

**Appendix A:
Notification Process**

FOR IMMEDIATE RELEASE: February 10th, 2004

Contact: Eugene Branstiter, 937-484-1642

Champaign County to Complete an All Natural Hazard Mitigation Plan

Urbana, OH – The Champaign County EMA is moving forward in making their community disaster resistant by creating an All-Natural Hazards Mitigation Plan. Champaign County has received funding through the Ohio Emergency Management Agency to complete an All Natural Hazard Mitigation Plan. This will be an exciting process that will involve all jurisdictions of Champaign County. Eugene Branstiter, Director for Champaign County EMA, will head the Core Group: a mingling of leaders that has been established within the community. They will have a key role in creating a Mitigation Plan of which the entire County can be proud.

As part of the Disaster Mitigation Act, communities that desire to remain eligible for Federal and State mitigation funds must have an approved Mitigation Plan in place. Local participation is “key” to the successful implementation of these mitigation plans. Please Note: Townships may be covered by their County’s planning effort however all incorporated jurisdictions must participate in their County’s planning effort and adopt the approved plan (individually) in order to remain eligible for federal and state mitigation dollars in the future.

By choosing to participate in the Natural Hazard Mitigation Planning effort your communities (Champaign County and all incorporated jurisdictions) will become eligible for future federal or state mitigation money. This mitigation money usually comes in the form of a grant such as the Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA) or the Pre-Disaster Mitigation Grant Program (PDM), which is to be used to implement mitigation strategies and activities. Examples of eligible activities that could be supported by mitigation dollars include: relocation, acquisitions, elevation, dry-floodproofing, wet-floodproofing, lightning prediction systems, interoperable siren system, stream restorations or any other activity potentially funded with mitigation dollars.

Evans, Mechwart, Hambleton and Tilton (EMH&T), Inc. has been selected to lead this effort and brings to the table a substantial amount of experience in creating these types of plans.

FOR IMMEDIATE RELEASE: October 5th, 2004

Contact: Craig Evans, 937-653-7037

Champaign County Draft All Natural Hazard Mitigation Plan Public Hearing

URBANA, OH – The Champaign County EMA/Department of Homeland Security in coordination with a Core Group of leaders invited to participate has created a draft Champaign County All Natural Hazard Mitigation Plan (Mitigation Plan). This plan, once approved by the Federal Emergency Management Agency will guarantee Champaign County's eligibility to receive mitigation dollars from Federal and State sources in the future. Champaign County is only one of seventeen counties that received funding from the Ohio Emergency Management Agency to complete an All Natural Hazard Mitigation Plan in 2004. Craig Evans, Director for Champaign County EMA, headed up the Core Group, which had representation from all incorporated areas of Champaign County as well as key County Agency representation. Each Core Group member had a key role and was instrumental in moving Champaign County forward in disaster resistance.

This mitigation money usually comes in the form of a grant such as the Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA) or the Pre-Disaster Mitigation Grant Program (PDM), which is to be used to implement mitigation strategies and activities. Examples of eligible activities that could be supported by mitigation dollars include: relocation, acquisitions, elevation, dry-floodproofing, wet-floodproofing, lightning prediction systems, interoperable siren system, stream restorations or any other activity potentially funded with mitigation dollars.

There will be a public hearing on the draft Mitigation Plan on October 18th, at 6:30pm at the Champaign County Community Center, Main Conference Room.

There are several copies of the draft mitigation plan available for review at the following locations:

Appendix Notification to Adjacent Counties (copy)

LOGAN CO
UNION CO
MADISON CO
CLARK CO
MIAMI CO
SHELBY CO

Re: Champaign Countywide All Natural Hazards Plan (Mitigation Plan)

Dear County Commissioners:

The purpose of this letter is to notify adjacent counties that Champaign County is actively developing a Countywide All Natural Hazards Mitigation Plan. The purpose of the CANHMP is to allow all of Champaign County to better plan for natural hazard events. We are also using our Mitigation Plan to meet the mandates of the federal Disaster Mitigation Act of 2000. We also wanted to develop a working plan that would meet the needs of Champaign County, and not be merely a “shelf document.”

We have been advised of the possible potential requirement to notify adjacent communities. ***Therefore, let this letter serve as notification to adjacent communities that Champaign County is actively developing a Countywide All Natural Hazards Mitigation Plan, or Mitigation Plan.***

Please contact us as necessary with any questions, comments, concerns, or for more information or clarification on this or any other environmental planning issue.

Thank you,

Sincerely,

Craig Evans
Deputy Director

CC: Champaign County Board of Commissioners

Eugene Branstiter, Champaign County EMA/Office of Homeland Security
Kari Mackenbach, EMH&T
file

Champaign County Natural Hazards Mitigation Plan Survey

1. Community Name

2. Name, phone number, fax and e-mail address of contact for this community information:

3. Does your community have a web site? If yes, what is the URL address?

4. Please provide background information on your community's "history," such as when it was organized, when it became a city or a village, interesting people from your community, how it got its name and any other important or interesting facts? If you are not familiar with this information, do you know anyone we can contact to get this information? If so, please list these contacts.

5. Can you list any significant historical natural events that occurred in your community? Specifically, have there been any natural disaster events in your community that have left a permanent mark? (i.e., Nicknamed: The Blizzard of 78', The Flood of 1913 etc.)

6. What infrastructure concerns does your community have as it relates to flooding (for example, please list any intersections, culverts, and or bridges that have systemic flooding issues)? If you are not familiar with these, can you provide the name of a contact person in your community that may know?

7. Please provide a list of addresses/phone numbers of all your critical facilities? Critical facilities are defined as hospitals, schools, nursing homes, fire and police stations, government building, prisons etc.? If you do not have this information, can you provide us with a contact in your community that may?

8. Does your community have any facilities that have the ability to hold large crowds such as arenas, sporting events, etc.? If yes, please give the name and location of these facilities.

9. Does your community have any type of early warning detection system(s)?
Please describe:

10. Are any of the following natural hazards a serious concern in your community?
Please rank based on severity with:
3 - being a serious concern,
2 - moderate concern, and
1 - representing no concern :

Hazards	Rank
Floods	
▪ 100-year Floodplain Floods - <i>defined with the NFIP Maps</i>	
▪ Flash Floods - <i>defined as flooding that follows heavy rain</i>	
▪ Non-Flood Zone Floods - <i>defined as flooding that occurs in areas not defined as floodplains, usually in areas that have been developed at a fast rate.</i>	
Tornadoes	
▪ Tornadoes	
Severe Storms - <i>Please Note: Severe storms are a "catch all" of hazards that do not meet other specific criteria.</i>	
▪ Ice Storms	
▪ Hail	
▪ Winter Storms	
▪ Thunderstorms	
▪ High and Low Temperatures	
▪ Lightning	
▪ High Winds	
Earthquakes	
▪ Earthquakes	
Droughts	
▪ Wild land Fires	

11. Are there other natural hazards not mentioned above that your community has experienced?

12. Can you provide the following documents? If you do have any of these documents, may we contact you to get more information?

1. Comprehensive Plan(s)
2. Floodplain Ordinance(s)
3. Land Use Ordinance(s)
4. Organized Watershed Group(s)

Are there any other documents you think we should look at?

Appendix Core Group

Name	Affiliation	Address	Phone	Fax (Please record your fax number if you do NOT have an email address)	E-Mail
Wendell Erelisen	Water/Waste Water Mechanicsburg	18 North Main Street Mechanicsburg, OH	834-3858		NA
Tim Bostic	Mechanicsburg Police Department	18 North Main Street Mechanicsburg, OH	834-2239		NA
Pat Wagner	Urbana Police Department	205 South Main Street Urbana, OH	937-652-4351		pcwag@ctcn.net
Bobbie Moore	Mayor, City of Urbana	205 South Main Street Urbana, OH	937-652-4300		mayor@ctcn.net
Craig Evans	Champaign County EMA	1512 South US 68 Urbana, OH	937-605-1786	937-484-1641	bran@ctcn.net
Barry First	North Lewisburg	60 East Maple N. Lewisburg, OH	937-742-3645	937-747-2122	first@bright.net
Barry Ward	OSU Extension	1512 South US 68, Suite B 100 Urbana, OH	937-484-1526		ward.8@osu.edu
Karen Richards	Champaign County SWCD	1512 South US 68, Suite E 100 Urbana, OH	937-484-1507		karen-morgan@oh.nacdnet.org
Curt Cunningham	Farm Service Agency	1512 South US 68, Suite D 100 Urbana, OH	937-484-1508		curt.cunningham@oh.usda.gov
Terri Jenkins	American Red Cross	685 Bodey Circle Urbana, OH	937-653-7276		ccarc90@ctcn.net
Cindy Keeran	Mechanicsburg EMS	18 North Main Street Mechanicsburg, OH	937-834-2120		clk330@yahoo.com
Keith Slone	Village of Mechanicsburg	18 North Main Street Mechanicsburg, OH	937-834-3187		keithslone@bizwoh.rr.com

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

Name	Affiliation	Address	Phone	Fax (Please record your fax number if you do NOT have an email address)	E-Mail
Officer Tony Risley	St. Paris Police Department	135 East Main Street St. Paris, Ohio	937-663-4468		risley@siscom.net
Chief Jim Pence	St. Paris Police Department	135 East Main Street St. Paris, Ohio	937-663-4468	937-663-0328	NA
Tyler Adkins	St. Paris Street Department	135 East Main Street St. Paris, Ohio	937-834-3187	937-663-0350	Tadkins2@woh.rr.com
John Beedy	Mayor – Mechanicsburg	18 N. Main Mechanicsburg, Ohio 43044	937-834-3187		
Ed Corwin	Red Cross	5573 Willowdale Rd. Urbana, Ohio	937-788-2240		B9236@aol.com
Fereidoun Shokauhi	Champaign County Engineer	428 Beech St. Urbana, Ohio 43078	937-653-4848		engineer@co.champaign.oh.us
Jordan Millice	Shadowing County Engineer	428 Beech St. Urbana, Ohio 43078	937-653-4848		engineer@co.champaign.oh.us
Jene a. Gauer	Champaign County Building Regs	1512 S. Hwy 68, Suite P100 Urbana, Ohio	937-484-1602		jgaver@co.champaign.oh.us
Jenny R. Snapp	LUC Regional Planning Commission	PO Box 219 East Liberty, Ohio 43319	937-666-3431	937-666-6203	jennysnapp@rroho.com
Joe R. Sargeant	Champaign Health District	1512 S. Hwy 68 Suite Q100 Urbana, Ohio	937-484-1605		



June 19, 2004

From the Desk of:

Mr. Eugene Branstiter, Director
Champaign County Emergency Management Agency & Office of Homeland Security
1512 SR 68 Suite C103
Urbana, Ohio 43078
(937) 484-1642

Communities who have not participated thus far include **Village of Mutual, Village of Woodstock and the Village of Christiansburg.**

Dear Mayor :

The Federal Disaster Mitigation Act of 2000 requires that local communities develop a hazard mitigation plan with specific goals and objectives for mitigating natural disasters such as severe winter storms, erosion, flooding and tornadoes. The Champaign County Board of Commissioners received a grant from the Ohio Emergency Management Agency in November of 2003, to support development of a Natural Hazard Mitigation Plan for Champaign County, including all seven political jurisdictions: City of Urbana, Village of St. Paris, Village of Mechanicsburg, Village of North Lewisburg, Village of Christiansburg, Village of Woodstock and the Village of Mutual. All local incorporated communities in Champaign County must have a federally approved plan in order to qualify for pre- or post-disaster mitigation funding. **If you are receiving this letter this means that your community has not participated in the planning process and will be ineligible for mitigation dollars if you chose not to participate.**

In order to assure your community's compliance with these regulations, participation in this planning process is required. We are required to gather specific information from each individual community within the County. We are requesting that each community that has not participated thus far be responsible for the completion of the enclosed survey. There also may be follow-up with some jurisdictions as it relates to questions in the survey.

The Plan will be completed within the next few months. Participating communities can then adopt the Plan created by the County and expedite eligibility for Federal Disaster Mitigation Funding when the next natural disaster occurs. The Plan will also help communities achieve and sustain future economic and community development, growth, and change that incorporate their local values and concerns for resiliency to natural disasters. Although natural weather-related occurrences will continue, this planning process will help local communities lessen their impact.

The Champaign County Emergency Management Agency Core Group, in partnership with Evans, Mechwart, Hambleton & Tilton (EMH&T), is conducting a Hazard Analyses based on available information from federal, state and local community sources, identifying and evaluating potential alternatives for mitigation measures that can be taken in the event of a natural disaster, and creating an action plan for implementation by participating communities. Each local government will receive a copy of the draft Hazard Mitigation Plan for review and comment. There will also be one public meeting on the draft Plan which will be held in early October.

We request your participation in this process and hope that you can attend the next meeting scheduled for July 9th, 2004 at 9:00am-2:30pm at the Champaign County Emergency Management Agency Office of Homeland Security

Please send completed surveys to:

EMH&T
Attention: Kari Mackenbach, CFM
170 Mill Street
Gahanna, Ohio 43230

Phone: (614) 470-9491
Fax: (614) 470-9594 fax

If you would like to receive this survey via e-mail, please send an e-mail requesting the survey to kmackenbach@emht.com.

Thank you for your assistance and participation. We have enclosed a self-addressed, stamped envelope for return of your survey.

Sincerely,

Eugene Branstiter, Director
Champaign County EMA

Encl.

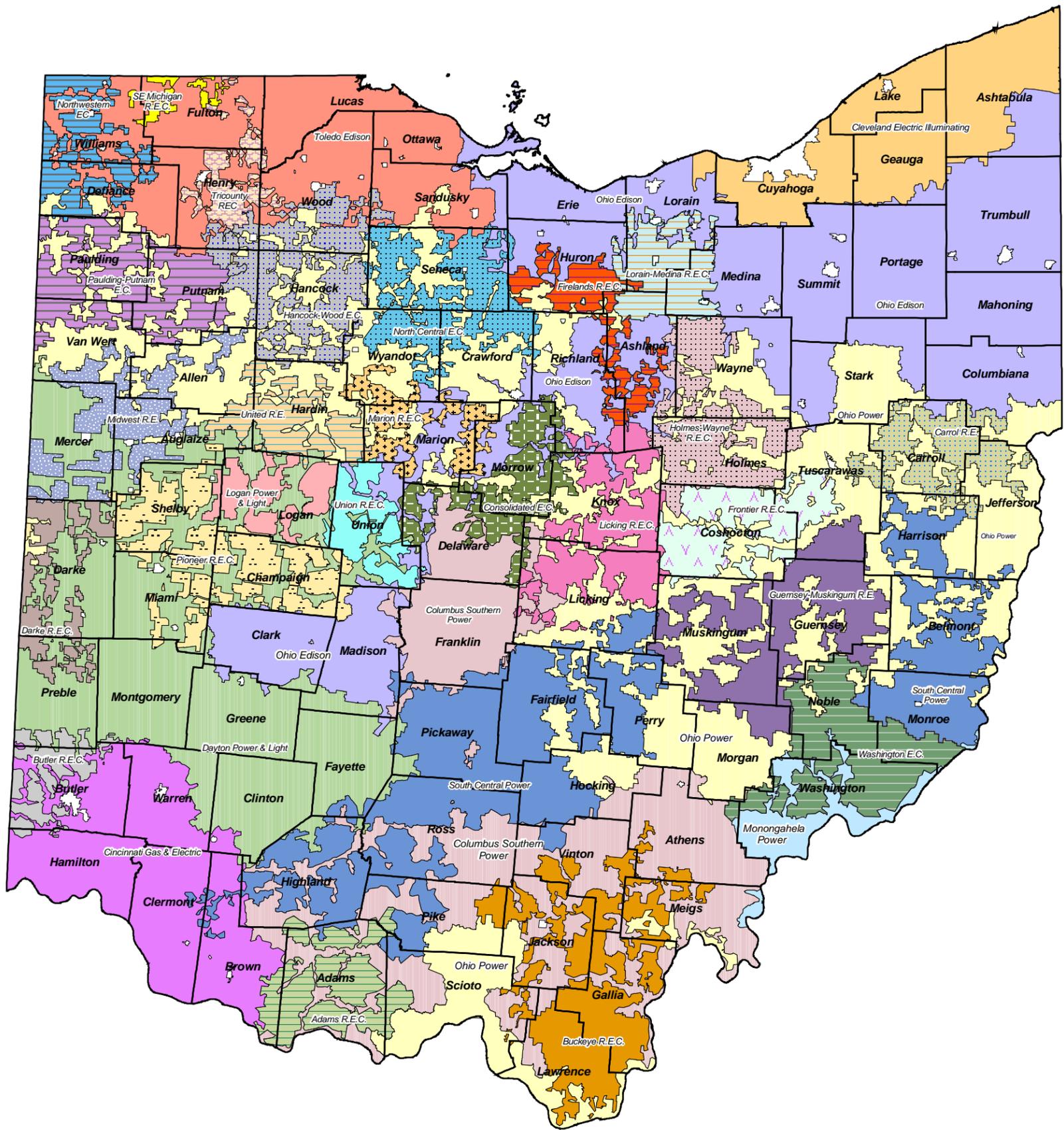
cc: Kari Mackenbach, EMH&T
Eugene Branstiter, Champaign County EMA files
Champaign County Commissioners

Public Comments Received

The public hearing press release was sent out October 5th, 2004. There were no public comments received either before or after the public hearing on October 18th, 2004.

