

# 4 MITIGATION STRATEGY

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**44 CFR Requirement 201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.**

This section presents the mitigation strategy developed by the Hazard Mitigation Planning Committee (HMPC) based on the risk assessment. The mitigation strategy was developed through a collaborative group process and consists of goals, objectives, and mitigation actions. The HMPC used the following definitions, which are based upon those found in FEMA publication 386-3, *Developing the Mitigation Plan* (2002):

- **Goals** are general guidelines that explain what you want to achieve. Goals are defined before considering how to accomplish them so that they are not dependent on the means of achievement. They are usually long-term, broad, policy-type statements.
- **Objectives** define strategies or implementation steps to attain the identified goals and are specific and measurable.
- **Mitigation Actions** are specific actions that help achieve goals and objectives.

## 4.1 Goals and Objectives

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The HMPC developed goals and objectives, during the original planning process of 2004, to provide direction for reducing hazard-related losses in Evansville -Vanderburgh County. These were based upon the results of the risk assessment and a review of goals from other community plans that have had public input and review and have already been formally adopted. This information was provided to HMPC to ensure that the Mitigation Planning Goals would be in concert, not in conflict, with other existing community priorities.

During the plan update process, the HMPC reviewed and revised the existing goals and objectives through a collaborative group process. The first goal of public education was modified to also emphasize preparedness. Goals and objectives are listed below, but are not prioritized:

### **Goal 1: Implement a comprehensive Public Education and Preparedness campaign regarding the hazards posing significant risk to Evansville and Vanderburgh County.**

- Promote awareness of Hazards and Vulnerability among citizens, business, industry, school systems, and government.
- Provide information on Hazard Mitigation alternatives and their respective costs, benefit, and impacts.
- Ensure that the information provided is accurate and consistent

- Promote hazard mitigation as a public value in recognition of its importance to the health, safety, and welfare of the population.
- Strengthen communication and coordination between public agencies, citizens, non-profit organizations, business, industry, and school systems to create a widespread interest in hazard mitigation.

**Goal 2 Reduce exposure to hazard related losses, before and after disaster strikes**

- Implement a Pre-Disaster mitigation Program.
- Implement a Post-Disaster mitigation Program.

**Goal 3: Utilize latest technology and data in hazard mitigation activities**

- Maximize “Lead-Time” provided by an all-hazards warning system.

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## 4.2 Identification and Analysis of Mitigation Actions

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

To update the mitigation actions from the previously approved plan, the responsible agency listed for each action provided a status updated as to whether the action was completed, ongoing, or in need of revision. The HMPC used this information to identify and prioritize mitigation actions.

The HMPC also undertook a brainstorming session to generate a set of viable additional alternatives that would support the above goals. Each HMPC member was provided with the following list of categories of mitigation measures:

- 1) **Prevention:** Administrative or regulatory actions or processes that influence the way land and buildings are developed and built
- 2) **Property protection:** Actions that involve the modification of existing buildings or structures to protect them from a hazard or remove them from the hazard area
- 3) **Structural:** Actions that involve the construction of structures to reduce the impact of hazard
- 4) **Natural resource protection:** Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems
- 5) **Emergency services:** Actions that protect people and property during and immediately after a disaster or hazard event
- 6) **Public education and awareness:** Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them

Potential mitigation measures, within each of the six categories, were presented to the HMPC. A facilitated discussion examined and analyzed the alternatives. Then, with an understanding of the alternatives, the HMPC generated a list of preferred mitigation actions to be recommended. The HMPC included all previously recommended mitigation actions in its review. Thus, this plan puts forth existing recommendations that are still to be implemented in addition to the new recommendations that resulted from the HMPC's detailed Risk Assessment process. This plan serves as an update to the existing mitigation plans by identifying the recommendations from previous plans that have already been implemented and by reprioritizing those that remain.

