.00	\$2,400.00
Roseville Village Water Works	\$1,031.51	3	\$1,031.51	0	\$3,090.00	\$33,490.00
Roseville Village FD	\$115.90	3	\$115.90	0	\$350.00	\$7,350.00
Roseville Post Office		3		0	\$0.00	\$200.00
Crooksville Sanitation Department		3		0	\$0.00	\$4,700.00
Crooksville Water Department		3		0	\$0.00	\$57,500.00
Crooksville Village	\$7,939.15	3	\$7,939.15	0	\$23,820.00	\$42,520.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		1		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	3	\$950.38	0	\$2,850.00	\$46,450.00
Saltlick Township		3		0	\$0.00	\$0.00
Corning Village		3		0	\$0.00	\$2,500.00
Pleasant Township	\$788.12	3	\$788.12	0	\$2,360.00	\$5,960.00
Corning Post Office		3		0	\$0.00	\$200.00

Structure Use and Function Loss (Task A.3.) Land/Mine Subsidence

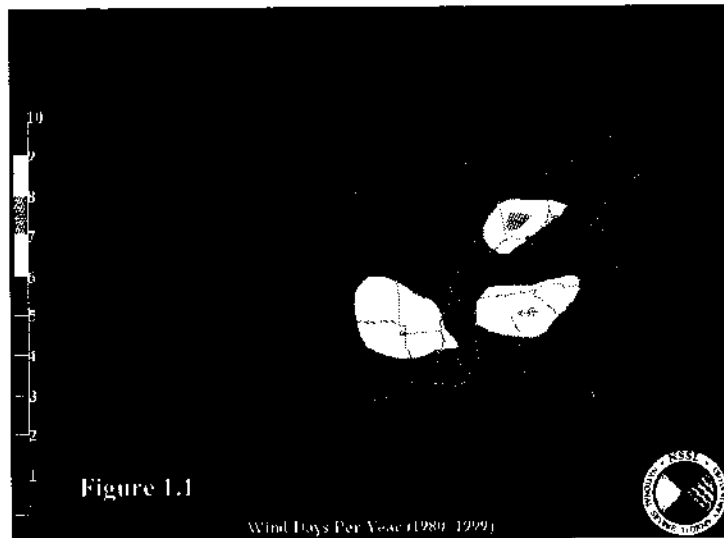
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4) (\$)	=	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		X	1	+		X	0	=	\$0.00	\$2,600.00
Glenford Hopewell Township	\$1,448.75	X	1	+	\$1,448.75	X	0	=	\$1,450.00	\$4,550.00
Glenford Village		X	1	+		X	0	=	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		X	1	+		X	0	=	\$0.00	\$0.00
Somerset Water Treatment Plant		X	1	+		X	0	=	\$0.00	\$0.00
Somerset-Reading Township		X	1	+		X	0	=	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	X	1	+	\$730.17	X	0	=	\$730.00	\$6,530.00
Village of Thornville Sewer Plant	\$764.94	X	1	+	\$764.94	X	0	=	\$760.00	\$4,360.00
Thornville Post Office		X	0	+		X	0	=	\$0.00	\$400.00
Thornville Village	\$996.74	X	1	+	\$996.74	X	0	=	\$1,000.00	\$4,100.00
New Lexington	\$11,114.81	X	2	+	\$11,114.81	X	0	=	\$22,230.00	\$367,630.00
New Lexington Water Works		X	2	+		X	0	=	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		X	2	+		X	0	=	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	X	0	+	\$2,862.73	X	0	=	\$0.00	\$8,700.00
Perry County Court House		X	3	+		X	0	=	\$0.00	\$54,900.00
Madison TWP	\$625.86	X	3	+	\$625.86	X	0	=	\$1,880.00	\$3,280.00
Monday Creek TWP	\$440.42	X	3	+	\$440.42	X	0	=	\$1,320.00	\$9,820.00
Total Loss to Structure Use & Function									\$279,890.00	\$6,543,190.00

Severe Thunderstorm and Lightning



Several methods of research identified severe thunderstorms and lightning as natural hazards in Perry County, including discussions with local representatives and officials. General severe thunderstorm information was gathered at http://www.nfpa.org/Education/Consumers_and_Families/Fire_Safety_Information/Talking_About_Disaster/Severe_Thunderstorm/severe_thunderstorm.html.

The National Weather Service (NWS) defines a thunderstorm as “severe” when wind speeds reach 58 mph or stronger, and/or hail is produced that is 3/4 inch in diameter or larger, and/or a tornado is produced. High wind events are one of the most common types of hazards in Perry County. Figure 1.1 shows the number of high wind days that occur per year. To be classified as a “high wind event,” winds must be in excess of 52 mph. As can be seen, Ohio is in one of the most active areas for high wind events. Winds at these speeds are capable of doing great damage.



Thunderstorms are a seasonal hazard and can be expected to occur every year. According to the NWS, the most active thunderstorm season in Ohio is late spring and early summer. The key ingredient that defines a thunderstorm is lightning. Because lightning creates thunder, a storm with lightning is termed a thunderstorm. A bolt of lightning reaches a temperature of 50,000

degrees Fahrenheit in a split second. The rapid heating and cooling of air near the lightning causes thunder. Ohio averages four (4) deaths and 15 injuries per year as a result of lightning.

To see occurrences of severe thunderstorms and lightning that took place between 2005 and 2011, refer to *Volume 3 Historical Hazard Event Research 2005-2011*.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Severe Thunderstorm

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)		Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
Residential	\$226,779,803.09	0.10	\$226,800.00	=		0.05	\$0.00	=	
Corning VFD	\$150,081.23	1.00	\$1,500.00	=	\$28,975.00	0.50	\$100.00	=	
Crooksville FD		1.00	\$0.00	=		0.50	\$0.00	=	
Hopewell TWP FD		1.00	\$0.00	=		0.50	\$0.00	=	
Junction City VFD	\$289,750.00	1.00	\$2,900.00	=	\$811,300.00	0.50	\$4,100.00	=	
Monday Creek TWP VFD	\$231,800.00	1.00	\$2,300.00	=	\$521,550.00	0.50	\$2,600.00	=	
New Lexington FD		1.00	\$0.00	=		0.50	\$0.00	=	
New Straitsville VFD		1.00	\$0.00	=		0.50	\$0.00	=	
Shawnee VFD	\$33,611.00	1.00	\$300.00	=	\$359,290.00	0.50	\$1,800.00	=	
Somerset Reading TWP FD		1.00	\$0.00	=		0.50	\$0.00	=	
Thornville Thorn TWP VFD		1.00	\$0.00	=		0.50	\$0.00	=	
Crooksville SD	\$38,463,586.32	1.00	\$384,600.00	=	\$6,021,783.85	0.50	\$30,100.00	=	
Crooksville ES		1.00	\$0.00	=		0.50	\$0.00	=	
Crooksville HS		1.00	\$0.00	=		0.50	\$0.00	=	
Crooksville MS		1.00	\$0.00	=		0.50	\$0.00	=	
Glenford ES	\$6,456,406.53	1.00	\$64,600.00	=	\$381,023.57	0.50	\$1,900.00	=	
Junction City ES		1.00	\$0.00	=		0.50	\$0.00	=	
Southern Local SD	\$32,452,000.00	1.00	\$324,500.00	=	\$8,113,000.00	0.50	\$40,600.00	=	
Millcreek ES		1.00	\$0.00	=		0.50	\$0.00	=	
Miller HS		1.00	\$0.00	=		0.50	\$0.00	=	
Miller MS		1.00	\$0.00	=		0.50	\$0.00	=	
New Lexington ES		1.00	\$0.00	=		0.50	\$0.00	=	
New Lexington HS		1.00	\$0.00	=		0.50	\$0.00	=	
New Lexington MS		1.00	\$0.00	=		0.50	\$0.00	=	

Hazard: Severe Thunderstorm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Perry County Learning Center		1.00	\$0.00	
Sheridan HS	\$21,136,862.65	1.00	\$211,400.00	
Sheridan MS	\$14,604,518.44	1.00	\$146,000.00	
Somersel ES	\$6,527,856.56	1.00	\$65,300.00	
Thornville ES	\$6,443,082.67	1.00	\$64,400.00	
Somersel Post Office		1.00	\$0.00	
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	
Crooksville Post Office	\$1,135,820.00	1.00	\$11,400.00	
New Lexington Post Office		1.00	\$0.00	
Somersel Healthcare Center	\$2,084,411.66	1.00	\$20,800.00	
Sunbridge Care & Rehabilitation for New Lexington		1.00	\$26,100.00	
Roads	\$3,471,638,466.00	0.00	\$0.00	
Railroads	\$213,017,709.60	0.00	\$0.00	
Bridges	\$43,060,906.50	0.00	\$0.00	
Crooksville Runway	\$37,359,600.00	0.00	\$0.00	
Perry County Runway	\$24,339,000.00	0.00	\$0.00	
Clum Runway	\$11,126,400.00	0.00	\$0.00	
Roberts Field Runway	\$19,471,200.00	0.00	\$0.00	
New Lexington City Police		1.00	\$0.00	
Crooksville Police Department		1.00	\$0.00	
Somersel Village PD and Village Hall		1.00	\$0.00	
Junction City Village Police	\$127,490.00	1.00	\$1,300.00	
Shawnee Village Police Department		1.00	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X			
	X	0.50	\$0.00	
\$1,970,610.61	X	0.50	\$9,900.00	
\$1,487,381.79	X	0.50	\$7,400.00	
\$513,000.06	X	0.50	\$2,600.00	
\$422,796.25	X	0.50	\$2,100.00	
\$11,590.00	X	0.50	\$100.00	
\$92,720.00	X	0.50	\$500.00	
\$243,390.00	X	0.50	\$1,200.00	
	X	0.50	\$0.00	
\$31,408.90	X	0.50	\$200.00	
\$579,500.00	X	0.50	\$2,900.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
	X	0.00	\$0.00	
\$347,700.00	X	0.50	\$1,700.00	
	X	0.50	\$0.00	
\$57,950.00	X	0.50	\$300.00	
	X	0.50	\$0.00	

Hazard: Severe Thunderstorm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Thornville Village Police		1.00	\$0.00	
Shawnee Village Hall	\$41,724.00	1.00	\$400.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.00	\$12,700.00	
Shawnee Water Treatment Plant	\$17,385.00	1.00	\$200.00	
Clayton Township	\$52,039.10	1.00	\$500.00	
Roseville Village Water Works	\$1,738,500.00	1.00	\$17,400.00	
Roseville Village FD		1.00	\$0.00	
Roseville Post Office		1.00	\$0.00	
Crooksville Sanitation Department	\$289,750.00	1.00	\$2,900.00	
Crooksville Water Department	\$3,245,200.00	1.00	\$32,500.00	
Crooksville Village	\$1,159,000.00	1.00	\$11,600.00	
Junction City Waste Water Treatment Plant		1.00	\$0.00	
Junction City Water Works		1.00	\$0.00	
Junction City Village		1.00	\$0.00	
New Straitsville Village	\$2,883,957.09	1.00	\$28,800.00	
Saltlick Township		1.00	\$0.00	
Coming Village	\$140,837.04	1.00	\$1,400.00	
Pleasant Township	\$171,300.20	1.00	\$1,700.00	
Coming Post Office		1.00	\$0.00	
Glenford FD	\$231,800.00	1.00	\$2,300.00	
Glenford Hopewell Township	\$582,629.30	1.00	\$5,800.00	
Glenford Village		1.00	\$0.00	
Somerset Waste Water Treatment Plant		1.00	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X			
	X		\$0.00	
\$23,180.00	X		\$100.00	
	X		\$0.00	
	X		\$0.00	
\$3,477.00	X		\$0.00	
\$579,500.00	X		\$2,900.00	
\$927,200.00	X		\$4,600.00	
\$28,975.00	X		\$100.00	
\$57,950.00	X		\$300.00	
\$1,176,385.00	X		\$5,900.00	
\$173,850.00	X		\$900.00	
	X		\$0.00	
	X		\$0.00	
	X		\$0.00	
\$35,349.50	X		\$200.00	
	X		\$0.00	
\$53,314.00	X		\$300.00	
\$128,649.00	X		\$600.00	
\$23,180.00	X		\$100.00	
\$579,500.00	X		\$2,900.00	
\$77,653.00	X		\$400.00	
	X		\$0.00	
	X		\$0.00	

Hazard: Severe Thunderstorm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Somerset Water Treatment Plant		1.00	\$0.00	
Somerset-Reading Township		1.00	\$0.00	
Village of Thornville Water Well and Tower	\$637,450.00	1.00	\$6,400.00	
Village of Thornville Sewer Plant	\$278,160.00	1.00	\$2,800.00	
Thornville Post Office	\$52,155.00	1.00	\$500.00	
Thornville Village	\$347,700.00	1.00	\$3,500.00	
New Lexington	\$25,845,700.00	1.00	\$258,500.00	
New Lexington Water Works		1.00	\$0.00	
New Lexington Waste Water Treatment Plant		1.00	\$0.00	
Perry County Sheriff		1.00	\$0.00	
Perry County Court House	\$3,349,223.73	1.00	\$33,500.00	
Madison TWP	\$55,632.00	1.00	\$600.00	
Monday Creek TWP	\$521,550.00	1.00	\$5,200.00	
Total Loss to Structure			\$1,985,700.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X 0.50	\$0.00		
	X 0.50	\$0.00		
\$1,043,100.00	X 0.50	\$5,200.00		
\$869,250.00	X 0.50	\$4,300.00		
\$23,180.00	X 0.50	\$100.00		
\$579,500.00	X 0.50	\$2,900.00		
\$17,385,000.00	X 0.50	\$86,900.00		
	X 0.50	\$0.00		
	X 0.50	\$0.00		
\$1,159,000.00	X 0.50	\$5,800.00		
\$624,228.13	X 0.50	\$3,100.00		
\$85,766.00	X 0.50	\$400.00		
\$92,720.00	X 0.50	\$500.00		
Total Loss to Contents		\$238,600.00		

Structure Use and Function Loss (Task A.3.) Severe Thunderstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Residential		2		0	\$0.00	\$226,800.00
Corning VFD		0		0	\$0.00	\$1,600.00
Crooksville FD		0		0	\$0.00	\$0.00
Hopewell TWP FD		0		0	\$0.00	\$0.00
Junction City VFD	\$104.31	0	\$104.31	0	\$0.00	\$7,000.00
Monday Creek TWP VFD		0		0	\$0.00	\$4,900.00
New Lexington FD		0		0	\$0.00	\$0.00
New Straitsville VFD		0		0	\$0.00	\$0.00
Shawnee VFD	\$92.72	0	\$92.72	0	\$0.00	\$2,100.00
Somerset Reading TWP FD		0		0	\$0.00	\$0.00
Thornville Thorn TWP VFD		0		0	\$0.00	\$0.00
Crooksville SD	\$40,646.13	1	\$40,646.13	0	\$40,650.00	\$455,350.00
Crooksville ES		1		0	\$0.00	\$0.00
Crooksville HS		1		0	\$0.00	\$0.00
Crooksville MS		1		0	\$0.00	\$0.00
Glenford ES	\$788.12	1	\$788.12	0	\$790.00	\$67,290.00
Junction City ES		1		0	\$0.00	\$0.00
Southern Local SD	\$23,817.45	1	\$23,817.45	0	\$23,820.00	\$388,920.00
Millcreek ES		1		0	\$0.00	\$0.00
Miller HS		1		0	\$0.00	\$0.00
Miller MS		1		0	\$0.00	\$0.00
New Lexington ES		1		0	\$0.00	\$0.00
New Lexington HS		1		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Severe Thunderstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		1		0	\$0.00	\$0.00
Perry County Learning Center		1		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00	\$222,890.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00	\$154,670.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00	\$68,690.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00	\$67,290.00
Somerset Post Office		0		0	\$0.00	\$100.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$2,800.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$12,600.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	1	\$4,160.81	0	\$4,160.00	\$25,160.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	1	\$2,225.28	0	\$2,230.00	\$31,230.00
Roads		0		0	\$0.00	\$0.00
Railroads		0		0	\$0.00	\$0.00
Bridges		0		0	\$0.00	\$0.00
Crooksville Runway		1		0	\$0.00	\$0.00
Perry County Runway		1		0	\$0.00	\$0.00
Clum Runway		1		0	\$0.00	\$0.00
Roberts Field Runway		1		0	\$0.00	\$0.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$1,700.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00