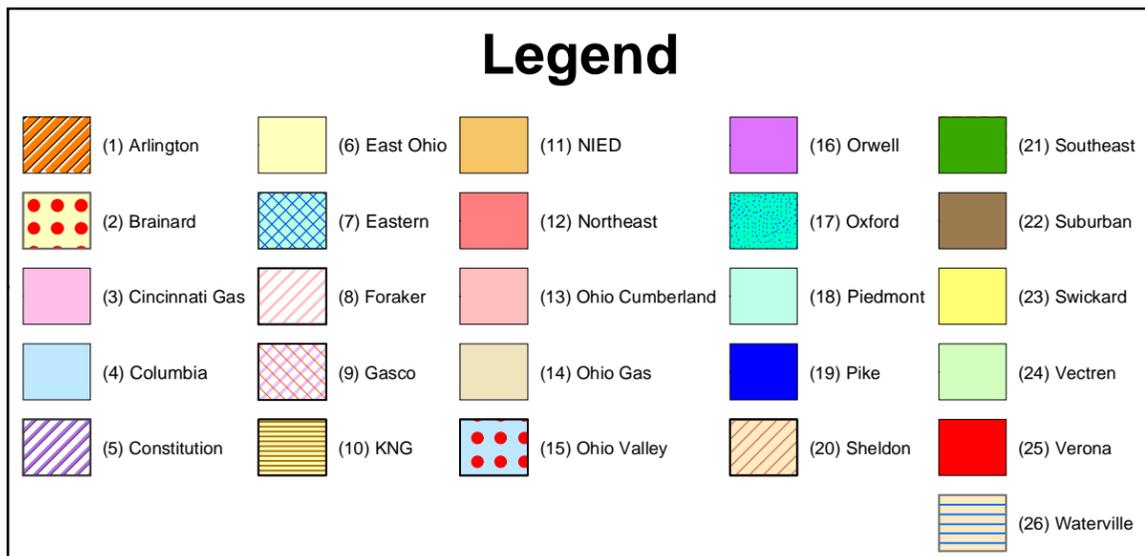
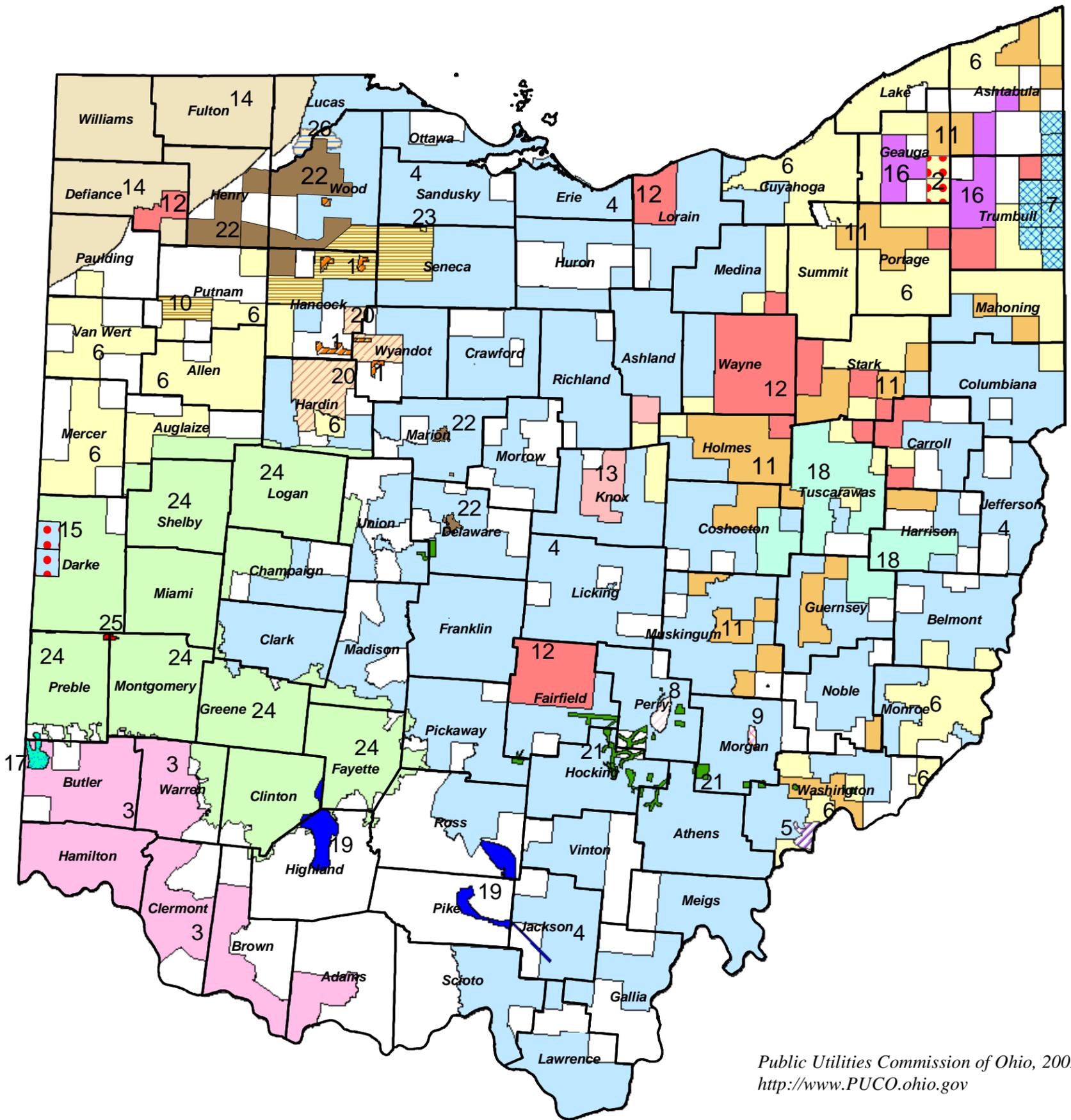
**Appendix B:
Utility Service Maps**

SERVICE AREAS OF OHIO ELECTRIC UTILITIES 2001

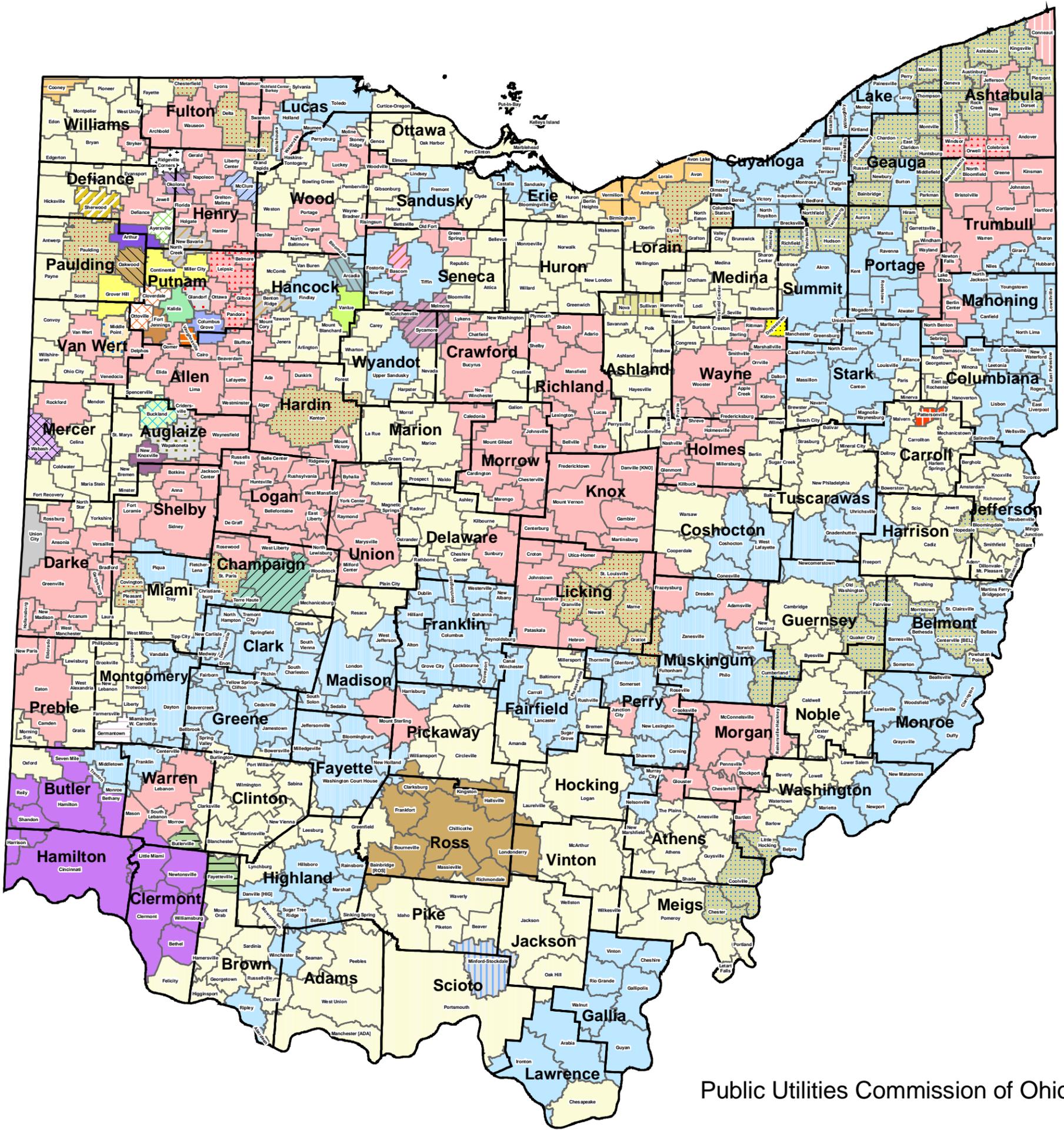


Investor-owned Utilities		Rural Electric Companies			
Cincinnati Gas & Electric	Adams	Firelands	Frontier	Logan	Paulding-Putnam
Cleveland Electric Illuminating	Buckeye	Frontier	Lorain-Medina	Lorain-Medina	Pioneer
Columbus Southern Power	Butler	Guernsey-Muskingum	Marion	Marion	South Central
Dayton Power & Light	Carrol	Hancock-Wood	Midwest	Midwest	Southern Michigan
Monongahela Power	Consolidated	Holmes-Wayne	North Central	North Central	Tricounty
Ohio Edison	Darke	Licking	Northwestern	Northwestern	Union
Ohio Power					United
Toledo Edison					Washington

PUCO Regulated Natural Gas Companies



Telephone Service Areas in Ohio 2003



Public Utilities Commission of Ohio

Large Incumbent LECs

Small Incumbent LECs

Appendix C:
Meeting Minutes

Appendix Kick-off Letter (copy)



AGENDA KICK-OFF MEETING

CHAMPAIGN COUNTY ALL NATURAL HAZARD MITIGATION PLAN

9:00am-11:00am

Champaign County Emergency Management Agency Office of Homeland Security

- **Introductions-Core Group**
- **Presentation on Hazard Mitigation Planning Process**
- **Hazards that affect Champaign County-handout**
- **Task Descriptions/Jurisdiction responsibilities**
- **Review draft Overall Mission Statement**
- **How to involve the public-website?**
- **Set-up remainder of meetings**
- **Next Steps in Process**



Champaign County Emergency Management Agency/Office of Homeland Security

E.A. Branstiter, Director Craig Evans, Deputy Director Heather York, Administrative
Assistant

1512 S. US Hwy 68, Suite C103 Urbana, Ohio 43078

Office: (937) 484-1642 Cellular: (937) 238-3529 Pager: (937) 628-4223 Fax: (937)
484-1641

Email: bran@ctcn.net

All Hazard Mitigation Meeting Minutes

Date: 10 March 04 @ 0900

Attendance:

Wendell Ernelisen, Water/Waste Water Plant Mechanicsburg

Tim Bostic, Mechanicsburg P.D.

Barry First, North Lewisburg Administrator

Craig Evans, Champaign County EMA

Jim Pence, St. Paris P. D.

Tyler Adkins, St. Paris Street Department

Fereidoun Shokouhi, Champaign County Engineer

John Beedy, Mechanicsburg Mayor

Ed Corwin, Red Cross

Jene Gaver, Champaign County Building Dept.

Joe Sargeant, Champaign County Health District

Meeting minutes from 4 Feb. 04 reviewed, no additions/corrections.

Group was led by Kari in developing / drafting problem statements for identified natural hazards.

Overall goals were set for each identified hazard.

Reviewed additional problem statements supplied by Kari from other counties.

Some group discussion on the possibility of local communities being able to activate Tornado sirens remotely (with each community).

Kari is to add tornado paths and land use on County Maps.

Kari then steered the group towards alternatives for mitigation. She is to provide the committee with a matrix that rates mitigation alternatives (to help prioritize).

Fry educated the committee on differences between floodway, flood plain, and flood prone areas.

Kari is to supply maps for flood plans. Current maps are approximately 20 years old. \$ are available for map updates.

Kari will continue to work on sections of the plan to give the committee a feel of what the plan should look like when completed. She will provide individual communities with detailed information specific to their community (she needs input from those individual communities).

Homework: Continue working on problem statements and solutions.

Next Meeting: Friday, May 7th, 2004 (9:00-2:30)

Minutes submitted by Craig Evans



AGENDA

Mitigation Plan Development Meeting

Champaign County All Natural Hazard Mitigation Plan

May 7th, 2004

9:00am-2:30pm

Champaign County Emergency Management Agency Office of Homeland Security

- **Review Minutes from March 10th, 2004**
- **Discuss and Finalize Problem Statements and Mitigation Activities**
- **Review Draft Maps (currently completing critical facilities map)**
- **Review Draft Mitigation Plan (first draft for your review)**
- **Identify Evaluation Criteria (finalize)**
- **Next Steps in Process**



Champaign County Emergency Management Agency/Office of Homeland Security

E.A. Branstiter, Director Craig Evans, Deputy Director Heather York, Administrative
Assistant

1512 S. US Hwy 68, Suite C103 Urbana, Ohio 43078

Office: (937) 484-1642 Cellular: (937) 238-3529 Pager: (937) 628-4223 Fax: (937)
484-1641

Email: bran@ctcn.net

All Hazard Mitigation Meeting Minutes

Date: 14 Jan. 04 @ 0900

Attendance:

Wendell Cornelisen, Water/Waste Water Plant Mechanicsburg

Tim Bostic, Mechanicsburg P.D.