## 4.3 Implementation of Mitigation Actions

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**44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include an action strategy describing how the actions identified in paragraph (c)(2)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefits review of the proposed projects and their associated costs.**

Once the old and new mitigation actions were identified, the HMPC members were provided with decision-making criteria to prioritize the recommended actions. FEMA’s recommended “STAPLE/E” criteria set (social, technical, administrative, political, legal, economic, and environmental criteria) was utilized in order to help decide why one recommended action might be more important, more effective, or more likely to be implemented than another.

Mitigation actions in the 2004 plan were given priority if they were identified as short-term projects due to cost effectiveness and available resources. Other factors for prioritization in 2004 were related to projects that were most vulnerable, have great social impact, are technically feasible, have limited environmental impact, have favorable economic impact, for which the administrative capabilities exist, those with potential politics, and the total expected costs.

Tables 4.1 summarizes identified actions and provides information on the hazards addressed and plan goals achieved. The individual action items, as recommended and prioritized by the HMPC, are presented in order of priority. Each action item includes the background information, ideas for implementation, responsible office, potential funding, cost estimates, benefits, and timeline for each identified action. Completed action items, as noted in table 4.1, are presented in Appendix D.

**Table 4.1. Mitigation Action Matrix**

<b>Jurisdiction</b>	<b>Action</b>	<b>HMPC Priority</b>	<b>Goals Addressed</b>	<b>Hazards Addressed</b>	<b>Status</b>
Multi-Jurisdictional	1. Develop and conduct a multi-hazard, seasonal Public Awareness Program that provides citizens and businesses with accurate information describing the risk and vulnerability to natural hazards, and is implemented on an annual basis.	High	Goal 1	Multi-Hazard	Ongoing
Multi-Jurisdictional	2. Develop dedicated website page for multi-hazard mitigation information.	High	Goal 1, 3	Multi-Hazard	New
Multi-Jurisdictional	3. Purchase and install stream gages and water table gages to provide flood warning capabilities.	High	Goal 3	Flooding, Severe Weather	Ongoing
Multi-Jurisdictional	4. Explore partnerships to provide retrofitting classes for homeowners, renters, building professionals, and contractors.	High	Goal 1, 2	Earthquakes	Ongoing
Multi-Jurisdictional	5. Incorporate the hazard identification, risk assessment, and mitigation strategies into the 2011 – 2035 Comprehensive Plan for Evansville and Vanderburgh County.	Medium	Goal 2	Multi-Hazard	Ongoing
Vanderburgh County	6. Develop County-Wide Stormwater Master Plan to provide relief from run-off and flooding resulting from rainfall events.	Medium	Goal 2	Flooding	Ongoing
City of Evansville	7. Based on existing City Stormwater Master Plan, develop formalized policies (level-of-service and extent-of-service) for maintenance of the storm water drainage system.	Medium	Goal 2	Flooding	Ongoing

<b>Jurisdiction</b>	<b>Action</b>	<b>HMPC Priority</b>	<b>Goals Addressed</b>	<b>Hazards Addressed</b>	<b>Status</b>
Multi-Jurisdictional	8. Update repetitive loss areas adjacent to the repetitive loss properties as new claim information is reported.	Medium	Goal 2	Flooding	Ongoing
Multi-Jurisdictional	9. Develop a property acquisition plan and associated policies to acquire prioritized properties in the repetitive loss areas.	Medium	Goal 2	Flooding	Ongoing
City of Evansville	10. Coordinate City of Evansville design requirements for Detention/Retention Ponds with requirements of Vanderburgh County.	Medium	Goal 2	Flooding	Revised
Multi-Jurisdictional	11. Encourage purchase of earthquake hazard insurance throughout Vanderburgh County, including the City of Evansville and the Town of Darmstadt.	Medium	Goal 2	Earthquakes	Ongoing
Multi-Jurisdictional	12. Purchase and distribute NOAA weather radios throughout Vanderburgh County, including the City of Evansville and the Town of Darmstadt.	Medium	Goal 1, 2	Severe Weather	Ongoing
Multi-Jurisdictional	13. Identify electronic notification services for weather information and provide information to public.	Medium	Goal 1, 3	Multi-Hazard	Revised
Vanderburgh County	14. Expand warning siren coverage into new areas as development and housing expand.	Medium	Goal 3	Multi-Hazard	Ongoing
Multi-Jurisdictional	15. Continue efforts to train local contractors and property owners in tree trimming practices.	Low	Goal 1, 2	Severe Weather	Ongoing
Multi-Jurisdictional	16. Continue coordination to select locations for tornado safe rooms. Potential sites are located throughout Vanderburgh County, including the City of Evansville, the Town of	Low	Goal 2	Severe Weather	Ongoing