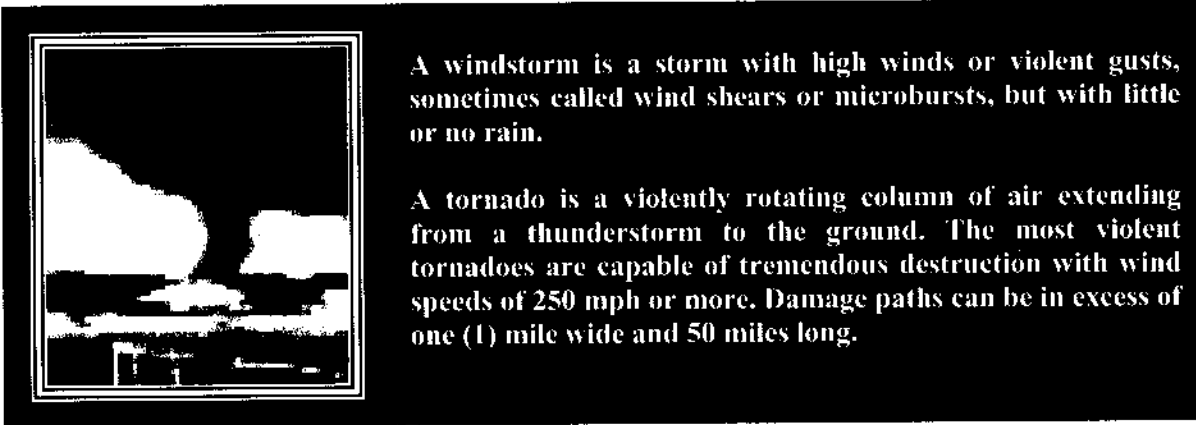
Structure Use and Function Loss (Task A.3.) Severe Thunderstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4) (\$)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$1,600.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	1	\$1,668.96	0	\$1,670.00	\$2,170.00
Shawnee Waste Water Treatment Plant	\$509.96	1	\$509.96	0	\$510.00	\$13,210.00
Shawnee Water Treatment Plant	\$336.11	1	\$336.11	0	\$340.00	\$540.00
Clayton Township	\$533.14	1	\$533.14	0	\$530.00	\$1,030.00
Roseville Village Water Works	\$1,031.51	1	\$1,031.51	0	\$1,030.00	\$21,330.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$4,600.00
Roseville Post Office		0		0	\$0.00	\$100.00
Crooksville Sanitation Department		1		0	\$0.00	\$3,200.00
Crooksville Water Department		1		0	\$0.00	\$38,400.00
Crooksville Village	\$7,939.15	1	\$7,923.15	0	\$7,940.00	\$12,500.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		1		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	1	\$950.38	0	\$950.00	\$29,950.00
Saltlick Township		1		0	\$0.00	\$0.00
Corning Village		1		0	\$0.00	\$1,700.00
Pleasant Township	\$788.12	1	\$788.12	0	\$790.00	\$3,090.00
Corning Post Office		0		0	\$0.00	\$100.00

Structure Use and Function Loss (Task A.3.) Severe Thunderstorm									
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4)	=	Structure Use & Function Loss (\$)
Glenford FD		X	0	+		X	0	=	\$0.00
Glenford Hopewell Township	\$1,448.75	X	1	+	\$1,448.75	X	0	=	\$1,450.00
Glenford Village		X	1	+		X	0	=	\$0.00
Somerset Waste Water Treatment Plant		X	1	+		X	0	=	\$0.00
Somerset Water Treatment Plant		X	1	+		X	0	=	\$0.00
Somerset-Reading Township		X	1	+		X	0	=	\$0.00
Village of Thornville Water Well and Tower	\$730.17	X	1	+	\$730.17	X	0	=	\$730.00
Village of Thornville Sewer Plant	\$764.94	X	1	+	\$764.94	X	0	=	\$760.00
Thornville Post Office		X	0	+		X	0	=	\$0.00
Thornville Village	\$996.74	X	1	+	\$996.74	X	0	=	\$1,000.00
New Lexington	\$11,114.81	X	1	+	\$11,114.81	X	0	=	\$11,110.00
New Lexington Water Works		X	1	+		X	0	=	\$0.00
New Lexington Waste Water Treatment Plant		X	1	+		X	0	=	\$0.00
Perry County Sheriff	\$2,862.73	X	0	+	\$2,862.73	X	0	=	\$0.00
Perry County Court House		X	1	+		X	0	=	\$0.00
Madison TWP	\$625.86	X	1	+	\$625.86	X	0	=	\$630.00
Monday Creek TWP	\$440.42	X	1	+	\$440.42	X	0	=	\$440.00
Total Loss to Structure Use & Function									\$105,970.00

Structure Loss + Content Loss + Function Loss (\$)
\$5,200.00
\$7,650.00
\$0.00
\$0.00
\$0.00
\$0.00
\$0.00
\$12,330.00
\$7,860.00
\$600.00
\$7,400.00
\$356,510.00
\$0.00
\$0.00
\$5,800.00
\$36,600.00
\$1,630.00
\$6,140.00
\$2,322,330.00

Severe Wind and Tornado



Several methods of research identified severe wind and tornadoes as natural hazards in Perry County. General severe wind and tornado information was obtained from the following sources:

- *State and Local Mitigation Planning How-To-Guide: Understanding Your Risks*, FEMA
- National Oceanic & Atmospheric Administration (NOAA) web site

<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.d11?wwdevent~ShowEvent>

Ohio falls into the “high” category for tornado risk and the highest category for wind zones in the United States, which is illustrated in Figure 1.1. Most sources have only been recording tornado activity since 1950. The entire county is in a Zone IV wind zone according to the *Design Wind Speed for Community Shelters Map*. This wind zone

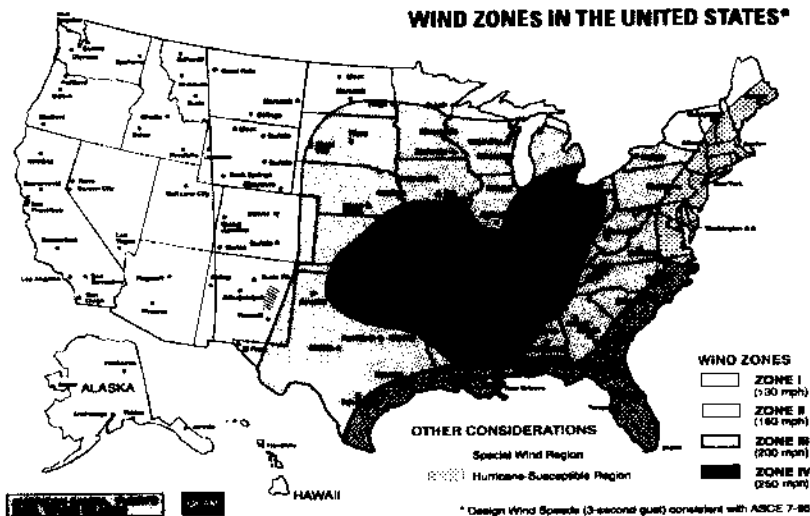


Figure 1.2 Wind zones in the United States

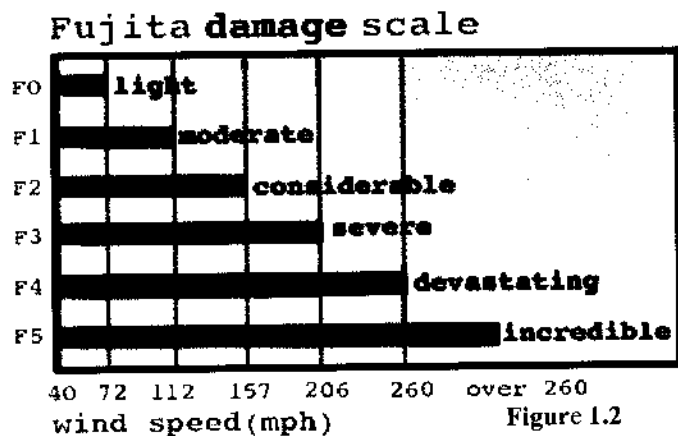
Figure 1.1

places Perry County in a category that could experience devastating tornadoes with 207-260 mph wind speeds. Such winds may cause catastrophic damage to well-constructed houses, structures with weak foundations would be blown off, and cars would be thrown like large missiles. With limited mountainous terrain to break up intense straight-line winds and tornadoes, the flat open areas that exist throughout the county are the most susceptible to damage.

While tornadoes are relatively short-lived in duration, they are intensely focused, making them one of the most destructive of the natural hazards. Ohio is positioned geographically on the eastern-most edge of what has come to be known as “tornado alley” and is no stranger to tornado sightings.

According to NOAA Event Records, Perry County has reported seven (7) tornadoes and 16 severe wind events between 1950 and 2003. According to a *NOAA Event Record* dated May 23, 2000, an F1 tornado touched down on Jackson Township Road 371 and moved east along County Route 9 (Pen Road). The slate roof of a house was ripped off and a modular home was shifted several inches off its concrete block foundation. Further east, the roof to a trailer was ripped off. On Palomino Road, the tornado destroyed a barn and garage.

The Fujita Damage scale is illustrated in Figure 1.2. The Fujita scale is a measure developed by Theodore Fujita of the University of Chicago to relate the speed of winds associated with tornadoes to the damage they cause.



TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Severe Wind - Tornadoes

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Residential	\$226,779,803.09	X 0.10 =	\$226,800.00		X 0.05 =	\$0.00	
Corning VFD	\$150,081.23	X 1.00 =	\$1,500.00	\$28,975.00	X 0.50 =	\$100.00	
Crooksville FD		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Hopewell TWP FD		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Junction City VFD	\$289,750.00	X 1.00 =	\$2,900.00	\$811,300.00	X 0.50 =	\$4,100.00	
Monday Creek TWP VFD	\$231,800.00	X 1.00 =	\$2,300.00	\$521,550.00	X 0.50 =	\$2,600.00	
New Lexington FD		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
New Straitsville VFD		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Shawnee VFD	\$33,611.00	X 1.00 =	\$300.00	\$359,290.00	X 0.50 =	\$1,800.00	
Somerset Reading TWP VFD		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Thornville Thorn TWP VFD		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Crooksville SD	\$38,464,063.32	X 1.00 =	\$384,600.00	\$6,021,783.85	X 0.50 =	\$30,100.00	
Crooksville ES		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Crooksville HS		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Crooksville MS		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Glenford ES	\$6,456,406.00	X 1.00 =	\$64,600.00	\$381,023.57	X 0.50 =	\$1,900.00	
Junction City ES		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Southern Local SD	\$32,452,000.00	X 1.00 =	\$324,500.00	\$8,113,000.00	X 0.50 =	\$40,600.00	
Millicreek ES		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Miller HS		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
Miller MS		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
New Lexington ES		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
New Lexington HS		X 1.00 =	\$0.00		X 0.50 =	\$0.00	
New Lexington MS		X 1.00 =	\$0.00		X 0.50 =	\$0.00	

Hazard: Severe Wind - Tornadoes

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Perry County Learning Center		1.00	\$0.00		0.50	\$0.00	
Sheridan HS	\$21,136,862.65	1.00	\$211,400.00	\$1,970,610.61	0.50	\$9,900.00	
Sheridan MS	\$14,604,518.44	1.00	\$146,000.00	\$1,487,381.79	0.50	\$7,400.00	
Somerset ES	\$6,527,856.56	1.00	\$65,300.00	\$513,000.06	0.50	\$2,600.00	
Thornville ES	\$6,443,082.67	1.00	\$64,400.00	\$422,796.25	0.50	\$2,100.00	
Somerset Post Office		1.00	\$0.00	\$11,590.00	0.50	\$100.00	
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	\$92,720.00	0.50	\$500.00	
Crooksville Post Office	\$1,135,820.00	1.00	\$11,400.00	\$243,390.00	0.50	\$1,200.00	
New Lexington Post Office		1.00	\$0.00		0.50	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	1.00	\$20,800.00	\$31,408.90	0.50	\$200.00	
Sunbridge Care & Rehabilitation for New Lexington							
Roads	\$2,607,750.00	1.00	\$26,100.00	\$579,500.00	0.50	\$2,900.00	
Railroads	\$3,471,638,466.00	0.00	\$0.00		0.00	\$0.00	
Bridges	\$213,017,709.60	0.00	\$0.00		0.00	\$0.00	
Crooksville Runway	\$43,060,906.50	0.00	\$0.00		0.00	\$0.00	
Perry County Runway	\$16,689,600.00	0.00	\$0.00		0.00	\$0.00	
Clum Runway	\$24,339,000.00	0.00	\$0.00		0.00	\$0.00	
Roberts Field Runway	\$11,126,400.00	0.00	\$0.00		0.00	\$0.00	
New Lexington City Police	\$19,471,200.00	0.00	\$0.00		0.00	\$0.00	
Crooksville Police Department		1.00	\$0.00	\$347,700.00	0.50	\$1,700.00	
Somerset Village PD and Village Hall		1.00	\$0.00		0.50	\$0.00	
Junction City Village Police	\$127,490.00	1.00	\$1,300.00	\$57,950.00	0.50	\$300.00	
Shawnee Village Police Department		1.00	\$0.00		0.50	\$0.00	

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Perry County Learning Center		1.00	\$0.00		0.50	\$0.00	
Sheridan HS	\$21,136,862.65	1.00	\$211,400.00	\$1,970,610.61	0.50	\$9,900.00	
Sheridan MS	\$14,604,518.44	1.00	\$146,000.00	\$1,487,381.79	0.50	\$7,400.00	
Somerset ES	\$6,527,856.56	1.00	\$65,300.00	\$513,000.06	0.50	\$2,600.00	
Thornville ES	\$6,443,082.67	1.00	\$64,400.00	\$422,796.25	0.50	\$2,100.00	
Somerset Post Office		1.00	\$0.00	\$11,590.00	0.50	\$100.00	
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	\$92,720.00	0.50	\$500.00	
Crooksville Post Office	\$1,135,820.00	1.00	\$11,400.00	\$243,390.00	0.50	\$1,200.00	
New Lexington Post Office		1.00	\$0.00		0.50	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	1.00	\$20,800.00	\$31,408.90	0.50	\$200.00	
Sunbridge Care & Rehabilitation for New Lexington							
Roads	\$2,607,750.00	1.00	\$26,100.00	\$579,500.00	0.50	\$2,900.00	
Railroads	\$3,471,638,466.00	0.00	\$0.00		0.00	\$0.00	
Bridges	\$213,017,709.60	0.00	\$0.00		0.00	\$0.00	
Crooksville Runway	\$43,060,906.50	0.00	\$0.00		0.00	\$0.00	
Perry County Runway	\$16,689,600.00	0.00	\$0.00		0.00	\$0.00	
Clum Runway	\$24,339,000.00	0.00	\$0.00		0.00	\$0.00	
Roberts Field Runway	\$11,126,400.00	0.00	\$0.00		0.00	\$0.00	
New Lexington City Police	\$19,471,200.00	0.00	\$0.00		0.00	\$0.00	
Crooksville Police Department		1.00	\$0.00	\$347,700.00	0.50	\$1,700.00	
Somerset Village PD and Village Hall		1.00	\$0.00		0.50	\$0.00	
Junction City Village Police	\$127,490.00	1.00	\$1,300.00	\$57,950.00	0.50	\$300.00	
Shawnee Village Police Department		1.00	\$0.00		0.50	\$0.00	