Pat Wagner, Urbana P.D.

Bobbi Moore, City of Urbana Mayor

Barry First, North Lewisburg Administrator

Barry Ward, OSU Extension

Karen Richards, Soil and Water

Curt Cunningham, Farm Service Agency

Terri Jenkins, American Red Cross

Cindy Keeran, Mechanicsburg EMS

Keith Slone, Village of Mechanicsburg

Craig Evans, Champaign County EMA

Meeting began with introductions. An overview of the planning process was presented by Kari Mackenbach of EMH&T Inc. who will serve as our consultant during the planning process and document development.

Ms. Mackenbach provided a list of disasters that have affected Champaign County since 1950 (an earthquake was also included from 1843). A project timeline was presented as well as the three C's of planning (Comprehensive, Coordinated, Collaborative). Ms. Mackenbach emphasized the need for input from those in the community in this plan development.

Much discussion followed as Ms. Mackenbach asked the group to brainstorm on what they (we) felt had the greatest potential for loss of life and property in regard to natural

disasters. The group also discussed possible projects using future mitigation grants/funding (i.e. Culvert repairs, Tornado Shelters).

A need to involve other communities not in attendance was stressed by Ms. Mackenbach. Craig will send a letter to the Mayors of those communities that were identified inviting them to the next meeting (Christiansburg, St. Paris, Woodstock, Mutual).

Ms. Mackenbach asked the group to consider other mitigation projects and to prioritize risk in regard to future disasters to their individual communities for the next meeting.

Next meeting: Wednesday February 4th at 9:00 AM in room G107A at the County Community Center.

Minutes submitted by Craig Evans



Champaign County Emergency Management Agency/Office of Homeland Security

E.A. Branstiter, Director Craig Evans, Deputy Director Heather York, Administrative
Assistant

1512 S. US Hwy 68, Suite C103 Urbana, Ohio 43078

Office: (937) 484-1642 Cellular: (937) 238-3529 Pager: (937) 628-4223 Fax: (937)
484-1641

Email: bran@ctcn.net

All Hazard Mitigation Meeting Minutes

Date: 4 Feb. 04 @ 0900

Attendance:

Wendell Cornelisen, Water/Waste Water Plant Mechanicsburg

Tim Bostic, Mechanicsburg P.D.

Pat Wagner, Urbana P.D.

Bobbi Moore, City of Urbana Mayor

Barry First, North Lewisburg Administrator

Karen Richards, Soil and Water

Curt Cunningham, Farm Service Agency

Terri Jenkins, American Red Cross

Craig Evans, Champaign County EMA

Tony Risley, St. Paris P.D.

Jim Pence, St. Paris P. D.

Tyler Adkins, St. Paris Street Department

Meeting minutes from 14 Jan. 04 reviewed, no additions/corrections.

Reviewed historical events (natural disasters) in Champaign County. It was decided to rank the type of disasters in Champaign County in the following order (based on threat/impact)

1. Severe Storms (Winter, T-Storms/High Winds/Lightning, Hail)
2. Floods
3. Tornadoes
4. Droughts (Extreme)
5. Earthquakes

Kari then assigned homework for those in attendance: List Critical Facilities (i.e. Hospitals, Nursing Homes, Day Care, City/Government buildings, Police departments,

Fire Departments, Water/Waste Water Facilities, Schools) include any existing plans for those facilities, addresses, contact names and phone numbers.

Developed Mission Statement (see Attached)

The group then developed Problem Statements in regard to the disasters

Problem Statements:

Severe Storms - Countywide

- Communications
- Power Outages
- Lack of supplies
- Lack of shelters (and knowledge of locations)
- Educate and inform public on shelter locations
- Lack of preparedness
- Lack of organizing volunteers

Tornadoes – Countywide

- Lack of interoperable Communications
- Lack of individual community's ability to activate sirens
- Evaluate and correct current 911 system
- Power Outages
- Lack of supplies
- Lack of shelters (and knowledge of locations)
- Educate and inform public on shelter locations
- Lack of preparedness
- Lack of organizing volunteers
- Transportation

Flooding – Countywide

- Relocation of People
- New development (building) in the flood plain
- Environment/Health issues
 - Ground water contamination

Severe Droughts – Countywide

- Water wells going dry (rural areas)
- Crop damage
- Livestock
- Fires (grassland/Crops/Rural-Urban interface)

Earthquakes

- Age of existing infrastructure (buildings)

- Lack of education
- Apathy
- Underground infrastructure (utilities)

Get homework completed. Kari will supply maps

Next meeting March 10th 2004 @ 9:00AM in room C107A at the County Community Center

Minutes submitted by Craig Evans

Appendix D:
Draft Problem Statements and
Mitigation Alternatives

DRAFT PROBLEM STATEMENTS FOR CHAMPAIGN COUNTY ALL NATURAL HAZARD MITIGATION PLAN

SEVERE STORMS

The Core Group has prioritized this hazard as their number one concern. Severe storms occur throughout the year in Champaign County, and historically have had a significant impact on the community as a whole and for the individual municipalities.

Core Group Developed Problem Statements

There is a lack of Public Service Announcements (PSA's) in Champaign County as they relate to severe storms.

- ✦ *No Action.*
- ✦ *Increase public awareness by the development of innovative Public Service Announcements.*
- ✦ *Evaluate possible registration of an AM frequency for use in "Emergencies".*

Champaign County residents are accustomed to dealing with severe storms, which creates some apathy as it relates to the seriousness of an event.

- ✦ *No Action.*
- ✦ *Evaluate other communities and how they "react" and/or "respond" to severe storms and make the public aware.*
- ✦ *Evaluate use of Channel 13 to outreach to general public.*
- ✦ *Evaluate potential to utilize school system for innovative outreach to general public.*

Emergency Response resources are strained when a severe storm event occurs in Champaign County, which causes problems in response time and communications between emergency response entities.

- ✦ *No Action.*
- ✦ *1992 - July, 2004 - Evaluate existing plan, Champaign County Emergency Operating Plan (EOP), to see if it needs updated. Utilizing existing emergency response plans in existence (i.e. - Xenia's plan - looking @ their plan).*
- ✦ *Evaluate centralizing 911 systems. There are currently two systems in operation.*

All communities located in Champaign County may not be able to communicate with each other based on the type of communication utilized within a particular community (i.e., actual equipment used, radios, etc.).

- ✦ *No Action.*
- ✦ *Creating a dedicated “radio” channel for decision-makers to utilize for coordination during a disaster.*
- ✦ *Seek funding for better, more reliable, interoperable communication between incorporated and unincorporated areas within Champaign County.*

There needs to be better communication between Champaign County, surrounding counties, and state and federal government agencies during and after severe storm events.

- ✦ *No Action.*
- ✦ *Enhancement of communication efforts between Champaign County and its municipalities with surrounding counties and other agencies within the State of Ohio.*
- ✦ *Mitigation Alternative needs to be “No Action”.*

Severe Storms can have drastic effects on public and critical utilities in Champaign County due to down power lines, tree limbs, etc.

- ✦ *No Action.*
- ✦ *Develop plan for better preparedness for responding entities within Champaign County. Include commercial utility in effort.*
- ✦ *Evaluate having an annual meeting with public utilities.*

There is a lack of lightning detection equipment in Champaign County.

- ✦ *No Action.*
- ✦ *Evaluate the need for lightning detection equipment for the County and Municipal Parks.*
- ✦ *Seek funding for lightning detection equipment within Champaign County’s public Park Systems.*

Overall Goal: *To increase awareness of severe storms, save lives, and the reduction of property damage.*

FLOODING (Including 100-year flood zone, non-flood zone, and flash flooding)

The Core Group has decided to prioritize the natural hazard of flooding as their second highest rated concern. Flooding occurs periodically throughout the year in Champaign County and has had severe affects on several communities within the county.

Core Group Developed Hazard Exposure Statements

Flooding continues to cause property damage both inside and outside of the 100-year Floodplain.

-  ***No Action.***
-  ***Evaluate developing a Watershed Management Plan for changing 100-year floodplain.***
-  ***Evaluate the potential of increased standards for developing within the 100-year floodplain.***
-  ***Seek funding mitigation projects for existing flooding concerns.***

There is a need to identify and decipher between floodplain and flood-prone locations within Champaign County.

-  ***No Action.***
-  ***Work with the County Engineer offices to determine flood-prone properties and designate them as flood-prone properties utilizing GIS.***

Multiple rescue operations are needed when flood events occur, leading to increased taxing of emergency response both during and after events.

-  ***No Action.***
-  ***Evaluate existing emergency operations and equipment within the County and determine the needs across Champaign for handling a severe storm (large scale) disaster.***
-  ***Utilize the local and State resources (i.e. Ohio Fire Chiefs, statewide Mutual Aid Plan).***

There is not sufficient warning time as it relates to flooding in some areas of Champaign County.

-  ***No Action.***
-  ***Evaluate what other communities are doing as it relates to communication techniques.***
-  ***Evaluate the potential for rain gauges (networks) for information real-time.***

There is a need for improved operations to help those residents affected by flood events.

-  ***No Action.***
-  ***Seek Mitigation Funding to increase the number of “real-time” flood detection systems and rain gauges within the metropolitan area of Champaign County.***
-  ***Evaluate existing method for helping disaster victims determine needed area of improvement.***

There is no effort to make the general public aware of high hazard areas through any educational programs.

- ✦ *No Action.*
- ✦ *Educate public about the NFIP and reducing uninsured loss.*
- ✦ *Increase public awareness of high hazard areas, such as floodplains through educational outreach.*

Youth play in flood hazard areas. There needs to be further education focused on youth and the general public about the potential for danger.

- ✦ *No Action.*
- ✦ *Target youth in “K – 12” to educate on the hazards of playing in highly hazardous areas such as drainage basins, floodplains, etc.*

Residents often drive through standing floodwaters.

- ✦ *No Action.*
- ✦ *Evaluate what other communities are doing, as it relates to educating people of the hazards of high water.*

Flooding repeatedly damages existing structures in 100-year floodplain.

- ✦ *No Action.*
- ✦ *Target structures within communities that have been repeatedly flooded with education, buy-outs.*
- ✦ *Evaluate/Determine the locations of these structures within Champaign County.*

Overall Goal: *To save lives and property, reduce damage and to increase education (awareness) of community.*

Strive for better management and maintenance of own streams in Champaign County.

TORNADOES

The Core Group has prioritized the natural hazard of tornadoes as their third highest concern. Tornadoes occur sporadically throughout the County, which has limited capacity to handle the damages caused by this hazard. Champaign's geography of flat terrain lends itself to severe wind and tornadoes.

Core Group Developed Problem Statements

There is a lack of an all inclusive and inter-operable warning system throughout Champaign County.

 ***No Action.***

 ***Seek Mitigation Funding for an interoperable siren system that would cover all of Champaign County.***

Individual community's must rely on Sheriff's Department to actuate sirens and are unable to actuate the siren themselves only after a formal protocol is followed by the Sheriff's Department to verify the sighting of a funnel cloud.

 ***No Action.***

 ***Evaluate current system and determine needed area of improvement. Communicate with Sheriff's Department about concern and need for change.***

Current procedures for dealing with tornado sightings need re-evaluated.

 ***No Action.***

 ***Evaluate procedures for verifying tornado sightings.***

There is a lack of public education and outreach with the general public concerning tornadoes.

 ***No Action.***

 ***Increase public awareness of tornadoes by targeting "K-12"; evaluate current programs for improvement.***

There are no tornado shelters or permanent structures near mobile home communities.

 ***No Action.***

 ***Evaluate location of current shelter locations and determine needs.***

 ***Need to establish Tornado Shelter Network throughout the county.***

 ***Evaluate needs of shelter to have back-up generators.***

 ***Conduct study to determine existing facilities; determine where the gaps are as it relates to shelters.***

Tornado events, specifically the resulting debris removal, are very taxing on communities.

✦ **No Action.**

✦ **Evaluate existing program for coordination of municipalities after disaster clean-up and update Emergency Operation Plan (EOP) with changes.**

There is a lack of coordination for volunteers after an event.

✦ **No Action.**

✦ **Develop Non-Emergency Volunteer Program for all disasters; update EOP. (i.e. Good Samaritan's).**

Transportation routes are severely hampered after a tornado event and there is an inability to redirect due to lack of communication.

✦ **No Action.**

✦ **Evaluate transportation routes within Champaign County and determine (establish) numerous routes; supplement with communication enhancement.**

Propane tanks are not anchored and are a potential hazard during tornadoes.

✦ **No Action.**

✦ **Evaluate adding requirements to control b.c. standards.**

Incorporated and un-incorporated communities in Champaign County have an overall lack of supplies to deal with a tornado event.

✦ **No Action.**

✦ **Evaluate gaps for response and recovery after a tornado and make necessary changes.**

Animal removal and protection during tornadoes is difficult.

✦ **No Action.**

✦ **Evaluate current method and removal; make necessary changes in EOP.**

Overall Goal: To save lives, reduce potential damage, and to increase awareness of the hazards of tornadoes.

DROUGHTS (SEVERE)

The Core Group has decided to prioritize the natural hazard of droughts and wildfires as their fourth highest concern. Droughts often happen in Champaign County, and the potential for crop damage and property damage from fires can be high.

Core Group Developed Problem Statements

Commercial, residential/rural and natural interface exists in many areas of Champaign County increasing the potential for wildfires to cause property damage.

✦ *No Action.*

✦ *Increase awareness of urban/rural interface and the damage potential of such interface.*

Champaign County, being largely rural, has a problem with residential water wells going dry during severe droughts.

✦ *No Action.*

✦ *Determine areas of concern, based on past events, educate land owners of potential problems, and decide what to do in the event of a severe drought.*

There is a lack of knowledge and public awareness of how droughts can lead to wildfires and damages.

✦ *No Action.*

✦ *Increase public awareness of how droughts can lead to wildfires.*

There is a lack of Crop Insurance across the county and no marketing to farmers to carry such insurance.

✦ *No Action.*

✦ *Coordinate with FSA to increase awareness of Crop Insurance.*

Overall Goal: *To reduce potential damage and to increase awareness of drought occurrences throughout Champaign County by increased preparedness.*

EARTHQUAKES

The Core Group has decided to prioritize the natural hazard of earthquakes as their fifth highest concern. Earthquakes have rarely occurred in Champaign County, but the potential for damages from earthquakes could be significant.

Core Group Developed Problem Statements

There are little or no public awareness campaigns occurring in the County as they relate to the seriousness of earthquakes and how an earthquake could affect the community as a whole.

✦ *No Action.*

✦ *Increase public awareness by developing an innovative Public Service Announcement (PSA).*

Some infrastructure in Champaign County, including utilities, roads, and buildings are old thus more susceptible to earthquake related damage.

✦ ***No Action.***

✦ ***Evaluate infrastructure and coordinate with agencies responsible to determine areas of concern.***

Overall Goal: *To reduce the potential loss of lives and damage to property, as well increase awareness.*

**Appendix E:
Alternatives Matrix**

Directions for Filling out the Matrix

We have provided the actual hazard mitigation alternatives and problem statements so that you can refer to them when you are filling out the matrix.

1. Look at each statement under each hazard separately.
2. When you are ready to fill in the matrix you will use a rating criterion from 1 to 5. (5 being considered highest and most important. You may also leave boxes blank if you cannot answer the question.)
3. Don't worry about the Hazard Prioritization Column (we will take care of that).
4. Don't total your scores we will also take care of that component.

For Example:

Under Severe Storms

The second alternative listed says:

Increase public awareness by the development of innovative Public Service Announcements.

To fill in the matrix you must ask yourself several questions while you are filling out the matrix.

Is this statement economically justifiable? Place a rating in the box between 1-5

Is this statement technically feasible? Place a rating in the box between 1-5

Is this statement socially equitable? Place a rating in the box between 1-5

Is this statement environmentally sound? Place a rating in the box between 1-5

Do you feel this statement will be publicly acceptable? Place a rating in the box between 1-5

Once you are finished filling out the matrix I will collect your completed Matrix at our next meeting July 9th, 2004 so please have it filled out by then.

