

**Appendix A:
Notification Process**

August 2, 2004

CHAMPAIGN CO
MIAMI CO
MONTGOMERY CO
GREEN CO
MADISON CO

Re: **Clark County All Natural Hazards Plan (Mitigation Plan)**

Dear County Commissioners or EMA Director: **(personalize)**

The purpose of this letter is to notify adjacent counties that Clark County is actively developing a countywide All Natural Hazards Mitigation Plan. The purpose of this Mitigation Plan is to allow all of Clark 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 Clark 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 Clark County is actively developing an All Natural Hazards Mitigation Plan.***

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

Thank you,

Sincerely,

Robert Hupp
Director

CC: Clark County Board of Commissioners
Kari Mackenbach, EMH&T
file

October 12, 2004

Dear **Core Group Member:** or personally address to each person

Re: Kick-off Meeting for Hazard Mitigation Planning

The Clark Emergency Management Agency is moving forward in making their community Disaster Resistant and wants you to be a part of this precedent setting process!

A Core Group of people are needed for the purpose of creating the Clark County All-Natural Hazards Mitigation Plan (Mitigation Plan) and it's now time to start planning. This will be an exciting process that will involve all eleven incorporated jurisdictions of Clark County as well as the unincorporated areas of the County.

The Core Group will have a key role in creating the Mitigation Plan that the entire County can be proud of. It is anticipated that we will be meeting approximately 4 times.

There will be an initial "**kick-off**" meeting on November 4th, 2004 at 7:00pm. The location of the meeting will be at the Clark County EMA Office, 4735 Ridgewood Road East, Springfield, Ohio 45505. The agenda of this meeting will consist of the following items:

1. Discussion and Presentation of the All Hazard Mitigation Planning process
2. Establish meetings and important dates
3. Organize, schedule and conduct initial interviews
4. Exchange information among Core Group Members
5. Discuss initial hazard assessment review
6. Discuss a prioritized list of potential hazards
7. Discuss a draft Mission Statement

Evans, Mechwart, Hambelton 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.

If you have any questions before the kick-off meeting please do not hesitate to call or e-mail with questions or comments. Please let us know if you are unable to attend.

Sincerely,

Robert Hupp
Director
Clark County Emergency Management Agency

CC: Kari Mackenbach, EMH&T
Clark County EMA File

FOR IMMEDIATE RELEASE: November 5th, 2004

Contact: Robert Hupp, 937-328-4586

Clark County to Complete an All Natural Hazard Mitigation Plan

Springfield, OH – The Clark County EMA is moving forward in making their community disaster resistant by creating an All-Natural Hazards Mitigation Plan. Clark 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 Clark County. Tom Cisco, Director for Clark 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 (Clark 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.

November 9, 2004

Mayor Arlie Addis Sr.
Village of Catawaba
PO Box 25
Catawba, Ohio 43010

Dear Mayor Addis Sr.,

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 Clark County Board of Commissioners received a grant from the Ohio Emergency Management Agency to support development of a Natural Hazard Mitigation Plan for Clark County, including all 11 political jurisdictions, including Springfield, Catawba, South Vienna, South Charleston, Tremont City, Lawrenceville, Donnelsonville, New Carlisle, North Hampton, Enon and Clifton. All local communities in Clark County must have a federally approved plan in order to qualify for pre- or post-disaster mitigation funding.

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.

The Plan should be completed within the next four 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 Clark County Emergency Management Agency Core Group, in partnership with EMH&T, will conduct a Hazard Analysis based on available information from federal, state and local community sources, identify and evaluate potential alternatives for mitigation measures that can be taken in the event of a natural disaster, and create 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. One public meeting on the draft Plan will be held upon completion of the planning process.

We request your participation in this process and hope that you can attend the next Core Group planning meeting scheduled for December 8th, 5:00 – 7:00 pm at the Emergency Management Agency Building located at 4735 Ridgewood Road East, Springfield.

If you have any questions please feel free to give me a call or the consultant working with Clark County. You can reach Maureen Richard via phone at (513) 697-8701 or via e-mail mrichard@emht.com.

Thank you for your time.

Sincerely,

Robert Hupp, Director
Clark County EMA

cc: Maureen Richard, EMH&T
Robert Hupp, Clark County EMA files
Clark County Commissioners

Should be on your letterhead.

December 10, 2004

From the Desk of:

Mr. Robert Hupp , Director
Clark County Emergency Management Agency
4735 Ridgewood Road E
Springfield, Ohio 45503
(937) 399-5526

MUST BE INDIVIDUALLY ADDRESSED

**JURISDICTIONS NOT AT MEETINGS YET – NORTH HAMPTON, DONNELSVILLE,
LAWRENCEVILLE, TREMONT CITY, CATAWBA, CLIFTON**

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 Clark 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 Clark County, including all of the political jurisdictions, including Springfield, New Carlisle, South Charleston, Enon, Donnelsville, North Hampton, Tremont City, South Vienna, Lawrenceville, Catawba and Clifton. All local incorporated communities in Clark 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 Clark 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. One public meeting on the draft Plan will be held in early October.

We request your participation in this process and hope that you can attend the next meeting scheduled for January 5, 5:00 – 7:00 pm at the Clark County EMA facility on Ridgewood Road E in Springfield.

Please send completed surveys to:

EMH&T
Attention: Maureen M. Richard, P.E.
8790 Governor's Hill Drive, Suite 110
Cincinnati, Ohio 45249

Phone: (513) 697-8701
Fax: (513) 697-8703 fax

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

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

Sincerely,

Robert Hupp, Director
Clark County EMA

Encl.

cc: Maureen Richard, EMH&T
Robert Hupp, Clark County EMA files
Clark County Commissioners

Clark 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?



February 15, 2005

Re: Clark County Natural Hazards Mitigation Plan

Dear Mr. Community:

As you are aware, the Clark County Emergency Management Agency (EMA) and a selected Core Group have been actively involved in drafting an All Natural Hazards Mitigation Plan (Mitigation Plan) for your County. As a group, the EMA and Core Group developed alternatives and projects to mitigate the problems within the County due to natural disasters. These alternatives are listed in a matrix that is attached to this letter and will be included in the Mitigation Plan. The rating of these alternatives was discussed and revised at the February 9, 2005 mitigation planning meeting. Please review the minutes from that meeting for those changes.

Another component of this plan is compiled of mitigation alternatives and projects that each individual jurisdiction chooses to support in their community. As a representative of one of the incorporated jurisdictions within Clark County and a member of the Core Group, you are being asked to review the overall matrix and select a mitigation alternative or alternatives to support in your community. Please choose your alternative(s) to support and forward them to me by February 25, 2005.

If you have any questions before the final meeting please do not hesitate to call me at (614) 470-9491 or e-mail me at kmackenbach@emht.com.

Sincerely,

EVANS, MECHWART, HAMBLETON & TILTON, INC.

Kari Mackenbach, CFM
Program Manager
Planning and Mitigation

FOR IMMEDIATE RELEASE: February 28, 2005

Contact: Robert Hupp, 937-328-4586

Clark County Draft All Natural Hazard Mitigation Plan Public Hearing

Springfield, OH – The Clark County Emergency Management Agency (EMA) in coordination with a Core Group of leaders invited to participate has created a draft Clark County All Hazard Mitigation Plan (Mitigation Plan). This plan, once approved by the Federal Emergency Management Agency will guarantee Clark County's eligibility to receive mitigation dollars from Federal and State sources in the future. Clark County is one of the few counties that received funding from the Ohio Emergency Management Agency to complete an All Natural Hazard Mitigation Plan in 2004. Robert Hupp, Director for Clark County EMA, headed up the Core Group, which had representation from all incorporated areas of Clark County as well as key county agency representation. Each Core Group member had a key role and was instrumental in moving Clark 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 Wednesday March 16th, 2005 from 5-7pm, at the Clark County Emergency Management Offices, located at 4735 Ridgewood Road East, Springfield, Ohio 45503.

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



Clark County All Natural Hazard Mitigation Public Comments Received

The public hearing press release was sent out February 28, 2005. There were no public comments received either before or after the public hearing on March 16, 2005.

**Clark County
All Natural Hazard Mitigation Plan
Core Group Meeting Attendance**

**PLEASE PRINT SO WE CAN RECORD YOUR NAME
CORRECTLY.**

Name	Affiliation	Address	Phone	Fax (Please record your fax number if you do NOT have an email address)	E-Mail
Joe Mosier 1,2,4	Moorefield Township Trustee	3223 Tamarack Avenue Springfield, OH 45502	(937)399-5487	(937)390-9973	
Greg Chambers 1,2,3,4	City of Springfield	76 E. High Street Springfield, OH 45502-1214	(937)328-3460	(937)328-3497	gchambers@ci.springfield.oh.us
Dana Booghier 1,2,4	Clark County	25 W. Pleasant Street Springfield, OH 45506-2283	(937)328-2495	(937)328-3497	
Doug Smith 1,4	Trustee Springfield Twp	297 Ra Mar Springfield, OH 45502-9469	(937)322-6813	(937)322-1871	Smith_douglas@nlvmail.com
Elmer Beard 1,2,3,4	Mayor Village of Enon Deputy Chief Mad River Twp. (Enon) Fire/EMS	133 South Xenia Street POB 367 Enon, OH 45323-1250	(937)864-7461 eve (937)328-5240 day	(937)864-5644	embeard@aol.com
Bob Bender 1	City of New Carlisle	331 S. Church Street New Carlisle, OH 45334	(937)845-9492	(937)845-2338	rbender@newcarlisle.net
Warren Smith 1,3,4	Pres. of Council SoVienna Fire Chief Harmony Twp	23 N. East Street So. Vienna, OH 45369	(937)568-4757		DJSMITH76@juno.com
Bruce Smith 1,3,4	Clark County Engineer	4075 Laybourne Road Springfield, OH 45505-3613	(937)328-2484		engineer@clarkcountyohio.gov
Bob Hupp 1,2,3	Clark County EMA	4735 Ridgewood Road E, Springfield, OH 45503-5842	(937)328-4586		ema@clarkcountyohio.gov
John W. Hughel 2,3,4	Springfield Township Road Superintendent	2135 Cheviot Hills Drive, Springfield, OH 45505	(937)324-0355	(937)322-9934	jhughel@bizwoh.rr.com

1 Kick Off Attendees, 2 Problem Statement Attendees, 3 Alternatives Attendees, 4 Wrap Up Attendees

**Clark County
All Natural Hazard Mitigation Plan
Core Group Meeting Attendance**

**PLEASE PRINT SO WE CAN RECORD YOUR NAME
CORRECTLY.**

Name	Affiliation	Address	Phone	Fax (Please record your fax number if you do NOT have an email address)	E-Mail
James McKinney 2	President of Commission South Charleston	215 Old Springfield Road, South Charleston, OH 45368	(937)462-7147		
Shane Farnsworth 2	Clark County Planning Commission	25 W. Pleasant Street, Springfield, OH 45506	(937)328-2498	(937)328-2621	sfarnsworth@clarkcountyohio.gov
Lisa D'Allessandris 2,3	Clark County EMA	4735 Ridgewood Road E, Springfield, OH 45503	(937)399-5526 (937)605-3160		ema@clarkcountyohio.gov
Jeffrey G. Clippinger 3	Mayor Village of Tremont	31 E. North Street, P.O. Box 187, Tremont City, OH 45372	(937)969-8281 (937)969-8173		Jclip2@yahoo.com
Carole K. Clippinger 3	Clerk Village of Tremont	26 East Main Street, P.O. Box 93, Tremont City, OH 45372	(937)969-8281 (937)969-8847		
Bud Addis 3	Mayor Village of Catawba	140 E. North Street, P.O. Box 93, Catawba, OH 43010	(937)828-1438		
Keith Baldwin 3,4	Council President Village of North Hampton	52 E. Clark Street, P.O. Box 342, North Hampton, OH 45349	(937)964-5040		Keith.baldwin@prodigy.net