Hazard: Severe Wind - Tornadoes

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Thornville Village Police		X 1.00 =	\$0.00	
Shawnee Village Hall	\$41,724.00	X 1.00 =	\$400.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	X 1.00 =	\$12,700.00	
Shawnee Water Treatment Plant	\$17,385.00	X 1.00 =	\$200.00	
Clayton Township	\$52,039.10	X 1.00 =	\$500.00	
Roseville Village Water Works	\$1,738,500.00	X 1.00 =	\$17,400.00	
Roseville Village FD		X 1.00 =	\$0.00	
Roseville Post Office		X 1.00 =	\$0.00	
Crooksville Sanitation Department	\$289,750.00	X 1.00 =	\$2,900.00	
Crooksville Water Department	\$3,245,200.00	X 1.00 =	\$32,500.00	
Crooksville Village	\$1,159,000.00	X 1.00 =	\$11,600.00	
Junction City Waste Water Treatment Plant		X 1.00 =	\$0.00	
Junction City Water Works		X 1.00 =	\$0.00	
Junction City Village		X 1.00 =	\$0.00	
New Straitsville Village	\$2,883,957.00	X 1.00 =	\$28,800.00	
Saltlick Township		X 1.00 =	\$0.00	
Corning Village	\$140,837.04	X 1.00 =	\$1,400.00	
Pleasant Township	\$171,300.20	X 1.00 =	\$1,700.00	
Corning Post Office		X 1.00 =	\$0.00	
Glenford FD	\$231,800.00	X 1.00 =	\$2,300.00	
Glenford Hopewell Township	\$582,629.30	X 1.00 =	\$5,800.00	
Glenford Village		X 1.00 =	\$0.00	
Somerset Waste Water Treatment Plant		X 1.00 =	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X 0.50 =	\$0.00		
\$23,180.00	X 0.50 =	\$100.00		
	X 0.50 =	\$0.00		
	X 0.50 =	\$0.00		
\$3,477.00	X 0.50 =	\$0.00		
\$579,500.00	X 0.50 =	\$2,900.00		
\$927,200.00	X 0.50 =	\$4,600.00		
\$28,975.00	X 0.50 =	\$100.00		
\$57,950.00	X 0.50 =	\$300.00		
\$1,176,385.00	X 0.50 =	\$5,900.00		
\$173,850.00	X 0.50 =	\$900.00		
	X 0.50 =	\$0.00		
	X 0.50 =	\$0.00		
\$35,349.50	X 0.50 =	\$200.00		
	X 0.50 =	\$0.00		
\$53,314.00	X 0.50 =	\$300.00		
\$128,649.00	X 0.50 =	\$600.00		
\$23,180.00	X 0.50 =	\$100.00		
\$579,500.00	X 0.50 =	\$2,900.00		
\$77,653.00	X 0.50 =	\$400.00		
	X 0.50 =	\$0.00		
	X 0.50 =	\$0.00		

Hazard: Severe Wind - Tornadoes

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Somerset Water Treatment Plant		1.00	\$0.00	=
Somerset-Reading Township		1.00	\$0.00	=
Village of Thornville Water Well and Tower	\$637,450.00	1.00	\$6,400.00	=
Village of Thornville Sewer Plant	\$278,160.00	1.00	\$2,800.00	=
Thornville Post Office	\$52,155.00	1.00	\$500.00	=
Thornville Village	\$347,700.00	1.00	\$3,500.00	=
New Lexington	\$25,845,700.00	1.00	\$258,500.00	=
New Lexington Water Works		1.00	\$0.00	=
New Lexington Waste Water Treatment Plant		1.00	\$0.00	=
Perry County Sheriff		1.00	\$0.00	=
Perry County Court House	\$3,349,223.73	1.00	\$33,500.00	=
Madison TWP	\$55,632.00	1.00	\$600.00	=
Monday Creek TWP	\$521,550.00	1.00	\$5,200.00	=
Total Loss to Structure			\$1,985,700.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	X	=		
	X	0.50	\$0.00	=
	X	0.50	\$0.00	=
\$1,043,100.00	X	0.50	\$5,200.00	=
\$869,250.00	X	0.50	\$4,300.00	=
\$23,180.00	X	0.50	\$100.00	=
\$579,500.00	X	0.50	\$2,900.00	=
\$17,385,000.00	X	0.50	\$86,900.00	=
	X	0.50	\$0.00	=
	X	0.50	\$0.00	=
\$1,159,000.00	X	0.50	\$5,800.00	=
\$624,228.13	X	0.50	\$3,100.00	=
\$85,766.00	X	0.50	\$400.00	=
\$92,720.00	X	0.50	\$500.00	=
Total Loss to Contents			\$238,600.00	

Structure Use and Function Loss (Task A.3.) Severe Wind

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4)	=	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		X		+		X	0	=	\$0.00	\$0.00
Perry County Learning Center		X		+		X	0	=	\$0.00	\$0.00
Sheridan HS	\$1,587.83	X		+	\$1,587.83	X	0	=	\$0.00	\$221,300.00
Sheridan MS	\$1,274.90	X		+	\$1,274.90	X	0	=	\$0.00	\$153,400.00
Somerset ES	\$788.12	X		+	\$788.12	X	0	=	\$0.00	\$67,900.00
Thornville ES	\$788.12	X		+	\$788.12	X	0	=	\$0.00	\$66,500.00
Somerset Post Office		X	0	+		X	0	=	\$0.00	\$100.00
Shawnee Post Office	\$278.16	X	0	+	\$278.16	X	0	=	\$0.00	\$2,800.00
Crooksville Post Office	\$892.43	X	0	+	\$892.43	X	0	=	\$0.00	\$12,600.00
New Lexington Post Office		X	0	+		X	0	=	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	X		+	\$4,160.91	X	0	=	\$0.00	\$21,000.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	X		+	\$2,225.28	X	0	=	\$0.00	\$29,000.00
Roads		X		+		X	0	=	\$0.00	\$0.00
Railroads		X		+		X	0	=	\$0.00	\$0.00
Bridges		X		+		X	0	=	\$0.00	\$0.00
Crooksville Runway		X		+		X	0	=	\$0.00	\$0.00
Perry County Runway		X		+		X	0	=	\$0.00	\$0.00
Clum Runway		X		+		X	0	=	\$0.00	\$0.00
Roberts Field Runway		X		+		X	0	=	\$0.00	\$0.00
New Lexington City Police		X	0	+		X	0	=	\$0.00	\$0.00
Crooksville Police Department	\$556.32	X	0	+	\$556.32	X	0	=	\$0.00	\$1,700.00
Somerset Village PD and Village Hall		X	0	+		X	0	=	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Severe Wind

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$1,600.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96		\$1,668.96	0	\$0.00	\$500.00
Shawnee Waste Water Treatment Plant	\$509.96		\$509.96	0	\$0.00	\$12,700.00
Shawnee Water Treatment Plant	\$336.11		\$336.11	0	\$0.00	\$200.00
Clayton Township	\$533.14		\$533.14	0	\$0.00	\$500.00
Roseville Village Water Works	\$1,031.51		\$1,031.51	0	\$0.00	\$20,300.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$4,600.00
Roseville Post Office		0		0	\$0.00	\$100.00
Crooksville Sanitation Department				0	\$0.00	\$3,200.00
Crooksville Water Department				0	\$0.00	\$38,400.00
Crooksville Village	\$7,939.15		\$7,939.15	0	\$0.00	\$12,500.00
Junction City Waste Water Treatment Plant				0	\$0.00	\$0.00
Junction City Water Works				0	\$0.00	\$0.00
Junction City Village				0	\$0.00	\$0.00
New Straitsville Village	\$950.38		\$950.38	0	\$0.00	\$29,000.00
Saltlick Township				0	\$0.00	\$0.00
Coming Village				0	\$0.00	\$1,700.00
Pleasant Township	\$788.12		\$788.12	0	\$0.00	\$2,300.00
Corning Post Office		0		0	\$0.00	\$100.00

Structure Use and Function Loss (Task A.3.) Severe Wind

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (Step 4) (# of days)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4)	=	Structure Use & Function Loss (\$)
Glenford FD		X	0	+		X	0	=	\$0.00
Glenford Hopewell Township	\$1,448.75	X		+	\$1,448.75	X	0	=	\$0.00
Glenford Village		X		+		X	0	=	\$0.00
Somerset Waste Water Treatment Plant		X		+		X	0	=	\$0.00
Somerset Water Treatment Plant		X		+		X	0	=	\$0.00
Somerset-Reading Township		X		+		X	0	=	\$0.00
Village of Thornville Water Well and Tower	\$730.17	X		+	\$730.17	X	0	=	\$0.00
Village of Thornville Sewer Plant	\$764.94	X		+	\$764.94	X	0	=	\$0.00
Thornville Post Office		X	0	+		X	0	=	\$0.00
Thornville Village	\$996.74	X		+	\$996.74	X	0	=	\$0.00
New Lexington	\$11,114.81	X		+	\$11,114.81	X	0	=	\$0.00
New Lexington Water Works		X		+		X	0	=	\$0.00
New Lexington Waste Water Treatment Plant		X		+		X	0	=	\$0.00
Perry County Sheriff	\$2,862.73	X	0	+	\$2,862.73	X	0	=	\$0.00
Perry County Court House		X		+		X	0	=	\$0.00
Madison TWP	\$625.86	X		+	\$625.86	X	0	=	\$0.00
Monday Creek TWP	\$440.32	X		+	\$440.32	X	0	=	\$0.00
Total Loss to Structure Use & Function									\$0.00

Structure Loss + Content Loss + Function Loss (\$)	\$5,200.00
	\$6,200.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$0.00
	\$11,600.00
	\$7,100.00
	\$600.00
	\$6,400.00
	\$345,400.00
	\$0.00
	\$0.00
	\$5,800.00
	\$36,600.00
	\$1,000.00
	\$5,700.00
	\$2,224,300.00

Severe Winter Storm and Sleet



One or more of the following characterizes a winter storm: heavy snow, ice storms, strong winds, extreme cold, and, in certain areas, coastal flooding and beach erosion.

Several methods of research identified winter storms as a hazard in Perry County, including reviews of newspaper coverage, reviews of past disaster declarations, and interviews with local officials. General winter storm information was also gathered at http://www.nfpa.org/Education/Consumers_and_Families/Fire_Safety_Information/Talking/About_Disaster/Winter_Storm/winter_storm.html, as well as the NOAA web site, www.noaa.gov.

Perry County is highly vulnerable to the wide-ranging effects of snowstorms, blizzards, ice storms, and severe cold snaps. A severe winter storm could affect the entire county at the same time, virtually bringing all county operations to a stand still. This type of hazard creates a difficult emergency response effort due to adverse road conditions that impede or prohibit vehicle movement.

Research indicates that all of Perry County is equally susceptible to winter storms. Driving is treacherous during winter storms as roadways freeze and become covered with snow and slush. During severe winter storms, heavy snow may cause property damage and power outages. Also, the aforementioned adverse driving conditions may lead to additional property damage. According to a *FEMA Winter Storm Fact Sheet*, the leading cause of death during winter storms is from automobile or other transportation accidents. Roads are sometimes blocked, stranding some rural residents from the incorporated areas where medical and other emergency services are centered. Heavy snowfall and blizzards can also trap motorists in their cars. Attempting to walk for help in a blizzard can be a deadly decision; disorientation and confusion come very quickly in blowing snow.

Health hazards generated from severe winter storms include frostbite and hypothermia. Frostbite is a severe reaction to cold exposure that can permanently damage its victims. A loss of feeling and a white or pale appearance in fingers, toes, nose, and ear lobes are symptoms of frostbite.

Hypothermia is a condition brought on when the body temperature drops to less than 55 degrees Fahrenheit. Symptoms of hypothermia include uncontrollable shivering, slow speech, memory lapses, frequent stumbling, drowsiness, and exhaustion.

Research indicates that winter storms are the third leading weather threat in Ohio.

There have been 44 recorded severe winter storms events in Perry County between 1950 and 2003, according to the NOAA Event Record database.

To see incidences of winter storms from 2005 to 2011, refer to *Volume 3 Historical Hazard Event Research 2005-2011*.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)			
Residential	\$226,779,803.09	0.10	\$226,800.00		X	\$0.00			
Corning VFD	\$150,081.23	1.00	\$1,500.00	\$28,975.00	X	\$100.00			
Crooksville FD		1.00	\$0.00		X	\$0.00			
Hopewell TWP FD		1.00	\$0.00		X	\$0.00			
Junction City VFD	\$289,750.00	1.00	\$2,900.00	\$811,300.00	X	\$4,100.00			
Monday Creek TWP VFD	\$231,800.00	1.00	\$2,300.00	\$521,550.00	X	\$2,600.00			
New Lexington FD		1.00	\$0.00		X	\$0.00			
New Straitsville VFD		1.00	\$0.00		X	\$0.00			
Shawnee VFD	\$33,611.00	1.00	\$300.00	\$359,290.00	X	\$1,800.00			
Somerset Reading TWP FD		1.00	\$0.00		X	\$0.00			
Thornville Thorn TWP VFD		1.00	\$0.00		X	\$0.00			
Crooksville SD	\$38,464,063.32	1.00	\$384,600.00	\$6,021,783.85	X	\$30,100.00			
Crooksville ES		1.00	\$0.00		X	\$0.00			
Crooksville HS		1.00	\$0.00		X	\$0.00			
Crooksville MS		1.00	\$0.00		X	\$0.00			
Glenford ES	\$6,456,406.53	1.00	\$64,600.00	\$381,023.57	X	\$1,900.00			
Junction City ES		1.00	\$0.00		X	\$0.00			
Southern Local SD	\$32,452,000.00	1.00	\$324,500.00	\$8,113,000.00	X	\$40,600.00			
Millcreek ES		1.00	\$0.00		X	\$0.00			
Miller HS		1.00	\$0.00		X	\$0.00			
Miller MS		1.00	\$0.00		X	\$0.00			
New Lexington ES		1.00	\$0.00		X	\$0.00			
New Lexington HS		1.00	\$0.00		X	\$0.00			
New Lexington MS		1.00	\$0.00		X	\$0.00			

Hazard: Severe Winter Storm

Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Contents (\$)	Loss to Contents (\$)
Perry County Learning Center		1.00	\$0.00	\$0.00
Sheridan HS	\$21,136,862.65	1.00	\$211,400.00	\$9,900.00
Sheridan MS	\$14,604,518.44	1.00	\$146,000.00	\$7,400.00
Somerset ES	\$6,527,856.56	1.00	\$65,300.00	\$2,600.00
Thornville ES	\$6,443,082.67	1.00	\$64,400.00	\$2,100.00
Somerset Post Office		1.00	\$0.00	\$100.00
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	\$500.00
Crooksville Post Office	\$1,135,820.00	1.00	\$11,400.00	\$1,200.00
New Lexington Post Office		1.00	\$0.00	\$0.00
Somerset Healthcare Center	\$2,084,411.66	1.00	\$20,800.00	\$200.00
Sunbridge Care & Rehabilitation for New Lexington				
Roads	\$2,607,750.00	1.00	\$26,100.00	\$2,900.00
Railroads	\$3,471,638,466.00	0.10	\$3,471,600.00	\$0.00
Bridges	\$213,017,709.60	0.00	\$0.00	\$0.00
Crooksville Runway	\$43,060,906.50	0.10	\$43,100.00	\$0.00
Perry County Runway	\$16,689,600.00	0.10	\$16,700.00	\$0.00
Clum Runway	\$24,339,000.00	0.10	\$24,300.00	\$0.00
Roberts Field Runway	\$11,126,400.00	0.10	\$11,100.00	\$0.00
New Lexington City Police	\$19,471,200.00	0.10	\$19,500.00	\$0.00
Crooksville Police Department		1.00	\$0.00	\$0.00
Somerset Village PD and Village Hall		1.00	\$0.00	\$0.00
Junction City Village Police	\$127,490.00	1.00	\$1,300.00	\$300.00
Shawnee Village Police Department		1.00	\$0.00	\$0.00
Thornville Village Police		1.00	\$0.00	\$0.00

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Loss to Contents (\$)
Perry County Learning Center		1.00	\$0.00	\$0.00
Sheridan HS	\$21,136,862.65	1.00	\$211,400.00	\$9,900.00
Sheridan MS	\$14,604,518.44	1.00	\$146,000.00	\$7,400.00
Somerset ES	\$6,527,856.56	1.00	\$65,300.00	\$2,600.00
Thornville ES	\$6,443,082.67	1.00	\$64,400.00	\$2,100.00
Somerset Post Office		1.00	\$0.00	\$100.00
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	\$500.00
Crooksville Post Office	\$1,135,820.00	1.00	\$11,400.00	\$1,200.00
New Lexington Post Office		1.00	\$0.00	\$0.00
Somerset Healthcare Center	\$2,084,411.66	1.00	\$20,800.00	\$200.00
Sunbridge Care & Rehabilitation for New Lexington				
Roads	\$2,607,750.00	1.00	\$26,100.00	\$2,900.00
Railroads	\$3,471,638,466.00	0.10	\$3,471,600.00	\$0.00
Bridges	\$213,017,709.60	0.00	\$0.00	\$0.00
Crooksville Runway	\$43,060,906.50	0.10	\$43,100.00	\$0.00
Perry County Runway	\$16,689,600.00	0.10	\$16,700.00	\$0.00
Clum Runway	\$24,339,000.00	0.10	\$24,300.00	\$0.00
Roberts Field Runway	\$11,126,400.00	0.10	\$11,100.00	\$0.00
New Lexington City Police	\$19,471,200.00	0.10	\$19,500.00	\$0.00
Crooksville Police Department		1.00	\$0.00	\$0.00
Somerset Village PD and Village Hall		1.00	\$0.00	\$0.00
Junction City Village Police	\$127,490.00	1.00	\$1,300.00	\$300.00
Shawnee Village Police Department		1.00	\$0.00	\$0.00
Thornville Village Police		1.00	\$0.00	\$0.00