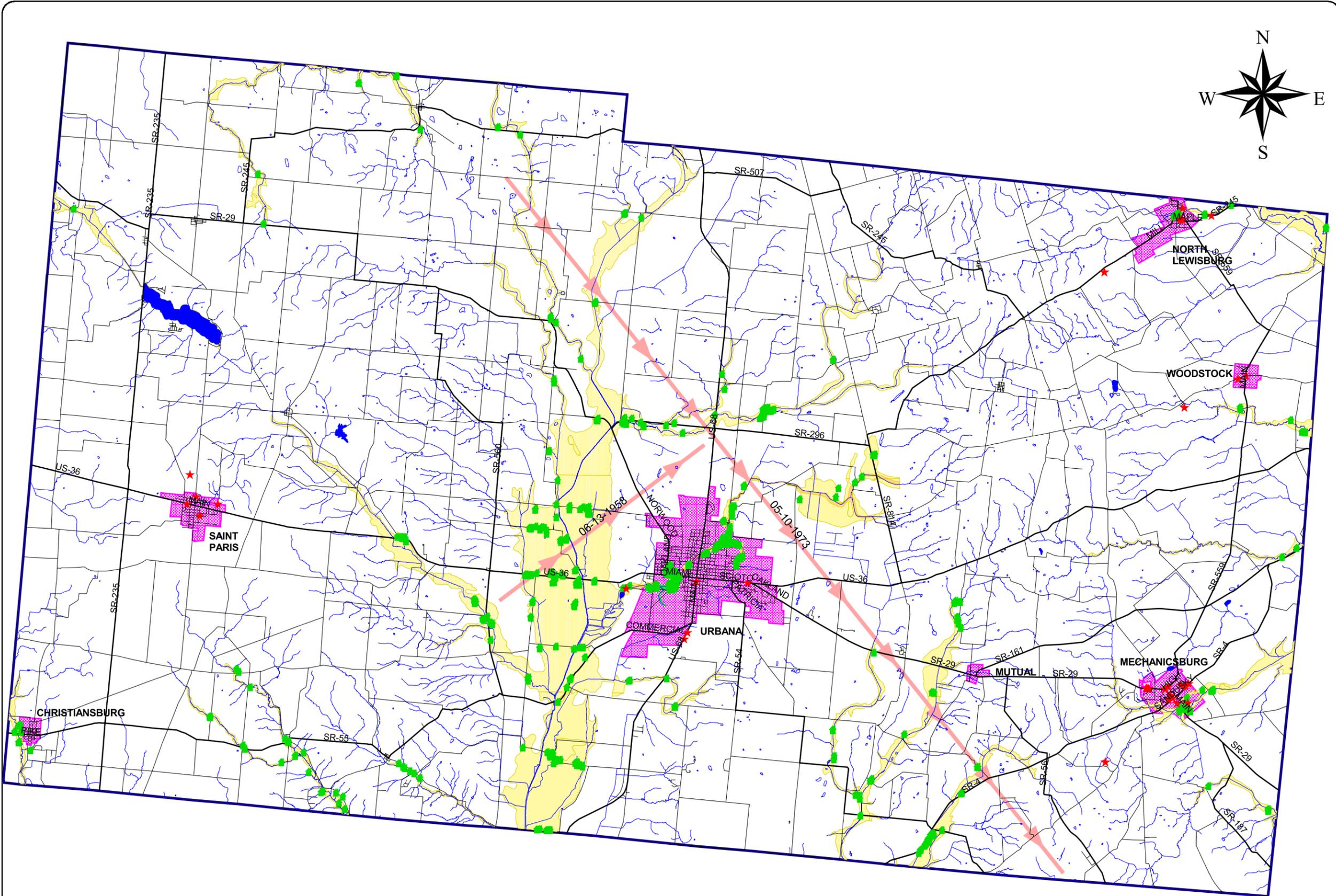
SEE YOU ALL THEN!

Champaign County Mitigation Alternative Results	Matrix Total		Matrix Total		Matrix Total		Matrix Total		Matrix Total		Hazard Prioritization	Totals
Severe Storms												
No Action.	10	10	20	10	5	5	10.0					
Increase public awareness by the development of innovative Public Service Announcements.	25	27	5	25	26	5	18.8					
Evaluate possible registration of an AM frequency for use in "Emergencies".	21	16	24	17	19	5	17.0					
Evaluate other communities and how they "react" and/or "respond" to severe storms and make the public aware.	15	27	29	18	21	5	19.2					
Evaluate use of Channel 13 to outreach to general public.	21	23	24	22	22	5	19.5					
Evaluate potential to utilize school system for innovative outreach to general public.	10	29	27	30	25	5	21.0					
1992 - July, 2004 - Evaluate existing plan, Champaign County Emergency Operating Plan (EOP), to see if it needs updated. Utilizing existing emergency response plans in existence (i.e. - Xenia's plan - looking @ their plan).	21	28	28	29	28	5	23.2					
Evaluate centralizing 911 systems. There are currently two systems in operation.	30	30	27	26	26	5	24.0					
Creating a dedicated "radio" channel for decision-makers to utilize for coordination during a disaster.	25	22	26	24	28	5	21.7					
Seek funding for better, more reliable, interoperable communication between incorporated and unincorporated areas within Champaign County.	20	28	29	28	27	5	22.8					
Enhancement of communication efforts between Champaign County and its municipalities with surrounding counties and other agencies within the State of Ohio.	25	26	28	30	23	5	22.8					
Mitigation Alternative needs to be "No Action".		10	5		5	5	6.3					Rating Scale
Develop plan for better preparedness for responding entities within Champaign County. Include commercial utility in effort.	5	27	29	19	26	5	18.5					1 Low
Evaluate having an annual meeting with public utilities.	10	24	29	30	28	5	21.0					2
Evaluate the need for lightning detection equipment for the County and Municipal Parks.	10	15	27	27	21	5	17.5					3
Seek funding for lightning detection equipment within Champaign County's public Park Systems.	25	16	27	29	24	5	21.0					4
Flooding												5 High
No Action.	9	9	19	9	4	4	9.0					
Evaluate developing a Watershed Management Plan for changing 100-year floodplain.	20	24	22	18	27	4	19.2					
Evaluate the potential of increased standards for developing within the 100-year floodplain.	19	29	23	28	26	4	21.5					
Seek funding mitigation projects for existing flooding concerns.	16	29	29	28	28	4	22.3					
Work with the County Engineer offices to determine flood-prone properties and designate them as flood-prone properties utilizing GIS.	19	25	24	23	27	4	20.3					
Evaluate existing emergency operations and equipment within the County and determine the needs across Champaign for handling a severe storm (large scale) disaster.	24	24	29	29	28	4	23.0					
Utilize the local and State resources (i.e. Ohio Fire Chiefs, statewide Mutual Aid Plan).	24	21	29	27	27	4	22.0					
Evaluate what other communities are doing as it relates to communication techniques.	19	23	23	24	28	4	20.2					
Evaluate the potential for rain gauges (networks) for information real-time.	9	10	24	29	25	4	16.8					
Seek Mitigation Funding to increase the number of "real-time" flood detection systems and rain gauges within the metropolitan area of Champaign County.	14	18	25	28	25	4	19.0					
Evaluate existing method for helping disaster victims determine needed area of improvement.	19	21	4	24	29	4	16.8					
Educate public about the NFIP and reducing uninsured loss.	24	27	27	29	27	4	23.0					
Increase public awareness of high hazard areas, such as floodplains through educational outreach.	24	26	27	28	26	4	22.5					
Target yourh in "K-12" to educate on the hazards of playing in highly hazardous areas such as drainage basins, floodplains, etc.	23	28	29	25	19	4	21.3					
Evaluate what other communities , as it relates to educating people of the hazards of high water.	9	20	29	24	28	4	19.0					
Target structures within communities that have been repeatedly flooded with education, buy-outs.	9	4	19	28	18	4	13.7					

Champaign County Mitigation Alternative Results	Matrix Total		Matrix Total		Matrix Total		Matrix Total		Matrix Total		Hazard Prioritization	Totals
Evaluate/Determine the locations of these structures within Champaign County.	14	19	21	19	16	4	15.5					
Tornados												
No Action.	3	8	21	8	3	3	7.7					
Seek Mitigation Funding for an interoperable siren system that would cover all of Champaign County.	23	15	25	27	21	3	19.0					
Evaluate current system and determine needed are of improvement. Communicate with Sheriff's Department about concern and need for change.	18	16	25	18	22	3	17.0					
Evaluate procedures for verifying tornado sightings.	28	19	28	19	26	3	20.5					
Increase public awareness of tornadoes by targeting "K-12"; evaluate current programs for improvement.	13	16	28	24	25	3	18.2					
Evaluate location of current shelter locations and determine needs.	23	16	28	28	25	3	20.5					
Need to establish Tornado Shelter Network throughout the county.	18	22	28	27	28	3	21.0					
Evaluate needs of shelter to have back-up generators.	18	25	27	28	27	3	21.3					
Conduct study to determine existing facilities; determine where the gaps are as it relates to shelters.	17	28	28	20	27	3	20.5					
Evaluate existing program for coordination of municipalities after disaster clean-up and update Emergency Operation Plan (EOP) with changes.	23	12	28	27	27	3	20.0					
Develop Non-Emergency Volunteer Program for all disasters; update EOP (i.e. Good Samaritan's).	18	8	24	28	26	3	17.8					
Evaluate transportation routes within Champaign County and determine (establish) numerous routes; supplement with communication enhancement.	8	8	22	18	26	3	14.2					
Evaluate adding requirements to control b.c. standards.	23	16	23	24	20	3	18.2					
Evaluate gaps for response and recovery after a tornado and make necessary changes.	16	12	28	21	28	3	18.0					
Evaluate current method and removal; make necessary changes in EOP.	23	8	24	27	29	3	19.0					
Droughts												
No Action.	2	7	23	7	2	2	7.2					
Increase awareness of urban/rural interface and the damage potential of such interface.	22	25	23	21	20	2	18.8					
Determine areas of concern, based on past events, educate land owners of potential problems, and decide what to do in the event of a severe drought.	7	19	23	22	19	2	15.3					
Increase public awareness of how droughts can lead to wildfires.	19	16	27	17	19	2	16.7					
Coordinate with FSA to increase awareness of Crop Insurance.	17	13	26	27	19	2	17.3					
Earthquakes												
No Action.	1	6	19	8	1	1	6.0					
Increase public awareness by developing an innovative Public Service Announcement (PSA).	11	26	22	17	23	1	16.7					
Evaluate infrastructure and coordinate with agencies responsible to determine areas of concern.	11	19	16	11	19	1	12.8					

**Appendix F:
Multi-Hazard Map**

CHAMPAIGN COUNTY MULTI-HAZARD MAP



Legend

- ★ Critical Facilities
- At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations based on geocoded coordinates

At risk structures for Unincorporated Areas: 349

Publish Date: June 24, 2004

Data Source:
Ohio Department of Transportation,
Ohio Department of Natural Resources

PREPARED BY:

ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS

EVANS, MECHWART, HAMBLETON & TILTON, INC.
170 MILL STREET, GAHANNA, OHIO 43230-3036
TEL: 614-471-5150 * FAX: 614-471-9286

CHRISTIANSBURG MULTI-HAZARD MAP

CHRISTIANSBURG

Legend

- ★ Critical Facilities
- At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations
based on geocoded coordinates
At risk structures for
Christiansburg: 4

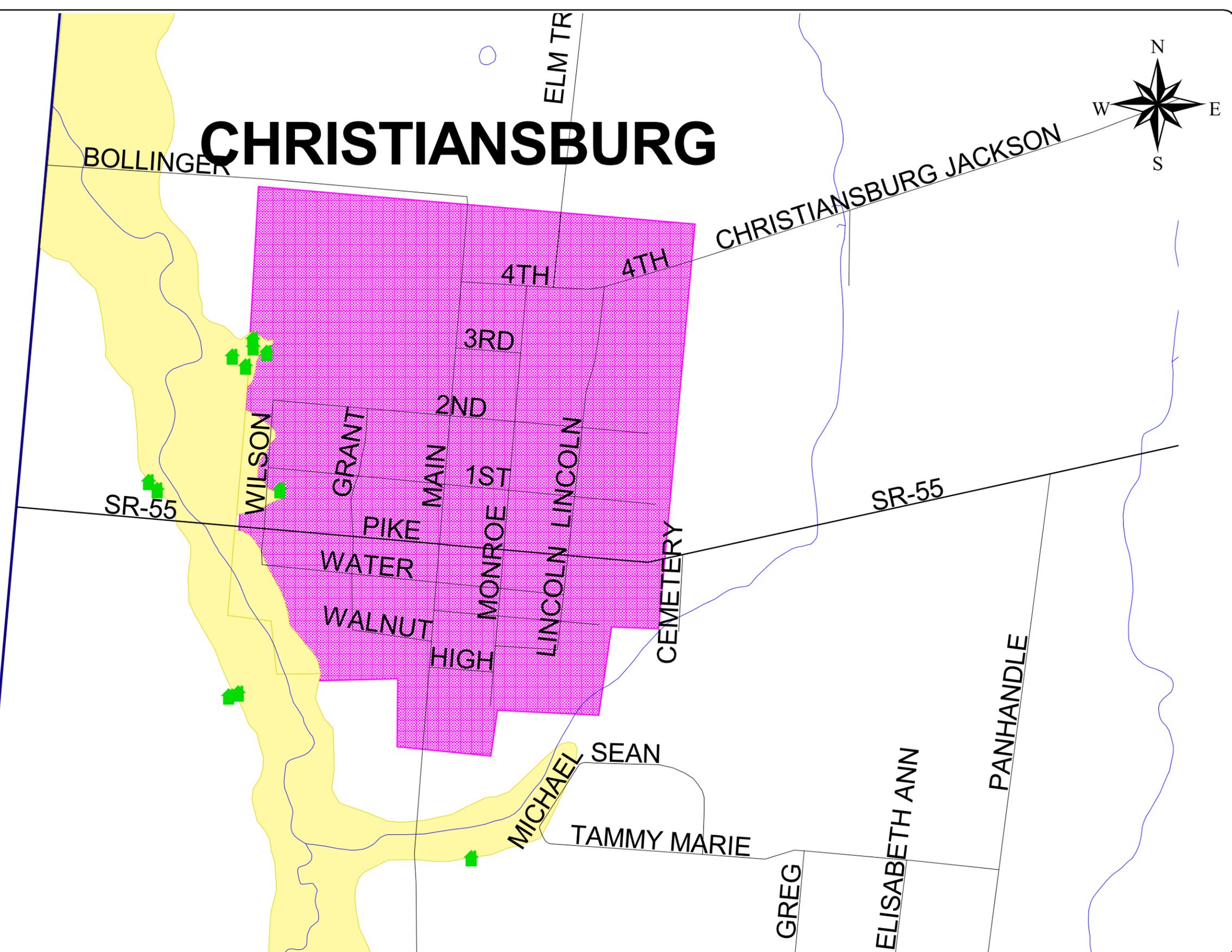
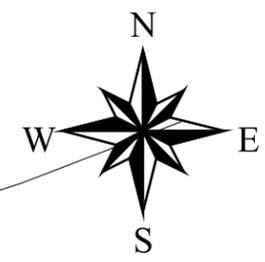
Publish Date: June 24, 2004

Data Source:
Ohio Department of Transportation,
Ohio Department of Natural Resources

PREPARED BY:

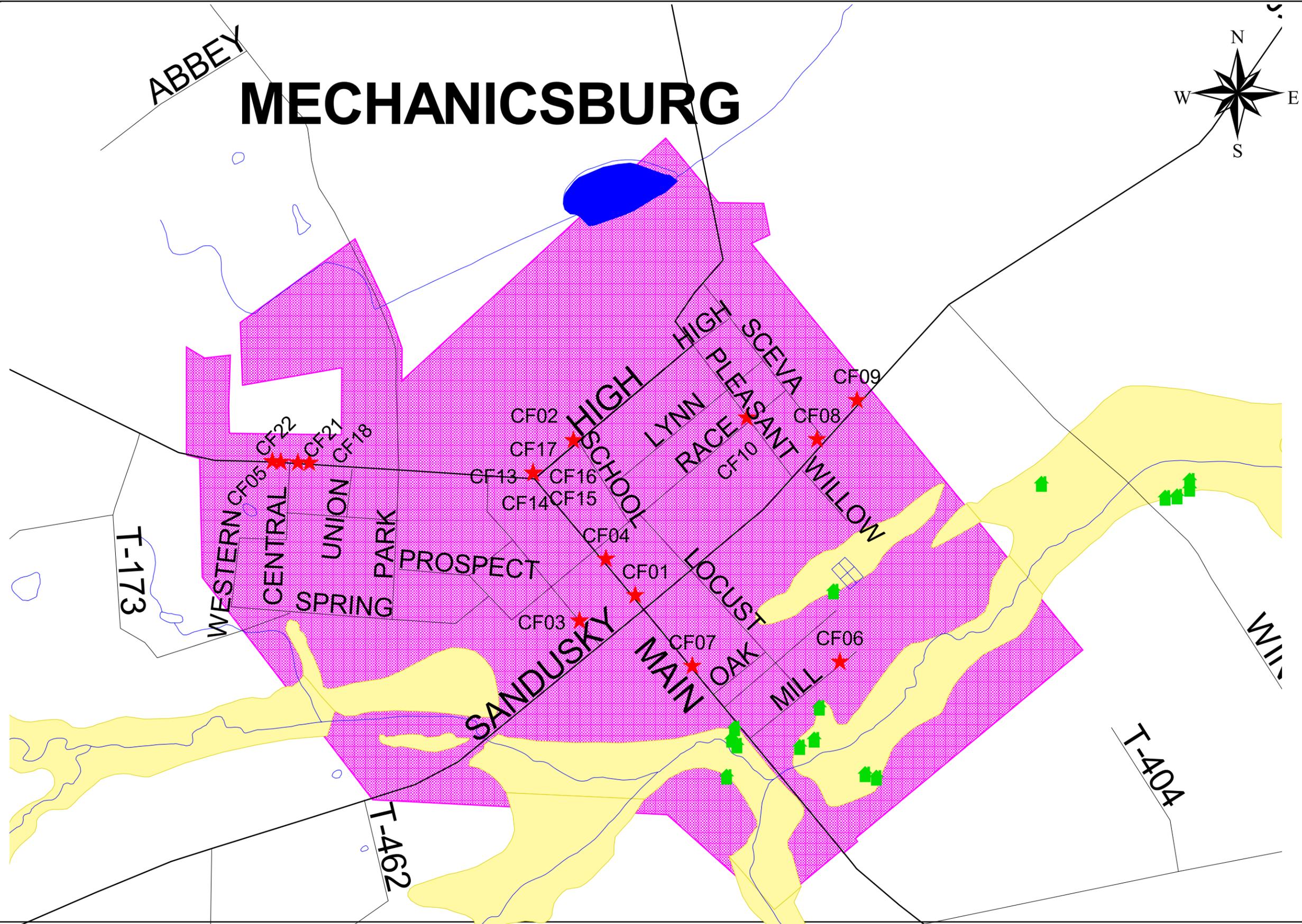


ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS
EVANS, MECHWART, HAMBLETON & TILTON, INC.
170 MILL STREET, GAHANNA, OHIO 43230-3036
TEL: 614-471-5150 * FAX: 614-471-9286



MECHANICSBURG MULTI-HAZARD MAP

MECHANICSBURG



Legend

- ★ Critical Facilities
- At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations based on geocoded coordinates
 At risk structures for Mechanicsburg: 10

Publish Date: June 24, 2004

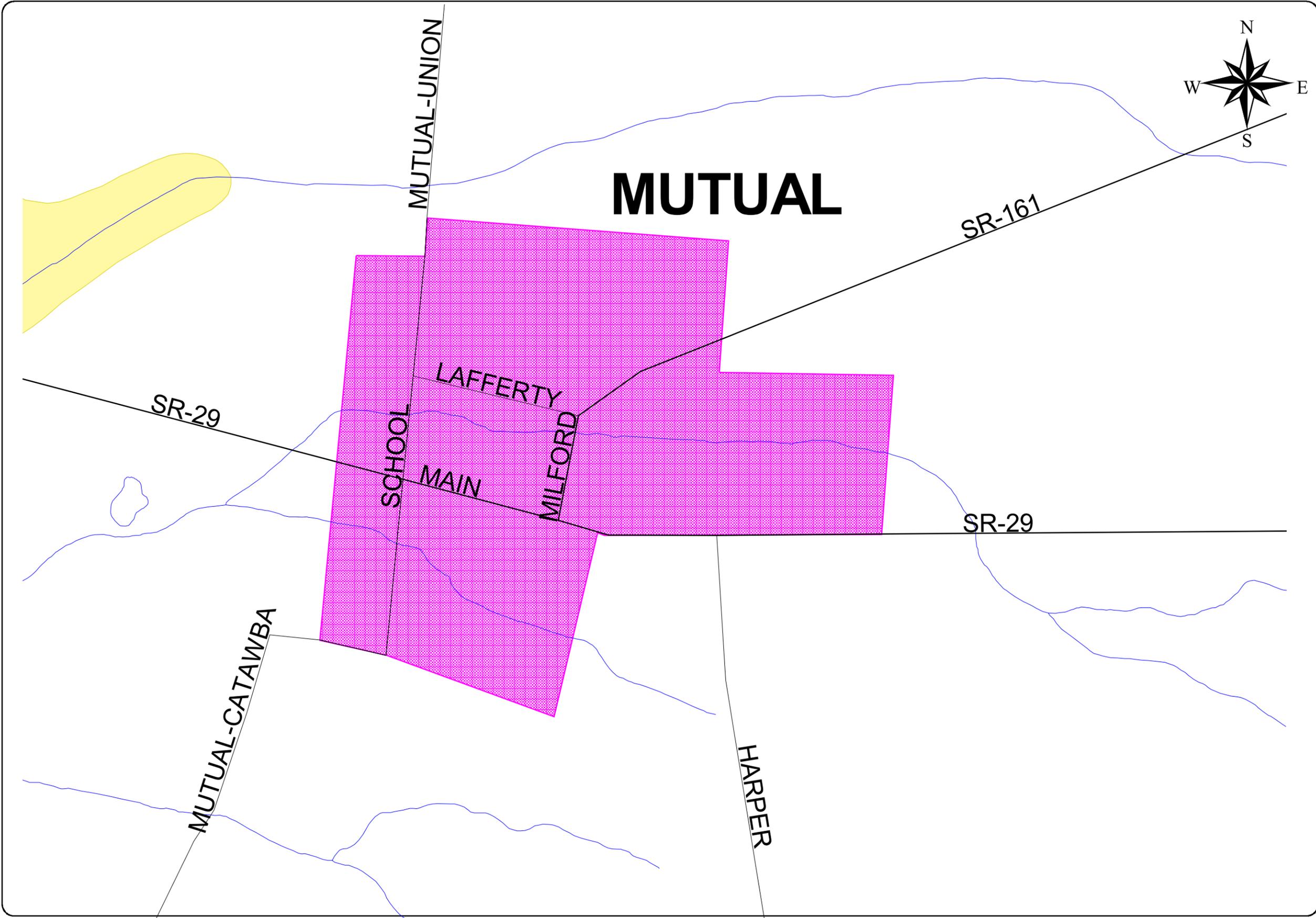
Data Source:
 Ohio Department of Transportation,
 Ohio Department of Natural Resources

PREPARED BY:



ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS
 EVANS, MECHWART, HAMBLETON & TILTON, INC.
 170 MILL STREET, GAHANNA, OHIO 43230-3036
 TEL: 614-471-5150 * FAX: 614-471-9286

MUTUAL MULTI-HAZARD MAP



Legend

- ★ Critical Facilities
- ▲ At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations based on geocoded coordinates

At risk structures for Mutual: 0

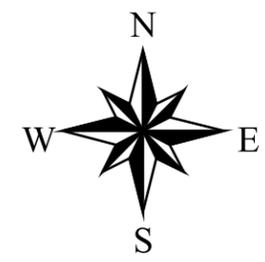
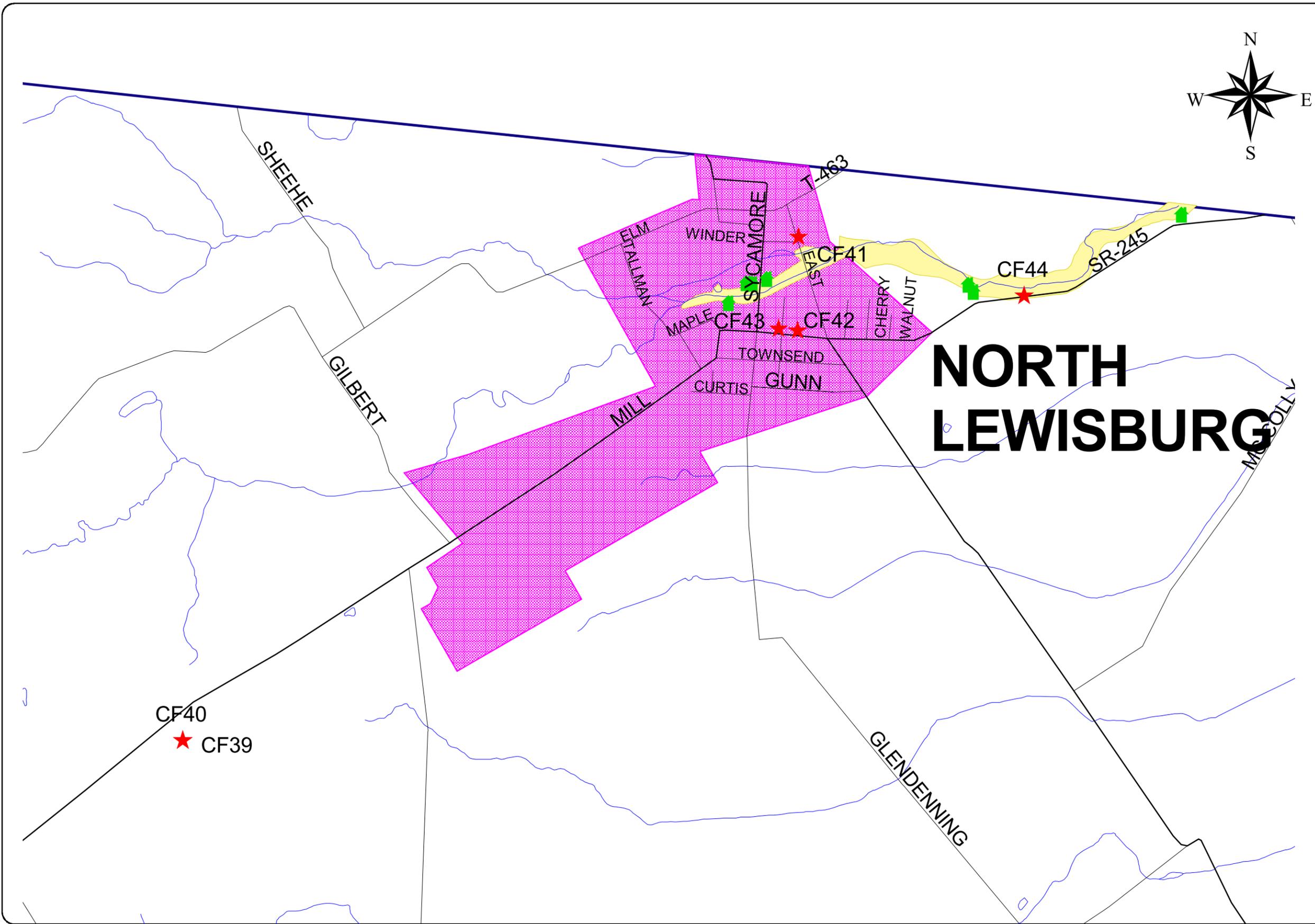
Publish Date: June 24, 2004

Data Source:
Ohio Department of Transportation,
Ohio Department of Natural Resources

PREPARED BY:

ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS
EVANS, MECHWART, HAMBLETON & TILTON, INC.
170 MILL STREET, GAHANNA, OHIO 43230-3036
TEL: 614-471-5150 * FAX: 614-471-9286

NORTH LEWISBURG MULTI-HAZARD MAP



Legend

- ★ Critical Facilities
- At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations based on geocoded coordinates
 At risk structures for North Lewisburg: 4

Publish Date: June 24, 2004

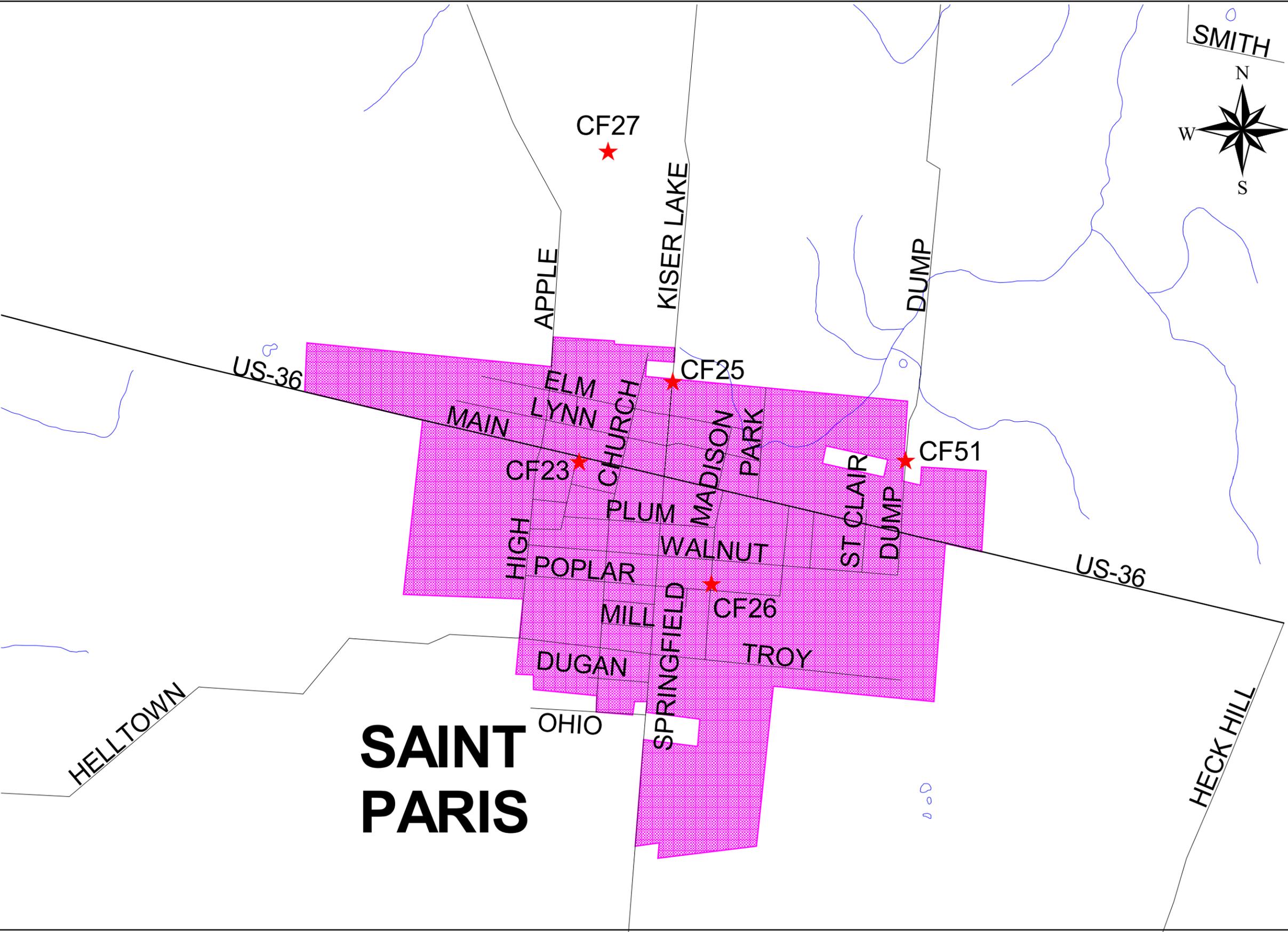
Data Source:
 Ohio Department of Transportation,
 Ohio Department of Natural Resources