Jurisdiction	Action	HMPC Priority	Goals Addressed	Hazards Addressed	Status
	Darmstadt, and Red Cross, private and public sector.				
Multi-Jurisdictional	17. Pursue alternative funding sources for structural retrofits to critical facilities.	Low	Goal 2	Earthquake	Revised
Multi-Jurisdictional	18. Investigate financial incentives for property owners to make seismic retrofits to existing buildings, particularly unreinforced masonry structures, located within the earthquake hazard area. Pursue alternative funding sources for structural retrofits for critical facilities.	---	---	---	Re-organized
Multi-Jurisdictional	19. Distribute National Flood Insurance Program information.	Low	Goal 1	Flood	New
Multi-Jurisdictional	20. Coordinate annual meetings of the Vanderburgh County Multi Hazard Mitigation Planning Committee to monitor, evaluate, and update the multi-hazard mitigation plan.	Low	Goal 2	Multi-Hazard	New
<b>Completed Action Items</b>					
City of Evansville	1. Complete a review of all historically proposed capital improvement projects and develop a priority list for implementation	Low	Goal 2	Multi-Hazard	Completed
Multi-Jurisdictional	2. Continue program with Habitat for Humanity to provide materials for strapping down hot water heaters and hurricane clips.	Low	Goal 2	Multi-Hazard	Completed
Multi-Jurisdictional	3. Develop method for record keeping of levee maintenance efforts. Task requires coordination with the Levee Authority	Medium	Goal 2	Flooding	Completed

<b>Jurisdiction</b>	<b>Action</b>	<b>HMPC Priority</b>	<b>Goals Addressed</b>	<b>Hazards Addressed</b>	<b>Status</b>
	and U.S. Army Corps of Engineers, Louisville District.				
Multi-Jurisdictional	4. Investigate potential to include residential seismic requirements in the Building Code.	Medium	Goal 2	Earthquakes	Completed
Multi-Jurisdictional	5. Develop a plan and schedule to modify and enhance the existing Building Code regulations to require hurricane clips with the intent of minimizing future damages from high winds and tornadoes.	Medium	Goal 2	Multi-Hazard	Completed
Multi-Jurisdictional	6. Investigate the potential for utilizing the 211 system for Indiana	Low	Goal 3	Multi-Hazard	Completed