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Shawnee Village Hall	\$41,724.00	1.00	\$400.00	\$23,180.00	0.50	\$100.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.00	\$12,700.00		0.50	\$0.00	
Shawnee Water Treatment Plant	\$17,385.00	1.00	\$200.00		0.50	\$0.00	
Clayton Township	\$52,039.10	1.00	\$500.00	\$3,477.00	0.50	\$0.00	
Roseville Village Water Works	\$1,738,500.00	1.00	\$17,400.00	\$579,500.00	0.50	\$2,900.00	
Roseville Village FD		1.00	\$0.00	\$927,200.00	0.50	\$4,600.00	
Roseville Post Office		1.00	\$0.00	\$28,975.00	0.50	\$100.00	
Crooksville Sanitation Department	\$289,750.00	1.00	\$2,900.00	\$57,950.00	0.50	\$300.00	
Crooksville Water Department	\$3,245,200.00	1.00	\$32,500.00	\$1,176,385.00	0.50	\$5,900.00	
Crooksville Village	\$1,159,000.00	1.00	\$11,600.00	\$173,850.00	0.50	\$900.00	
Junction City Waste Water Treatment Plant		1.00	\$0.00		0.50	\$0.00	
Junction City Water Works		1.00	\$0.00		0.50	\$0.00	
Junction City Village		1.00	\$0.00		0.50	\$0.00	
New Straitsville Village	\$2,883,957.00	1.00	\$28,800.00	\$35,349.50	0.50	\$200.00	
Saltlick Township		1.00	\$0.00		0.50	\$0.00	
Corning Village	\$140,837.04	1.00	\$1,400.00	\$53,314.00	0.50	\$300.00	
Pleasant Township	\$171,300.20	1.00	\$1,700.00	\$128,649.00	0.50	\$600.00	
Corning Post Office		1.00	\$0.00	\$23,180.00	0.50	\$100.00	
Glenford FD	\$231,800.00	1.00	\$2,300.00	\$579,500.00	0.50	\$2,900.00	
Glenford Hopewell Township	\$582,629.00	1.00	\$5,800.00	\$77,653.00	0.50	\$400.00	
Glenford Village		1.00	\$0.00		0.50	\$0.00	
Somerset Waste Water Treatment Plant		1.00	\$0.00		0.50	\$0.00	
Somerset Water Treatment Plant		1.00	\$0.00		0.50	\$0.00	

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Shawnee Village Hall	\$41,724.00	1.00	\$400.00	\$23,180.00	0.50	\$100.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.00	\$12,700.00		0.50	\$0.00	
Shawnee Water Treatment Plant	\$17,385.00	1.00	\$200.00		0.50	\$0.00	
Clayton Township	\$52,039.10	1.00	\$500.00	\$3,477.00	0.50	\$0.00	
Roseville Village Water Works	\$1,738,500.00	1.00	\$17,400.00	\$579,500.00	0.50	\$2,900.00	
Roseville Village FD		1.00	\$0.00	\$927,200.00	0.50	\$4,600.00	
Roseville Post Office		1.00	\$0.00	\$28,975.00	0.50	\$100.00	
Crooksville Sanitation Department	\$289,750.00	1.00	\$2,900.00	\$57,950.00	0.50	\$300.00	
Crooksville Water Department	\$3,245,200.00	1.00	\$32,500.00	\$1,176,385.00	0.50	\$5,900.00	
Crooksville Village	\$1,159,000.00	1.00	\$11,600.00	\$173,850.00	0.50	\$900.00	
Junction City Waste Water Treatment Plant		1.00	\$0.00		0.50	\$0.00	
Junction City Water Works		1.00	\$0.00		0.50	\$0.00	
Junction City Village		1.00	\$0.00		0.50	\$0.00	
New Straitsville Village	\$2,883,957.00	1.00	\$28,800.00	\$35,349.50	0.50	\$200.00	
Saltlick Township		1.00	\$0.00		0.50	\$0.00	
Corning Village	\$140,837.04	1.00	\$1,400.00	\$53,314.00	0.50	\$300.00	
Pleasant Township	\$171,300.20	1.00	\$1,700.00	\$128,649.00	0.50	\$600.00	
Corning Post Office		1.00	\$0.00	\$23,180.00	0.50	\$100.00	
Glenford FD	\$231,800.00	1.00	\$2,300.00	\$579,500.00	0.50	\$2,900.00	
Glenford Hopewell Township	\$582,629.00	1.00	\$5,800.00	\$77,653.00	0.50	\$400.00	
Glenford Village		1.00	\$0.00		0.50	\$0.00	
Somerset Waste Water Treatment Plant		1.00	\$0.00		0.50	\$0.00	
Somerset Water Treatment Plant		1.00	\$0.00		0.50	\$0.00	

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Somerset-Reading Township		X 1.00 =	\$0.00	
Village of Thornville Water Well and Tower	\$637,450.00	X 1.00 =	\$6,400.00	
Village of Thornville Sewer Plant	\$278,160.00	X 1.00 =	\$2,800.00	
Thornville Post Office	\$52,155.00	X 1.00 =	\$500.00	
Thornville Village	\$347,700.00	X 1.00 =	\$3,500.00	
New Lexington	\$25,845,700.00	X 1.00 =	\$258,500.00	
New Lexington Water Works		X 1.00 =	\$0.00	
New Lexington Waste Water Treatment Plant		X 1.00 =	\$0.00	
Perry County Sheriff		X 1.00 =	\$0.00	
Perry County Court House	\$3,349,223.73	X 1.00 =	\$33,500.00	
Madison TWP	\$55,632.00	X 1.00 =	\$600.00	
Monday Creek TWP	\$521,550.00	X 1.00 =	\$5,200.00	
Total Loss to Structure			\$5,572,000.00	

Contents of Loss (Task A.2.)			
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
	X 0.50 =	\$0.00	
\$1,043,100.00	X 0.50 =	\$5,200.00	
\$869,250.00	X 0.50 =	\$4,300.00	
\$23,180.00	X 0.50 =	\$100.00	
\$579,500.00	X 0.50 =	\$2,900.00	
\$17,385,000.00	X 0.50 =	\$86,900.00	
	X 0.50 =	\$0.00	
	X 0.50 =	\$0.00	
\$1,159,000.00	X 0.50 =	\$5,800.00	
\$624,228.13	X 0.50 =	\$3,100.00	
\$85,766.00	X 0.50 =	\$400.00	
\$92,720.00	X 0.50 =	\$500.00	
Total Loss to Contents		\$238,600.00	

ESTIMATE LOSSES

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)			
Residential	\$226,779,803.09	0.10	\$226,800.00			\$0.00			
Corning VFD	\$150,081.23	1.00	\$1,500.00	\$28,975.00	0.50	\$100.00			
Crooksville FD		1.00	\$0.00		0.50	\$0.00			
Hopewell TWP FD		1.00	\$0.00		0.50	\$0.00			
Junction City VFD	\$289,750.00	1.00	\$2,900.00	\$811,300.00	0.50	\$4,100.00			
Monday Creek TWP VFD	\$231,800.00	1.00	\$2,300.00	\$521,550.00	0.50	\$2,600.00			
New Lexington FD		1.00	\$0.00		0.50	\$0.00			
New Straitsville VFD		1.00	\$0.00		0.50	\$0.00			
Shawnee VFD	\$33,611.00	1.00	\$300.00	\$359,290.00	0.50	\$1,800.00			
Somerset Reading TWP FD		1.00	\$0.00		0.50	\$0.00			
Thornville Thorn TWP VFD		1.00	\$0.00		0.50	\$0.00			
Crooksville SD	\$38,464,063.32	1.00	\$384,600.00	\$6,021,783.85	0.50	\$30,100.00			
Crooksville ES		1.00	\$0.00		0.50	\$0.00			
Crooksville HS		1.00	\$0.00		0.50	\$0.00			
Crooksville MS		1.00	\$0.00		0.50	\$0.00			
Glenford ES	\$6,456,406.53	1.00	\$64,600.00	\$381,023.57	0.50	\$1,900.00			
Junction City ES		1.00	\$0.00		0.50	\$0.00			
Southern Local SD	\$32,452,000.00	1.00	\$324,500.00	\$8,113,000.00	0.50	\$40,600.00			
Millcreek ES		1.00	\$0.00		0.50	\$0.00			
Miller HS		1.00	\$0.00		0.50	\$0.00			
Miller MS		1.00	\$0.00		0.50	\$0.00			
New Lexington ES		1.00	\$0.00		0.50	\$0.00			
New Lexington HS		1.00	\$0.00		0.50	\$0.00			
New Lexington MS		1.00	\$0.00		0.50	\$0.00			

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Perry County Learning Center		1.00	\$0.00	
Sheridan HS	\$21,136,862.65	1.00	\$211,400.00	
Sheridan MS	\$14,604,518.44	1.00	\$146,000.00	
Somerset ES	\$6,527,856.56	1.00	\$65,300.00	
Thornville ES	\$6,443,082.67	1.00	\$64,400.00	
Somerset Post Office		1.00	\$0.00	
Shawnee Post Office	\$231,800.00	1.00	\$2,300.00	
Crooksville Post Office	\$1,135,820.00	1.00	\$11,400.00	
New Lexington Post Office		1.00	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	1.00	\$20,800.00	
Sunbridge Care & Rehabilitation for New Lexington				
	\$2,607,750.00	1.00	\$26,100.00	
Roads	\$3,471,638,466.00	0.10	\$3,471,600.00	
Railroads	\$213,017,709.60	0.00	\$0.00	
Bridges	\$43,060,906.50	0.10	\$43,100.00	
Crooksville Runway	\$16,689,600.00	0.10	\$16,700.00	
Perry County Runway	\$24,339,000.00	0.10	\$24,300.00	
Clum Runway	\$11,126,400.00	0.10	\$11,100.00	
Roberts Field Runway	\$19,471,200.00	0.10	\$19,500.00	
New Lexington City Police		1.00	\$0.00	
Crooksville Police Department		1.00	\$0.00	
Somerset Village PD and Village Hall		1.00	\$0.00	
Junction City Village Police	\$127,490.00	1.00	\$1,300.00	
Shawnee Village Police Department		1.00	\$0.00	
Thornville Village Police		1.00	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	0.50	\$0.00		
\$1,970,610.61	0.50	\$9,900.00		
\$1,487,381.79	0.50	\$7,400.00		
\$513,000.60	0.50	\$2,600.00		
\$422,796.25	0.50	\$2,100.00		
\$11,590.00	0.50	\$100.00		
\$92,720.00	0.50	\$500.00		
\$243,390.00	0.50	\$1,200.00		
	0.50	\$0.00		
\$31,408.90	0.50	\$200.00		
\$579,500.00	0.50	\$2,900.00		
	0.05	\$0.00		
	0.00	\$0.00		
	0.05	\$0.00		
	0.05	\$0.00		
	0.05	\$0.00		
	0.05	\$0.00		
	0.05	\$0.00		
	0.50	\$0.00		
\$347,700.00	0.50	\$1,700.00		
	0.50	\$0.00		
\$57,950.00	0.50	\$300.00		
	0.50	\$0.00		
	0.50	\$0.00		

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Shawnee Village Hall	\$41,724.00	1.00	\$400.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	1.00	\$12,700.00	
Shawnee Water Treatment Plant	\$17,385.00	1.00	\$200.00	
Clayton Township	\$52,039.10	1.00	\$500.00	
Roseville Village Water Works	\$1,738,500.00	1.00	\$17,400.00	
Roseville Village FD		1.00	\$0.00	
Roseville Post Office		1.00	\$0.00	
Crooksville Sanitation Department	\$289,750.00	1.00	\$2,900.00	
Crooksville Water Department	\$3,245,200.00	1.00	\$32,500.00	
Crooksville Village	\$1,159,000.00	1.00	\$11,600.00	
Junction City Waste Water Treatment Plant		1.00	\$0.00	
Junction City Water Works		1.00	\$0.00	
Junction City Village		1.00	\$0.00	
New Straitsville Village	\$2,883,957.00	1.00	\$28,800.00	
Saltlick Township		1.00	\$0.00	
Corning Village	\$140,837.04	1.00	\$1,400.00	
Pleasant Township	\$171,300.20	1.00	\$1,700.00	
Corning Post Office		1.00	\$0.00	
Glenford FD	\$231,800.00	1.00	\$2,300.00	
Glenford Hopewell Township	\$582,629.00	1.00	\$5,800.00	
Glenford Village		1.00	\$0.00	
Somerset Waste Water Treatment Plant		1.00	\$0.00	
Somerset Water Treatment Plant		1.00	\$0.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
\$23,180.00	0.50	\$100.00		
	0.50	\$0.00		
\$3,477.00	0.50	\$0.00		
\$579,500.00	0.50	\$2,900.00		
\$927,200.00	0.50	\$4,600.00		
\$28,975.00	0.50	\$100.00		
\$57,950.00	0.50	\$300.00		
\$1,176,385.00	0.50	\$5,900.00		
\$173,850.00	0.50	\$900.00		
	0.50	\$0.00		
	0.50	\$0.00		
	0.50	\$0.00		
\$35,349.50	0.50	\$200.00		
	0.50	\$0.00		
\$53,314.00	0.50	\$300.00		
\$128,649.00	0.50	\$600.00		
\$23,180.00	0.50	\$100.00		
\$579,500.00	0.50	\$2,900.00		
\$77,653.00	0.50	\$400.00		
	0.50	\$0.00		
	0.50	\$0.00		
	0.50	\$0.00		
	0.50	\$0.00		

Hazard: Severe Winter Storm

Structure Loss (Task A.1.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	
Somerset-Reading Township		1.00	\$0.00	
Village of Thornville Water Well and Tower	\$637,450.00	1.00	\$6,400.00	
Village of Thornville Sewer Plant	\$278,160.00	1.00	\$2,800.00	
Thornville Post Office	\$52,155.00	1.00	\$500.00	
Thornville Village	\$347,700.00	1.00	\$3,500.00	
New Lexington	\$25,845,700.00	1.00	\$258,500.00	
New Lexington Water Works		1.00	\$0.00	
New Lexington Waste Water Treatment Plant		1.00	\$0.00	
Perry County Sheriff		1.00	\$0.00	
Perry County Court House	\$3,349,223.73	1.00	\$33,500.00	
Madison TWP	\$55,632.00	1.00	\$600.00	
Monday Creek TWP	\$521,550.00	1.00	\$5,200.00	
Total Loss to Structure			\$5,572,000.00	

Contents of Loss (Task A.2.)				
Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)		
	0.50	\$0.00		
\$1,043,100.00	0.50	\$5,200.00		
\$869,250.00	0.50	\$4,300.00		
\$23,180.00	0.50	\$100.00		
\$579,500.00	0.50	\$2,900.00		
\$17,385,000.00	0.50	\$86,900.00		
	0.50	\$0.00		
	0.50	\$0.00		
\$1,159,000.00	0.50	\$5,800.00		
\$624,228.13	0.50	\$3,100.00		
\$85,766.00	0.50	\$400.00		
\$92,720.00	0.50	\$500.00		
Total Loss to Contents		\$238,600.00		