PREPARED BY:



ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS
 EVANS, MECHWART, HAMBLETON & TILTON, INC.
 170 MILL STREET, GAHANNA, OHIO 43230-3036
 TEL: 614-471-5150 * FAX: 614-471-9286

SAINT PARIS MULTI-HAZARD MAP



Legend

- ★ Critical Facilities
- At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations based on geocoded coordinates

At risk structures for Saint Paris: 0

Publish Date: June 24, 2004

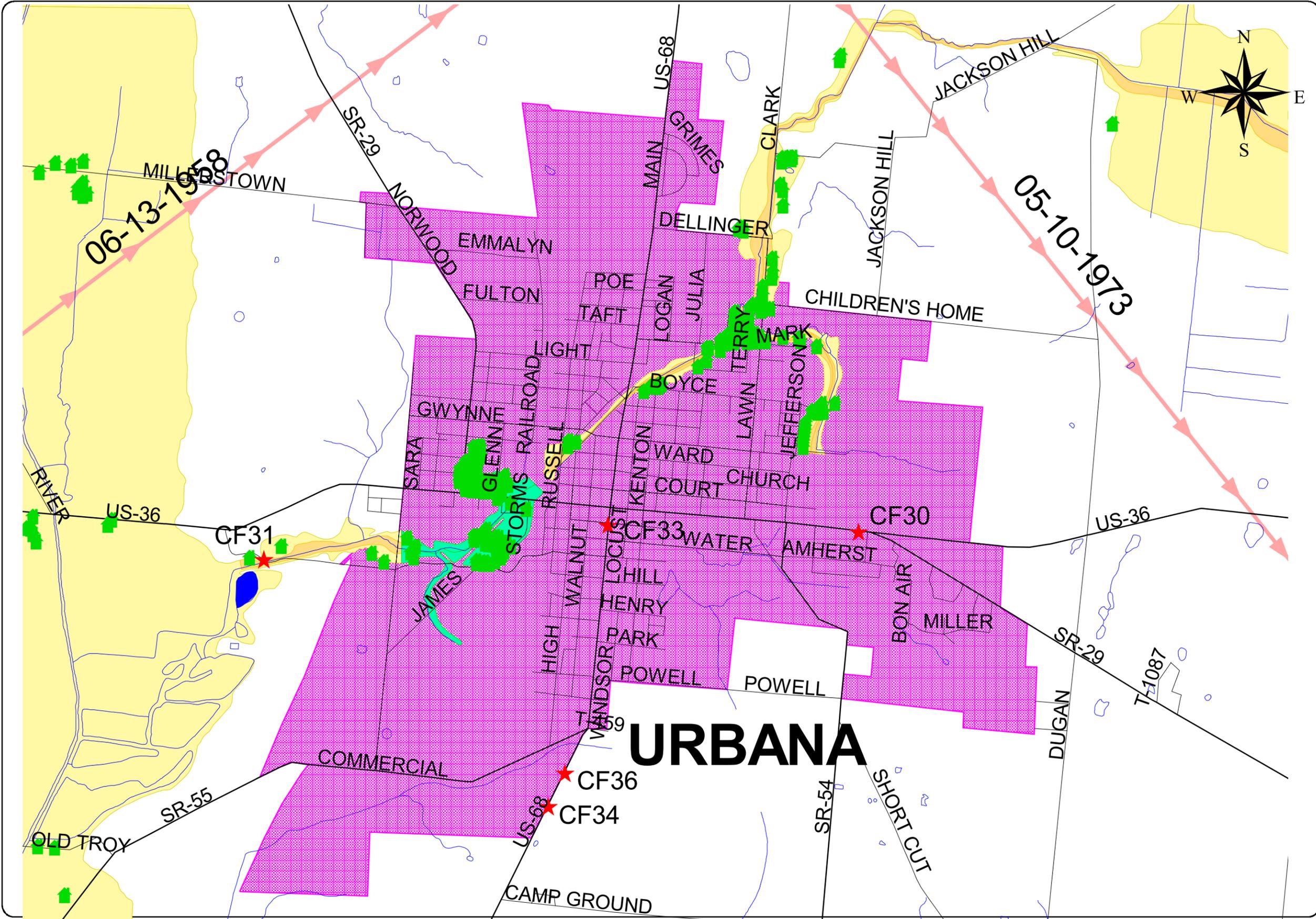
Data Source:
Ohio Department of Transportation,
Ohio Department of Natural Resources

PREPARED BY:

ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS

EVANS, MECHWART, HAMBLETON & TILTON, INC.
170 MILL STREET, GAHANNA, OHIO 43230-3036
TEL: 614-471-5150 * FAX: 614-471-9286

URBANA MULTI-HAZARD MAP



Legend

- ★ Critical Facilities
- At-Risk Structures
- Roads - Municipal
- Roads - County
- Roads - Major
- Lakes
- Waterways
- Tornado Paths
- Floodplain - Other
- Floodway
- 100 YR Floodplain
- Municipalities
- County Line

Notes

Critical Facilities locations based on geocoded coordinates

At risk structures for Urbana: 163

Publish Date: June 24, 2004

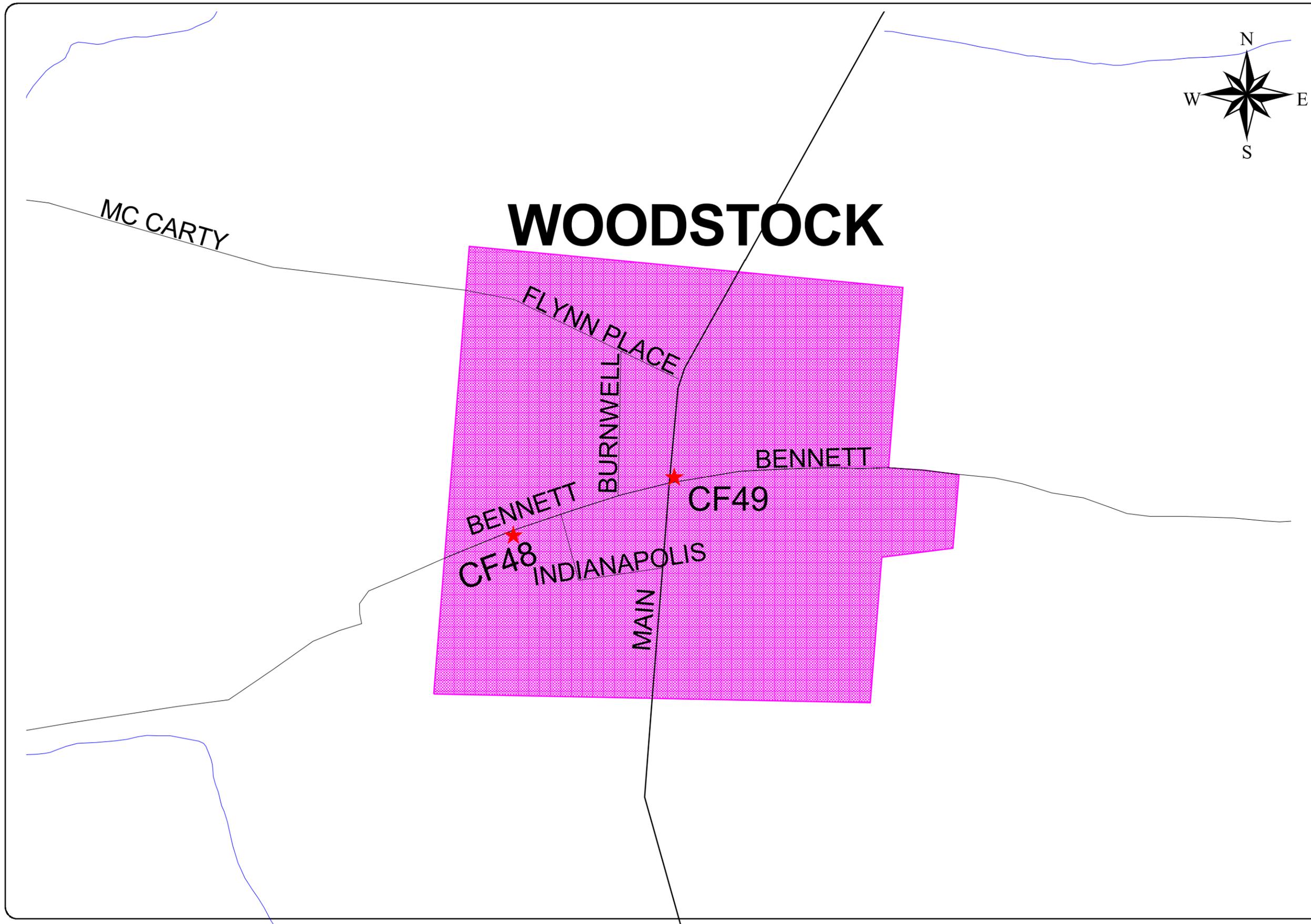
Data Source:
Ohio Department of Transportation,
Ohio Department of Natural Resources

PREPARED BY:

ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS

EVANS, MECHWART, HAMBLETON & TILTON, INC.
170 MILL STREET, GAHANNA, OHIO 43230-3036
TEL: 614-471-5150 * FAX: 614-471-9286

WOODSTOCK MULTI-HAZARD MAP



Legend

-  Critical Facilities
-  At-Risk Structures
-  Roads - Municipal
-  Roads - County
-  Roads - Major
-  Lakes
-  Waterways
-  Tornado Paths
-  Floodplain - Other
-  Floodway
-  100 YR Floodplain
-  Municipalities
-  County Line

Notes

Critical Facilities locations based on geocoded coordinates

At risk structures for Woodstock: 0

Publish Date: June 24, 2004

Data Source:
Ohio Department of Transportation,
Ohio Department of Natural Resources

PREPARED BY:



ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS
EVANS, MECHWART, HAMBLETON & TILTON, INC.
170 MILL STREET, GAHANNA, OHIO 43230-3036
TEL: 614-471-5150 * FAX: 614-471-9286

**Appendix G:
Critical Facilities List**

CRITICAL FACILITIES

LOCATION	FACILITY	ADDRESS	
CF50	Spring Meadows Care Center (Rush Twp.) Nursing Home	1649 Park Road Woodstock, Ohio 43084	
CF49	Woodstock City Building	101 North Main Street Woodstock, Ohio 43084	
CF48	Woodstock Freewill Baptist Church	332 West Bennett Street Woodstock, Ohio 43084	
CF44	Waste Water Treatment Plant	9984 East State Route 245 North Lewisburg, Ohio 4306	
CF43	Noth Lewisburg City Building	60 East Maple Street North Lewisburg, Ohio 43060	
CF42	North Lewisburg Methodist Church	124 East Maple Street North Lewisburg, Ohio 43060	
CF41	Water Treatment Plant	326 East Street North Lewisburg, Ohio 43060	
CF40	Triad Schools (Rush Twp)	7920 Brush Lake Road North Lewisburg, Ohio 43060	
CF39	Meadows Manufactured Homes	701 West Mill Street North Lewisburg, Ohio 43060	
CF36	Champaign County Community Building	1512 South US Highway 68 Urbana, Ohio 43078	
CF34	Grimes Air Field	1636 North Main Street Urbana, Ohio 43078	
CF33	Municipal Building	205 South Main Street Urbana, Ohio 43078	
CF31	Waste Water Treatment Plant	1547 Muzzy Road Urbana, Ohio 43078	
CF30	Mercy Memorial Hospital	904 Scioto Street Urbana, Ohio 43078	
CF27	Pairs Court West	11690 West U.S. Rt. 36 Mechanicsburg, Ohio 43044	
CF26	Paris Court East	400 South Washington Street Mechanicsburg, Ohio 4304	
CF25	Apartment Complex	344 North Springfield Mechanicsburg, Ohio 43044	
CF24	Walnut Hills	428 East Walnut Mechanicsburg, Ohio 43044	
CF23	WCMC	105 Jefferson Mechanicsburg, Ohio 43044	
CF22	West View	410 West Main Street Mechanicsburg, Ohio 43044	
CF21	Lawnwood Commons (seniors/handicapped)	384 West Main Street Mechanicsburg, Ohio 43044	
CF19	Street Department	454 Huffman Drive Mechanicsburg, Ohio 43044	
CF18	Board of Education/School	370 East Main Street Mechanicsburg, Ohio 43044	
CF17	EMS	137 West Main Mechanicsburg, Ohio 43044	
CF16	Municipal Building	135 West Main Mechanicsburg, Ohio 43044	
CF15	Police Department	135 West Main Mechanicsburg, Ohio 43044	
CF14	Fire Department	135 West Main Mechanicsburg, Ohio 43044	
CF13	Tornado Siren	135 West Main Mechanicsburg, Ohio 43044	
CF10	Pleasantview Estates	300 Pleasant Street Mechanicsburg, Ohio 43044	
CF09	Darbyview Trailer Court	284 East Sandusky Avenue Mechanicsburg, Ohio 43044	
CF08	Frost Trailer Court	14 Sceva Avenue Mechanicsburg, Ohio 43044	
CF07	Mechanicsburg Public Library	64 South Main Street Mechanicsburg, Ohio 43044	
CF06	Mechanicsburg Waste Water Plant	80 Mill Street Mechanicsburg, Ohio 43044	
CF05	Mechanicsburg Water Plant	404 West Main Street Mechanicsburg, Ohio 43044	
CF04	Methodist Church Daycare Center	80 North Main Street Mechanicsburg, Ohio 43044	
CF03	Senior Citizen Complex	45 Walnut Street Mechanicsburg, Ohio 43044	
CF02	Mechanicsburg School	60 High Street Mechanicsburg, Ohio 43044	
CF01	Municipal Building (Police, Fire, Squad and Fallout	18 North Street Mechanicsburg, Ohio 43044	
CF51	Graham Youth Athletic Assication (Ball Fields)	Huffman Drive Saint Paris, Ohio 43072	

**Appendix H:
Significant Events**

SIGNIFICANT EVENTS

Severe Storms

November 1994

On Nov. 1, 1994, high winds gusted over 60 mph at times across the northwest third of Ohio. The highest measured wind gust was 63 mph at Columbus Grove (Putnam). Damage included scattered trees, limbs, and power lines downed. A roof was reported blown off a trailer in Butler County and a church under construction in Hancock County was severely damaged when much of the framing blew over. A chimney was toppled in Richland County and a motorist was injured in Ottawa County. Fire departments battled a number of fires started from embers from leaf burning then regenerated from the strong winds. Property damage was estimated at \$500,000.

January 1996

The January Blizzard of '96 developed near the Gulf Coast and moved up the East Coast. This massive system produced the greatest total and 24 hour snowfall at Greater Cincinnati Northern Kentucky airport. This one storm brought 14.3 inches of snowfall to the airport which normally receives 23 inches for an entire season. The heaviest snow fell near the Ohio River in the extreme south. The worst blizzard conditions occurred over West Central areas as dry and powdery snow was blown around by high winds causing whiteouts. Some areas had more than 30 continuous hours of snowfall. In Fayette County, the airport reported a wind gust to 56 mph during the height of the storm. By the end of the storm many homes and businesses had their roof collapse or partially collapse from the weight of the new snow, and snow from a storm earlier in the week. By late in the day on January 7th, arctic air was pouring into the region. There were two deaths reported, caused by exposure. The property damage report totaled \$14.3 million.

