

All Hazards Mitigation Plan Update

Clermont County, Ohio

Mitigation Strategy Meeting

December 7, 2012



Introductions



Pam Broughton – Planning Lead
Director, Clermont County EMA
pbroughton@clermontcountyohio.gov

John Menninger, PE – Consultant
Stantec Consulting Services, Inc.
john.menninger@stantec.com

Meeting Agenda



Outline

1. Introductions
2. Purpose /Goals
3. Mitigation Project Development
4. Mitigation Activities
5. Next Steps

Hazard Mitigation Plan - Goals



Hazard Mitigation Plan Goal

1. Protect lives and property through identification of Clermont County specific hazards and development of sound mitigation projects
2. Allows for Federal funding for mitigation projects.

Today's Meeting Goal

1. Review Previous Mitigation Goals
2. Identify New Mitigation Goals
3. Develop Prioritization Method

Hazard Mitigation Plan - Overview



Primary Elements

1. Planning
2. Risk Assessment
3. Mitigation Strategies
4. Plan Review and Adoption
5. Plan Maintenance



Mitigation Project Development



Mitigation Project Types

1. Preventative Actions
2. Property Protection
3. Emergency Services
4. Structural Projects
5. Public Information

Mitigation Project Worksheet



CLERMONT COUNTY HAZARD MITIGATION PLAN

Mitigation Strategy
October 31, 2012

Community Name _____ Contact Name _____ Contact Phone No. _____

Mitigation Goals:

1. **Preventative Activities.** Reduce risks through regulations including building codes, development outside of hazardous areas, and local planning or capital improvement projects.
2. **Property Protection.** Reduce exposure to hazards through building or parcel specific activities such as flood proofing, structure acquisition, or retrofitting.
3. **Emergency Services.** Reduce impacts through response and recovery activities that are implemented during a disaster.
4. **Structural Projects.** Minimize impacts through projects, such as detention basins, tornado shelters, tornado sirens, etc.
5. **Public Information.** Assist residents to prepare for risks and protective measures to better protect themselves and their property.

Item Number	Ranking Number [†]	Mitigation Action	Responsible Agency & Contact Person	Funding Source	Implementation Timeline	Estimated Benefits ^{††}	Estimated Costs ^{††}
<i>Example</i>	2	<i>Purchase homes in the 100 year floodplain and convert the space to a park</i>	<i>County Planning Department – Bob Jones, Director</i>	<i>HMGP & General Funds</i>	<i>5 years</i>	<i>Medium</i>	<i>Medium</i>
1.							
2.							
3.							
4.							
5.							

[†] Rank Each Mitigation Action Higher = 1 Lower = 5

^{††} Benefit and Cost estimates should be based on these categories:

Less than \$100,000 = Low
\$100,000 - \$500,000 = Medium
More than \$500,000 = High



Primary Hazards

1. Severe Storms
2. Flooding
3. Tornadoes
4. Landslides
5. Droughts
6. Earthquakes
7. Hazardous Materials
8. Dam Failure
9. Invasive Species
10. Power Failure

Mitigation Strategies– Severe Storms



Mitigation Strategies

Previous Goals

- Use educational outreach (PSAs) to teach residents the importance of ditch maintenance and piping. Coordinate outreach with SWCD. Create "hotspot" database.
- Develop a memorandum of understanding between communities to plan for severe storm recovery.
- Develop several condition levels for severe storm events. Endorse the existing operating conditions (1-5).

Mitigation Strategies– Severe Storms



Mitigation Strategies

Current Goals

- Build/Incorporate Storm Shelters inside Town Hall (Village of Amelia, Washington Township)
- Purchase and Install Backup Generators in Town Hall, Fire Station, Administration Bldg., or Village Hall (Village of Amelia, City of Milford, Washington Township)
- Purchase Weather Radios for Residents (Monroe Township)

Mitigation Strategies– Severe Storms



Mitigation Strategies

Additional Options

- Public Outreach/Education
 - Educational information on the warning systems can be provided through community newsletters/websites and at public meetings and events.
 - Educational information on preparedness measures can be provided through community newsletters/websites and at public meetings and events.

Mitigation Strategies– Winter Storms



Mitigation Strategies

Current Goals

- Build/Incorporate Storm Shelters inside Town Hall (Village of Amelia, Washington Township, Monroe Township)
- Purchase and Install Backup Generators in Town Hall, Fire Station, Administration Bldg., or Village Hall (Village of Amelia, City of Milford, Washington Township)

Potential Goals

- Identify long-term shelters for extended power outages or extreme conditions
- Provide public outreach on weather conditions (Wind Chills, Snow/Ice conditions)
- Interagency cooperation agreements

Mitigation Strategies – Flooding



Mitigation Strategies

Previous Goals

- Public education
- Establish a storm water master plan and storm water utility.
- Evaluate locations for signage at repeated high water locations.
- Use educational outreach (PSAs) to teach residents the importance of ditch maintenance and piping. Coordinate outreach with SWCD. Create a "hotspot" database.

Mitigation Strategies – Flooding



Mitigation Strategies

Current Goals

- Storm Water Management System Improvements/Maintenance (Miami Township)
- Implement Water Management and Sediment Control Regulations (City of Milford)
- Stream Embankment and Pavement Stabilization (Washington Township)
- Replace or Upgrade Existing Storm Water Infrastructure to control flooding, Ditching/Culvert Pipes (Monroe Township, Washington Township)
- Implement Storm Water Relief Plan (Village of Owensville)

Mitigation Strategies – Flooding



Mitigation Strategies

Potential Goals

- Review potential for flood-proofing at-risk structures
- Identify and prioritize acquisition and demolition of repetitive loss structures
- Public Outreach
 - Continue to Identify potential Flooding and Inform citizens through community newsletters/websites and at public meetings and events.