Appendix B:
Utility Service Maps



ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS

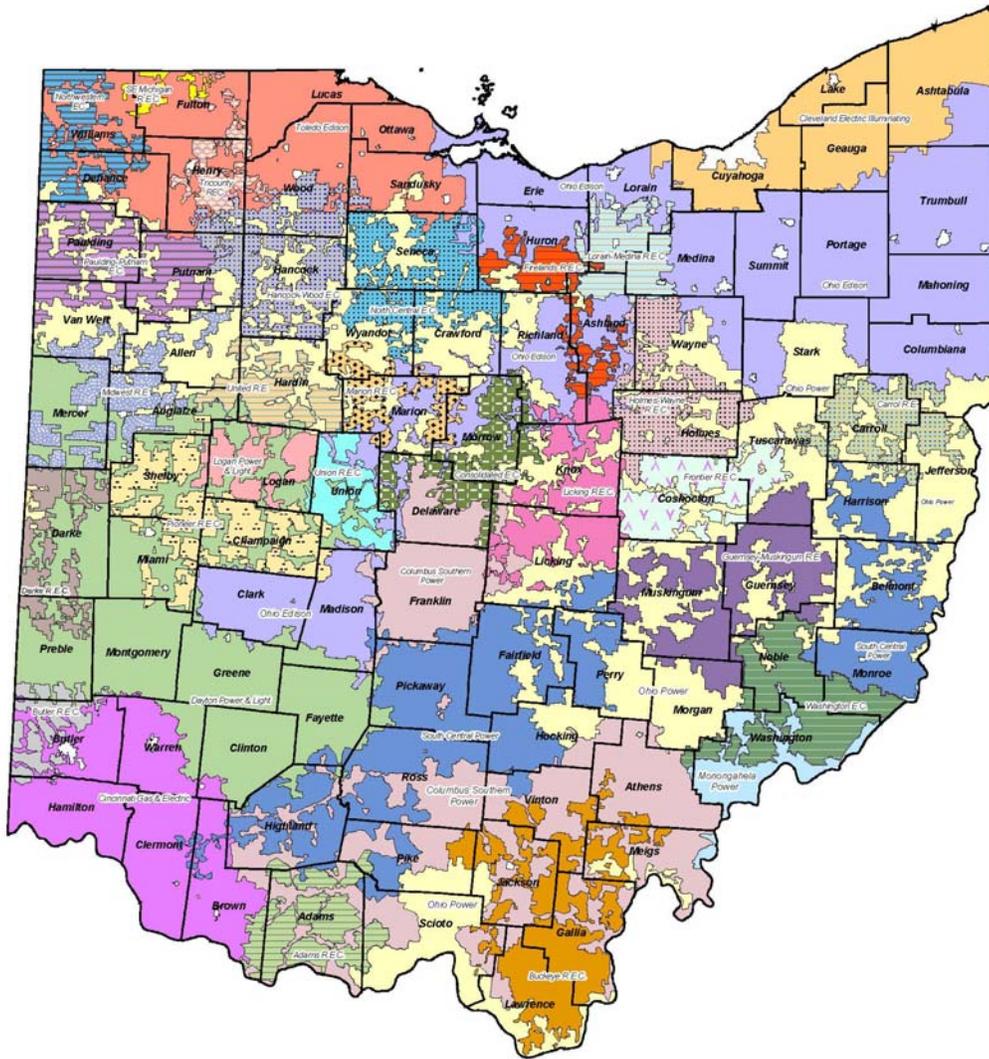
EVANS, MECHWART, HAMBLETON & TILTON
 170 MILL STREET
 GAHANNA, OHIO 43230
 TELEPHONE (614) 471-5150
 FACSIMILE (614) 471-9286

CLARK COUNTY, OHIO
MAP B-1
 COUNTYWIDE ALL NATURAL HAZARD MITIGATION PLAN
 Service Areas of Ohio Electric Companies

December 2004

Job No 2004 1605

Scale: NTS



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



ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS

EVANS, MECHWART, HAMBLETON & TILTON

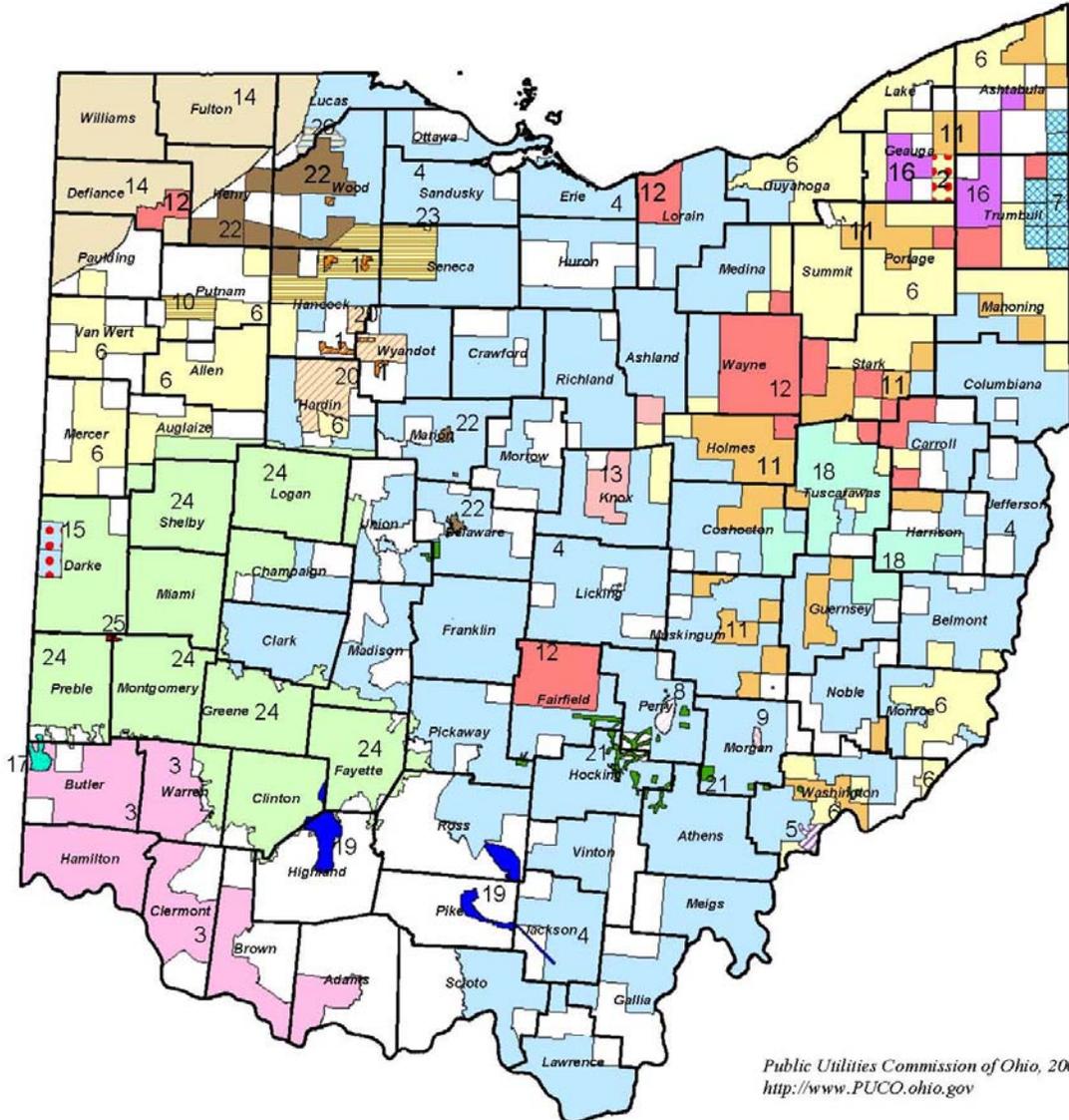
170 MILL STREET
GAHANNA, OHIO 43230
TELEPHONE (614) 471-5150
FACSIMILE (614) 471-9286

CLARK COUNTY, OHIO
MAP B-3
COUNTYWIDE ALL NATURAL HAZARD MITIGATION PLAN
PUCO Regulated Natural Gas Companies

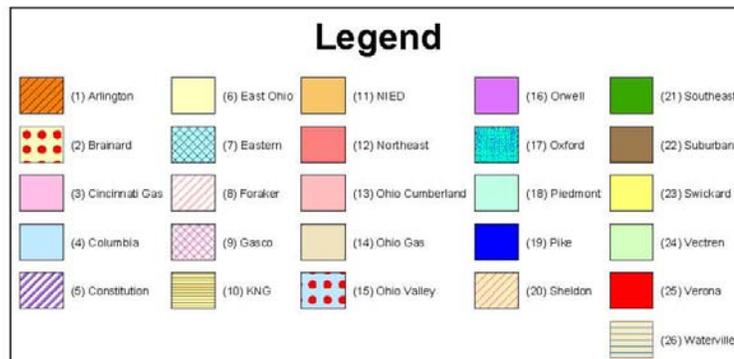
December 2004

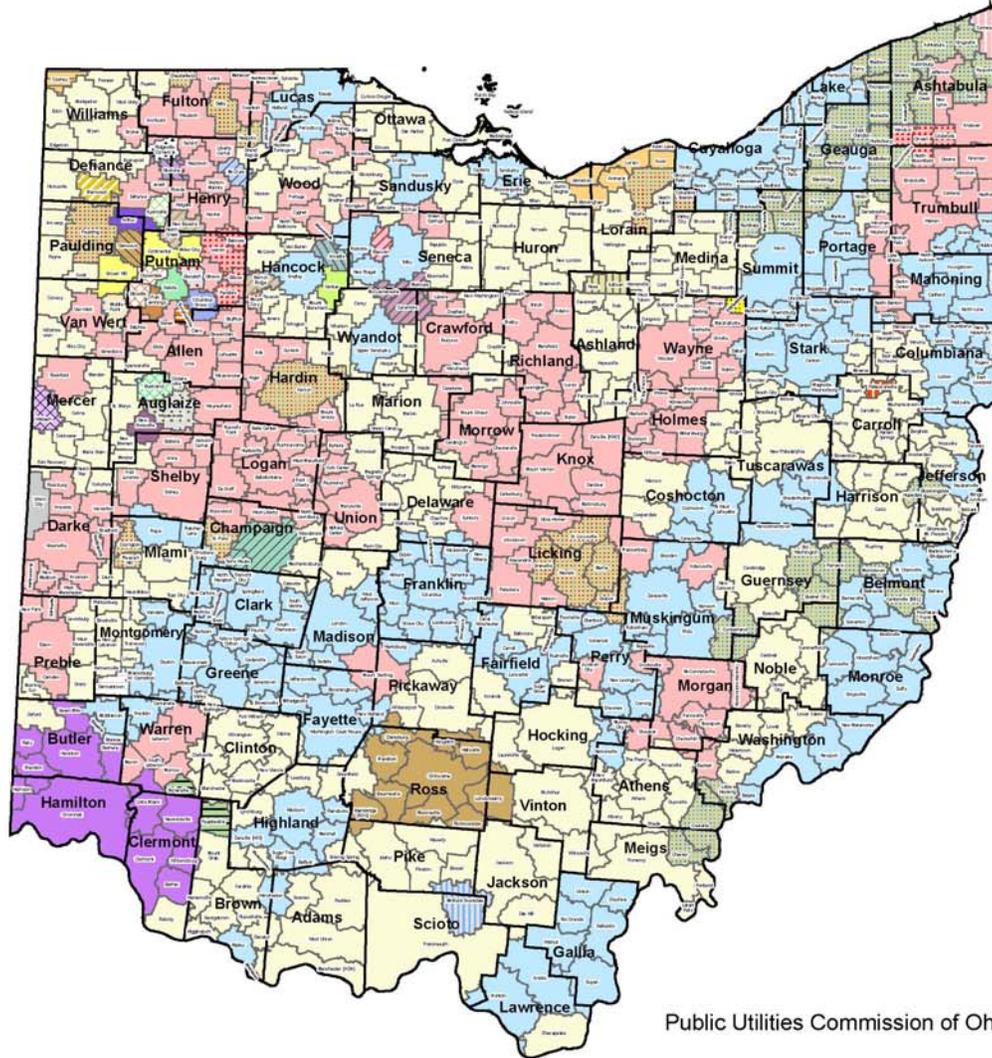
Job No 2004 1605

Scale: NTS



Public Utilities Commission of Ohio, 2002
<http://www.PUCO.ohio.gov>





Public Utilities Commission of Ohio

Large Incumbent LECs			Small Incumbent LECs		

**Appendix C:
Meeting Minutes**



Clark County All Natural Hazard Mitigation Kick-Off Meeting Minutes

Date: November 4, 2004

Attendance:

Joe Mosier, Trustee
Greg Chambers, City of Springfield
Dana Booghier, Clark County
Doug Smith, Springfield Township Trustee
Elmer Beard, Village of Enon Mayor
Bob Bender, City of New Carlisle
Warren Smith, Pres. of Council, South Vienna
Bruce Smith, Clark County Engineer
Bob Hupp, Clark County EMA
Kari Mackenbach, EMH&T
Maureen Richard, EMH&T

Meeting began with introductions of EMH&T, who will serve as our consultant during the planning process and document development. Ms. Kari Mackenbach is the Program manager for Natural Hazard Mitigation Planning and is located in their Columbus office. Ms. Maureen Richard is a Professional Engineer acting as a Project Manager in this effort and is located in their Cincinnati office.

An overview of the planning process was presented by Kari Mackenbach of EMH&T Inc.

Ms. Mackenbach provided a list of disasters that have affected Shelby County since 1950 as part of EMH&T's initial hazard assessment. A project timeline was presented as well as the three C's of planning (Comprehensive, Coordinated, and Collaborative). Ms. Mackenbach emphasized the need for input from those in the community in this plan development.

Ms. Mackenbach led a discussion on critical facilities. EMH&T needs names and addresses of all critical facilities within each community. Critical facilities are fire departments, police departments, emergency services (EMA and hospitals), nursing homes, schools, day care facilities, large populous areas, municipal buildings as well as any other structure that a community may feel needs to be included to protect human health. These facilities will be illustrated on a GIS map to be included in the Mitigation Plan.

A question and answer period followed the presentation. Ms. Mackenbach answered questions concerning funding available by having this plan in place. Three funding

sources were discussed, namely the Pre-Disaster Mitigation (PDM) Grant Program, Hazard Mitigation Grant Program (HGMP) and Flood Mitigation Assistance (FMA).

Ms. Mackenbach requested contact information and documents from the Core Group that would aid EMH&T in their research (subdivision regulations, floodplain regulations, building codes, zoning codes, comprehensive plan). There was a request for a “shopping list” of information that will be needed from different departments within the county. EMH&T will provide this list to Mr. Hupp to forward to the Core Group members.

Next meeting: Wednesday December 8th at 5:00 PM, at the Clark County EMA facility.



Clark County All Natural Hazard Mitigation Problem Statements Meeting Minutes

Meeting Minutes
December 8, 2004

Opening:

The second meeting of the Clark County Emergency Management Agency's All-Natural Hazards Mitigation Planning Committee was called to order at 1700 on December 8, 2004 in the Clark County EMA Offices located at 4735 Ridgewood Road East, Springfield Ohio 45503 by Robert C. Hupp, Director of Emergency Management in Clark County.