August 1998 and May 2000

Two hail events were reported as having done property damage to the residents of Champaign County. On Aug 25, 1998 hail up to the size of tennis balls caused at least one broken windshield and caused \$10,000 in property damage. On May 18, 2000, large hail fell causing damage to the roof of a business. The hail also dented three trucks and cracked a car's windshield. The property damage recorded was \$25,000.

March 2002

On March 9, 2002, a widespread area of high winds blew down trees, power poles, and various other smaller structures and signs. Approximately 100,000 people were without power. One man was killed when his semi tractor overturned. Several others were injured in automobile accidents and when trees fell on the buildings they occupied. Two people were briefly trapped in a mobile home when a tree fell on it. The hardest hit area was just southwest of Columbus in Grove City where an 84 mph wind was recorded and several structures at the high school were damaged or destroyed. Property damage was estimated at \$971,000.

May 2002

In Champaign County on May 12, 2002, a 12-year old boy was seriously injured by a lightning strike; two other boys were with him when the event happened. They all complained of minor muscle spasms in their legs.

SIGNIFICANT EVENTS

Flooding

July 2003

On July 7, 2003 several clusters of heavy thunderstorms continued to move across western Ohio during the early morning, and again in the afternoon. An additional two to four inches of rain fell from the thunderstorms, exacerbating flooding in water-logged areas. Flooded roads and creeks and small streams out of their banks occurred throughout the region. Some of the worst flooding was in Shelby and Logan counties, where evacuations took place near the swollen Great Miami River. Evacuations took place in Lakeview and Jackson Center with numerous homes and structures inundated with water. Monetary damage was estimated at \$600,000.

SIGNIFICANT EVENTS

Tornadoes

April 1999

On April 9, 1999 a F1 Fujita Scale Tornado touched down near Middletown. The damage was between State Route 245 and State Route 296. The path was a quarter-mile wide and a half-mile long. As the storm moved through numerous trees were uprooted and some structural damage occurred to a few houses and mobile homes. The storm followed close to State Route 245 as it then moved into Union County. All of the damage reported in Union County was a result of straight-line thunderstorm winds. Property damage was estimated at \$300,000.

SIGNIFICANT EVENTS

Tornadoes

July 1999

On July 1, 1999 dry conditions that began in the spring and early summer continued into July. Excessive heat contributed to substantial crop loss across much of the state. Rainfall was widely scattered and did little to help farmers. According to the information provided by the NCDC (National Climatic Data Center), crop damage amounts were not available at the time of their report.

August 1999

On Aug 1, 1999 another report was filed at the NCDC. It described drought conditions continuing across the Ohio Valley through August with most areas receiving well below normal rainfall for the month. In some areas around 50% of crops were considered total losses. Most counties in southwest Ohio were declared Federal Disaster Areas by the US Department of Agriculture. As above, at the time the report was filed, no monetary damage estimates relating to crop loss were available.

SIGNIFICANT EVENTS

Earthquakes

June 1843 and 1845

The two events happened in the late 19th century. The first was on June 19, 1843 with a magnitude of 3.5 and was felt within 1.1 square miles. The location was at 40.100 Lat N, 83.800 Lon W. The second event happened June 18, 1875 with a magnitude of 4.7 and was felt within 120.6 square miles. The location was recorded at 40.200 Lat N, 84.000 Lon W.

**Appendix I:
National Climatic Data Center
Tables**

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

THUNDERSTORMS AND HIGH WIND								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Champaign	06/13/1958	1500	Tstm Wind	61 kts.	0	0	0	0
Champaign	06/13/1958	1500	Tstm Wind	61 kts.	0	0	0	0
Champaign	06/25/1971	1710	Tstm Wind	0 kts.	0	0	0	0
Champaign	05/17/1974	1500	Tstm Wind	0 kts.	0	0	0	0
Champaign	05/17/1974	1515	Tstm Wind	0 kts.	0	0	0	0
Champaign	01/11/1975	0035	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/03/1975	1545	Tstm Wind	0 kts.	0	0	0	0
Champaign	03/26/1976	1645	Tstm Wind	0 kts.	0	0	0	0
Champaign	04/08/1980	1500	Tstm Wind	60 kts.	0	0	0	0
Champaign	06/01/1980	1145	Tstm Wind	52 kts.	0	0	0	0
Champaign	07/05/1980	0700	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/05/1980	0700	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/05/1980	0725	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/12/1980	1245	Tstm Wind	0 kts.	0	0	0	0
Champaign	08/11/1980	1715	Tstm Wind	60 kts.	0	0	0	0
Champaign	06/21/1981	1039	Tstm Wind	0 kts.	0	0	0	0
Champaign	03/31/1982	1035	Tstm Wind	0 kts.	0	0	0	0
Champaign	05/27/1982	1705	Tstm Wind	0 kts.	0	0	0	0
Champaign	04/30/1983	1710	Tstm Wind	0 kts.	0	0	0	0
Champaign	06/13/1984	1850	Tstm Wind	0 kts.	0	0	0	0
Champaign	09/13/1984	2120	Tstm Wind	0 kts.	0	0	0	0
Champaign	04/05/1985	1710	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/14/1985	2030	Tstm Wind	0 kts.	0	0	0	0

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

THUNDERSTORMS AND HIGH WIND								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Champaign	03/10/1986	1616	Tstm Wind	0 kts.	0	0	0	0
Champaign	05/15/1986	1930	Tstm Wind	0 kts.	0	0	0	0
Champaign	06/22/1986	1937	Tstm Wind	0 kts.	0	0	0	0
Champaign	08/05/1989	1550	Tstm Wind	0 kts.	0	0	0	0
Champaign	11/15/1989	1415	Tstm Wind	0 kts.	0	0	0	0
Champaign	09/14/1990	1415	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/02/1991	1645	Tstm Wind	0 kts.	0	0	0	0
Champaign	07/14/1992	1815	Tstm Wind	0 kts.	0	0	0	0
Urbana	04/27/1994	0340	Thunderstorm Winds	N/A	0	0	5K	0
St. Paris	06/20/1994	1520	Thunderstorm Winds	N/A	0	0	50K	0
Multiple Counties	11/01/1994	2000	High Winds	0 kts.	0	1	500K	0
Multiple Counties	11/27/1994	1400	High Winds	0 kts.	0	1	50K	0
Urbana	05/24/1995	1530	Thunderstorm Winds	N/A	0	0	3K	0
Countywide	06/07/1995	2115	Thunderstorm Winds	N/A	0	0	30K	0
St. Paris & 4 S Urban	06/22/1995	2000	Thunderstorm Winds Hail	N/A	0	0	5K	0
Urbana	06/26/1995	1857	Thunderstorm Winds	N/A	0	0	4	0
Countywide	07/13/1995	2127	Thunderstorm Winds	N/A	0	0	7K	0
Carysville	07/15/1995	1424	Thunderstorm Winds Hail	N/A	0	0	10K	0
St. Paris	07/16/1995	1545	Thunderstorm Winds	N/A	0	0	2K	0

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

THUNDERSTORMS AND HIGH WIND								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Urbana	04/29/1996	04:45 PM	Tstm Wind	55 kts.	0	0	2K	0
Christiansburg	07/07/1996	08:04 PM	Tstm Wind	50 kts.	0	0	50K	0
Countywide	10/30/1996	02:00 AM	Tstm Wind	50 kts.	0	0	10K	0
Urbana	01/05/1997	12:40 AM	Tstm Wind	50 kts.	0	0	0	0
Multiple Counties	04/06/1997	02:30 PM	High Wind	60 kts.	0	0	19K	0
Mechanicsburg	05/18/1997	04:20 PM	Tstm Wind	50 kts.	0	0	10K	0
Urbana	07/02/1997	04:52 PM	Tstm Wind	50 kts.	0	0	5K	0
Urbana	07/27/1997	05:18 PM	Tstm Wind	50 kts.	0	0	5K	0
Countywide	06/19/1998	02:15 AM	Tstm Wind	50 kts.	0	0	10K	0
Mechanicsburg	07/19/1998	08:00 PM	Tstm Wind	60 kts.	0	0	10K	0
Urbana	11/10/1998	02:45 PM	Tstm Wind	50 kts.	0	0	5K	0
Urbana	02/12/1999	12:05 AM	Tstm Wind	50 kts.	0	0	3K	0
Countywide	05/06/1999	01:30 PM	Tstm Wind	50 kts.	0	0	3K	0
Urbana	06/11/1999	02:00 AM	Tstm Wind	50 kts.	0	0	2K	0
Urbana	06/11/1999	06:00 PM	Tstm Wind	50 kts.	0	0	1K	0
Urbana	07/06/1999	04:15 PM	Tstm Wind	50 kts.	0	0	5K	0
St Paris	07/09/1999	06:31 PM	Tstm Wind	50 kts.	0	0	3K	0
North Lewisburg	07/21/1999	04:00 PM	Tstm Wind	50 kts.	0	0	3K	0
Countywide	04/20/2000	05:30 PM	Tstm Wind	60 kts.	0	0	75K	0
St Paris	05/10/2000	12:30 AM	Tstm Wind	50 kts.	0	0	5K	0
Urbana	07/28/2000	06:05 PM	Tstm Wind	50 kts.	0	0	5K	0
St Paris	08/09/2000	09:15 AM	Tstm Wind	50 kts.	0	0	10K	0
Terre Haute	09/20/2000	06:20 PM	Tstm Wind	50 kts.	0	0	10K	0
Multiple Counties	12/11/2000	09:00 PM	High Wind	58 kts.	1	0	100K	0
Mechanicsburg	04/09/2001	06:30 PM	Tstm Wind	60 kts.	0	0	10K	0
Urbana	10/24/2001	07:50 PM	Tstm Wind	50 kts.	0	0	7K	0

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

THUNDERSTORMS AND HIGH WIND								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Multiple Counties	03/09/2002	12:43 PM	High Wind	73 kts.	1	12	971K	0
Mechanicsburg	05/12/2002	10:13 AM	Tstm Wind	50 kts.	0	0	50K	0
Countywide	06/05/2002	01:50 PM	Tstm Wind	50 kts.	0	0	0	0
St Paris	07/29/2002	05:00 PM	Tstm Wind	50 kts.	0	0	3K	0
Urbana	11/10/2002	05:45 PM	Tstm Wind	50 kts.	0	0	3K	0
Multiple Counties	05/11/2003	05:41 AM	High Wind	50 kts.	0	0	0	0
Countywide	07/04/2003	07:40 PM	Tstm Wind	50 kts.	0	0	7K	0
Urbana	07/05/2003	09:00 PM	Tstm Wind	50 kts.	0	0	2K	0
Christiansburg	07/06/2003	04:05 PM	Tstm Wind	50 kts.	0	0	3K	0
Urbana	07/07/2003	02:14 PM	Tstm Wind	50 kts.	0	0	3K	0
Urbana	07/08/2003	01:50 PM	Tstm Wind	55 kts.	0	0	20K	0
Countywide	07/08/2003	03:05 AM	Tstm Wind	55 kts.	0	0	10K	0
Christiansburg	07/21/2003	07:17 AM	Tstm Wind	50 kts.	0	0	2K	0
TOTALS:					2	14	2.104M	0

KEY to Table Abbreviations

Mag = Knots (1 mph = 1.15 Knots)
Dth = Deaths
Inj = Injuries
PrD = Property Damage
CrD = Crop Damage

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

SNOW AND ICE								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Southwest Through Northeast	03/09/1994	0400	Heavy Snow	N/A	0	0	500K	0
Multiple Counties	01/06/1995	0800	Ice Storm	N/A	0	26	400K	0
Multiple Counties	01/21/1995	0100	Snow	N/A	2	6	500K	0
Southern And Central	12/13/1995	0400	Freezing Rain	N/A	0	2	25K	0
West Central And Central	12/19/1995	0200	Heavy Snow	N/A	0	0	100K	0
Multiple Counties	01/02/1996	02:00 PM	Winter Storm	N/A	0	0	750K	0
Multiple Counties	01/06/1996	03:00 PM	Winter Storm	N/A	2	0	14.3M	0
Multiple Counties	01/11/1996	03:00 PM	Heavy Snow	N/A	0	0	26K	0
Multiple Counties	03/06/1996	01:00 AM	Ice Storm	N/A	0	0	0	0
Multiple Counties	03/19/1996	04:00 PM	Winter Storm	N/A	1	0	0	0
Multiple Counties	01/24/1997	07:00 AM	Ice Storm	N/A	0	0	0	0
Multiple Counties	01/01/1999	10:00 PM	Winter Storm	N/A	0	0	0	0
Multiple Counties	01/07/1999	10:00 PM	Winter Storm	N/A	0	0	0	0
Multiple Counties	01/13/1999	03:00 AM	Winter Storm	N/A	0	0	0	0
Multiple Counties	03/09/1999	12:00 AM	Heavy Snow	N/A	0	0	0	0
Multiple Counties	01/19/2000	08:00 PM	Heavy Snow	N/A	0	0	0	0

SNOW AND ICE								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Multiple Counties	12/13/2000	06:00 PM	Ice Storm	N/A	0	0	0	0
Multiple Counties	03/26/2002	01:15 AM	Winter Storm	N/A	0	0	0	0
Multiple Counties	12/24/2002	10:40 PM	Winter Storm	N/A	0	0	0	0
Multiple Counties	02/15/2003	01:25 AM	Winter Storm	N/A	0	0	0	0
Multiple Counties	01/25/2004	05:00 PM	Winter Storm	N/A	0	0	0	0
Multiple Counties	03/16/2004	03:30 AM	Winter Storm	N/A	0	0	0	0
TOTALS:					5	34	16.551M	0

KEY to Table Abbreviations

Mag = Knots (1 mph = 1.15 Knots)
Dth = Deaths
Inj = Injuries
PrD = Property Damage
CrD = Crop Damage

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

HAIL								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Champaign	06/22/1960	1350	Hail	1.00 in.	0	0	0	0
Champaign	04/08/1980	1500	Hail	1.50 in.	0	0	0	0
Champaign	07/12/1980	1245	Hail	1.75 in.	0	0	0	0
Champaign	07/12/1980	1832	Hail	0.75 in.	0	0	0	0
Champaign	03/31/1982	1035	Hail	0.75 in.	0	0	0	0
Champaign	05/22/1982	1715	Hail	2.00 in.	0	0	0	0
Champaign	05/27/1982	1705	Hail	2.00 in.	0	0	0	0
Champaign	03/27/1983	1415	Hail	0.75 in.	0	0	0	0
Champaign	05/02/1983	1210	Hail	1.00 in.	0	0	0	0
Champaign	06/08/1990	2128	Hail	1.00 in.	0	0	0	0
Champaign	07/02/1991	1620	Hail	1.00 in.	0	0	0	0
Champaign	07/16/1992	1425	Hail	1.00 in.	0	0	0	0
Champaign	07/16/1992	1425	Hail	1.00 in.	0	0	0	0
New Madison	07/29/1994	1355	Hail	0.75 in.	0	0	0	0
Shaker Heights	11/01/1994	0415	Hail	1.00 in.	0	0	0	0
Mechanicsburg	05/13/1998	02:25 PM	Hail	0.75 in.	0	0	0	0
Mechanicsburg	06/28/1998	09:53 PM	Hail	1.75 in.	0	0	0	0
Urbana	08/25/1998	03:10 PM	Hail	2.50 in.	0	0	10K	0
Urbana	05/18/2000	03:25 PM	Hail	1.00 in.	0	0	25K	0
Spring Hills	07/28/2000	05:10 PM	Hail	0.75 in.	0	0	0	0
St. Paris	04/09/2001	05:43 PM	Hail	0.75 in.	0	0	0	0
North Lewisburg	06/27/2002	11:16 AM	Hail	0.75 in.	0	0	0	0
Mechanicsburg	11/10/2002	04:58	Hail	1.00 in.	0	0	0	0