Mitigation Strategies – Tornadoes



Mitigation Strategies

Previous Goals

- Create innovative PSAs on the use of weather radios and seek funding to place weather radios in all critical facilities.
- Seek funding for a countywide inter-operable warning system.
- Seek funding to install multiuse shelters in parks. Work with mobile home parks to install tornado shelters.

Mitigation Strategies – Tornadoes



Mitigation Strategies

Current Goals

- Replace/Install Tornado/Emergency Sirens to provide 95%+ coverage area throughout Villages/Cities and Townships (Pierce Township, Miami Township, City of Milford, Washington Township)
- Provide Shelters for Temporary to Long-Term stay (Monroe Township)

Potential Goals

- Public Outreach/Education
 - Educational information on the warning systems can be provided through community newsletters/websites and at public meetings and events.
 - Educational information on preparedness measures can be provided through community newsletters/websites and at public meetings and events.

Mitigation Strategies – Landslides



Mitigation Strategies

Previous Goals

- Work with the Planning Department to develop standards and regulations for development in landslide prone areas. (vegetation and hill cutting)
- Work with the Planning Department to develop standards and regulations for development in landslide prone areas. (federal and state agencies)
- Work with the Engineer's office to create a memorandum of understanding with other agencies.

Potential Goals

- See above

Mitigation Strategies – Drought



Previous Goals

- Coordinate with the Fire Service Alliance for outreach concerning droughts and wildfires.
- The current site layout of neighborhoods and homes is poor; a fire/buffer zone should surround the home. Work with the Planning Commission to create a buffer zone regulation to prevent the spread of wildfires.
- Develop a map of sensitive populations.
- Develop a PSA to define the use of dry hydrants (work with SWCD).

Potential Goals

- Public Outreach
 - Educational information on preparedness measures can be provided through community newsletters/websites and at public meetings and events.

Mitigation Strategies – Earthquakes



Mitigation Strategies

Previous Goals

- Develop a PSA concerning the effects of earthquakes in Clermont County; target school age children.

Potential Goals

- Public Outreach
 - Educational information on preparedness measures can be provided through community newsletters/websites and at public meetings and events.

Mitigation Strategies – Hazard Material



Mitigation Strategies

Current Goals

- House De-con /HazMat Trailer For Region. (Washington Township)
- Implement/Enforce a Wellhead Protection Plan (City of Milford)

Potential Goals

- Public Outreach
 - Educational information on the warning systems can be provided through community newsletters/websites and at public meetings and events.
 - Prepare plan for groundwater contamination from abandoned landfills



Mitigation Strategies

Potential Goals

- Review potential for acquisition of floodway easements downstream of dams
- Encourage the development of Emergency Action Plans for each dam
- Public Outreach
 - Education and outreach on dam safety risks

Mitigation Strategies – Invasive Species



Mitigation Strategies

Potential Goals

- Public Outreach
 - Public outreach / education on preventing the spread of invasive species
 - Remove invasive vegetation from sensitive areas
 - Continue to Enforce the Firewood Movement Ban for reducing the spread of Emerald Ash Borer and the Asian Longhorned Beetle.

Mitigation Strategies – Power Failure



Mitigation Strategies

Current Goals

- Increase Tree Trimming around power lines along Township Roads (Washington Township)

Potential Goals

- Provide Shelters for Temporary to Long-Term stay for extended periods of power failure.
- Public Outreach
 - Educational information on preparedness measures can be provided through community newsletters/websites and at public meetings and events.

Mitigation Activities – County-wide Prioritization



Mitigation Ranking Categories

- Cost Effective
- Technically Feasible
- Environmentally Sound
- Socially Equitable
- Meets Local Regulations
- Activities Reduce Risk
- Socially Acceptable
- Funding Available

Mitigation Activities – County-wide Prioritization



Provide an Importance ranking of 1 – 3 for each Category

1 = Low

2 = Normal

3 = High

Clermont County All Hazards Mitigation Plan	Cost Effective	Technically Feasible	Environmentally Sound	Socially Equitable	Meets Local Regulations	Activities Reduce Risk	Socially Acceptable	Funding Available	Total
Hazard									

Next Steps



Communities / Stakeholders

1. Review and Provide Input on Mitigation Prioritization
2. Continue Development of Mitigation Goals

Planning Team

1. Complete Mitigation Goals – Finalize Mitigation Activities and Rankings
2. Complete Rough Draft of All Hazards Mitigation Plan

Questions



Pam Broughton – Planning Lead
Director, Clermont County EMA
pbroughton@clermontcountyohio.gov

John Menninger, PE – Consultant
Stantec Consulting Services, Inc.
john.menninger@stantec.com

Mitigation Strategies – General / All Hazards Mitigation Strategies



Current Goals

- Currently using County EOP. We are in process of developing our Township specific EOP. (Pierce Township)
- Policy for Emergency Shelter and Assistance during a disaster - Coordination with Township and School District. (Village of Williamsburg)
- In process of restructuring our Fire and Safety Division (Pierce Township)
- Developed Township Continuity of Operations Plan 2011; now in training & exercise phase. (Miami Township)
- MOU: Task Force One to House Rescue Boat for Region. (Washington Twp.)
- Expanding Rope & Water Rescue Capabilities. (Washington Twp.)
- Purchase ATV for Disaster Assistance. (Washington Twp.)
- Green Addressing Signs for all residential homes. (Washington Twp.)
- Public Outreach
 - Educational information on preparedness measures can be provided through community newsletters/websites and at public meetings and events. (Miami Township, Pierce Township, Washington Township)