Present:

Bob Hupp, Clark County EMA
Joe Mosier, Moorefield Township Trustee
Greg Chambers, City of Springfield, Risk Management
Dana Booghier, Clark County Building Regulations
Elmer Beard, Village of Enon, Mayor
John Hughel, Springfield Township Road Superintendent
James McKinney, South Charleston, President of Commission
Shane Farnsworth, Clark County Planning Commission
Lisa D'Allessandris, Clark County EMA
Maureen Richard, EMH&T, Civil Engineer

Old Business:

1. Information and documents from the Core Group that would aid EMH&T in their research (subdivision regulations, floodplain regulations, building codes, zoning codes, and comprehensive plan) was turned in by Cities of Springfield and New Carlisle, and from the Planning and Building and Regulations departments.

New Business:

2. The Core Group discussed and agreed upon five all-natural hazards categories that face Clark County and ranked them in order of importance.
 - a. Severe Storms
 - i. Winter
 - ii. Summer
 - b. Flooding
 - i. Dam Safety
 - c. Tornadoes
 - d. Drought and Extreme Temperatures
 - e. Earthquakes

3. The Core group formulated goals for each category (see attachment: Overall Goals). The group has been asked to review the goals and make any comments or changes needed prior to the next meeting. These will be discussed at the beginning of the third session. Please highlight any changes made and e-mail them to the EMA office at ema@clarkcountyohio.gov.
4. Discussion of 'Problem Statements' for each category was agreed upon by Core Group (see attachment: December 8). The group has been asked to review the statements and make any comments or changes needed prior to the next meeting. These will be discussed at the beginning of the third session. Please highlight any changes made and e-mail them to the EMA office at ema@clarkcountyohio.gov.
- 5.

Adjournment:

Meeting was adjourned at 1900 by Robert C. Hupp. The next planning meeting will be at 1700 on January 5, 2005 in EMA Offices, located at 4735 Ridgewood Road East, Springfield, Ohio 45503.

Minutes submitted by: Lisa D'Allessandris, Clark County EMA, Deputy Director

Approved by: Robert C. Hupp, Clark County EMA, Director



Clark County All Natural Hazard Mitigation Mitigation Alternatives Development Meeting Minutes

Date: January 5, 2004

Bob Hupp, Clark County EMA
Greg Chambers, City of Springfield,
Risk Management
Elmer Beard, Village of Enon, Mayor
John Hughel, Springfield Township
Road Superintendent
Bruce Smith, Clark County Engineer
Warren Smith, South Vienna, President
of Council
Lisa D'Allessandris, Clark County EMA

Jeffrey Clippinger, Village of Tremont,
Mayor
Carole Clippinger, Village of Tremont,
Clerk
Bud Addis, Village of Catawba, Mayor
Keith Baldwin, Village of North
Hampton, President of Council
Maureen Richard, EMH&T, Civil
Engineer

Ms. Richard gave a brief overview of the mitigation planning process for those not in attendance at previous meetings.

The Core Group reviewed the meeting minutes from December 8, 2004. There were no comments on the minutes.

Ms. Richard redistributed the Mission Statement examples. The Core Group approved example No. 2 to be included in the Mitigation Plan.

The Draft Problem Statements were redistributed for the Core Group's review. Ms. Richard stated that the Group should review and forward any comments to Mr. Hupp or Ms. D'Allessandris.

Overall goals are attached to the Problem Statements. The Core Group members are to review these goals and approve or comment. Comments to be sent to Mr. Hupp or Ms. D'Allessandris to forward to EMH&T.

Ms. Richard led a brief discussion on needed information for critical facilities. Ms. D'Allessandris is compiling the list and needs additional information forwarded to him.

Ms. Richard reviewed the six categories of Hazard Management Practices as approved by FEMA.

- Preventive Measures
- Property Protection Measures
- Natural Resource Protection
- Emergency Services
- Structural Projects

- Public Information

Ms. Richard led a discussion concerning possible alternatives activities to mitigate the problems which exist in Clark County. Alternatives were developed by the Core Group per hazard.

Ms. Richard briefly reviewed the alternatives ranking matrix that will be sent to the Core Group. The Core Group then decided which evaluation criteria were to be used when ranking each alternative. Those criteria are as follows:

- Technically Feasible
- Meets Federal, State and Local Regulations
- Activities Reduce Risk
- Funding Available
- Frequency of Hazard Risk
- Benefits outweigh Cost

EMH&T will mail matrices to each member of the Core Group to be completed and returned. A self addressed stamped envelope will be included.

Next Meeting: Wednesday February 9, 2005 at 5:00 pm at the EMA Offices, located at 4735 Ridgewood Road East, Springfield, Ohio 45503.



Clark County All Natural Hazard Mitigation Wrap-Up Meeting Minutes

Date: February 9, 2005

Bob Hupp, Clark County EMA
Greg Chambers, City of Springfield,
Risk Management
Dana Booghier, Clark County
Elmer Beard, Village of Enon, Mayor
John Hughel, Springfield Township
Road Superintendent

Bruce Smith, Clark County Engineer
Warren Smith, South Vienna, President
of Council
Keith Baldwin, Village of North
Hampton, President of Council
Kari Mackenbach, EMH&T

Ms. Mackenbach gave a brief overview of what was going to be covered with today's agenda.

The Core Group reviewed the meeting minutes from January 5, 2005. There were no comments on the minutes.

Participation in Process

All incorporated communities at this point are participating except for Donnelville. Clark County EMA was going to follow-up with them soon to get them into compliance. The Village of Lawrenceville is dissolving so it will be mentioned in the plan that during the planning stages of this effort that it was dissolved as a Village. The Village of Clifton, which is located half in Clark County and half in Greene County, has decided to participate with Greene County in the Mitigation Planning Process.

Matrices

Ms. Mackenbach asked the Core Group to look at the compiled matrices to see if we are missing any of the mitigation alternatives. Core Group said all the alternatives were in the matrix.

Mapping Products

Ms. Mackenbach asked the Core Group if all the information for the mapping product was turned in. The only outstanding item that Ms. Mackenbach was aware of was the tornado paths. We will be following up with Clark County EMA to determine starting and ending points of the documented tornadoes in Clark County.

Matrix Results

The Core Group felt that the matrix results represented their desired results with a few changes.

1. Anything rated 20.0 and above should be listed as prioritized; in the hazards that had mitigation alternatives rated that high. In other lower rated hazards the prioritized list should remain as is.
2. Wanted to keep the time open for a couple more days to accept matrix results since some of them had just gotten their package in the mail earlier this week.

Participating Communities Mitigation Alternatives

Overall Mitigation Alternatives for the incorporated jurisdictions in Clark County.

North Hampton –the Village felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

Lawrenceville-Dissolving as a Village so they are not participating in this effort.

Tremont City- the City felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

New Carlisle- the City felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

Enon–the Village felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

Springfield–the City felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

South Charleston- the Village felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

Catawba- the Village felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

South Vienna–the Village felt comfortable with the Core Group results and the highest prioritized mitigation alternatives are what they would like to have as their selected mitigation alternatives.

The Core Group as wanted to add a Section to the plan on Other Hazards. The other hazards that they wanted to address include: Interstate 70 and the aquifer that is used as a water supply source, US RT 68 and the aquifer that is used as a water supply source, the Tremont City Landfill (listed as a Superfund Site), aquifers affected by rail lines, and rail lines that go through incorporated areas.

Action Plan

The Action Plan was presented today to the Core Group, showing the results of the matrices. Clark County EMA staff will be working on this and submitting for inclusion into the Draft Mitigation Plan as soon as possible.

Next Meeting: PUBLIC HEARING Wednesday March 22, 2005 at 5:00 pm at the EMA Offices, located at 4735 Ridgewood Road East, Springfield, Ohio 45503.

**Appendix D:
Problem Statements
And Overall Goals**

PROBLEM STATEMENTS FOR CLARK COUNTY ALL NATURAL HAZARD MITIGATION PLAN

SEVERE STORMS – (Winter/Summer)

The Core Group has prioritized this hazard as their number one concern. Severe storms occur throughout the year in Clark 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 are no permanent structures for designated emergency shelters in any of the mobile home parks or campgrounds in Clark County.

Clark County does not have an adequate early warning system (i.e. sirens, Public Service Announcements) in most communities in the County.

The County lacks a countywide comprehensive 9-1-1 system, which could be used to advise residents of dangerous severe weather conditions.

There is a lack of community education on the hazards associated with severe weather, such as medical conditions and driving conditions.

Roads blocked by deep snow cause delay in emergency response.

The County does not have enough emergency response resources in the event of severe (disastrous) storms.

Debris in roadways, including downed utility lines, caused by high winds block roadways causing delays in emergency response.

Clark County lacks four-wheel drive vehicles for emergency operations.

There is a lack funding for transporting mission essential personnel to critical facilities

Critical facilities, those facilities that need to maintain power at all times, are not equipped with back-up generators in the event of a power outage.

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

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

The County lacks regional mutual aid agreements between fire departments, law enforcement agencies and other counties, for such things as borrowing equipment for response and cleanup.

Severe storms can have drastic effects on public and critical utilities in Clark County due to downed power lines, tree limbs, etc.

There is a lack of lightning detection equip in Clark County.

The County lacks portable generators for sensitive populations who may need power for life support systems, in case of an extended power outage.

There are limited tree maintenance programs within the County and incorporated jurisdictions (e.g. pruning, tree trimming and removal).

Older structures in the County may not be up to current building codes.

The County lacks resources and funding to restore historical sites, if they suffer severe damage.

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

There is a lack of public education for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength).

Animal removal and protection during severe storms is difficult.

There is a lack of essential supplies (e.g. food, clothing) for designated emergency shelters.

There is a lack of NOAA weather warning radios in households throughout County, especially in areas that would receive the greatest impact of severe weather.

There is a lack of public education concerning what to do after an event occurs.

There not enough shelters for the medically fragile, which are those people who do not have AC units or proper heat in their homes.

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 Clark County and has had severe affects on several communities within the county.

Core Group Developed Hazard Exposure Statements

There are no permanent structures for designated emergency shelters in any of the mobile home parks or campgrounds in Clark County.

Clark County does not have an adequate early warning system (i.e. sirens, Public Service Announcements) in most communities in the County.

The County lacks a countywide comprehensive 9-1-1 system, which could be used to advise residents of dangerous severe weather and flooding conditions.

There is a lack of community education on the hazards associated with flooding, such as driving through standing water.

Roads blocked by flood waters cause delay in emergency response.

The County does not have enough emergency response resources in the event of severe (disastrous) floods.

Debris in roadways, including downed utility lines, caused by severe weather block roadways causing delays in emergency response.

Clark County lacks four-wheel drive and water craft vehicles for emergency operations.

There is a lack funding for transporting mission essential personnel to critical facilities

Critical facilities, those facilities that need to maintain power at all times, are not equipped with back-up generators in the event of a power outage.

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

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

The County lacks regional mutual aid agreements between fire departments, law enforcement agencies and other counties, for such things as borrowing equipment for response and cleanup.

Severe storms and flooding can have drastic effects on public and critical utilities in Clark County due to downed power lines, tree limbs, etc.

The County lacks portable generators for sensitive populations who may need power for life support systems, in case of an extended power outage.

There are limited tree maintenance programs within the County and incorporated jurisdictions (e.g. pruning, tree trimming and removal).

Older structures in the County may not be up to current building codes.

The County lacks resources and funding to restore historical sites, if they suffer severe damage.

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

There is a lack of public education for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength).

Animal removal and protection during severe storms is difficult.

There is a lack of essential supplies (e.g. food, clothing) for designated emergency shelters.

The County lacks emergency trained personnel and equipment for underwater recovery.

Many bridges and culverts are susceptible to flood damage and need to be mapped for emergency response operations.

Many roads have been constructed below the 100-year floodplain elevation and are continually blocked by flood waters causing delays in emergency response due to finding alternate routes.

Many areas in the County are susceptible to excessive flooding when the ground is frozen or saturated by heavy rains.

The County lacks an early warning system for communities downstream of C.J. Reservoir dam.

There is a lack of NOAA weather warning radios in households throughout County, especially in areas that would receive the greatest impact of severe weather.

There is a lack of public education concerning what to do after an event occurs.

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. Clark's geography of flat terrain lends itself to severe wind and tornadoes.

Core Group Developed Problem Statements

There are no permanent structures for designated emergency shelters in any of the mobile home parks or campgrounds in Clark County.

Clark County does not have an adequate early warning system (i.e. sirens, Public Service Announcements) in most communities in the County.

The County lacks a countywide comprehensive 9-1-1 system, which could be used to advise residents of dangerous severe weather conditions.

There is a lack of community education on the hazards associated with severe weather and tornadoes.

The County does not have enough emergency response resources in the event of severe (disastrous) storms.

Debris in roadways, including downed utility lines, caused by high winds block roadways causing delays in emergency response.

Clark County lacks four-wheel drive vehicles for emergency operations.

There is a lack funding for transporting mission essential personnel to critical facilities

Critical facilities, those facilities that need to maintain power at all times, are not equipped with back-up generators in the event of a power outage.

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

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

The County lacks regional mutual aid agreements between fire departments, law enforcement agencies and other counties, for such things as borrowing equipment for response and cleanup.

Severe storms and tornadoes can have drastic effects on public and critical utilities in Clark County due to downed power lines, tree limbs, etc.

There is a lack of lightning detection equip in Clark County.