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

		PM							
TOTALS:						0	0	35K	0

KEY to Table Abbreviations

- Mag = Knots (1 mph = 1.15 Knots)
- Dth = Deaths
- Inj = Injuries
- PrD = Property Damage
- CrD = Crop Damage

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

LIGHTNING								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Urbana	05/12/2002	10:00 AM	Lightning	N/A	0	3	0	0
TOTALS:					0	3	0	0

KEY to Table Abbreviations

- Mag = Knots (1 mph = 1.15 Knots)
- Dth = Deaths
- Inj = Injuries
- PrD = Property Damage
- CrD = Crop Damage

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

FLOODING								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Countywide	04/29/1996	06:00 AM	Flash Flood	N/A	0	0	2K	0
Countywide	05/11/1996	04:33 PM	Flash Flood	N/A	0	0	5K	0
Countywide	06/01/1997	07:30 PM	Flood	N/A	0	0	75K	0
St Paris	01/21/1999	10:00 PM	Flood	N/A	0	0	0	0
St Paris	04/28/1999	07:27 AM	Flood	N/A	0	0	0	0
Countywide	09/23/2000	05:30 PM	Flood	N/A	0	0	10K	0
Rosewood	04/19/2002	08:30 PM	Flash Flood	N/A	0	0	0	0
Multiple Counties	06/05/2002	02:55 PM	Flood	N/A	0	0	0	0
Multiple Counties	09/27/2002	05:00 AM	Flood	N/A	0	0	25K	0
Multiple Counties	11/10/2002	06:00 PM	Flood	N/A	0	0	0	0
Multiple Counties	07/07/2003	12:02 AM	Flood	N/A	0	0	600K	0
Multiple Counties	08/02/2003	02:15 AM	Flood	N/A	0	0	0	0
Multiple Counties	01/04/2004	12:50 PM	Flood	N/A	0	0	0	0
TOTALS:					0	0	717K	0

KEY to Table Abbreviations

Mag = Knots (1 mph = 1.15 Knots)
Dth = Deaths
Inj = Injuries
PrD = Property Damage
CrD = Crop Damage

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

DROUGHT								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Multiple Counties	07/01/1999	12:00 AM	Drought	N/A	0	0	0	0
Multiple Counties	08/01/1999	12:00 AM	Drought	N/A	0	0	0	0
TOTALS:					0	0	0	0

TEMPERATURE EXTREMES								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Multiple Counties	02/11/1995	2000	Extreme Cold	N/A	4	0	100K	0
Statewide	12/09/1995	1200	Extreme Cold	N/A	0	1	2K	0
Multiple Counties	02/01/1996	06:00 PM	Extreme Cold	N/A	0	0	1.3M	0
Multiple Counties	07/20/1999	12:00 AM	Excessive Heat	N/A	13	0	0	0
TOTALS:					17	1	1.362M	0

KEY to Table Abbreviations

- Mag = Knots (1 mph = 1.15 Knots)
- Dth = Deaths
- Inj = Injuries
- PrD = Property Damage
- CrD = Crop Damage

Champaign County
Champaign County – Countywide All Natural Hazards Mitigation Plan

TORNADOES								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
Champaign	06/13/1958	1500	Tornado	F2	0	0	250K	0
Champaign	11/16/1965	1700	Tornado	F2	0	4	25K	0
Champaign	05/10/1973	1649	Tornado	F3	0	0	3K	0
Middletown	04/09/1999	05:00 AM	Tornado	F1	0	0	300K	0
TOTALS:					0	4	578K	0

KEY to Table Abbreviations

- Mag = Knots (1 mph = 1.15 Knots)
- Dth = Deaths
- Inj = Injuries
- PrD = Property Damage
- CrD = Crop Damage

**Appendix J:
Action Plan**

Champaign County Action Plan						Action Plan					
	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency		Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency
1. Severe Storms						1. Severe Storms					
Evaluate centralizing 911 systems. There are currently two systems in operation.	5	27.8	2006	existing budget	Champaign County EMA	Develop plan for better preparedness for responding entities within Champaign County. Include commercial utility in effort.	5	21.2	2007-2008	existing budget	Champaign County EMA and Core Group Members
1992 - July, 2004 - Evaluate existing plan, Champaign County Emergency Operating Plan (EOP), to see if it needs updated. Utilizing existing emergency response plans in existence (i.e. - Xenia's plan - looking @ their plan).	5	26.8	2005	existing budget	Champaign County EMA	Evaluate the need for lightning detection equipment for the County and Municipal Parks.	5	20	2006-2007	existing budget	Champaign County EMA and Core Group Members
Seek funding for better, more reliable, interoperable communication between incorporated and unincorporated areas within Champaign County.	5	26.4	2006-2007	PDM or other State/Federal sources	Champaign County EMA	Evaluate possible registration of an AM frequency for use in "Emergencies".	5	19.4	2006-2007	existing budget	Champaign County EMA
Enhancement of communication efforts between Champaign County and its municipalities with surrounding counties and other agencies within the State of Ohio.	5	26.4	2005-2006	existing budget	Champaign County EMA and Core Group Members	No Action.	5	11	2005	existing budget	Champaign County EMA and Core Group Members
Creating a dedicated "radio" channel for decision-makers to utilize for coordination during a disaster.	5	25	2005-2006	existing budget	Champaign County EMA	2. Flooding					
Evaluate potential to utilize school system for innovative outreach to general public.	5	24.2	2006-2007	existing budget	Champaign County EMA in coordination w/ School Districts	Evaluate existing emergency operations and equipment within the County and determine the needs across Champaign for handling a severe storm (large scale) disaster.	4	26.8	2005-2006	existing budget	Champaign County EMA
Evaluate having an annual meeting with public utilities.	5	24.2	2005-2006	existing budget	Champaign County EMA and Core Group Members	Educate public about the NFIP and reducing uninsured loss.	4	26.8	2005-2006	existing budget	Champaign County EMA and Core Group Members
Seek funding for lightning detection equipment within Champaign County's public Park Systems.	5	24.2	2006-2007	PDM or other State/Federal sources	Champaign County EMA and Core Group Members	Increase public awareness of high hazard areas, such as floodplains through educational outreach.	4	26.2	2006-2007	existing budget	Champaign County EMA and Core Group Members
Evaluate use of Channel 13 to outreach to general public.	5	22.4	2005-2006	existing budget	Champaign County EMA	Seek funding mitigation projects for existing flooding concerns.	4	26	2006-2007	PDM or other State/Federal sources	Champaign County EMA and Core Group Members
Evaluate other communities and how they "react" and/or "respond" to severe storms and make the public aware.	5	22	2006-2007	existing budget	Champaign County EMA and Core Group Members	Utilize the local and State resources (i.e. Ohio Fire Chiefs, statewide Mutual Aid Plan).	4	25.6	2006-2007	existing budget	Champaign County EMA and Core Group Members
Increase public awareness by the development of innovative Public Service Announcements.	5	21.6	2006-2007	PDM or other State/Federal sources	Champaign County EMA and Core Group Members	Evaluate the potential of increased standards for developing within the 100-year floodplain.	4	25	2006-2007	existing budget	Champaign County EMA and Core Group Members

Champaign County Action Plan						Action Plan													
Hazard Prioritization		Activity Rating		Implementation Schedule(Year)		Funding		Responsible Agency		Hazard Prioritization		Activity Rating		Implementation Schedule(Year)		Funding		Responsible Agency	
2. Flooding						Need to establish Tornado Shelter Network throughout the county.						3	24.6	2007-2008	PDM or other State/Federal sources	Champaign County EMA and Core Group Members			
Target yourh in "K-12" to educate on the hazards of playing in highly hazardous areas such as drainage basins, floodplains, etc.		4	24.8	2006-2007	existing budget	Champaign County EMA and Core Group Members		Evaluate procedures for verifying tornado sightings.		3	24	2006-2007	existing budget	Champaign County EMA					
Work with the County Engineer offices to determine flood-prone properties and designate them as flood-prone properties utilizing GIS.		4	23.6	2006-2007	existing budget	Champaign County EMA and Core Group Members		Evaluate location of current shelter locations and determine needs.		3	24	2006-2007	PDM or other State/Federal sources	Champaign County EMA					
Evaluate what other communities are doing as it relates to communication techniques.		4	23.4	2007-2008	existing budget	Champaign County EMA and Core Group Members		Conduct study to determine existing facilities; determine where the gaps are as it relates to shelters.		3	24	2007-2008	TBD	Champaign County EMA and Core Group Members					
Evaluate developing a Watershed Management Plan for changing 100-year floodplain.		4	22.2	2007-2008	TBD	Champaign County EMA and Core Group Members		Evaluate existing program for coordination of municipalities after disaster clean-up and update Emergency Operation Plan (EOP) with changes.		3	23.4	2006-2007	TBD	Champaign County EMA and Core Group Members					
Seek Mitigation Funding to increase the number of "real-time" flood detection systems and rain gauges within the metropolitan area of Champaign County.		4	22	2007-2008	PDM or other State/Federal sources	Champaign County EMA and Core Group Members		Seek Mitigation Funding for an interoperable siren system that would cover all of Champaign County.		3	22.2	2007-2008	PDM or other State/Federal sources	Champaign County EMA and Core Group Members					
Evaluate what other communities , as it relates to educating people of the hazards of high water.		4	22	2007-2008	existing budget	Champaign County EMA and Core Group Members		Evaluate current method for removal of debris; make necessary changes in EOP.		3	22.2								
Evaluate the potential for rain gauges (networks) for information real-time.		4	19.4	2009	PDM or other State/Federal sources	Champaign County EMA and Core Group Members		Increase public awareness of tornadoes by targeting "K-12"; evaluate current programs for improvement.		3	21.2	2006-2007	existing budget	Champaign County EMA and Core Group Members					
Evaluate existing method for helping disaster victims determine needed area of improvement.		4	19.2	2006-2007	PDM or other State/Federal sources	Champaign County EMA in coordination w/ local floodplain administrator		Evaluate adding requirements to control b.c. standards.		3	21.2	2007-2008	existing budget	Champaign County EMA and Core Group Members in coordinations with					
Evaluate/Determine the locations of the repeatedly flooded structures within Champaign County.		4	17.8	2007-2008	PDM or other State/Federal sources	Champaign County EMA in coordination w/ local floodplain administrator		Evaluate gaps for response and recovery after a tornado and make necessary changes.		3	21	2006-2007	existing budget	Champaign County EMA and Core Group Members					
Target structures within communities that have been repeatedly flooded with education, buy-outs.		4	15.6	2009	PDM or other State/Federal sources	Champaign County EMA and Core Group Members		Develop Non-Emergency Volunteer Program for all disasters; update EOP (i.e. Good Samaritan's).		3	20.8	2006-2007	existing budget	Champaign County EMA					
No Action.		4	10	2005	existing budget	Champaign County EMA and Core Group Members		Evaluate current system and determine needed area of improvement. Communicate with Sheriff's Department about concern and need for change.		3	19.8	2007-2008	existing budget	Champaign County EMA and Core Group Members					
3. Tornadoes						Evaluate transportation routes within Champaign County and determine (establish) numerous routes; supplement with communication enhancement.						3	16.4	2007-2008	PDM or other State/Federal sources	Champaign County EMA and County Engineer's Office			

Appendix K: References

General References

- "State and Local Mitigation Planning How-To Guide: Understanding Your Risks, Identifying Hazards and Estimating Losses," FEMA Document #386-2, August 2001.
- "Natural Hazards Mitigation Plan," St. Tammany Parish, Louisiana, March 2004.
- "Countywide All Natural Hazards Mitigation Plan," Licking County, Ohio, November 2003.
- www.fsa.usda.gov – Farm Service Agency
- www.dnr.state.oh.us – Ohio Department of Natural Resources (ODNR)
- www.dnr.state.oh.us/forestry/Urban/ - ODNR's Urban Forestry Program
- www.census.gov – Main US Census website
- www.odod.ohio.gov/research/Productlisting.html - Ohio Department of Development
- www.ncdc.noaa.gov – National Climatic Data Center
- <http://geohazards.cr.usgs.gov> – Earthquake Info
- <http://www4.ncdc.noaa.gov/cgi-win/wwwcgi.dll?wwevent~storms> – NCDC storm events database
- <http://www.dnr.state.oh.us/website/geosurvey/omsuia> - Abandoned Underground Mine GIS and Address Locator System (Ohio)
- http://edcsgs9.cr.usgs.gov/glis/hyper/guide/1_250_lulcfig/states/OH.html - State of Ohio Land Use Cover
- www.omunileague.org/ohiocities.htm - Links to websites for Ohio Cities and Villages
- www.fema.gov/library/drcys.shtm - Federally Declared Disasters by Calendar Year.
- www.ccao.org/1008.htm - Links to Ohio County Websites
- www.naco.org/Template.cfm?Section=Home – National Association of Counties
- <http://www.tornadoproject.com/alltorns/ohorn2.htm#P> – Tornadoes by state
- <http://www-agecon.ag.ohio-state.edu/programs/exurbs/c> - Land use info
- <http://neic.usgs.gov/neis/> - United States Geological Survey National Earthquake Information Center
- <http://maps.epa.gov> – United States Environmental Protection Agency Enviromapper
- http://www.epodunk.com/counties/oh_county.html - Ohio county info
- <http://www.city-data.com> – United States city data
- <http://en.wikipedia.org/wiki/> - Free encyclopedia information for Ohio communities.
- http://www.crh.noaa.gov/iwx/program_areas/climate/TornadoMaps/main.html - Historical pathways of tornadoes in Ohio counties
- <http://www.drought.noaa.gov/> - NOAA Drought information center
- <http://www.drought.unl.edu/dm/monitor.html> - Drought monitor map
- www.wowworks.com/wowcity/ohcounty.htm - State, regional, county, city and community guide
- www.osuedc.org/profiles/pdf - Ohio State University Extension Data Center
- <http://ohioline.osu.edu/> - Ohio State University Extension College of Food, Agriculture and Environmental Sciences
- www.nass.usda.gov/census/ - United States Census of Agriculture
- www.puc.state.oh.us – Public Utilities Commission of Ohio
- www.drelocation.com/ohio - Relocation services

- www.oh.nrcs.usda.gov – United States Department of Agriculture National Resource Conservation Service
- <http://pubs.usgs.gov/fs/> - U.S. Geological Survey Fact Sheets
- www.naturalhazards.org - Natural Hazards Education and Research Cooperative (NHERC)
- <http://www.legislature.state.oh.us/> - Manufactured Home regulations
- <http://mitigationplan.org> – Hazard Mitigation Planning
- http://www.hazmap.nctcog.org/risk_assessment/Chapter11.asp

County References

- www.heritagepursuit.com/Madison/MadisonPikeH.htm - Heritage Pursuit, The place for Historians and Genealogists
- <http://www.washingtonpost.com/wp-dyn/articles/A38850-2004Aug27.html> - The Washington Post Newspaper
- <http://www.pe.net/~rksnow/ohcountymechanicsburg.htm#statistics> – Key to the City, Norco, California, USA
- <http://www.co.champaign.oh.us/History/history.html> - Champaign County, Ohio website
- <http://www.rootsweb.com/~ohchampa/history.htm> - Roots Web a genealogy site supported by Ancestry.com
- <http://www.odod.state.oh.us/research/files/S0/Champaign.pdf> - Ohio Department of Development
- http://www.osuedc.org/profiles/pdf/champaign_county_profile.pdf - Ohio State University Extension Data Center
- <http://www.heritagepursuit.com/Champaign> - Heritage Pursuit, The place for Historians and Genealogists
- Comprehensive Plan of North Lewisburg, Ohio
- <http://www.urbanaohio.com/> - Urbana, Ohio website
- www.miamiconservancy.org – The Miami Conservancy District
- miami.osu.edu/wg/wg.html – Middle Great Miami Watershed Alliance
- www.gochampaign.com/pdfs/Champaign%20County%20Land%20Use%20Plan.pdf - Champaign County Comprehensive Plan for Incorporated Areas