Structure Use and Function Loss (Task A.3.) Severe Winterstorm									
Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)			
Residential		2		0	\$0.00	\$226,800.00			
Corning VFD		0		0	\$0.00	\$1,600.00			
Crooksville FD		0		0	\$0.00	\$0.00			
Hopewell TWP FD		0		0	\$0.00	\$0.00			
Junction City VFD	\$104.31	0	\$104.31	0	\$0.00	\$7,000.00			
Monday Creek TWP VFD		0		0	\$0.00	\$4,900.00			
New Lexington FD		0		0	\$0.00	\$0.00			
New Straitsville VFD		0		0	\$0.00	\$0.00			
Shawnee VFD	\$92.72	0	\$92.72	0	\$0.00	\$2,100.00			
Somersets Reading TWP VFD		0		0	\$0.00	\$0.00			
Thornville Thorn TWP VFD		0		0	\$0.00	\$0.00			
Crooksville SD	\$40,646.13	1	\$40,646.13	0	\$40,650.00	\$455,350.00			
Crooksville ES		1		0	\$0.00	\$0.00			
Crooksville HS		1		0	\$0.00	\$0.00			
Crooksville MS		1		0	\$0.00	\$0.00			
Glenford ES	\$788.12	1	\$788.12	0	\$790.00	\$67,290.00			
Junction City ES		1		0	\$0.00	\$0.00			
Southern Local SD	\$23,817.45	1	\$23,817.45	0	\$23,820.00	\$388,920.00			
Millcreek ES		1		0	\$0.00	\$0.00			
Miller HS		1		0	\$0.00	\$0.00			
Miller MS		1		0	\$0.00	\$0.00			
New Lexington ES		1		0	\$0.00	\$0.00			
New Lexington HS		1		0	\$0.00	\$0.00			
New Lexington MS		1		0	\$0.00	\$0.00			
Perry County Learning Center		1		0	\$0.00	\$0.00			

Structure Use and Function Loss (Task A.3.) Severe Winterstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00	\$222,890.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00	\$154,670.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00	\$68,690.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00	\$67,290.00
Somerset Post Office		0		0	\$0.00	\$100.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$2,800.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$12,600.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	1	\$4,160.81	0	\$4,160.00	\$25,160.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	1	\$2,225.28	0	\$2,230.00	\$31,230.00
Roads		1		0	\$0.00	\$3,471,600.00
Railroads		1		0	\$0.00	\$0.00
Bridges		1		0	\$0.00	\$43,100.00
Crooksville Runway		1		0	\$0.00	\$16,700.00
Perry County Runway		1		0	\$0.00	\$24,300.00
Clum Runway		11		0	\$0.00	\$11,100.00
Roberts Field Runway		1		0	\$0.00	\$19,500.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$1,700.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00
Junction City Village Police		0		0	\$0.00	\$1,600.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00

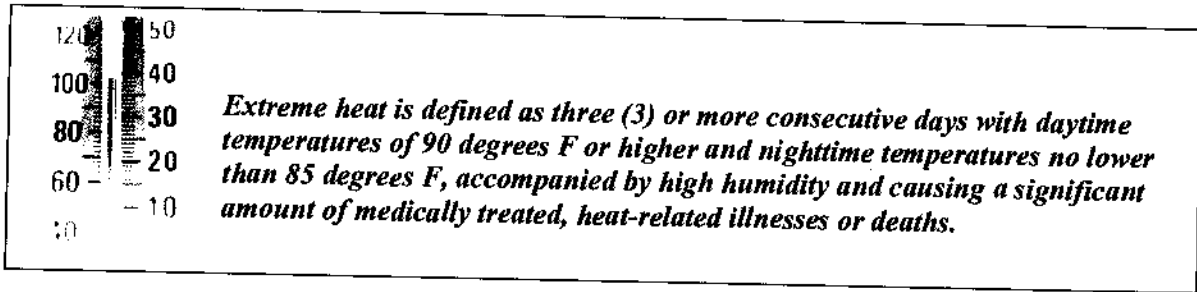
Structure Use and Function Loss (Task A.3.) Severe Winterstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Shawnee Village Hall	\$1,668.96	1	\$1,668.96	0	\$1,670.00	\$2,170.00
Shawnee Waste Water Treatment Plant	\$509.96	1	\$509.96	0	\$510.00	\$13,210.00
Shawnee Water Treatment Plant	\$336.11	1	\$336.11	0	\$340.00	\$540.00
Clayton Township	\$533.14	1	\$533.14	0	\$530.00	\$1,030.00
Roseville Village Water Works	\$1,031.51	1	\$1,031.51	0	\$1,030.00	\$21,330.00
Roseville Village FD	\$100.00	0	\$100.00	0	\$0.00	\$4,600.00
Roseville Post Office		0		0	\$0.00	\$100.00
Crooksville Sanitation Department		1		0	\$0.00	\$3,200.00
Crooksville Water Department		1		0	\$0.00	\$38,400.00
Crooksville Village	\$7,939.15	1	\$7,939.15	0	\$7,940.00	\$20,440.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		1		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	1	\$950.38	0	\$950.00	\$29,950.00
Sattlick Township		1		0	\$0.00	\$0.00
Corning Village		1		0	\$0.00	\$1,700.00
Pleasant Township	\$788.12	1	\$788.12	0	\$790.00	\$3,090.00
Corning Post Office		0		0	\$0.00	\$100.00
Glenford FD		0		0	\$0.00	\$5,200.00
Glenford Hopewell Township	\$1,448.75	1	\$1,448.75	0	\$1,450.00	\$7,650.00
Glenford Village		1		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		1		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Severe Winterstorm

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Somerset Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset-Reading Township		1		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	1	\$730.17	0	\$730.00	\$12,330.00
Village of Thornville Sewer Plant	\$764.94	1	\$764.94	0	\$760.00	\$7,860.00
Thornville Post Office		0		0	\$0.00	\$600.00
Thornville Village	\$996.74	1	\$996.74	0	\$1,000.00	\$7,400.00
New Lexington	\$11,114.81	1	\$11,114.81	0	\$11,110.00	\$356,510.00
New Lexington Water Works		1		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	1	\$2,862.73	0	\$2,860.00	\$8,660.00
Perry County Court House		1		0	\$0.00	\$36,600.00
Madison TWP	\$625.86	1	\$625.86	0	\$630.00	\$1,630.00
Monday Creek TWP	\$440.42	1	\$440.42	0	\$440.00	\$6,140.00
Total Loss to Structure Use & Function					\$108,830.00	\$5,919,430.00

Temperature Extreme and Heat Wave



Several methods of research identified extreme heat as a minor hazard in Perry County, including searches of Internet sites such as:

- Extreme Heat Fact Sheet
<http://www.feam.gov/library/heat.html>
- General Heat Wave Information
http://www.nfpa.org/Education/Consumers_and_Families/Fire_Safety_Information/Talking_About_Disaster/Heat_Heat_Wave/heat_heat_wave.html
- National Oceanic & Atmospheric Administration
<http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll?wwevent~storms>

Extreme heat is a hazard usually found in more desert regions than Perry County, Ohio. However, extreme heat can and has been a hazard in Ohio, causing heat stroke to occur to residents and proving detrimental to crops.

Health hazards related to extreme heat include sunburns, heat cramps, heat exhaustion, and heat stroke. In a normal year, approximately 175 Americans die from extreme heat. Young children, the elderly, and those who are sick or overweight are more likely to become victims. According to the 2000 Census, approximately 22% (7,593 people) of the total population in Perry County is between the ages of 45 and 64. Much of the remaining population can be said to be at risk. Because men perspire more than women they become more quickly dehydrated and subsequently more susceptible to heat related illnesses.

To see temperature extremes that occurred from 2005 to 2011, refer to *Volume 3, Historical Hazard Event Research, 2005-2011*.

TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Temperature Extreme - Heat Wave

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Residential	\$226,779,803.09	X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Corning VFD	\$150,081.23	X 0.00 =	\$0.00	X \$28,975.00	0.00 =	\$0.00	
Crooksville FD		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Hopewell TWP FD		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Junction City VFD	\$289,750.00	X 0.00 =	\$0.00	X \$811,300.00	0.00 =	\$0.00	
Monday Creek TWP VFD	\$231,800.00	X 0.00 =	\$0.00	X \$5,215,550.00	0.00 =	\$0.00	
New Lexington FD		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
New Stralistsville VFD		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Shawnee VFD	\$33,611.00	X 0.00 =	\$0.00	X \$359,290.00	0.00 =	\$0.00	
Somerset Reading TWP FD		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Thornville Thorn TWP VFD		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Crooksville SD	\$38,464,063.32	X 0.00 =	\$0.00	X \$6,021,783.85	0.00 =	\$0.00	
Crooksville ES		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Crooksville HS		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Crooksville MS		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Glenford ES	\$6,456,406.00	X 0.00 =	\$0.00	X \$381,023.57	0.00 =	\$0.00	
Junction City ES		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Southern Local SD	\$32,452,000.00	X 0.00 =	\$0.00	X \$8,113,000.00	0.00 =	\$0.00	
Millcreek ES		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Miller HS		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
Miller MS		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
New Lexington ES		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
New Lexington HS		X 0.00 =	\$0.00	X	0.00 =	\$0.00	
New Lexington MS		X 0.00 =	\$0.00	X	0.00 =	\$0.00	

Hazard: Temperature Extreme - Heat Wave

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Perry County Learning Center		X	\$0.00		X	\$0.00	
Sheridan HS	\$21,136,862.65	X	\$0.00	\$197,061.61	X	\$0.00	
Sheridan MS	\$14,604,518.44	X	\$0.00	\$1,487,381.79	X	\$0.00	
Somerset ES	\$6,527,856.56	X	\$0.00	\$513,000.06	X	\$0.00	
Thornville ES	\$6,443,082.67	X	\$0.00	\$422,796.25	X	\$0.00	
Somerset Post Office		X	\$0.00	\$11,590.00	X	\$0.00	
Shawnee Post Office	\$231,800.00	X	\$0.00	\$92,720.00	X	\$0.00	
Crooksville Post Office	\$1,135,820.00	X	\$0.00	\$243,390.00	X	\$0.00	
New Lexington Post Office		X	\$0.00		X	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	X	\$0.00	\$31,408.90	X	\$0.00	
Sunbridge Care & Rehabilitation for New Lexington							
Roads	\$2,607,750.00	X	\$0.00	\$579,500.00	X	\$0.00	
Railroads	\$3,471,638,466.00	X	\$0.00		X	\$0.00	
Bridges	\$213,017,709.60	X	\$0.00		X	\$0.00	
Crooksville Runway	\$43,060,906.50	X	\$0.00		X	\$0.00	
Perry County Runway	\$16,689,600.00	X	\$0.00		X	\$0.00	
Clum Runway	\$24,339,000.00	X	\$0.00		X	\$0.00	
Roberts Field Runway	\$11,126,400.00	X	\$0.00		X	\$0.00	
New Lexington City Police	\$19,471,200.00	X	\$0.00		X	\$0.00	
Crooksville Police Department		X	\$0.00		X	\$0.00	
Somerset Village PD and Village Hall		X	\$0.00		X	\$0.00	
Junction City Village Police	\$127,490.00	X	\$0.00		X	\$0.00	
Shawnee Village Police Department		X	\$0.00		X	\$0.00	

Hazard: Temperature Extreme - Heat Wave

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)			
Thornville Village Police		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Shawnee Village Hall	\$41,724.00	X 0.00 =	\$0.00	X \$23,180.00	0.00 =	\$0.00			
Shawnee Waste Water Treatment Plant	\$1,274,900.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Shawnee Water Treatment Plant	\$17,385.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Clayton Township	\$52,039.10	X 0.00 =	\$0.00	X \$3,477.00	0.00 =	\$0.00			
Roseville Village Water Works	\$1,738,500.00	X 0.00 =	\$0.00	X \$579,500.00	0.00 =	\$0.00			
Roseville Village FD		X 0.00 =	\$0.00	X \$927,200.00	0.00 =	\$0.00			
Roseville Post Office		X 0.00 =	\$0.00	X \$28,975.00	0.00 =	\$0.00			
Crooksville Sanitation Department	\$289,750.00	X 0.00 =	\$0.00	X \$57,950.00	0.00 =	\$0.00			
Crooksville Water Department	\$3,245,200.00	X 0.00 =	\$0.00	X \$1,176,385.00	0.00 =	\$0.00			
Crooksville Village	\$1,159,000.00	X 0.00 =	\$0.00	X \$173,850.00	0.00 =	\$0.00			
Junction City Waste Water Treatment Plant		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Junction City Water Works		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Junction City Village		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
New Straitsville Village	\$2,883,957.09	X 0.00 =	\$0.00	X \$35,349.50	0.00 =	\$0.00			
Saltlick Township		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Corning Village	\$140,837.04	X 0.00 =	\$0.00	X \$53,314.00	0.00 =	\$0.00			
Pleasant Township	\$171,300.20	X 0.00 =	\$0.00	X \$128,649.00	0.00 =	\$0.00			
Corning Post Office		X 0.00 =	\$0.00	X \$23,180.00	0.00 =	\$0.00			
Glenford FD	\$231,800.00	X 0.00 =	\$0.00	X \$579,500.00	0.00 =	\$0.00			
Glenford Hopewell Township	\$582,629.30	X 0.00 =	\$0.00	X \$77,653.00	0.00 =	\$0.00			
Glenford Village		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Somerset Waste Water Treatment Plant		X 0.00 =	\$0.00	X	0.00 =	\$0.00			

Hazard: Temperature Extreme - Heat Wave

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)				
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)			
Somerset Water Treatment Plant		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Somerset-Reading Township		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Village of Thornville Water Well and Tower	\$637,450.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Village of Thornville Sewer Plant									
Thornville Post Office	\$278,160.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Thornville Village	\$52,155.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
New Lexington	\$347,700.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
New Lexington Water Works	\$25,845,700.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
New Lexington Waste Water Treatment Plant		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Perry County Sheriff		X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Perry County Court House	\$3,349,223.73	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Madison TWP	\$55,632.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Monday Creek TWP	\$521,550.00	X 0.00 =	\$0.00	X	0.00 =	\$0.00			
Total Loss to Structure				Total Loss to Contents					
				\$0.00					

Structure Use and Function Loss (Task A.3.) Temp. Extreme

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		0		0	\$0.00	\$0.00
Perry County Learning Center		0		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	0	\$1,587.83	0	\$0.00	\$0.00
Sheridan MS	\$1,274.90	0	\$1,274.90	0	\$0.00	\$0.00
Somerset ES	\$788.12	0	\$788.12	0	\$0.00	\$0.00
Thornville ES	\$788.12	0	\$788.12	0	\$0.00	\$0.00
Somerset Post Office		0		0	\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$0.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$0.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	0	\$4,160.81	0	\$0.00	\$0.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	0	\$2,225.28	0	\$0.00	\$0.00
Roads		0		0	\$0.00	\$0.00
Railroads		0		0	\$0.00	\$0.00
Bridges		0		0	\$0.00	\$0.00
Crooksville Runway		0		0	\$0.00	\$0.00
Perry County Runway		0		0	\$0.00	\$0.00
Cium Runway		0		0	\$0.00	\$0.00
Roberts Field Runway		0		0	\$0.00	\$0.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$0.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Temp. Extreme

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	X	Functional Downtime (# of days) (Step 4)	+	Displacement Cost per Day (Step 3) (\$)	X	Displacement Time (Step 4)	=	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		X	0	+		X	0	=	\$0.00	\$0.00
Shawnee Village Police Department		X	0	+		X	0	=	\$0.00	\$0.00
Thornville Village Police		X	0	+		X	0	=	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	X	0	+	\$1,668.96	X	0	=	\$0.00	\$0.00
Shawnee Waste Water Treatment Plant	\$509.96	X	0	+	\$509.96	X	0	=	\$0.00	\$0.00
Shawnee Water Treatment Plant	\$336.11	X	0	+	\$336.11	X	0	=	\$0.00	\$0.00
Clayton Township	\$533.14	X	0	+	\$533.14	X	0	=	\$0.00	\$0.00
Roseville Village Water Works	\$1,031.51	X	0	+	\$1,031.51	X	0	=	\$0.00	\$0.00
Roseville Village FD	\$115.90	X	0	+	\$115.90	X	0	=	\$0.00	\$0.00
Roseville Post Office		X	0	+		X	0	=	\$0.00	\$0.00
Crooksville Sanitation Department		X	0	+		X	0	=	\$0.00	\$0.00
Crooksville Water Department		X	0	+		X	0	=	\$0.00	\$0.00
Crooksville Village	\$7,939.15	X	0	+	\$7,939.15	X	0	=	\$0.00	\$0.00
Junction City Waste Water Treatment Plant		X	0	+		X	0	=	\$0.00	\$0.00
Junction City Water Works		X	0	+		X	0	=	\$0.00	\$0.00
Junction City Village		X	0	+		X	0	=	\$0.00	\$0.00
New Straitsville Village	\$950.38	X	0	+	\$950.38	X	0	=	\$0.00	\$0.00
Saltlick Township		X	0	+		X	0	=	\$0.00	\$0.00
Corning Village		X	0	+		X	0	=	\$0.00	\$0.00
Pleasant Township	\$788.12	X	0	+	\$788.12	X	0	=	\$0.00	\$0.00
Corning Post Office		X	0	+		X	0	=	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Temp. Extreme

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		0		0	\$0.00	\$0.00
Glenford Hopewell Township	\$1,448.75	0	\$1,448.75	0	\$0.00	\$0.00
Glenford Village		0		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		0		0	\$0.00	\$0.00
Somerset Water Treatment Plant		0		0	\$0.00	\$0.00
Somerses-Reading Township		0		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	0	\$730.17	0	\$0.00	\$0.00
Village of Thornville Sewer Plant	\$764.94	0	\$764.94	0	\$0.00	\$0.00
Thornville Post Office		0		0	\$0.00	\$0.00
Thornville Village	\$996.74	0	\$996.74	0	\$0.00	\$0.00
New Lexington	\$11,114.81	0	\$11,114.81	0	\$0.00	\$0.00
New Lexington Water Works		0		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		0		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	0	\$2,862.73	0	\$0.00	\$0.00
Perry County Court House		0		0	\$0.00	\$0.00
Madison TWP	\$625.86	0	\$625.86	0	\$0.00	\$0.00
Monday Creek TWP	\$440.42	0	\$440.42	0	\$0.00	\$0.00
Total Loss to Structure Use & Function					\$0.00	\$0.00

Wildfire



Several methods of research identified wildfires (on a very small scale) as a hazard in Perry County, including discussions with local representatives. The following Internet sites were searched with regard to wildfires.