The County lacks portable generators for sensitive populations who may need power for life support systems, in case of an extended power outage.

There are limited tree maintenance programs within the County and incorporated jurisdictions (e.g. pruning, tree trimming and removal).

Older structures in the County may not be up to current building codes.

The County lacks resources and funding to restore historical sites, if they suffer severe damage.

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

There is a lack of public education for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength).

Animal removal and protection during severe storms is difficult.

There is a lack of essential supplies (e.g. food, clothing) for designated emergency shelters.

There is a lack of NOAA weather warning radios in households throughout County, especially in areas that would receive the greatest impact of severe weather.

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

Clark County does not have any type of debris management program in place.

There is a lack of public education concerning what to do after an event occurs.

DROUGHTS (SEVERE)

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

Core Group Developed Problem Statements

Clark County lacks a domestic water management/conservation program.

There is a lack of community education concerning hazards associated with droughts and water restrictions during drought conditions (i.e. heat stroke, wild fires).

The County does not have established enforceable open burning bans during droughts.

Farmers may not have adequate feed and water for livestock during drought conditions.

The County lacks adequate emergency response personnel and equipment for firefighting due to wild land fires.

The electrical grid is taxed because of excess use of AC, which causes brownouts.

There not enough shelters for the medically fragile, which are those people who do not have AC units or proper heat in their homes.

Medical facilities are taxed during droughts and extreme temps due to increased emergencies for medical conditions.

Clark County has a problem with residential water wells going dry during extremely hot, dry conditions.

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

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

EARTHQUAKES

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

Core Group Developed Problem Statements

There is a lack of public education concerning hazards associated with earthquakes.

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

The County lacks resources and funding to restore historical sites, if they suffer severe damage.

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

The County lacks a countywide comprehensive 9-1-1 system, which could be used to advise residents of dangerous severe weather conditions.

The County does not have enough emergency response resources in the event of an earthquake.

There is a lack funding for transporting mission essential personnel to critical facilities

Critical facilities, those facilities that need to maintain power at all times, are not equipped with back-up generators in the event of a power outage.

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

The County lacks regional mutual aid agreements between fire departments, law enforcement agencies and other counties, for such things as borrowing equipment for response and cleanup.

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

OVERALL GOALS FOR CLARK COUNTY NATURAL HAZARD MITIGATION PLAN

The Core Group discussed the following hazards and prioritized them as follows:

1. Severe Storms – including winter and summer
2. Flooding – including dam safety
3. Tornadoes
4. Drought and Extreme Temperatures
5. Earthquakes

SEVERE STORMS

Overall Goals:

To educate the County's citizens to increase awareness of severe storms and where to seek safety during storm events, to provide adequate shelters where citizens can seek safety from severe weather, to improve the warning system and radio communications throughout the County, to expedite the clean up process through coordination and equipment acquisition, to maintain operations of critical facilities and emergency services and to reduce property damage caused by severe weather.

FLOODING

Overall Goals:

To educate the County's citizens to increase awareness of flooding and where to seek safety during flood events, to provide adequate shelters where citizens can seek safety from severe weather and flooding, to improve the warning system and radio communications throughout the County, to expedite the clean up process through coordination and equipment acquisition, to maintain operations of critical facilities and emergency services and to reduce property damage caused by severe weather and flooding.

TORNADOES

Overall Goals:

To educate the County's citizens to increase awareness of severe storms and tornadoes and where to seek safety during storm events, to provide adequate shelters where citizens can seek safety from severe weather, to improve the warning system and radio communications throughout the County, to expedite the clean up process through coordination and equipment acquisition, to maintain operations of critical facilities and emergency services and to reduce property damage caused by severe weather.

DROUGHTS

Overall Goals:

To establish administrative controls to limit potential property damage, to educate the general public of the hazards associated with drought and extreme temperatures, to establish contingency plans for alternate water supply and to reduce potential damage through preplanning.

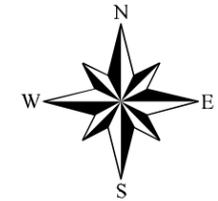
EARTHQUAKES

Overall Goal:

To increase awareness of the hazards of an earthquake event, to maintain operations of critical facilities and emergency services, to improve the warning system and radio communications throughout the County and to expedite the clean up process through coordination and equipment acquisition.

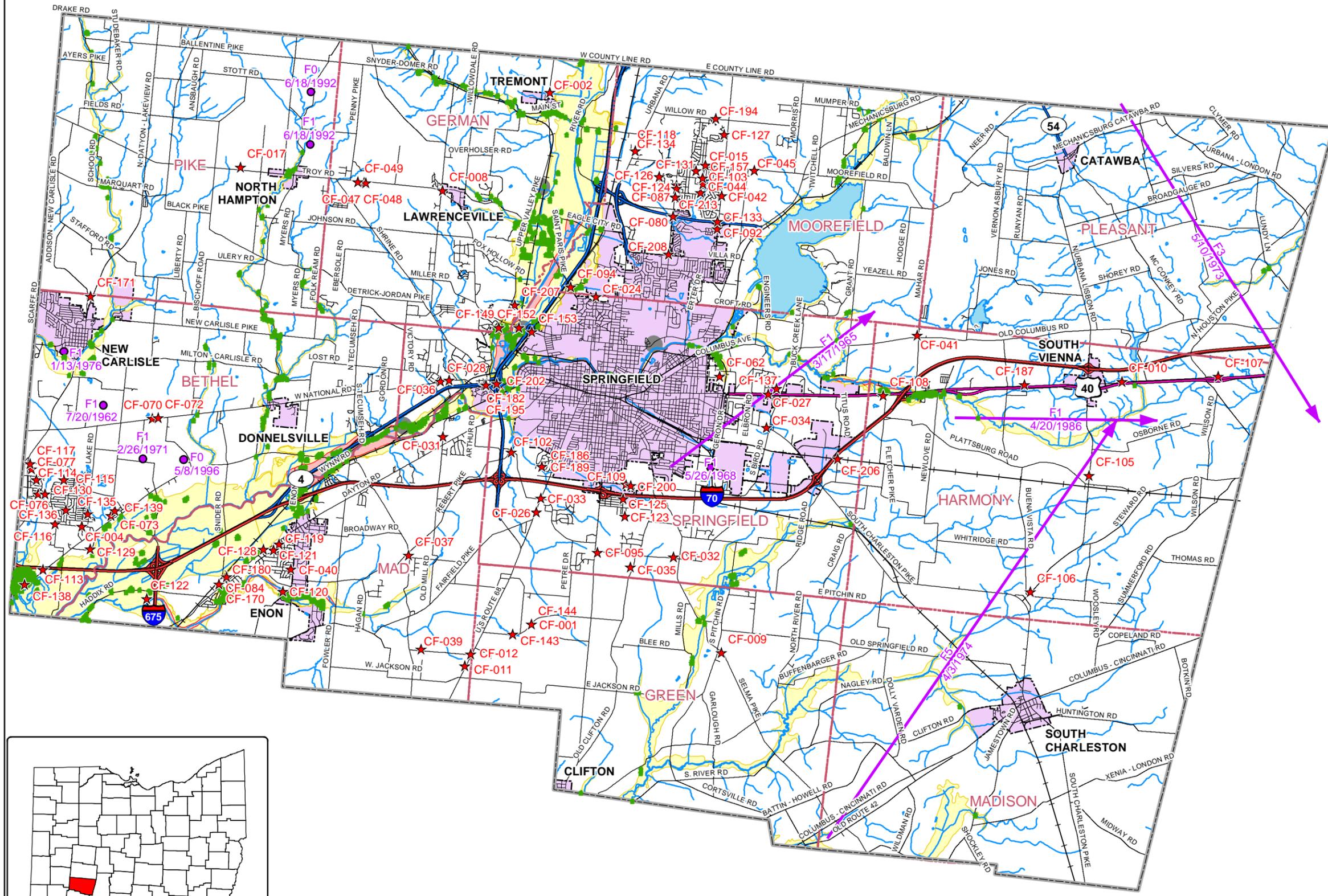
Appendix E:
Multi-Hazard Maps

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for entire county: 1876
 At-Risk structures for unincorporated areas: 1633



Legend

- ★ Critical Facilities
- At-Risk Structures
- ➔ Tornado Paths
- Repetitive Loss Areas
- ▭ County Line
- ▭ Township Lines
- ▭ Municipalities
- Interstate Route
- U.S. Route
- State Route
- Roads - County
- Roads - Munciple
- Railroads
- Waterways
- Lakes
- Floodway
- Floodplain - 100 year



Map intended for reference only

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CLARK COUNTY, OHIO
MULTI-HAZARD MAP OF CLARK COUNTY
 CLARK COUNTY - COUNTYWIDE ALL NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK01

Job No. 2004-1606
 Date: February 14, 2005
 Scale: 1" = 12,000'

Data Sources:
 Clark County Auditor's Office
 Ohio Department of Transportation (ODOT)
 Ohio Department of Natural Resources (ODNR)



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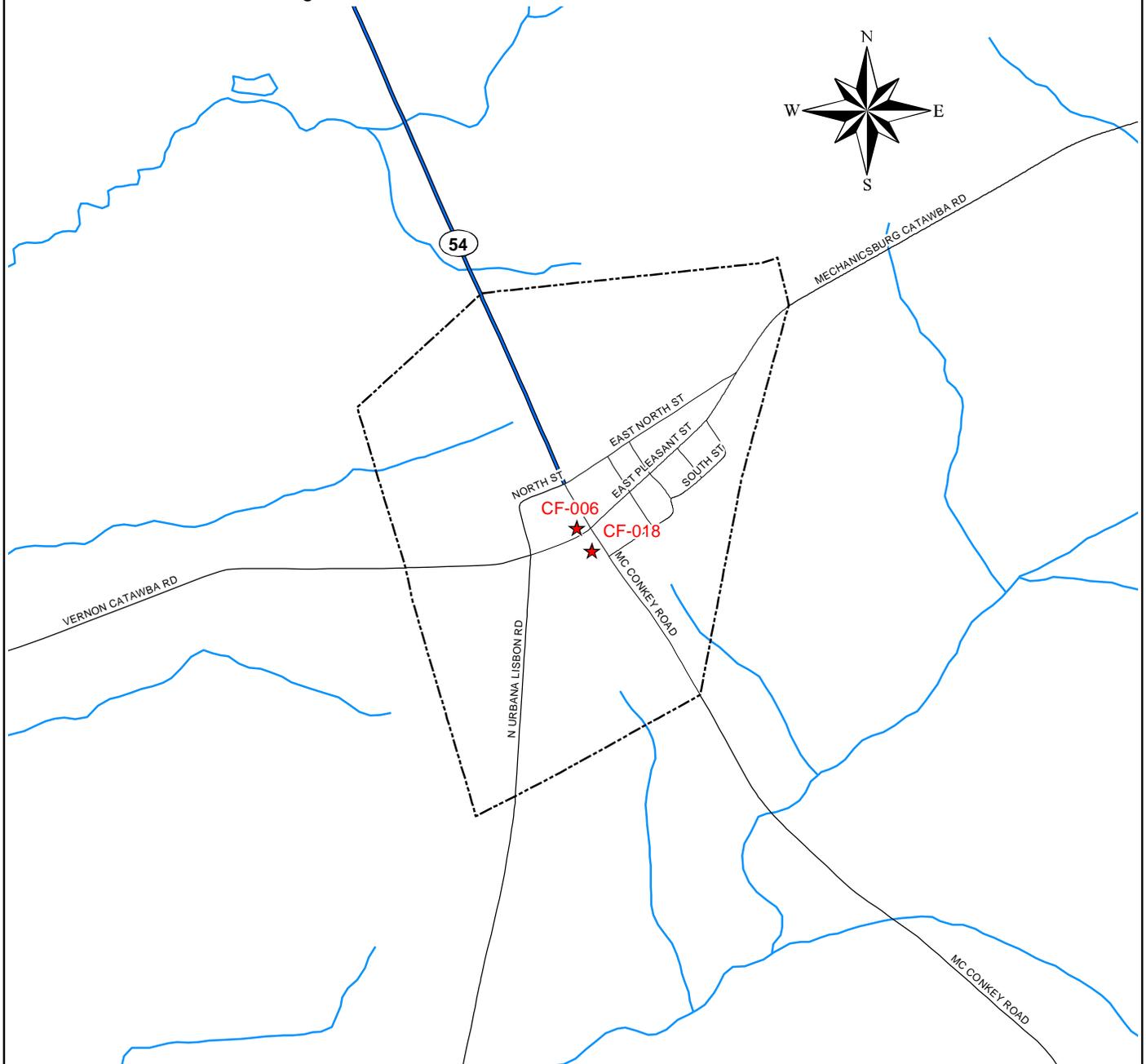
CLARK COUNTY, OHIO MULTI-HAZARD MAP OF CATAWBA, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK02

Date: February 14, 2005 | Job No. 2004-1606 | Scale: 1" = 1,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of Catawba: 0

Map intended for reference only



Legend

- | | | | |
|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | ■ Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | ■ Floodway |
| ➤ Tornado Paths | | — Roads - County | ■ Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



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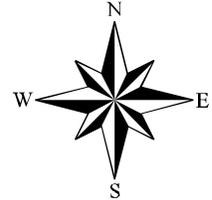
CLARK COUNTY, OHIO MULTI-HAZARD MAP OF CLIFTON, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK03

Date: February 14, 2005 | Job No. 2004-1606 | Scale: 1" = 1,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of Clifton: 0