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## Recommended Action Items

### Mitigation Action 1 – Public Awareness Program

<b>Project Description:</b>	<p>Develop and Conduct a multi-hazard, seasonal Public Awareness Program that provides citizens and businesses with accurate information describing the risk and vulnerability to natural hazards, and is implemented on an annual basis.</p> <p>Vanderburgh County is subject to several natural hazards, each of which poses a different degree of risk and associated vulnerability. Some hazards have a combination of attributes, including a high likelihood of occurrence, a specific location that is likely to be affected, and proven approaches that can reduce the impact; therefore the HMPC has recommended that specific actions be taken in regard to these hazards.</p> <p>For other hazards, where either the likelihood of occurrence is very low, the area of likely impact cannot be specified, or there is very little that can be done to reduce the impacts of the hazard, the HMPC has determined that the best approach would be to raise public awareness.</p>
<b>Local Prioritization:</b>	High
<b>Primary Hazard :</b>	Multi-Hazard
<b>Progress and/or Implementation:</b>	<ul style="list-style-type: none"> <li>• Continue to educate the public on the appropriate office or point of contact for hazard information;</li> <li>• Continue mailing to repetitive loss properties and potentially all properties located within the floodplain regarding the ongoing potential for flooding and flood safety information;</li> <li>• Continue to distribute Multi-Hazard Information and Emergency Preparedness pamphlets to residential sectors, specifically noting Habitat for Humanity; Local Apartment Associations; Realtor Association; Neighborhood Associations; Mobile Home Parks; United Neighborhoods of Evansville; and Evansville Housing Authority;</li> <li>• Determine distribution locations for Multi-Hazard Information and Emergency Preparedness pamphlets within the Town of Darmstadt;</li> <li>• Continue to coordinate with Safety Week at Eastland Mall and local businesses, upon request</li> <li>• Continue to coordinate with local churches for emergency planning;</li> <li>• Utilize the Main Library as a distribution location for multi-hazard</li> </ul>

	<p>information and access point for digital/technology information;</p> <ul style="list-style-type: none"> <li>• Add websites for digital information (See Action Item #2)</li> <li>• Maximize consistency , coordination, and accuracy of hazard information presented in the public and private school systems;</li> <li>• Educate the local television, radio, and newspaper media on Multi-Hazard information, specifically noting driver safety education; and</li> <li>• Investigate public education opportunities for the commercial community.</li> <li>• Investigate financial incentives for property owners to make seismic retrofits to existing buildings; particularly un-reinforced masonry structures, located within the earthquake hazard area.</li> </ul>
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Indiana State Emergency Management Agency, American Red Cross
<b>Funding Description:</b>	Existing operating budgets; 5% set aside from future HMGP funding and PDM funds
<b>Total Cost:</b>	\$5-20,000 depending upon printing and mailing costs, level of volunteer participation, and scope and frequency of events.
<b>Benefits: (Losses Avoided)</b>	Life safety, property protection
<b>Completion Date:</b>	Ongoing; annual campaign

## Mitigation Action 2 – Website

<b>Project Description:</b>	Develop a dedicated website page for multi-hazard information
<b>Local Prioritization:</b>	High
<b>Primary Hazard :</b>	Multi-Hazard
<b>Progress and/or Implementation:</b>	New In order to provide a central location of information in digital format, the Evansville-Vanderburgh County Emergency Management Agency will develop a webpage dedicated to multi-hazard information and preparedness. The website will maximize consistency , coordination, and accuracy of hazard information.
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Area Planning Commission; American Red Cross
<b>Funding Description:</b>	Existing Budgets; HMGP and PDM Funding
<b>Total Cost:</b>	\$5-20,000 for website development
<b>Benefits: (Losses Avoided)</b>	Efficient dissemination of information; Life safety, property protection
<b>Completion Date:</b>	New; Within 2 years

### Mitigation Action 3 – Stream Gages

<b>Project Description:</b>	Purchase and install stream gages and water table gages to provide flood warning capabilities.
<b>Local Prioritization:</b>	High
<b>Primary Hazard :</b>	Flooding, Severe Weather
<b>Progress and/or Implementation:</b>	Vanderburgh County will continue to be in contact with USGS about the National Stream Flow Information Program with the continued potential to install a monitoring gage on Pigeon Creek and plan to coordinate with neighboring counties.
<b>Lead Agency:</b>	Building Commission
<b>Partners:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Funding Description:</b>	USGS; Existing Budgets; HMGP and PDM Funding; National Weather Service
<b>Total Cost:</b>	\$15,000; \$15,000 maintenance
<b>Benefits: (Losses Avoided)</b>	Stream gages and water table gages are the first step toward a flood warning system. Although a flood warning system generally does not provide long-term damage reduction, it can alleviate health and safety risk by providing citizens time to escape and possibly remove belongings that could be damaged.
<b>Completion Date:</b>	Ongoing; Within the next 5 years, as Federal funding becomes available.