- Firewise
<http://www.firewise.org>
- General Wildfire Information
http://www.nfpa.org/Education/Consumers_and_Families/Fire_Safety_Information/Talking_About_Disaster/Wildfire/wildfire.html
- Local Wildfire Observations and Trend Forecasts for Fire Weather Forecast Zones
http://www.fs.fed.us/land/wfas/fd_class.gif
- NOAA Fire Event Satellite Photos
<http://www.osci.noaa.gov/Events/Fires/>
- Resolution Fire Danger Rating Fuel Model Map
http://www.fs.fed.us/land/wfas/nfer_map.htm
- US Forest Service (USDA)
<http://www.fs.fed.us/land/wfas/welcome.html>
- USGS Topographic Maps
<http://mcmeweb.cr.usgs.gov/topomaps/>
- Wildland Fire Assessment System
<http://www.fs.fed.us/land/wfas/>
- Wildland Fire Updates
<http://www.nifc.gov/fireinfo/nfn.html>

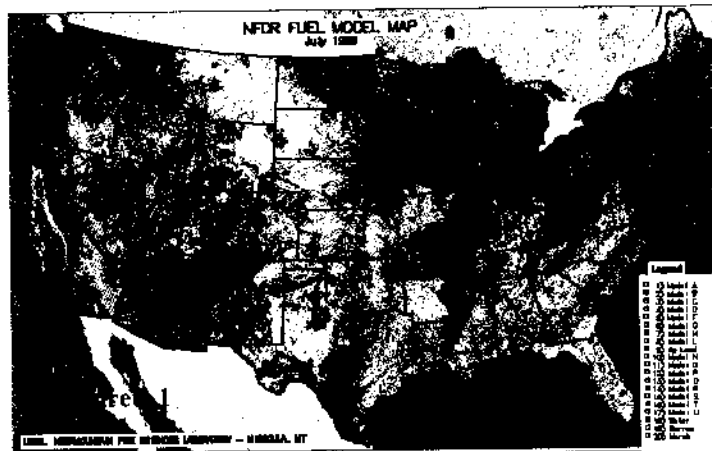
According to the Ohio Division of Forestry, there are several factors that can contribute to the starting of wildfires in Perry County including arson, equipment fires, campfires, debris burning, and lightning. Approximately 10,000 forest fires are started each year by lightning. Perry County contains a great deal of forestland, with recreational campsites and other attractions in designated areas such as the Perry State Forest. Campfires, coupled with large numbers of visitors and a large proportion of trees, make wildfires a potential hazard for Perry County.

Members of volunteer fire departments confirm that small brush fires are a common occurrence during the dry summer months in what is typically known as the "burning season." These small brush fires are usually handled by local fire departments and often do not cause damage to structures. However, the threat is present that these bush fires could burn out of control and consume many structures, as well as a portion of the nearly 134,816 acres of forestland that exists in Perry County.

As shown below, Ohio is currently marked as having a "low" fire class rating. However, this can change with climatic conditions. A large period of drought and high heat may dry up many areas of the county and add them to the amount of fuel for a potentially destructive wildfire. Wildfires are dependent on the amount of fuel available, weather conditions, and wind speed and direction.

Perry County, as mentioned above, falls into the classes of (R) or light fuel land and herbaceous plants with regard to fuel types.

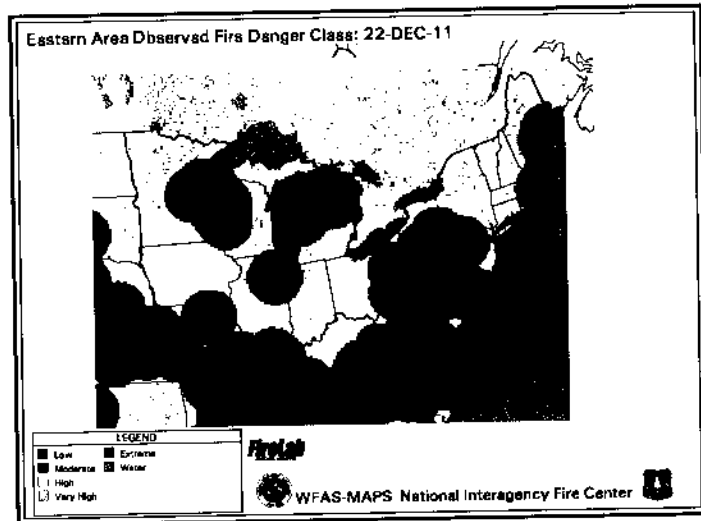
This class is considered to be a low hazard in terms of wildfires. With climatic changes over prolonged periods, the fuel that is not normally considered to be dangerous could become dry and increase the potential for a large-scale wildfire event. The



Fuel Model Map Key	
Heavy Fuel	G []
	Ag []
Medium Fuel	U []
	B []
	D []
	F []
	H []
	O []
Light Fuel	Q []
	T []
	A []
	C []
	L []
	N []
	P []
	R []
S []	

dollar amount of damage will fluctuate according to where the fire occurs. If, for some reason, the area affected by a wildfire interfaced a municipality, the amount of damage could be greatly increased. However, most historical events have not consumed much land or property.

The Observed Fire Danger Class Map developed by the US Forestry Service in illustrates the fire danger conditions as of December 22, 2011 and is based on current and post weather, fuel types, and fuel moisture. As can be seen, the entire state of Ohio (with the exception of the northwestern-most corner) is currently in a low fire danger class, including Perry County.



TABLES

The figures in the Estimate Losses Tables were increased by 15.9% inflation rate from 2005 to 2011. The inflation rate was based on the information taken from the Bureau of Labor Statistics (U.S. Dept. of Labor).

ESTIMATE LOSSES

Hazard: Wildfires

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Residential	\$226,779,803.09	0.10	\$226,800.00				
Corning VFD	\$150,081.23	1.00	\$1,500.00	\$28,975.00	0.50	\$100.00	
Crooksville FD		1.00	\$0.00		0.50	\$0.00	
Hopewell TWP FD		1.00	\$0.00		0.50	\$0.00	
Junction City VFD	\$289,750.00	1.00	\$2,900.00	\$811,300.00	0.50	\$4,100.00	
Monday Creek TWP VFD	\$231,800.00	1.00	\$2,300.00	\$521,550.00	0.50	\$2,600.00	
New Lexington FD		1.00	\$0.00		0.50	\$0.00	
New Straitsville VFD		1.00	\$0.00		0.50	\$0.00	
Shawnee VFD	\$33,611.00	1.00	\$300.00	\$359,290.00	0.50	\$1,800.00	
Somerset Reading TWP FD		1.00	\$0.00		0.50	\$0.00	
Thornville Thorn TWP VFD		1.00	\$0.00		0.50	\$0.00	
Crooksville SD	\$38,464,063.32	0.50	\$192,300.00	\$6,021,783.85	0.25	\$15,100.00	
Crooksville ES		0.50	\$0.00		0.25	\$0.00	
Crooksville HS		0.50	\$0.00		0.25	\$0.00	
Crooksville MS		0.50	\$0.00		0.25	\$0.00	
Glenford ES	\$6,456,406.00	0.50	\$32,300.00	\$381,023.57	0.25	\$1,000.00	
Junction City ES		0.50	\$0.00		0.25	\$0.00	
Southern Local SD	\$32,452,000.00	0.50	\$162,300.00	\$8,113,000.00	0.25	\$20,300.00	
Millcreek ES		0.50	\$0.00		0.25	\$0.00	
Miller HS		0.50	\$0.00		0.25	\$0.00	
Miller MS		0.50	\$0.00		0.25	\$0.00	
New Lexington ES		0.50	\$0.00		0.25	\$0.00	
New Lexington HS		0.50	\$0.00		0.25	\$0.00	
New Lexington MS		0.50	\$0.00		0.25	\$0.00	

Structure Loss (Task A.1.)				Contents of Loss (Task A.2.)			
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Residential	\$226,779,803.09	0.10	\$226,800.00				
Corning VFD	\$150,081.23	1.00	\$1,500.00	\$28,975.00	0.50	\$100.00	
Crooksville FD		1.00	\$0.00		0.50	\$0.00	
Hopewell TWP FD		1.00	\$0.00		0.50	\$0.00	
Junction City VFD	\$289,750.00	1.00	\$2,900.00	\$811,300.00	0.50	\$4,100.00	
Monday Creek TWP VFD	\$231,800.00	1.00	\$2,300.00	\$521,550.00	0.50	\$2,600.00	
New Lexington FD		1.00	\$0.00		0.50	\$0.00	
New Straitsville VFD		1.00	\$0.00		0.50	\$0.00	
Shawnee VFD	\$33,611.00	1.00	\$300.00	\$359,290.00	0.50	\$1,800.00	
Somerset Reading TWP FD		1.00	\$0.00		0.50	\$0.00	
Thornville Thorn TWP VFD		1.00	\$0.00		0.50	\$0.00	
Crooksville SD	\$38,464,063.32	0.50	\$192,300.00	\$6,021,783.85	0.25	\$15,100.00	
Crooksville ES		0.50	\$0.00		0.25	\$0.00	
Crooksville HS		0.50	\$0.00		0.25	\$0.00	
Crooksville MS		0.50	\$0.00		0.25	\$0.00	
Glenford ES	\$6,456,406.00	0.50	\$32,300.00	\$381,023.57	0.25	\$1,000.00	
Junction City ES		0.50	\$0.00		0.25	\$0.00	
Southern Local SD	\$32,452,000.00	0.50	\$162,300.00	\$8,113,000.00	0.25	\$20,300.00	
Millcreek ES		0.50	\$0.00		0.25	\$0.00	
Miller HS		0.50	\$0.00		0.25	\$0.00	
Miller MS		0.50	\$0.00		0.25	\$0.00	
New Lexington ES		0.50	\$0.00		0.25	\$0.00	
New Lexington HS		0.50	\$0.00		0.25	\$0.00	
New Lexington MS		0.50	\$0.00		0.25	\$0.00	

Hazard: Wildfires

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Perry County Learning Center		0.50	\$0.00		0.25	\$0.00	
Sheridan HS	\$21,136,862.65	0.50	\$105,700.00	\$1,970,610.61	0.25	\$4,900.00	
Sheridan MS	\$14,604,518.44	0.50	\$73,000.00	\$1,487,381.79	0.25	\$3,700.00	
Somerset ES	\$6,527,856.56	0.50	\$32,600.00	\$513,000.06	0.25	\$1,300.00	
Thornville ES	\$6,443,082.67	0.50	\$32,200.00	\$422,796.25	0.25	\$1,100.00	
Somerset Post Office		0.50	\$0.00	\$11,590.00	0.25	\$0.00	
Shawnee Post Office	\$231,800.00	0.50	\$1,200.00	\$92,720.00	0.25	\$200.00	
Crooksville Post Office	\$1,135,820.00	0.50	\$5,700.00	\$243,390.00	0.25	\$600.00	
New Lexington Post Office		0.50	\$0.00		0.25	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	0.50	\$10,400.00	\$31,408.90	0.25	\$100.00	
Sunbridge Care & Rehabilitation for New Lexington		0.50		\$579,500.00	0.25	\$1,400.00	
Roads	\$3,471,638,466.00	0.00	\$0.00		0.00	\$0.00	
Railroads	\$213,017,709.60	0.00	\$0.00		0.00	\$0.00	
Bridges	\$43,060,906.50	0.00	\$0.00		0.00	\$0.00	
Crooksville Runway	\$16,689,600.00	0.00	\$0.00		0.00	\$0.00	
Perry County Runway	\$24,339,000.00	0.00	\$0.00		0.00	\$0.00	
Clum Runway	\$11,126,400.00	0.00	\$0.00		0.00	\$0.00	
Roberts Field Runway	\$19,471,200.00	0.00	\$0.00		0.00	\$0.00	
New Lexington City Police		0.50	\$0.00		0.25	\$0.00	
Crooksville Police Department		0.50	\$0.00	\$347,700.00	0.25	\$900.00	
Somerset Village PD and Village Hall		0.50	\$0.00		0.25	\$0.00	
Junction City Village Police	\$127,490.00	0.50	\$600.00	\$57,950.00	0.25	\$100.00	
Shawnee Village Police Department		0.50	\$0.00		0.25	\$0.00	

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Perry County Learning Center		0.50	\$0.00		0.25	\$0.00	
Sheridan HS	\$21,136,862.65	0.50	\$105,700.00	\$1,970,610.61	0.25	\$4,900.00	
Sheridan MS	\$14,604,518.44	0.50	\$73,000.00	\$1,487,381.79	0.25	\$3,700.00	
Somerset ES	\$6,527,856.56	0.50	\$32,600.00	\$513,000.06	0.25	\$1,300.00	
Thornville ES	\$6,443,082.67	0.50	\$32,200.00	\$422,796.25	0.25	\$1,100.00	
Somerset Post Office		0.50	\$0.00	\$11,590.00	0.25	\$0.00	
Shawnee Post Office	\$231,800.00	0.50	\$1,200.00	\$92,720.00	0.25	\$200.00	
Crooksville Post Office	\$1,135,820.00	0.50	\$5,700.00	\$243,390.00	0.25	\$600.00	
New Lexington Post Office		0.50	\$0.00		0.25	\$0.00	
Somerset Healthcare Center	\$2,084,411.66	0.50	\$10,400.00	\$31,408.90	0.25	\$100.00	
Sunbridge Care & Rehabilitation for New Lexington		0.50		\$579,500.00	0.25	\$1,400.00	
Roads	\$3,471,638,466.00	0.00	\$0.00		0.00	\$0.00	
Railroads	\$213,017,709.60	0.00	\$0.00		0.00	\$0.00	
Bridges	\$43,060,906.50	0.00	\$0.00		0.00	\$0.00	
Crooksville Runway	\$16,689,600.00	0.00	\$0.00		0.00	\$0.00	
Perry County Runway	\$24,339,000.00	0.00	\$0.00		0.00	\$0.00	
Clum Runway	\$11,126,400.00	0.00	\$0.00		0.00	\$0.00	
Roberts Field Runway	\$19,471,200.00	0.00	\$0.00		0.00	\$0.00	
New Lexington City Police		0.50	\$0.00		0.25	\$0.00	
Crooksville Police Department		0.50	\$0.00	\$347,700.00	0.25	\$900.00	
Somerset Village PD and Village Hall		0.50	\$0.00		0.25	\$0.00	
Junction City Village Police	\$127,490.00	0.50	\$600.00	\$57,950.00	0.25	\$100.00	
Shawnee Village Police Department		0.50	\$0.00		0.25	\$0.00	