Map intended for reference only



Legend

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|-------------------------|----------------|--------------------|-----------------------|
| ★ Critical Facilities | County Line | Interstate Route | Waterways |
| ■ At-Risk Structures | Township Lines | U.S. Route | Lakes |
| ● Repetitive Loss Areas | Municipalities | State Route | Floodway |
| ➡ Tornado Paths | | Roads - County | Floodplain - 100 year |
| | | Roads - Municipale | |
| | | Railroads | |



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CLARK COUNTY, OHIO MULTI-HAZARD MAP OF DONNELSVILLE, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK04

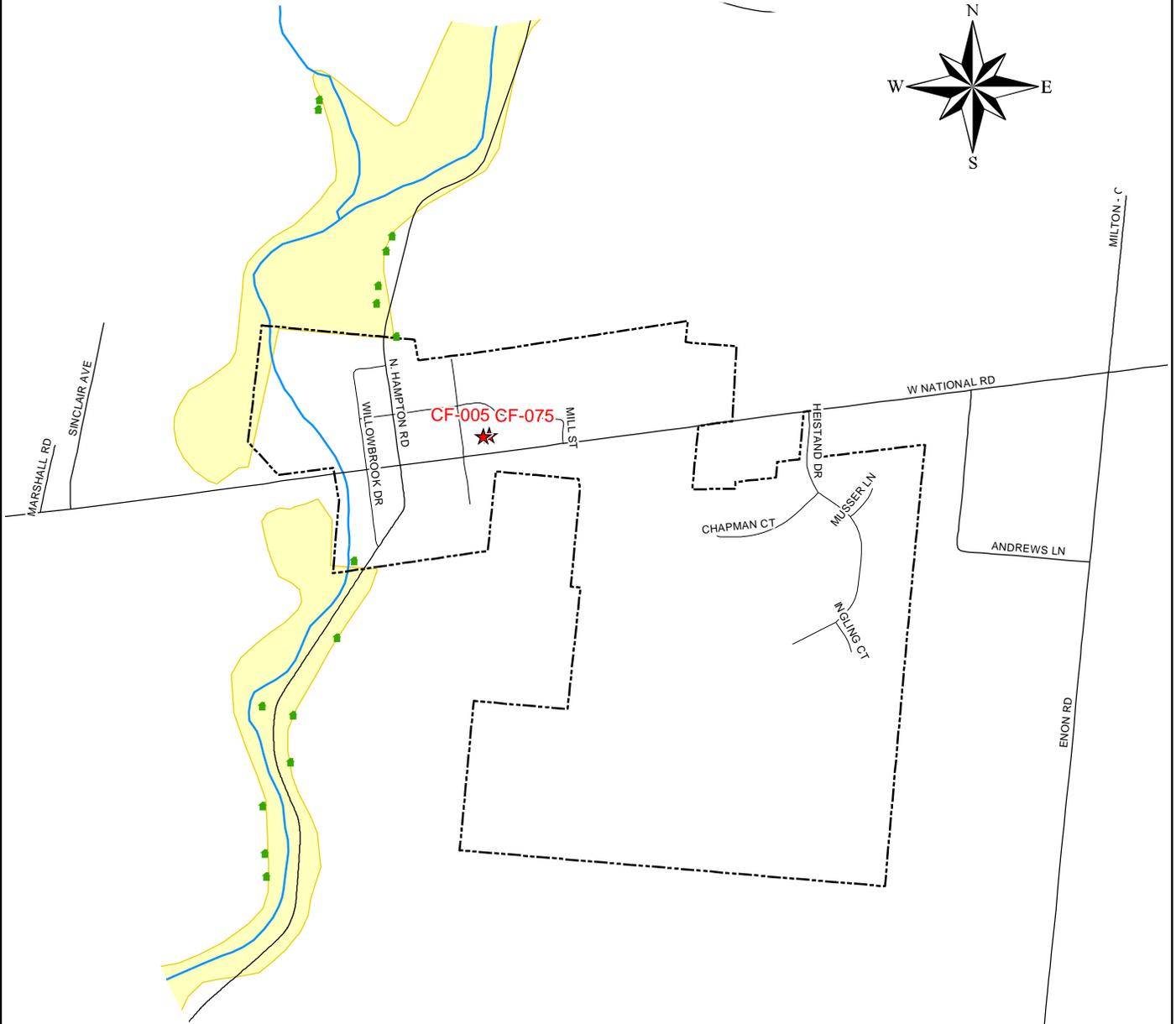
Date: February 14, 2005

Job No. 2004-1606

Scale: 1" = 1,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of Donnelsville: 1

Map intended for reference only



Legend

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|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | ▭ Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | ▭ Floodway |
| ➤ Tornado Paths | | — Roads - County | ▭ Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



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CLARK COUNTY, OHIO MULTI-HAZARD MAP OF ENON, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK05

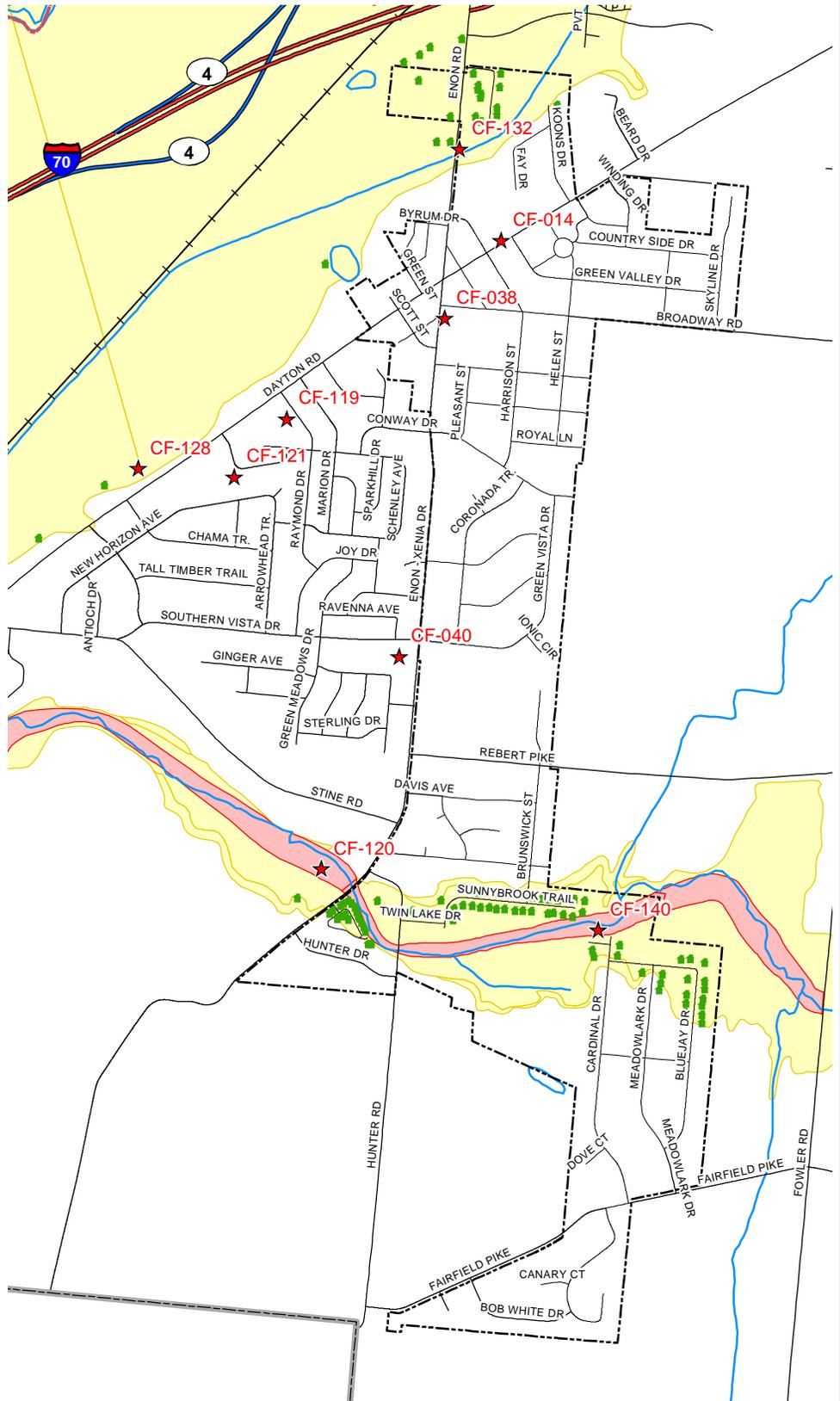
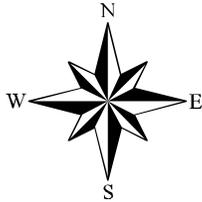
Date: February 14, 2005

Job No. 2004-1606

Scale: 1" = 2,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of Enon: 87

Map intended for reference only



Legend

- ★ Critical Facilities
- At-Risk Structures
- Repetitive Loss Areas
- ➔ Tornado Paths
- ▭ County Line
- ▭ Township Lines
- ▭ Municipalities
- Interstate Route
- U.S. Route
- State Route
- Roads - County
- Roads - Munciple
- Railroads
- Waterways
- Lakes
- Floodway
- Floodplain - 100 year



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CLARK COUNTY, OHIO MULTI-HAZARD MAP OF LAWRENCEVILLE, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK06

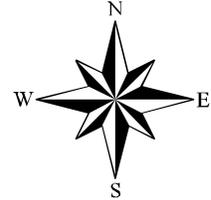
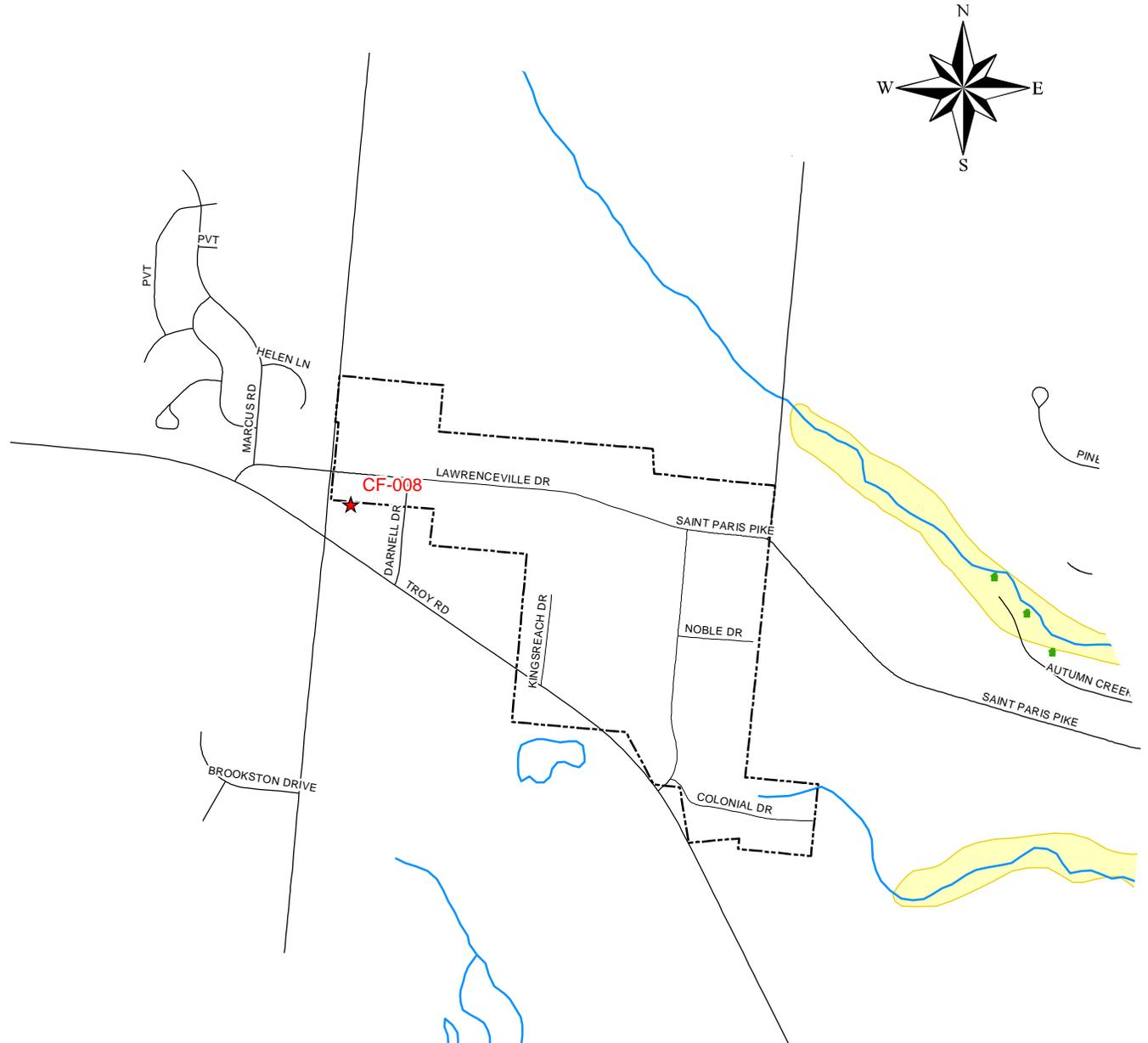
Date: February 14, 2005

Job No. 2004-1606

Scale: 1" = 1,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of Lawrenceville: 0

Map intended for reference only



Legend

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|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | ▭ Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | ▭ Floodway |
| ➡ Tornado Paths | | — Roads - County | ▭ Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



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CLARK COUNTY, OHIO MULTI-HAZARD MAP OF NEW CARLISLE, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK07