## Mitigation Action 4 – Structural Retrofitting Classes

<b>Project Description:</b>	Explore partnerships to provide retrofitting classes for homeowners, renters, building professionals, and contractors.
<b>Local Prioritization:</b>	High
<b>Primary Hazard :</b>	Earthquakes
<b>Progress and/or Implementation:</b>	Due to department administrative changes this action was not completed within the 5-years following plan adoption. The HMPC continues to see the benefit in a structural retrofit class and will continue to pursue development of this action.
<b>Lead Agency:</b>	Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Building Commission
<b>Funding Description:</b>	Business Partners
<b>Total Cost:</b>	Staff Time / Existing Budgets
<b>Benefits: (Losses Avoided)</b>	Life-Safety; Continued community development within historical districts
<b>Completion Date:</b>	Ongoing; to be completed within the next 2-3 years

## Mitigation Action 5 – Incorporation of Mitigation Strategy into Comprehensive Plan

<b>Project Description:</b>	Incorporate the hazard identification, risk assessment, and mitigation strategies into the 2011– 2035 Comprehensive Plan for Evansville and Vanderburgh County.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Multi-Hazard
<b>Progress and/or Implementation:</b>	Comprehensive Plan will be incorporate goals, objectives and action items after the Multi-Hazard Mitigation Plan is updated.
<b>Lead Agency:</b>	Area Planning Commission
<b>Partners:</b>	Vanderburgh County Emergency Management Agency
<b>Funding Description:</b>	No potential funding necessary
<b>Total Cost:</b>	Existing staff time during periodic Plan update
<b>Benefits: (Losses Avoided)</b>	Improved and coordinated planning efforts, efficient use of existing resources
<b>Completion Date:</b>	Ongoing; Comprehensive Plan is scheduled for an update in 2011 and is updated every five years.

## Mitigation Action 6 – Countywide Stormwater Master Plan

<b>Project Description:</b>	<p>Develop County-Wide Stormwater Master Plan to provide relief from run-off and flooding resulting from rainfall events.</p> <p>Generally, Stormwater Master Plans are made for sub-watersheds, and include master drainage planning, construction, and maintenance elements. They can also propose new development regulations and drainage utility fees to pay for the necessary improvements. The overall intent is to allow the community to address increasing runoff as there are increases in impervious surfaces (roofs, sidewalks, roads, parking lots), and to plan for drainage in a comprehensive manner so that development in one area has minimal impacts on another, either up or downstream, minimizing future flood damage.</p>
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Flooding
<b>Progress and/or Implementation:</b>	<p>Ongoing</p> <p>Specific drainage basin studies have been completed, but currently there is a hold due to lack of funding. County will continue to work towards more basin studies and explore funding opportunities.</p>
<b>Lead Agency:</b>	Vanderburgh County Engineer
<b>Partners:</b>	County Surveyor, Drainage Board
<b>Funding Description:</b>	County Budget; PDM and HMGP Funding
<b>Total Cost:</b>	\$100,000 for watershed studies and stormwater feasibility analysis
<b>Benefits: (Losses Avoided)</b>	Long-term reduction in future damages
<b>Completion Date:</b>	Ongoing; Within the next 5 to 10 years, as funding becomes available

## Mitigation Action 7 – Stormwater Policies

<b>Project Description:</b>	Based on existing City Stormwater Master Plan, develop formalized policies (level-of-service and extent-of-service) for maintenance of the storm water drainage system. Currently the City cleans stormwater inlets on a rotating 2-year cycle.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Flooding
<b>Progress and/or Implementation:</b>	Ongoing Continue to clean inlets and laterals in a 2 year cycle. Additional level of service to be developed.
<b>Lead Agency:</b>	City Engineer
<b>Partners:</b>	Street Maintenance; Evansville Water & Sewer Utilities
<b>Funding Description:</b>	Existing Budget
<b>Total Cost:</b>	\$20,000
<b>Benefits: (Losses Avoided)</b>	Regular maintenance, such as sediment and debris clearance, is necessary for the storm sewer system to carry out its design function.
<b>Completion Date:</b>	Ongoing; Plan to clean inlets and laterals in a 2 year cycle