Hazard: Wildfires

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Thornville Village Police		0.50	\$0.00		0.25	\$0.00	
Shawnee Village Hall	\$41,724.00	0.50	\$200.00	\$23,180.00	0.25	\$100.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	0.50	\$6,400.00		0.25	\$0.00	
Shawnee Water Treatment Plant	\$17,385.00	0.50	\$100.00		0.25	\$0.00	
Clayton Township	\$52,039.10	0.50	\$300.00	\$3,477.00	0.25	\$0.00	
Roseville Village Water Works	\$1,738,500.00	0.50	\$8,700.00	\$579,500.00	0.25	\$1,400.00	
Roseville Village FD		1.00	\$0.00	\$927,200.00	0.50	\$4,600.00	
Roseville Post Office		0.50	\$0.00	\$28,975.00	0.25	\$100.00	
Crooksville Sanitation Department	\$289,750.00	0.50	\$1,400.00	\$57,950.00	0.25	\$100.00	
Crooksville Water Department	\$3,245,200.00	0.50	\$16,200.00	\$1,176,385.00	0.25	\$2,900.00	
Crooksville Village	\$1,159,000.00	0.50	\$5,800.00	\$173,850.00	0.25	\$400.00	
Junction City Waste Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	
Junction City Water Works		0.50	\$0.00		0.25	\$0.00	
Junction City Village		0.50	\$0.00		0.25	\$0.00	
New Straitsville Village	\$2,883,957.09	0.50	\$14,400.00	\$35,349.50	0.25	\$100.00	
Saltlick Township		0.50	\$0.00		0.25	\$0.00	
Corning Village	\$140,837.04	0.50	\$700.00	\$53,314.00	0.25	\$100.00	
Pleasant Township	\$171,300.20	0.50	\$900.00	\$128,649.00	0.25	\$300.00	
Corning Post Office		0.50	\$0.00	\$23,180.00	0.25	\$100.00	
Glentford FD	\$231,800.00	1.00	\$2,300.00	\$579,500.00	0.50	\$2,900.00	
Glentford Hopewell Township	\$582,629.30	0.50	\$2,900.00	\$77,653.00	0.25	\$200.00	
Glentford Village		0.50	\$0.00		0.25	\$0.00	
Somerset Waste Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Thornville Village Police		0.50	\$0.00		0.25	\$0.00	
Shawnee Village Hall	\$41,724.00	0.50	\$200.00	\$23,180.00	0.25	\$100.00	
Shawnee Waste Water Treatment Plant	\$1,274,900.00	0.50	\$6,400.00		0.25	\$0.00	
Shawnee Water Treatment Plant	\$17,385.00	0.50	\$100.00		0.25	\$0.00	
Clayton Township	\$52,039.10	0.50	\$300.00	\$3,477.00	0.25	\$0.00	
Roseville Village Water Works	\$1,738,500.00	0.50	\$8,700.00	\$579,500.00	0.25	\$1,400.00	
Roseville Village FD		1.00	\$0.00	\$927,200.00	0.50	\$4,600.00	
Roseville Post Office		0.50	\$0.00	\$28,975.00	0.25	\$100.00	
Crooksville Sanitation Department	\$289,750.00	0.50	\$1,400.00	\$57,950.00	0.25	\$100.00	
Crooksville Water Department	\$3,245,200.00	0.50	\$16,200.00	\$1,176,385.00	0.25	\$2,900.00	
Crooksville Village	\$1,159,000.00	0.50	\$5,800.00	\$173,850.00	0.25	\$400.00	
Junction City Waste Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	
Junction City Water Works		0.50	\$0.00		0.25	\$0.00	
Junction City Village		0.50	\$0.00		0.25	\$0.00	
New Straitsville Village	\$2,883,957.09	0.50	\$14,400.00	\$35,349.50	0.25	\$100.00	
Saltlick Township		0.50	\$0.00		0.25	\$0.00	
Corning Village	\$140,837.04	0.50	\$700.00	\$53,314.00	0.25	\$100.00	
Pleasant Township	\$171,300.20	0.50	\$900.00	\$128,649.00	0.25	\$300.00	
Corning Post Office		0.50	\$0.00	\$23,180.00	0.25	\$100.00	
Glentford FD	\$231,800.00	1.00	\$2,300.00	\$579,500.00	0.50	\$2,900.00	
Glentford Hopewell Township	\$582,629.30	0.50	\$2,900.00	\$77,653.00	0.25	\$200.00	
Glentford Village		0.50	\$0.00		0.25	\$0.00	
Somerset Waste Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	

Hazard: Wildfires

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Somerset Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	
Somerset-Reading Township		0.50	\$0.00		0.25	\$0.00	
Village of Thornville Water Well and Tower	\$637,450.00	0.50	\$3,200.00	\$1,043,100.00	0.25	\$2,600.00	
Village of Thornville Sewer Plant	\$278,160.00	0.50	\$1,400.00	\$869,250.00	0.25	\$2,200.00	
Thornville Post Office	\$52,155.00	0.50	\$300.00	\$23,180.00	0.25	\$100.00	
Thornville Village	\$347,700.00	0.50	\$1,700.00	\$579,500.00	0.25	\$1,400.00	
New Lexington	\$25,845,700.00	0.50	\$129,200.00	\$17,385,000.00	0.25	\$43,500.00	
New Lexington Water Works		0.50	\$0.00		0.25	\$0.00	
New Lexington Waste Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	
Perry County Sheriff		0.50	\$0.00	\$1,159,000.00	0.25	\$2,900.00	
Perry County Court House	\$3,349,223.73	0.50	\$16,700.00	\$624,228.13	0.25	\$1,600.00	
Madison TWP	\$55,632.00	0.50	\$300.00	\$85,766.00	0.25	\$200.00	
Monday Creek TWP	\$521,550.00	0.50	\$2,600.00	\$92,720.00	0.25	\$200.00	
Total Loss to Structure			\$1,110,800.00	Total Loss to Contents		\$127,300.00	

Structure Loss (Task A.1.)					Contents of Loss (Task A.2.)		
Name/Description of Structure	Structure Replacement Value (Step 3) (\$)	Percent Damage (Step 4) (%)	Loss to Structure (\$)	Replacement Value of Contents (Step 3) (\$)	Percent Damage (step 4) (%)	Loss to Contents (\$)	
Somerset Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	
Somerset-Reading Township		0.50	\$0.00		0.25	\$0.00	
Village of Thornville Water Well and Tower	\$637,450.00	0.50	\$3,200.00	\$1,043,100.00	0.25	\$2,600.00	
Village of Thornville Sewer Plant	\$278,160.00	0.50	\$1,400.00	\$869,250.00	0.25	\$2,200.00	
Thornville Post Office	\$52,155.00	0.50	\$300.00	\$23,180.00	0.25	\$100.00	
Thornville Village	\$347,700.00	0.50	\$1,700.00	\$579,500.00	0.25	\$1,400.00	
New Lexington	\$25,845,700.00	0.50	\$129,200.00	\$17,385,000.00	0.25	\$43,500.00	
New Lexington Water Works		0.50	\$0.00		0.25	\$0.00	
New Lexington Waste Water Treatment Plant		0.50	\$0.00		0.25	\$0.00	
Perry County Sheriff		0.50	\$0.00	\$1,159,000.00	0.25	\$2,900.00	
Perry County Court House	\$3,349,223.73	0.50	\$16,700.00	\$624,228.13	0.25	\$1,600.00	
Madison TWP	\$55,632.00	0.50	\$300.00	\$85,766.00	0.25	\$200.00	
Monday Creek TWP	\$521,550.00	0.50	\$2,600.00	\$92,720.00	0.25	\$200.00	
Total Loss to Structure			\$1,110,800.00	Total Loss to Contents		\$127,300.00	

Structure Use and Function Loss (Task A.3.) Wildfire

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Residential		2		0	\$0.00	\$226,800.00
Corning VFD		0		0	\$0.00	\$1,600.00
Crooksville FD		0		0	\$0.00	\$0.00
Hopewell TWP FD		0		0	\$0.00	\$0.00
Junction City VFD	\$104.31	0	\$104.31	0	\$0.00	\$7,000.00
Monday Creek TWP VFD		0		0	\$0.00	\$4,900.00
New Lexington FD		0		0	\$0.00	\$0.00
New Straitsville VFD		0		0	\$0.00	\$0.00
Shawnee VFD	\$92.72	0	\$92.72	0	\$0.00	\$2,100.00
Somerset Reading TWP FD		0		0	\$0.00	\$0.00
Thornville Thorn TWP VFD		0		0	\$0.00	\$0.00
Crooksville SD	\$40,646.13	1	\$40,646.13	0	\$40,650.00	\$248,050.00
Crooksville ES		1		0	\$0.00	\$0.00
Crooksville HS		1		0	\$0.00	\$0.00
Crooksville MS		1		0	\$0.00	\$0.00
Glenford ES	\$788.12	1	\$788.12	0	\$790.00	\$34,090.00
Junction City ES		1		0	\$0.00	\$0.00
Southern Local SD	\$23,817.45	1	\$23,817.45	0	\$23,820.00	\$206,420.00
Millcreek ES		1		0	\$0.00	\$0.00
Miller HS		1		0	\$0.00	\$0.00
Miller MS		1		0	\$0.00	\$0.00
New Lexington ES		1		0	\$0.00	\$0.00
New Lexington HS		1		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Wildfire

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
New Lexington MS		1		0	\$0.00	\$0.00
Perry County Learning Center		1		0	\$0.00	\$0.00
Sheridan HS	\$1,587.83	1	\$1,587.83	0	\$1,590.00	\$112,190.00
Sheridan MS	\$1,274.90	1	\$1,274.90	0	\$1,270.00	\$77,970.00
Somerset ES	\$788.12	1	\$788.12	0	\$790.00	\$34,690.00
Thornville ES	\$788.12	1	\$788.12	0	\$790.00	\$34,090.00
Somerset Post Office		0		0	\$0.00	\$0.00
Shawnee Post Office	\$278.16	0	\$278.16	0	\$0.00	\$1,400.00
Crooksville Post Office	\$892.43	0	\$892.43	0	\$0.00	\$6,300.00
New Lexington Post Office		0		0	\$0.00	\$0.00
Somerset Healthcare Center	\$4,160.81	1	\$4,160.81	0	\$4,160.00	\$14,660.00
Sunbridge Care & Rehabilitation for New Lexington	\$2,225.28	1	\$2,225.28	0	\$2,230.00	\$16,630.00
Roads		0		0	\$0.00	\$0.00
Railroads		0		0	\$0.00	\$0.00
Bridges		0		0	\$0.00	\$0.00
Crooksville Runway		0		0	\$0.00	\$0.00
Perry County Runway		0		0	\$0.00	\$0.00
Clum Runway		0		0	\$0.00	\$0.00
Roberts Field Runway		0		0	\$0.00	\$0.00
New Lexington City Police		0		0	\$0.00	\$0.00
Crooksville Police Department	\$556.32	0	\$556.32	0	\$0.00	\$900.00
Somerset Village PD and Village Hall		0		0	\$0.00	\$0.00

Structure Use and Function Loss (Task A.3.) Wildfire

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (Step 4) (# of days)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Junction City Village Police		0		0	\$0.00	\$700.00
Shawnee Village Police Department		0		0	\$0.00	\$0.00
Thornville Village Police		0		0	\$0.00	\$0.00
Shawnee Village Hall	\$1,668.96	1	\$1,668.96	0	\$1,670.00	\$1,970.00
Shawnee Waste Water Treatment Plant	\$509.96	1	\$509.96	0	\$510.00	\$6,910.00
Shawnee Water Treatment Plant	\$336.11	1	\$336.11	0	\$340.00	\$440.00
Clayton Township	\$533.14	1	\$533.14	0	\$530.00	\$830.00
Roseville Village Water Works	\$1,031.51	1	\$1,031.51	0	\$1,030.00	\$11,130.00
Roseville Village FD	\$115.90	0	\$115.90	0	\$0.00	\$4,600.00
Roseville Post Office		0		0	\$0.00	\$100.00
Crooksville Sanitation Department		1		0	\$0.00	\$1,500.00
Crooksville Water Department		1		0	\$0.00	\$19,100.00
Crooksville Village	\$7,939.15	1	\$7,939.15	0	\$7,940.00	\$14,140.00
Junction City Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Junction City Water Works		1		0	\$0.00	\$0.00
Junction City Village		1		0	\$0.00	\$0.00
New Straitsville Village	\$950.38	1	\$950.38	0	\$950.00	\$15,450.00
Saltlick Township		1		0	\$0.00	\$0.00
Corning Village		1		0	\$0.00	\$800.00
Pleasant Township	\$788.12	1	\$788.12	0	\$790.00	\$1,990.00
Corning Post Office		0		0	\$0.00	\$100.00

Structure Use and Function Loss (Task A.3.) Wildfire

Name/Description of Structure	Average Daily Operating Budget (Step 3) (\$)	Functional Downtime (# of days) (Step 4)	Displacement Cost per Day (Step 3) (\$)	Displacement Time (Step 4)	Structure Use & Function Loss (\$)	Structure Loss + Content Loss + Function Loss (\$)
Glenford FD		0		0	\$0.00	\$5,200.00
Glenford Hopewell Township	\$1,448.75	1	\$1,448.75	0	\$1,450.00	\$4,550.00
Glenford Village		1		0	\$0.00	\$0.00
Somerset Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset Water Treatment Plant		1		0	\$0.00	\$0.00
Somerset-Reading Township		1		0	\$0.00	\$0.00
Village of Thornville Water Well and Tower	\$730.17	1	\$730.17	0	\$730.00	\$6,530.00
Village of Thornville Sewer Plant	\$764.94	1	\$764.94	0	\$760.00	\$4,360.00
Thornville Post Office		1		0	\$0.00	\$400.00
Thornville Village	\$996.74	1	\$996.74	0	\$1,000.00	\$4,100.00
New Lexington	\$11,114.81	1	\$11,114.81	0	\$11,110.00	\$183,810.00
New Lexington Water Works		1		0	\$0.00	\$0.00
New Lexington Waste Water Treatment Plant		1		0	\$0.00	\$0.00
Perry County Sheriff	\$2,862.73	0	\$2,862.73	0	\$0.00	\$2,900.00
Perry County Court House		1		0	\$0.00	\$18,300.00
Madison TWP	\$625.86	1	\$625.86	0	\$630.00	\$1,130.00
Monday Creek TWP	\$440.42	1	\$440.42	0	\$440.00	\$3,240.00
Total Loss to Structure Use & Function					\$105,970.00	\$1,344,070.00

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SHARPP Plan:Perry County Hazard Mitigation Plan

- Plan
- HIRA Summary**
- Mitigation Actions

HIRA (Click on titles for help)

Hazard Analysis Vulnerability Analysis

Hazards	Adjusted Frequency	Response	Onset	Adjusted Magnitude	Business	Human	Property
Coastal Erosion	NA	-	-	-	-	-	-
Dam/Levee Failure	1.50	1	4	2.50	2	3	1
Drought	3.00	2	1	3.75	2	2	2
Earthquake	4.50	3	4	3.75	3	3	2
Flooding	6.00	4	3	3.75	3	2	3
Invasive Species	1.50	1	1	1.25	2	2	1
Land Subsidence	4.50	2	2	1.25	2	1	2
Mud/Landslide	4.50	2	2	1.25	2	1	2
Severe Summer Storms	6.00	3	3	3.75	1	1	2
Tornado	4.50	3	4	5.00	3	4	4
Wildfire	1.50	3	4	3.75	3	3	3

Hazard Mitigation Plan

Windstorms	4-50	4	3	5-00	3	2	3
Winter Storms	4-50	3	2	3-75	3	2	3
Other	NA	-	-	-	-	-	-
Other	NA	-	-	-	-	-	-
Other	NA	-	-	-	-	-	-
Other	NA	-	-	-	-	-	-
Other	NA	-	-	-	-	-	-
Other	NA	-	-	-	-	-	-

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SHARPP Plan: Perry County Hazard Mitigation Plan

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HIRA (Click on titles for help)

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Hazards	Structures At-Risk			Damage in Dollars		
	Non-		Total	Non-		Total
	Residential	Critical		Residential	Critical	
Coastal Erosion	-	-	-	-	-	-
Dam/Levee Failure	3,277	107	3,405	\$46,956,000	\$57,932,000	\$108,450,000
Drought	0	0	0	\$0	\$0	\$0
Earthquake	5,462	192	5,675	\$78,266,000	\$96,562,000	\$180,764,000
Flooding	3,892	130	4,043	\$55,764,000	\$68,800,000	\$128,794,000
Invasive Species	0	1	1	\$0	\$12,244,000	\$12,244,000
Land Subsidence	4,452	152	4,625	\$63,797,000	\$78,710,000	\$147,346,000
Mud/Landslide	4,452	152	4,625	\$63,797,000	\$78,710,000	\$147,346,000
Severe Summer Storms	5,462	192	5,675	\$78,266,000	\$96,562,000	\$180,764,000
Tornado	10,924	404	11,349	\$156,533,000	\$193,124,000	\$361,530,000

Hazard Mitigation Plan

Wildfire	3,218	104	21	3,343	\$46,112,000	\$56,892,000	\$3,498,000	\$106,502,000
Windstorms	10,924	404	21	11,349	\$156,533,000	\$193,124,000	\$11,873,000	\$361,530,000
Winter Storms	10,924	404	21	11,349	\$156,533,000	\$193,124,000	\$11,873,000	\$361,530,000
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-

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Winter storm notification

Title: Winter storm notification

Funding Sources: Community Development Block Grant

Priority: 1

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: November 01, 2012

End Date: November 04, 2013

Details: ixiv.1.1: increase the coverage area and use of NDAA weather radios throughout thorn Twp.