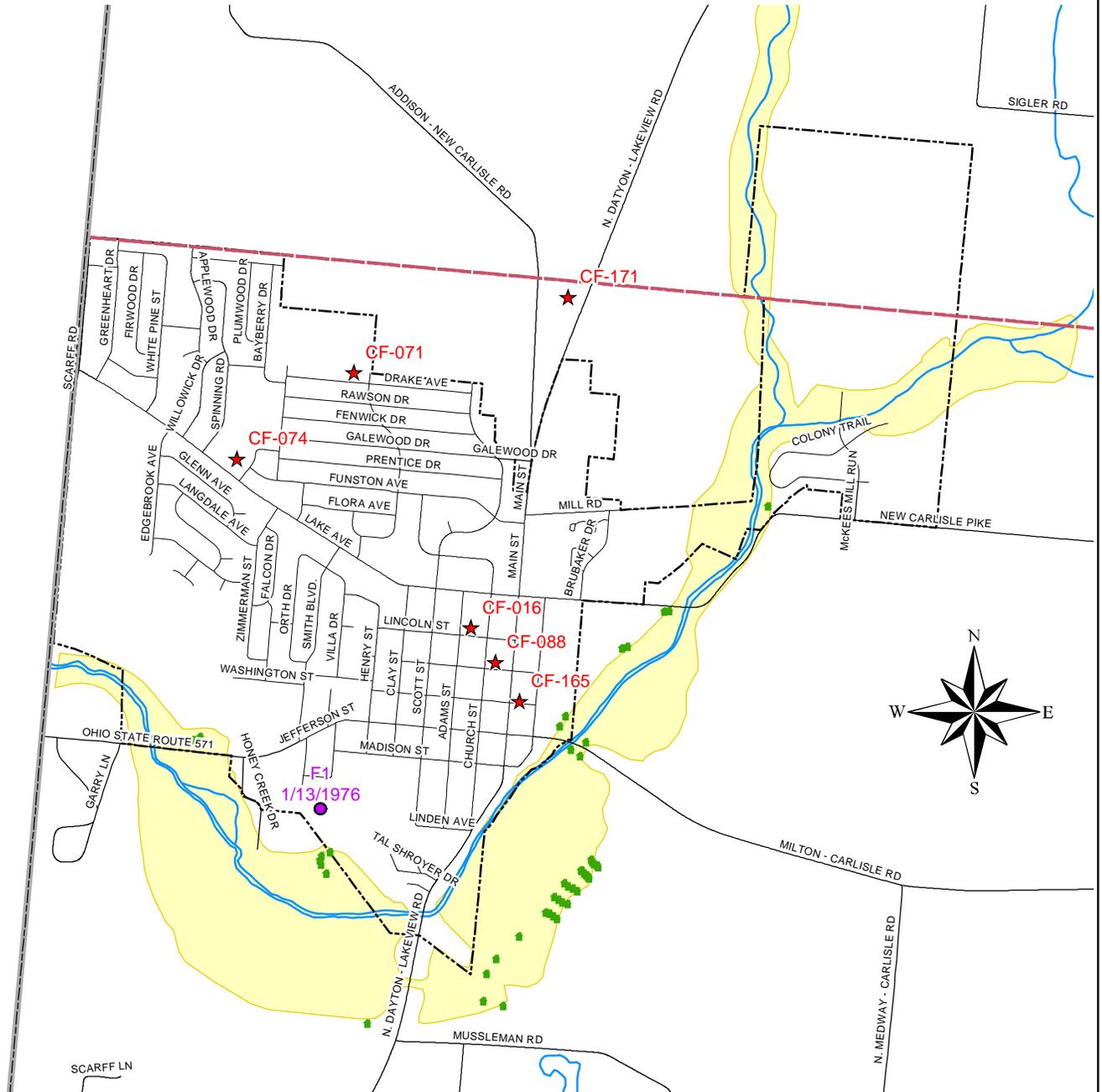
Date: February 14, 2005

Job No. 2004-1606

Scale: 1" = 2,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the City of New Carlisle: 6

Map intended for reference only



Legend

- | | | | |
|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | ▭ Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | ▭ Floodway |
| ➔ Tornado Paths | | — Roads - County | ▭ Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



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CLARK COUNTY, OHIO MULTI-HAZARD MAP OF NORTH HAMPTON, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK08

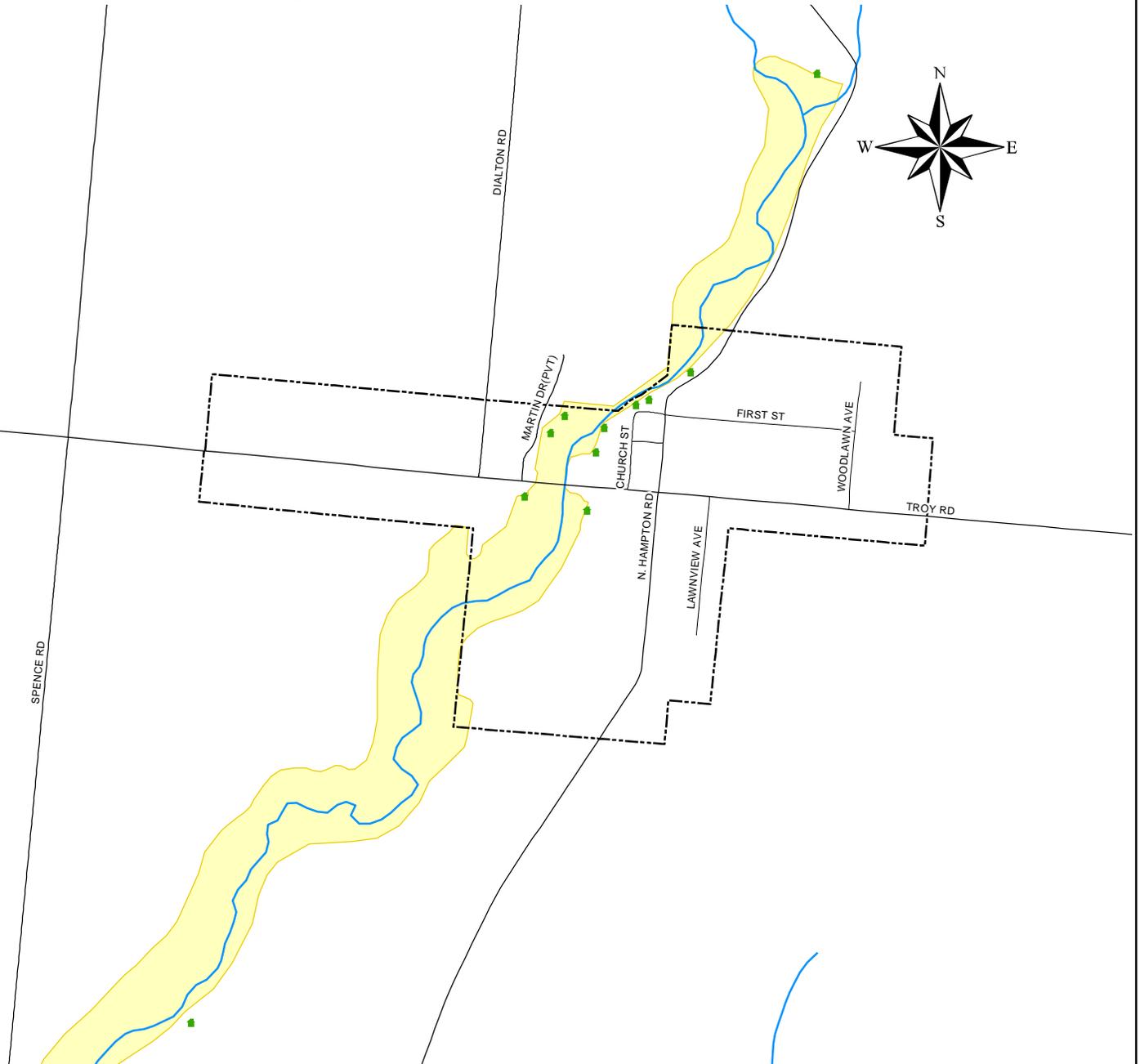
Date: February 14, 2005

Job No. 2004-1606

Scale: 1" = 1,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of North Hampton: 9

Map intended for reference only



Legend

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|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | ▭ Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | ▭ Floodway |
| ➔ Tornado Paths | | — Roads - County | ▭ Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



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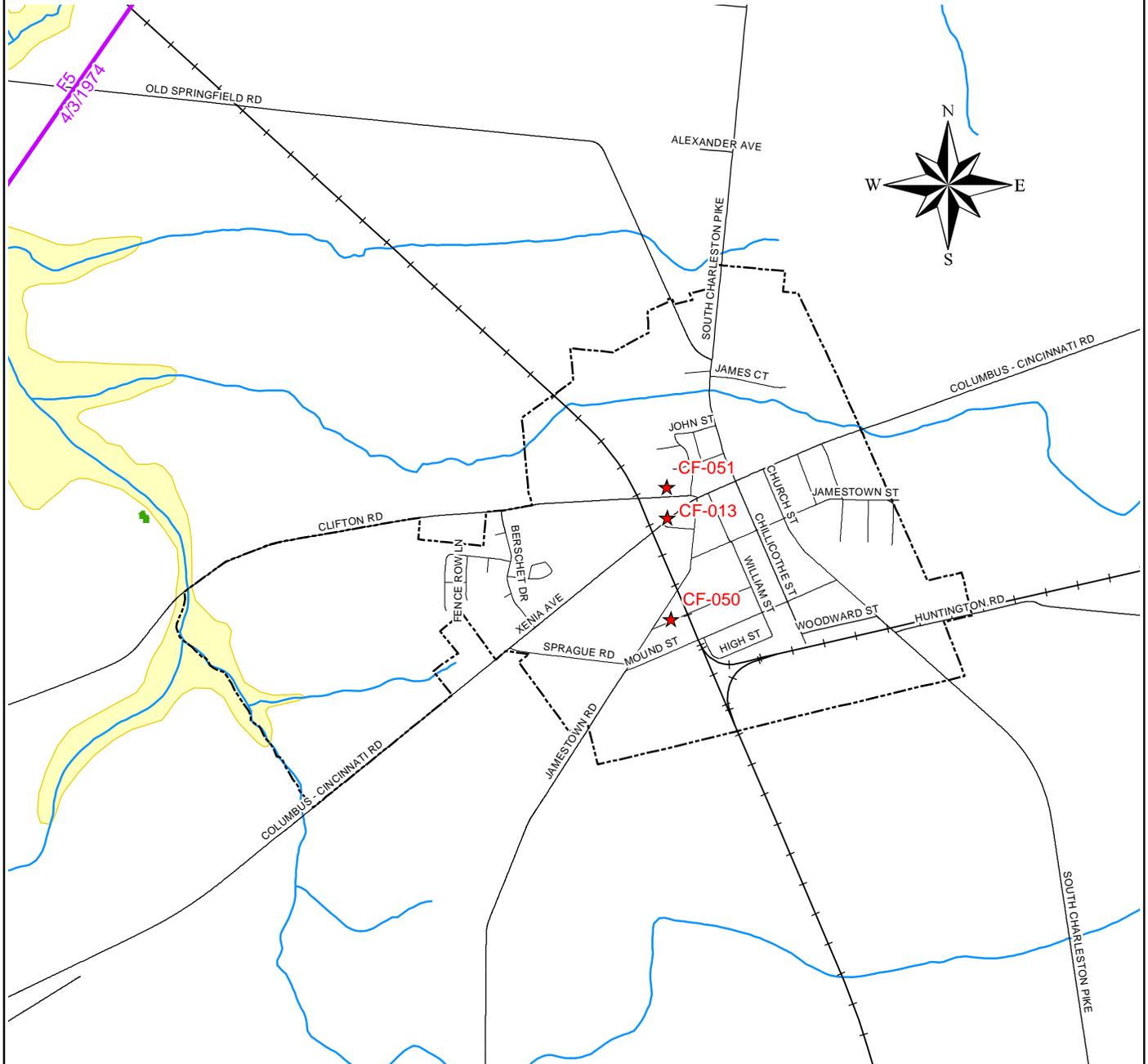
CLARK COUNTY, OHIO MULTI-HAZARD MAP OF SOUTH CHARLESTON, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK09

Date: February 14, 2005 | Job No. 2004-1606 | Scale: 1" = 2,000'

Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of South Charleston: 0

Map intended for reference only



Legend

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|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ★ At-Risk Structures | ▭ Township Lines | — U.S. Route | — Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | — Floodway |
| ➤ Tornado Paths | | — Roads - County | — Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