## Mitigation Action 8 – Repetitive Loss Areas

<b>Project Description:</b>	Define repetitive loss areas adjacent to the repetitive loss properties in order to identify problematic areas and educate appropriate residents on the flooding hazard.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Flooding
<b>Progress and/or Implementation:</b>	Repetitive loss properties continue to be reported. As new locations are added, mitigation and education efforts are focused on these areas. Repetitive Loss Areas are defined and mapped by the Area Plan Commission (See Appendix C). This allows for the creation of zones around these properties to use for mailing educational materials to the residents within that zone.
<b>Lead Agency:</b>	Area Planning Commission
<b>Partners:</b>	Building Commission, Evansville-Vanderburgh County Emergency Management Agency
<b>Funding Description:</b>	None necessary
<b>Total Cost:</b>	Existing staff time and budget
<b>Benefits: (Losses Avoided)</b>	Targeting public information and mitigation efforts on a known problem area.
<b>Completion Date:</b>	Ongoing; This action will be annually reviewed and updated.

## Mitigation Action 9 – Residential Property Acquisition Plan

<b>Project Description:</b>	Develop a property acquisition plan and associated policies to acquire prioritized properties in the repetitive loss areas.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Flooding
<b>Progress and/or Implementation:</b>	Currently there is a lack of funding for this mitigation action. The Plan committee has approached the Department of Metropolitan Development (DMD) to discuss funding source opportunities since they are experienced in grant writing and management.
<b>Lead Agency:</b>	Area Planning Commission
<b>Partners:</b>	Building Commission, Evansville-Vanderburgh County Emergency Management Agency
<b>Funding Description:</b>	Existing Budget
<b>Total Cost:</b>	\$40,000
<b>Benefits: (Losses Avoided)</b>	Life-Safety; Permanent restrictions on development within a defined problem area
<b>Completion Date:</b>	Ongoing; Within 5 to 10 years, as funding becomes available

## Mitigation Action 10 – Detention/Retention Pond Design Requirements

<b>Project Description:</b>	City to coordinate design requirements of Detention/Retention Ponds. Vanderburgh County has had an ordinance that addresses the design requirements for detention/retention ponds since 1994. The City Engineering Department's unwritten policy has been to follow the County Ordinance.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Flooding
<b>Progress and/or Implementation:</b>	The City will continue to pursue the development of a City Ordinance for detention/retention pond design requirements.
<b>Lead Agency:</b>	Evansville City Engineer
<b>Partners:</b>	Vanderburgh County Engineer; Building Commission
<b>Funding Description:</b>	Existing Budget
<b>Total Cost:</b>	Staff Time
<b>Benefits: (Losses Avoided)</b>	Consistent design methods throughout the county to reduce runoff following construction and development.
<b>Completion Date:</b>	Ongoing; Within 5 to 10 years

## Mitigation Action 11 – Earthquake Hazard Insurance

<b>Project Description:</b>	Encourage purchase of earthquake hazard insurance throughout Vanderburgh County, including the City of Evansville and the Town of Darmstadt.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Earthquakes
<b>Progress and/or Implementation:</b>	Evansville-Vanderburgh County Emergency Management Agency continues to educate the local television, radio and newspaper media on Multi-Hazard information, specifically earthquake risks and insurance.
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	None
<b>Funding Description:</b>	None necessary
<b>Total Cost:</b>	\$1,000, existing education/public awareness budget
<b>Benefits: (Losses Avoided)</b>	Life-Safety
<b>Completion Date:</b>	Ongoing