Lat: 0

Long: 0

Jurisdictions: Thorn Township

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Wind & Tornado -Pre-disaster actions

Title: Wind & Tornado -Pre-disaster actions

Funding Sources: Local Funds, State Funds

Priority: 1

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: July 02, 2012

End Date: December 30, 2014

Details: **ixiii.1.1** Encourage homeowners to apply additional anchoring to manufactured homes and exterior structures such as carports and porches. **11.1.1**

Lat: 0

Long: 0

Jurisdictions: Salt Lick Township, Thornville

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Flooding-homeowners actions

Title: Flooding-homeowners actions

Priority: 1

Status: New

Estimated Cost: \$

Project Lead:

Start Date: November 03, 2014

End Date: November 02, 2015

Details: ix.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

Lat: 0

Long: 0

Jurisdictions: Pike Township

Funding Sources: Flood Mitigation Assistance Grant, Pre-Disaster Mitigation Grant

Mitigation Actions: Minor Localized Flood Reduction, Soil Stabilization

SHARPP Mitigation Action

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4 wheel drive tractor

Title: 4 wheel drive tractor

Priority: 1

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: December 30, 2013

Details: purchase of a 4 wheel drive tractor to assist in clearing snow from roadways during and following severe winters storm events.

Lat: 0

Long: 0

Jurisdictions: Monday Creek Township

Funding Sources: Local Funds

Mitigation Actions: Acquisition

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Cuvert replacement

Title: Cuvert replacement

Funding Sources: Community Development Block Grant, Local Funds

Priority: 2

Mitigation Actions: Planning, Retrofit, Soil Stabilization

Status: New

Estimated Cost: \$

Project Lead:

Start Date: June 04, 2012

End Date: October 30, 2014

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

Lat: 0

Long: 0

Jurisdictions: Monday Creek Township

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Update Dam Maps

Title: Update Dam Maps

Funding Sources: Hazard Mitigation Grant Program

Priority: 3

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: January 02, 2013

Details: 1.1.3 Coordinate with US Army Corps of Engineers to update outdated flood studies affected by the failure or topping of Class 1 dams, to include Tecumseh Lake Dam, Burr Oak reservoir, and Buckeye Lake Dam. 1xii.1.1

Lat: 0

Long: 0

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Land & Mine Subsidence

Title: Land & Mine Subsidence

Priority: 3

Status: New

Estimated Cost: \$

Project Lead:

Start Date: May 01, 2012

End Date: December 02, 2013

Details: Coordinate with ODNR, Div. of Mineral resources, Office of Abandoned Mine Lands and Reclamation to undertake reclamation projects if subsidence occurs. 1E.1.1: Maintain areas that are susceptible to subsidence or collapse as open space.

Lat: 0

Long: 0

Jurisdictions: New Straitsville, Perry County

Funding Sources: Hazard Mitigation Grant Program, Other (Please Describe), Other: ODNR

Mitigation Actions: Reconstruction

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Cell Phone towers

Title: Cell Phone towers

Priority: 3

Status: New

Estimated Cost: \$

Project Lead:

Start Date: November 14, 2011

End Date: November 30, 2015

Details: work with cell phone providers to install more towers

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Other (Please Describe), Other: Verizon Att
Mitigation Actions: Planning, Other (Please Describe), Other:
building of towers

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Broadband Service

Title: Broadband Service

Priority: 4

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: November 03, 2014

Details: Provide broadband internet to local officials throughout the township to supplement warning capabilities.

Lat: 0

Long: 0

Jurisdictions: Monday Creek Township

Funding Sources: Local Funds, State Funds, Other (Please Describe), Other: service providers grants

Mitigation Actions: Planning

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Planning commission

Title: Planning commission

Funding Sources: Local Funds, State Funds

Priority: 4

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: January 06, 2014

Details: develop a county planning commission to oversee planning effort for the county

Lat: 0

Long: 0

Jurisdictions: Perry County

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Flood Mitigation Plan

Title: Flood Mitigation Plan

Funding Sources: Flood Mitigation Assistance Grant, Hazard Mitigation Grant Program, Repetitive Flood Claims Program

Priority: 4

Status: New

Estimated Cost: \$

Project Lead:

Mitigation Actions: Planning

Start Date: June 01, 2012

End Date: June 02, 2014

Details: develop flood mitigation plan to accompany miigation plan for flood prone areas.

Lat: 0

Long: 0

Jurisdictions: Perry County

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Water conservation

Title: Water conservation

Funding Sources: Local Funds, State Funds

Priority: 5

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: December 31, 2012

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

Lat: 0

Long: 0

Jurisdictions: Perry County

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Flooding- Issues

Title: Flooding- Issues

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: April 02, 2012

End Date: April 01, 2014

Details: facilitate the formation of flood task forces in Perry County to address flooding problems to include the Floodplain Coordinator and trustees.

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Flood Mitigation Assistance Grant, Hazard Mitigation Grant Program, Pre-Disaster Mitigation Grant
Mitigation Actions: Planning

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Earthquake Brochure

Title: Earthquake Brochure

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: February 01, 2012

End Date: February 01, 2013

Details: Develop a informational brochure explaining earthquakes, damages and how to safe proof homes from earthquake damage.

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Hazard Mitigation Grant Program, Local Funds, State Funds
Mitigation Actions: Planning

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Earthquake effects to Perry County

Title: Earthquake effects to Perry County

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: February 01, 2012

End Date: February 01, 2013

Details: Educate local officials on conditions in Perry County that would compound the effects of an actual earthquake.

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Hazard Mitigation Grant Program, Local

Funds, State Funds

Mitigation Actions: Planning

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Epidemic -public awareness

Title: Epidemic -public awareness

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: August 01, 2012

End Date: August 01, 2013

Details: Produce public awareness campaigns on local medial outlets

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Other (Please Describe), Other: ODH Perry

County Health Dept.

Mitigation Actions: Planning

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Wind & Tornado- Brochure

Title: Wind & Tornado- Brochure

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: June 04, 2012

End Date: December 01, 2014

Details: develop an informational brochure to distribute to residents

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Hazard Mitigation Grant Program, Local Funds, State Funds

Mitigation Actions: Planning

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Temperature- Brochure

Title: Temperature- Brochure

Funding Sources: Local Funds, State Funds

Priority: 5

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: September 03, 2012

End Date: September 02, 2013

Details: develop an informational brochure to distribute to local residents.

Lat: 0

Long: 0

Jurisdictions: Perry County

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Wildfires- Brochure

Title: Wildfires- Brochure

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: August 01, 2012

End Date: August 05, 2014

Details: distribute information concerning the causes of wildfires and steps the public can take to avoid starting wildfires.

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Local Funds, Other (Please Describe), Other:

ODNR

Mitigation Actions: Planning

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Wildfires- Chimney inspections

Title: Wildfires- Chimney inspections

Funding Sources: Clean Ohio Grant, Local Funds

Priority: 5

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: November 14, 2011

End Date: April 02, 2012

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

Lat: 0

Long: 0

Jurisdictions: Perry County

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Wildfires-Informational

Title: Wildfires-Informational

Priority: 5

Status: New

Estimated Cost: \$

Project Lead:

Start Date: August 01, 2012

End Date: August 04, 2014

Details: Encourage residents to maintain property in
or near wild land areas.

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Clean Ohio Grant, In-Kind (Work or Labor),
Local Funds

Mitigation Actions: Planning

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Mutual Aid agreements

Title: Mutual Aid agreements

Funding Sources: Local Funds

Priority: 5

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: November 29, 2013

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

Lat: 0

Long: 0

Jurisdictions: Monday Creek Township

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Severe Thunderstorms warnings

Title: Severe Thunderstorms warnings
Funding Sources: Hazard Mitigation Grant Program, Local Funds
Mitigation Actions: Planning

Priority: 6

Status: New

Estimated Cost: \$

Project Lead:

Start Date: March 01, 2012

End Date: March 01, 2011

Details: Coordinate with the National Weather Service to warn residents of impending storms

Lat: 0

Long: 0

Jurisdictions: Perry County

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Thunderstorms- EAS

Title: Thunderstorms- EAS

Priority: 6

Status: New

Estimated Cost: \$

Project Lead:

Start Date: May 01, 2012

End Date: September 01, 2014

Details: Encourage the use of EAS 1v1.1.1 Provide public service messages detailing what actions residents should take to safeguard themselves during a severe thunderstorm 1H.1.1

Lat: 0

Long: 0

Jurisdictions: Jackson Township, Perry County, Somerset

Funding Sources: Hazard Mitigation Grant Program, Local Funds
Mitigation Actions: Planning

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Hailstorm- Media releases

Title: Hailstorm- Media releases

Funding Sources: Local Funds

Priority: 6

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: May 01, 2012

End Date: December 02, 2013

Details: Coordinate efforts with the local media to post advance warnings of hailstorms

Lat: 0

Long: 0

Jurisdictions: Perry County

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Hailstorm - Notification

Title: Hailstorm - Notification

Funding Sources: Local Funds

Priority: 6

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: May 01, 2012

End Date: December 02, 2013

Details: Encourage the use of NOAA weather radios that broadcast the national weather service forecasts and provides direct warnings to the public for natural, technological, and man made hazards.

Lat: 0

Long: 0

Jurisdictions: Perry County

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Wind & Tornado-Warning

Title: Wind & Tornado-Warning

Funding Sources: Local Funds, State Funds

Priority: 6

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: April 01, 2012

End Date: April 01, 2013

Details: Coordinate with NWS to warn residents of impending severe weather

Lat: 0

Long: 0

Jurisdictions: Perry County

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Wind & Tornado - Sirens

Title: Wind & Tornado - Sirens

Funding Sources: Community Development Block Grant, Hazard Mitigation Grant Program

Priority: 6

Status: New

Mitigation Actions: Planning

Estimated Cost: \$

Project Lead:

Start Date: April 02, 2012

End Date: November 03, 2014

Details: Purchase and install warning sirens

Lat: 0

Long: 0

Jurisdictions: Perry County

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Epidemic-brochure

Title: Epidemic-brochure

Funding Sources: Other (Please Describe), Other: HD ODH

Priority: 6

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: August 01, 2012

End Date: August 01, 2013

Details: Identify the source of the epidemic and determine actions for the general public to take to reduce or slow down the spread of the epidemic.

Lat: 0

Long: 0

Jurisdictions: Perry County

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Dam Safety Inspections

Title: Dam Safety Inspections

Funding Sources: Hazard Mitigation Grant Program

Priority: 8

Mitigation Actions: Planning, Reconstruction, Soil Stabilization

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: January 02, 2014

Details: Coordinate with ODNR, Dam Safety to conduct periodic safety inspections of existing dams and garner community support for the removal and repair of dams in disrepair.

Lat: 0

Long: 0

Jurisdictions: Perry County

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Dam Reclassification

Title: Dam Reclassification

Funding Sources: Hazard Mitigation Grant Program, Local Funds

Priority: 8

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: January 02, 2014

Details: Coordinate with ODNR to reclassify dams as a result of a change in circumstances to ensure adequate safety according to the potential for downstream damage

Lat: 0

Long: 0

Jurisdictions: Perry County

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Flooding- stream debris cleanup

Title: Flooding- stream debris cleanup

Priority: 9

Status: New

Estimated Cost: \$

Project Lead:

Start Date: April 02, 2012

End Date: October 01, 2014

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

1a.1.1: Reduce ground coverage in upland and drainage areas. 1b.1.1 Clean portions of

Jonathan creek to remove debris. 1i.1.1: Clean portions of Moxahala Creek to remove debris

Lat: 0

Long: 0

Funding Sources: Hazard Mitigation Grant Program, In-Kind (Work or Labor), State Funds

Mitigation Actions: Planning, Soil Stabilization

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Drought- water hauling

Title: Drought- water hauling

Funding Sources: Local Funds, State Funds

Priority: 10

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: February 01, 2012

End Date: February 01, 2013

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

Lat: 0

Long: 0

Jurisdictions: Perry County

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Flooding-streams

Title: Flooding-streams

Priority: 11

Status: New

Estimated Cost: \$

Project Lead:

Start Date: May 01, 2013

End Date: October 31, 2014

Details: undertake diking projects to channel water away from populated areas,, 2B1.1 construct dike near south main st. in Glenford to channel water away

Lat: 0

Long: 0

Jurisdictions: Glenford, Perry County

Funding Sources: Flood Mitigation Assistance Grant, Hazard Mitigation Grant Program, In-Kind (Work or Labor)

Mitigation Actions: Relocation, Retrofit, Soil Stabilization

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Flooding- projects

Title: Flooding- projects

Priority: 12

Status: New

Estimated Cost: \$

Project Lead:

Start Date: September 03, 2012

End Date: September 01, 2014

Details: Conduct acquisition and relocation projects in flood prone areas 1G1.1: also in portions of Shawnee

Lat: 0

Long: 0

Jurisdictions: Perry County, Shawnee

Funding Sources: Flood Mitigation Assistance Grant, Hazard Mitigation Grant Program, In-Kind (Work or Labor), Pre-Disaster Mitigation Grant, Repetitive Flood Claims Program
Mitigation Actions: Acquisition, Elevation, Relocation

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Flooding- storm drainage

Title: Flooding- storm drainage

Priority: 12

Status: New

Estimated Cost: \$

Project Lead:

Start Date: September 03, 2012

End Date: October 31, 2013

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

Lat: 0

Long: 0

Jurisdictions:

Funding Sources: Flood Mitigation Assistance Grant, Hazard Mitigation Grant Program, Pre-Disaster Mitigation Grant

Mitigation Actions: Planning, Reconstruction, Relocation, Stormwater



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Thunderstorm- Surge protection

Title: Thunderstorm- Surge protection

Funding Sources: Local Funds

Priority: 12

Mitigation Actions: Planning

Status: New

Estimated Cost: \$

Project Lead:

Start Date: January 02, 2012

End Date: January 02, 2013

Details: ensure surge protection on all critical electronic equipment owned by county

Lat: 0

Long: 0

Jurisdictions: Perry County

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generators for traffic lights

Title: generators for traffic lights

Priority: 12

Status: New

Estimated Cost: \$

Project Lead:

Start Date: November 03, 2014

End Date: November 02, 2015

Details: backup generators for backup power for traffic lights.

Lat: 0

Long: 0

Jurisdictions: New Lexington, Perry County

Funding Sources: Community Development Block Grant, Hazard Mitigation Grant Program
Mitigation Actions: Planning, Other (Please Describe), Other: purchase generators

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Emergency Water Usage

Title: Emergency Water Usage

Priority: 13

Status: New

Estimated Cost: \$

Project Lead:

Start Date: February 01, 2012

End Date: February 01, 2013

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

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Hazard Mitigation Grant Program
Mitigation Actions: Planning



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SHARPP Mitigation Action

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Winter Storm - Resource database

Title: Winter Storm - Resource database

Priority: 14

Status: New

Estimated Cost: \$

Project Lead:

Start Date: August 01, 2012

End Date: August 04, 2014

Details: develop a resource manual database used for inventory of emergency resources to aid in emergency snow removal.

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Hazard Mitigation Grant Program, Local Funds
Mitigation Actions: Planning

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SHARPP Mitigation Action

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911 Communications

Title: 911 Communications

Priority: 15

Status: New

Estimated Cost: \$

Project Lead: EMA/911

Start Date: August 01, 2011

End Date: November 03, 2014

Details: establish communications system to allow all responders to communicate with each other in a large scale emergency

Lat: 0

Long: 0

Jurisdictions: Perry County

Funding Sources: Community Development Block Grant, Local Funds, State Funds, Other (Please Describe), Other: AFG grant

Mitigation Actions: Planning, Reconstruction, Other (Please Describe), Other: Broadband/microwave system

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