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

CLARK COUNTY, OHIO MULTI-HAZARD MAP OF SOUTH VIENNA, OHIO

CLARK COUNTY - COUNTYWIDE ALL
 NATURAL HAZARDS MITIGATION PLAN
 MULTI-HAZARD MAP: CLARK10

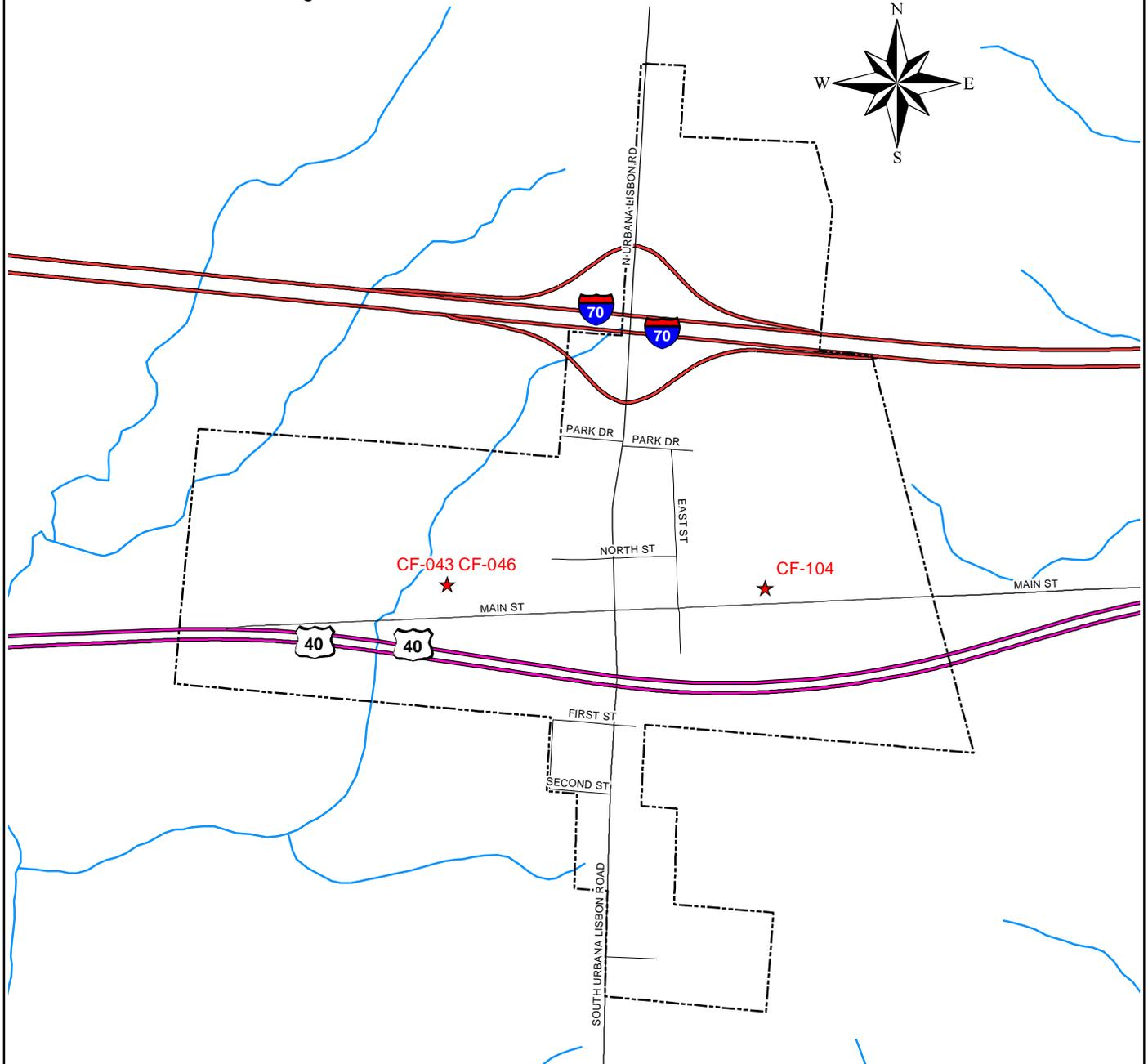
Date: February 14, 2005

Job No. 2004-1606

Scale: 1" = 1,000'

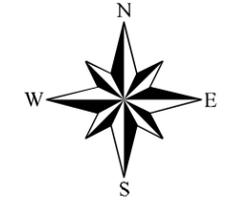
Critical Facility locations based on geocoded coordinates.
 At-Risk structures for the Village of South Vienna: 0

Map intended for reference only



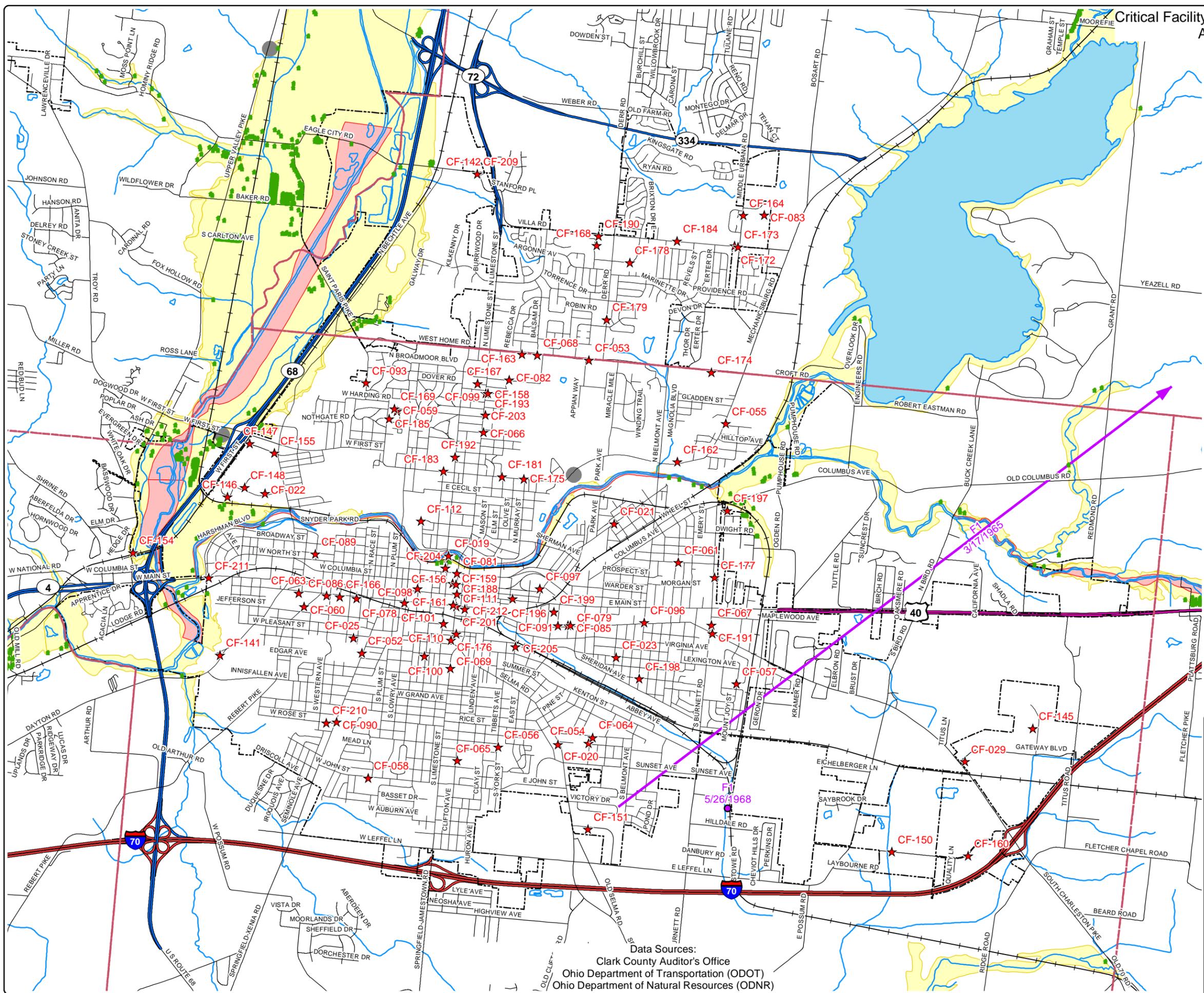
Legend

- | | | | |
|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | ■ Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | ■ Floodway |
| ➤ Tornado Paths | | — Roads - County | ■ Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |



Legend

- ★ Critical Facilities
- At-Risk Structures
- ➔ Tornado Paths
- Repetitive Loss Areas
- ▭ County Line
- ▭ Township Lines
- ▭ Municipalities
- Interstate Route
- U.S. Route
- State Route
- Roads - County
- Roads - Munciple
- Railroads
- Waterways
- Lakes
- Floodway
- Floodplain - 100 year



Map intended for reference only

EMHT INC.
ENGINEERS, SURVEYORS, PLANNERS, SCIENTISTS
EVANS, MECHWART, HAMBLETON, & TILTON, INC.
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TEL: 614-471-5150 FAX: 614-471-9286

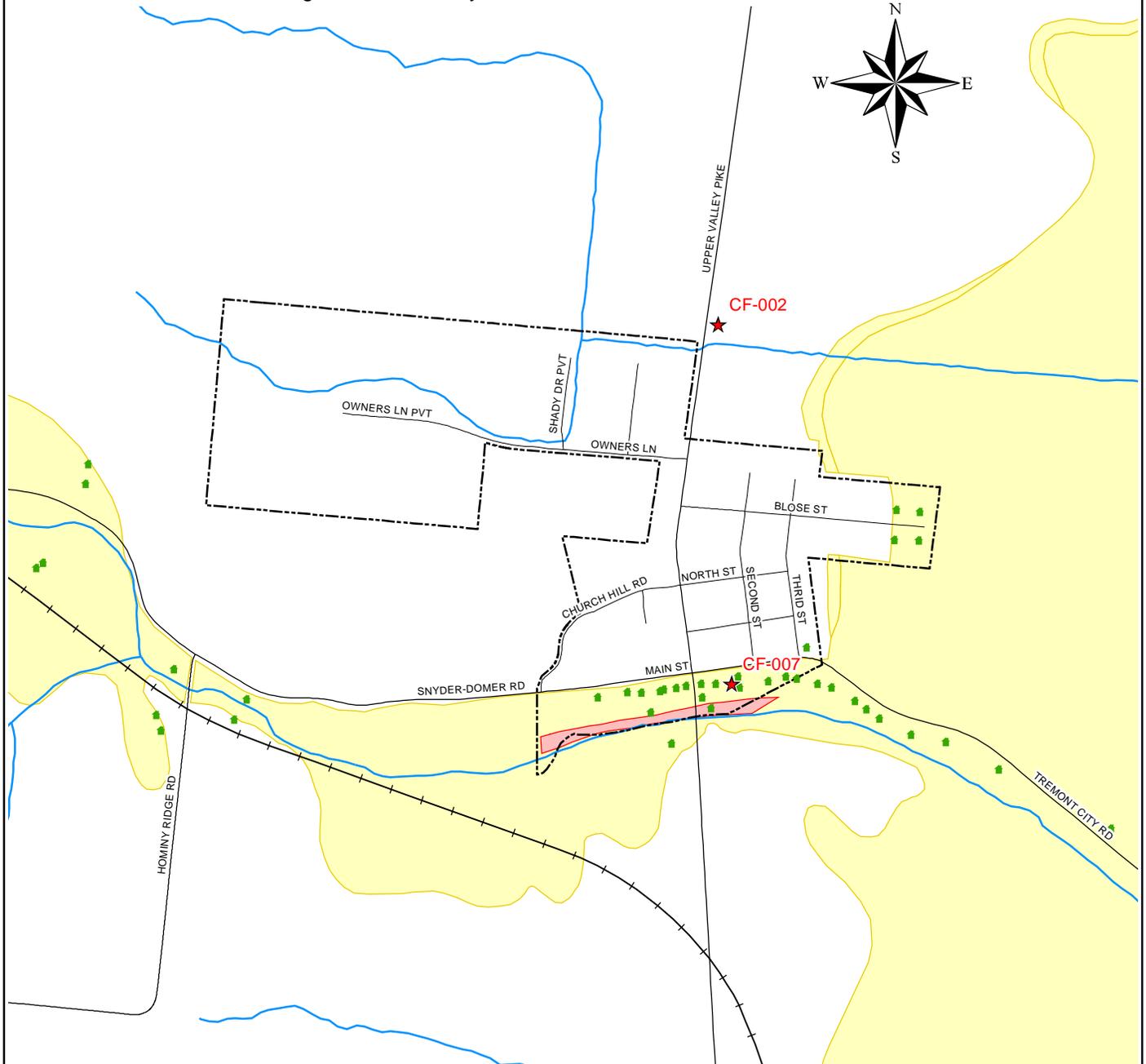
CLARK COUNTY, OHIO
**MULTI-HAZARD MAP OF
SPRINGFIELD, OHIO**
CLARK COUNTY - COUNTYWIDE ALL
NATURAL HAZARDS MITIGATION PLAN
MULTI-HAZARD MAP: CLARK11

Job No. 2004-1606
Date: February 14, 2005
Scale: 1" = 4,000'

Data Sources:
Clark County Auditor's Office
Ohio Department of Transportation (ODOT)
Ohio Department of Natural Resources (ODNR)

Critical Facility locations based on geocoded coordinates.
At-Risk structures for the Village of Tremont City: 21