## Mitigation Action 12 – NOAA Weather Radios

<b>Project Description:</b>	Purchase and distribute NOAA weather radios throughout Vanderburgh County, including the City of Evansville and the Town of Darmstadt.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Severe Weather
<b>Progress and/or Implementation:</b>	Distributed 100 weather radios to lower income / high-risk families, mobile home parks, and households.  Continue to coordinate with local news media campaign to distribute NOAA weather radios.
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Local News Media; Habitat for Humanity
<b>Funding Description:</b>	Coordinated project with local News and Radio Station / Business Partners; HMGP and PDM Funds
<b>Total Cost:</b>	\$5,000
<b>Benefits: (Losses Avoided)</b>	Life-Safety
<b>Completion Date:</b>	Ongoing

## Mitigation Action 13 – Electronic Notification Service

<b>Project Description:</b>	<p>Investigate the potential for utilizing mass electronic notification for information distribution regarding multi-hazard information.</p> <p>Electronic notification may include providing information to citizens on existing notification services, such as interactive NWS. See Action Item #2.</p>
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Multi-Hazard
<b>Progress and/or Implementation:</b>	<p>Revised</p> <p>Currently reviewing vendors and products with Central Dispatch.</p>
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	None
<b>Funding Description:</b>	5% state set aside from future HMGP funding
<b>Total Cost:</b>	\$10,000
<b>Benefits: (Losses Avoided)</b>	Life-Safety; Hazard information readily available and updated for the residents of the community
<b>Completion Date:</b>	Ongoing

## Mitigation Action 14 – Warning Siren Coverage

<b>Project Description:</b>	Expand warning siren coverage into new areas as development and housing expand.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Multi-Hazard
<b>Progress and/or Implementation:</b>	Ongoing Eight warning sirens were added in 2010/2011 Additionally, a gap analysis was performed with GIS mapping to better visualize un-served/uncovered areas with the City and county.
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	None
<b>Funding Description:</b>	HMGP and PDM Funds
<b>Total Cost:</b>	\$45,000
<b>Benefits: (Losses Avoided)</b>	Life Safety
<b>Completion Date:</b>	Ongoing; As funding allows additional warning sirens will be added.

## Mitigation Action 15 – Tree Trimming Practices

<b>Project Description:</b>	Continue efforts to train local contractors and property owners in tree trimming practices.
<b>Local Prioritization:</b>	Low
<b>Primary Hazard :</b>	Severe Weather
<b>Progress and/or Implementation:</b>	<p>Ongoing</p> <p>The Evansville City Arborist administers the Evansville tree pruner’s Licensing Program. This program requires local tree pruners (arborists) to maintain a license to prune or remove trees in the City of Evansville. Free classes are given four times a year.</p> <p>In addition, provide public education on proper tree care and maintenance.</p>
<b>Lead Agency:</b>	County Arborist
<b>Partners:</b>	Urban Forestry Department
<b>Funding Description:</b>	Existing Budgets
<b>Total Cost:</b>	Existing Staff time and budget.
<b>Benefits: (Losses Avoided)</b>	Life-Safety
<b>Completion Date:</b>	Ongoing; annual training program



## Mitigation Action 16 – Tornado Safe Rooms

<b>Project Description:</b>	Continue coordination to select locations for tornado safe rooms. Potential sites are located throughout Vanderburgh County, including the City of Evansville, the Town of Darmstadt, and Red Cross, private and public sector.
<b>Local Prioritization:</b>	Low
<b>Primary Hazard :</b>	Severe Weather
<b>Progress and/or Implementation:</b>	Ongoing As funding becomes available
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Darmstadt Town Board; American Red Cross; Private/Public Sector
<b>Funding Description:</b>	Existing Budgets
<b>Total Cost:</b>	Staff Time / Existing Budget
<b>Benefits: (Losses Avoided)</b>	Life-Safety; Public education for residents within the community
<b>Completion Date:</b>	Ongoing; As funding becomes available

## Mitigation Action 17 – Structural Retrofit of Critical Facilities

<b>Project Description:</b>	Pursue alternative funding for structural retrofit to critical facilities, such as fire stations.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Earthquakes
<b>Progress and/or Implementation:</b>	Revised to focus on critical facilities.
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Fire Department; Building Commission
<b>Funding Description:</b>	Local, state and federal sources
<b>Total Cost</b>	Staff Time / Existing Budgets / University Research Project
<b>Benefits: (Losses Avoided)</b>	Life-Safety; Continued community development within historical districts, assistance to firefighters
<b>Completion Date:</b>	Revised; Within the next 5 years

## Mitigation Action 18 – Financial Incentives for Seismic Retrofits

<b>Project Description:</b>	Investigate financial incentives for property owners to make seismic retrofits to existing buildings, particularly un-reinforced masonry structures, located within the earthquake hazard area. Pursue alternative funding sources for structural retrofits for critical facilities.
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Earthquakes
<b>Progress and/or Implementation:</b>	Reorganized Incorporate with Mitigation Action #1, Public Education
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency
<b>Partners:</b>	Building Commission
<b>Funding Description:</b>	Local, state and federal sources
<b>Total Cost</b>	Staff Time / Existing Budgets / University Research Project
<b>Benefits: (Losses Avoided)</b>	Life-Safety; Continued community development within historical districts, assistance to firefighters
<b>Completion Date:</b>	Reorganized; annual public education campaign (See Action Item #1)

## Mitigation Action 19 – NFIP Information

<b>Project Description:</b>	<p>Distribute National Flood Insurance Program information</p> <p>Having information placed at multiple locations and local libraries will help to inform citizens of Vanderburgh County, the City of Evansville, and Town of Darmstadt of the requirements for floodplain development and the availability of flood insurance.</p>
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Flood
<b>Progress and/or Implementation:</b>	<p>New</p> <p>Copies of publications produced by FEMA for the NFIP would be gathered and reviewed. Copies of the materials could be collected and distributed to local libraries and additional locations</p>
<b>Lead Agency:</b>	Building Commission
<b>Partners:</b>	Evansville-Vanderburgh County Emergency Management Agency; FEMA NFIP
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	16 hours at \$75 per hour = \$1,200
<b>Benefits: (Losses Avoided)</b>	Improve access to information regarding the floodplain development program by public and real estate agents, insurance agents, homeowners, and business owners.
<b>Completion Date:</b>	Fall 2012 and ongoing

## Mitigation Action 20 – HMPC Annual Meeting

<b>Project Description:</b>	<p>Coordinate annual meetings of the Hazard Mitigation Planning Committee to monitor, evaluate, and update the multi-hazard mitigation plan</p> <p>Holding annual meetings to evaluate the plan's progress and effectiveness will help to keep the plan action-oriented and will assist in a smoother five-year update process. This action will also implement the process for monitoring, evaluating, and updating the plan described in Chapter 5 Plan Implementation and Maintenance.</p>
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard :</b>	Multi-Hazard
<b>Progress and/or Implementation:</b>	<p>Evansville-Vanderburgh County Emergency Management Agency will coordinate these meetings. The first annual meeting will be held in October 2012 to evaluate progress and, if necessary, update the hazard mitigation plan. Meeting agendas will incorporate the process described in Chapter 5 Plan Implementation and Maintenance.</p>
<b>Lead Agency:</b>	Evansville-Vanderburgh County Emergency Management Agency Area Planning Commission
<b>Partners:</b>	All agencies involved in initial planning efforts and the Hazard Mitigation Planning Committee
<b>Funding Description:</b>	Existing operating budget
<b>Total Cost:</b>	Minimal staff time
<b>Benefits: (Losses Avoided)</b>	<p>Keep plan current and accurate</p> <p>Improve communication among agencies</p>
<b>Completion Date:</b>	Annually, first meeting October 2012