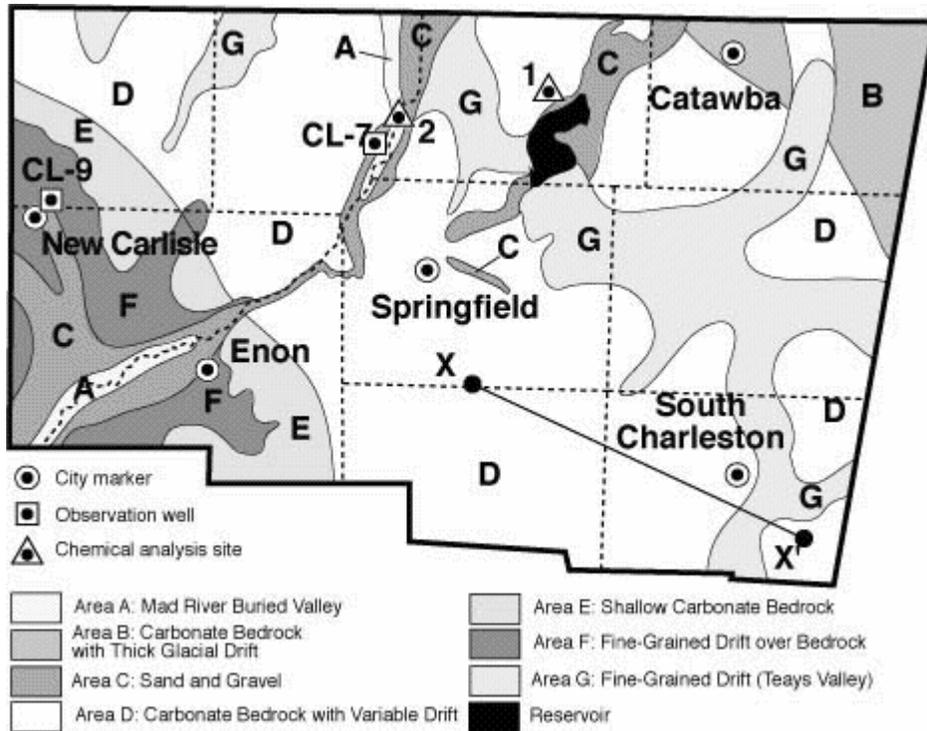
Map intended for reference only



Legend

- | | | | |
|-------------------------|------------------|----------------------|-------------------------|
| ★ Critical Facilities | ▭ County Line | — Interstate Route | — Waterways |
| ■ At-Risk Structures | ▭ Township Lines | — U.S. Route | — Lakes |
| ● Repetitive Loss Areas | ▭ Municipalities | — State Route | — Floodway |
| ➤ Tornado Paths | | — Roads - County | — Floodplain - 100 year |
| | | — Roads - Municipale | |
| | | — Railroads | |

Appendix F:
Groundwater Resources



**Appendix G:
Significant Events**

SIGNIFICANT EVENTS

Summer Storms

A total of 117 thunderstorm and high wind events were recorded in Clark County between 1950 and 2004, according to the NCDC. Seventy-one of these events caused monetary damage that totaled \$2.2 million. One event in 2002 was responsible for \$971,000 of that total.

November 1994

On November 1, 1994, wind gusts over 60 mph were reported across northwest Ohio as a low pressure center passed through the northern Great Lakes. The highest measured wind gust was 63 mph at Columbus Grove in Putnam County. Most of the damage incurred was to trees, limbs and power lines. A roof was reported blown from a trailer in Butler County. In addition, a motorist was injured in Port Clinton, Ottawa County, when her vehicle was blown from the road. Property damage losses totaled \$500,000 and one injury was reported.

December 2000

On December 11, 2000, a strong low pressure system dragged a sharp cold front across the region, resulting in dropping temperatures. Very strong winds occurred along and behind the front with numerous locations receiving gusts over 58 mph. The highest recorded gust was 69 mph in Ostrander in Delaware County. Numerous trees, large limbs and power lines were toppled across the region. One woman was killed in Clermont County when a tree fell through her mobile home. Property damage losses totaled \$100,000.

March 2002

On March 9, 2002, a widespread area of high winds blew down trees, power poles and various other smaller structures and signs throughout a number of counties, including Clark County. Approximately 100,000 people were without power. One man was killed when his semi-tractor overturned. Other people sustained injuries in automobile accidents and when trees fell on the buildings that they were occupying. Two people were briefly trapped in a mobile home when a tree fell on it. The hardest hit area was in Grove City in Franklin County. An 84 mph wind was recorded and several structures at the Grove City High School were damaged or destroyed. Property losses totaled \$971,000 for this event. There were 12 injuries and one death reported.

Lightning

Four lightning events were recorded from 1950 to 2004 on the NCDC's website for Clark County which resulted in three injuries. No monetary damages were recorded. The first lightning event occurred on May 10, 1996 in Springfield when two individuals were struck by a single lightning bolt outside when a thunderstorm rapidly approached. On June 11, 2001 in Springfield, one individual was injured when lightning struck their home. The third event occurred in Springfield on August 30, 2001 when lightning struck a home causing the house to catch on fire. However, no property damages or injuries were reported. The last event occurred on August 4, 2003 in South Vienna when a 41-year-

old man working on a construction project along State Route 54 complained of tingling in his legs after lightning struck a nearby metal guardrail. He was treated for his injuries at a nearby hospital and released.

Hail

Thirty-nine hail events were recorded from 1950 to 2004 on the NCDC's website. One event in New Carlisle caused \$50,000 worth of crop damage and five of these events caused \$12,000 worth of property damage.

Winter Storms

In Clark County, there were 21 recorded snow and ice storm events on the NCDC website from 1950 to 2004. Of these 21 events, nine caused \$16.55 million worth of property damage, five deaths and injured 34 people.

January 1995

From January 6 through January 7, 1995, much of the southwest and Miami Valley regions of Indiana, which included Clark County, received 1/4 to 1/2 of an inch glaze of freezing rain and sleet. A freezing rain, sleet and snow mix occurred towards the end of the event. It was the first major winter storm of the season. Traffic accidents were widespread and brought some roads to a stand-still. Although no direct fatalities occurred, at least four fatalities were the result of traffic accidents. Twenty-six injuries occurred from falls on the ice. Of these injuries, 16 injuries were reported in Hamilton County, four in Butler County, four in Ross County, one in Warren County and one in Montgomery County. Localized power outages resulted from downed trees and wires. Property damage reported for this event totaled \$400,000.

From January 21 through January 22, 1995, southwest, west central, parts of Central and parts of northwest Indiana experienced an extended period of snow accumulation, which totaled three to six inches. Northwest winds caused blowing and drifting snow and made travel on secondary roads difficult and dangerous. Several power outages were reported from downed wires due to wind and snow. A woman was found dead after apparently falling and freezing to death in Lucas County. In Butler County, an elderly woman also was found dead of exposure on her front porch after apparently falling. Six injuries were reported due to falls. Numerous traffic accidents were reported resulting from treacherous road conditions. Property damage incurred totaled \$500,000.

January 1996

From January 6 through January 8, 1996, a massive low pressure system produced the fastest total accumulation of snow at the Greater Cincinnati Northern Kentucky airport. The airport, which normally receives 23 inches for an entire season, measured 14.3 inches of snowfall for this event. The heaviest snow fell near the Ohio River in the extreme south. Whiteouts occurred in west central areas of Ohio. In Fayette County, the airport reported a wind gust to 56 mph during the height of the storm. Many homes and businesses had their roof collapse or partially collapse from the weight of the new snow combined with the snow from a storm earlier in the week. A 47-year-old man died of exposure under an overpass in Miami County. A 76-year-old man died of exposure on

his front porch in Montgomery County. There was \$14.3 million in property damage reported for this event.

Floods

There have been 29 flood events recorded from 1950 to 2004, according to NCDC. Fifteen of these events have caused \$1.23 million worth of property damage and one death.

March 1913

Devastation befell Ohio and Indiana in 1913 when a flood hit that began on March 23rd. It rained for five days straight causing streams and rivers throughout Ohio to rise. By the third day, levees were overtopped and flooding occurred. Tons of mud and debris covered streets, homes and businesses throughout the state. In



The Enon Road bridge during the 1913 Dayton Flood.

A photograph from the 1913 Flood showing the conditions on the Enon Road Bridge

Ohio, it was of such magnitude that it rendered no less than 175,000 people homeless and damage estimated at \$300,000. This total would be the equivalent of \$5,456,746 today. Death tolls reported in Ohio reached 437 and in Indiana reached 496.

August 1995

On August 8, 1995, thunderstorm rains of one to four inches within eight hours fell on saturated ground and caused flooding of numerous roads, streams and some basements. In Clark County and west of Springfield, 30 to 50 people were evacuated from the Forest Lake Campground due to streams overflowing their banks. Roads remained closed into the late morning hours of August 9. There was \$100,000 in property damage reported for this event.

June 1996

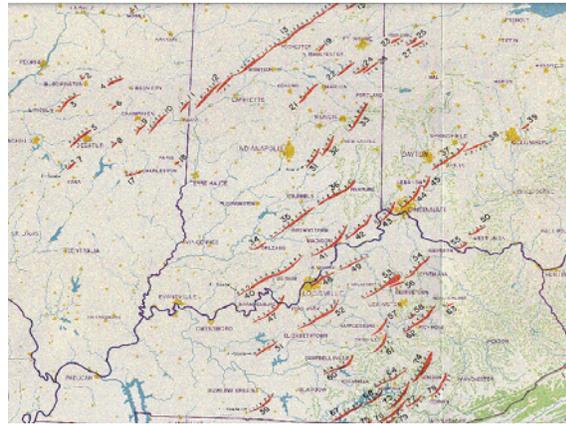
A closed upper low pressure system remained across the Ohio Valley from May 31 until June 2, 1996, and dropped very heavy rainfall across central and southern Ohio. This heavy rainfall caused several rivers to overflow, including the Little Miami and Great Miami Rivers. In Warren County, the Little Miami River crested at 20 feet in Kings Mills. In Hamilton County, the Great Miami River crested at 20.25 feet in Miamitown. In Clark County, the Mad River at Springfield reached a crest of 12 feet around 9:00 pm on June 1.

Tornadoes

Clark County has had 13 tornadoes from 1950 to 2004, according to the NCDC. These tornadoes caused \$3.18 million worth of property damage and injured 11 people. The tornado of April 1974 caused \$2.75 million in Clark County. The tornado was 11 miles in length and 533 yards in width. It was categorized as an F5 tornado on the Fujita Scale.

April 1974

The April 1974 Clark County tornado was part of the worst tornado outbreak recorded in U.S. history. One hundred and forty-eight twisters touched down in 13 states from April 3 through April 4, 1974. These outbreaks occurred over a 16 hour time period causing 330 deaths and 5,484 injuries in a damage path covering more than 2,500 miles. In Ohio, tornadoes that struck caused 41 deaths and 2,000 injuries, and damaged about 7,000 homes. Most of the tornado activity occurred between 4:30 and 6:30 p.m. The hardest hit area was the City of Xenia in Greene County, where 40 deaths and more than 1,100 injuries were reported, and more than 1,000 homes destroyed. This storm lifted near Plattsburg in Clark County, but subsequent tornado touchdowns occurred in its projected path through sections of Clark, Madison and Franklin Counties.



Tornado paths from the 1974 tornado outbreaks.

Droughts

According to the NCDC, drought conditions existed in Clark County in 1999 in July and August. No monetary or crop damage, deaths or injuries were recorded.

August 1999

From August 1 through August 31, 1999, drought conditions continued across the Ohio Valley, with most areas receiving well below normal rainfall for the month. In some areas, approximately 50% of crops were considered total losses. Most counties in southwest Ohio were declared Federal Disaster Areas by the USDA.

Earthquakes

Clark County has had two recorded epicenters within its boundaries. The first quake recorded registered between 3.0 and 3.9 on the Richter scale and occurred in 1925 and the second registered between 2.0 and 2.9 on the Richter scale and occurred in 1980. They were considered of non-instrumental magnitude and no property damages, injuries or deaths were reported.

**Appendix H:
Critical Facilities List**

CFID	CF Designation	Facility	ADDRESS	CITY	ST
CF-001	Airport	Springfield-Beckley Municipal Airport	1251 West Blee Rd	Springfield	OH
CF-002	Airport	Mad River Airport	6488 Upper Valley Pike	Springfield	OH
CF-004	Police/Fire/EMS	Bethel Township Fire & Ems--Station #51	11100 Gerlaugh Rd	Medway	OH
CF-005	Police/Fire/EMS	Bethel Twp Fire & Ems--Station #54	170 E Main St	Donnelsville	OH
CF-006	Police/Fire/EMS	Catawba Fire Dept	3 W Pleasant St	Catawba	OH
CF-007	Police/Fire/EMS	German Twp Fire & Ems--Station #57	57 E Main St	Tremont City	OH
CF-008	Police/Fire/EMS	German Twp Fire & Ems--Station #78	3940 Lawrenceville Dr.	Springfield	OH
CF-009	Police/Fire/EMS	Pitchin Fire Dept	5467 Selma Pike	Springfield	OH
CF-010	Police/Fire/EMS	Harmony Twp Fire & Ems Dept	11000 East National Rd.	South Vienna	OH
CF-011	Police/Fire/EMS	Hustead Ems Dept	6500 Springfield-Xenia Rd	Springfield	OH
CF-012	Police/Fire/EMS	Hustead Fire Dept	6109 Springfield-Xenia Rd	Springfield	OH
CF-013	Police/Fire/EMS	Madison Twp Fire & Ems	222 W Columbus St	South Charleston	OH
CF-014	Police/Fire/EMS	Mad River Twp Fire & Ems Dept	260 E Main St	Enon	OH
CF-015	Police/Fire/EMS	Moorefield Twp Fire & Ems Dept	1616 Moorefield Rd	Springfield	OH
CF-016	Police/Fire/EMS	New Carlisle City Fire & Ems Division	315 N Church St	New Carlisle	OH
CF-017	Police/Fire/EMS	Pike Twp Fire & Ems Dept	8440 Troy Rd	North Hampton	OH
CF-018	Police/Fire/EMS	Pleasant Twp Fire & Ems Dept	10 W Pleasant St	Catawba	OH
CF-019	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 1	350 N Fountain Ave	Springfield	OH
CF-020	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 3	1401 Selma Ave	Springfield	OH
CF-021	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 4	1565 Lagonda Ave	Springfield	OH
CF-022	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 5	1707 Commerce Rd	Springfield	OH
CF-023	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 6	422 Ludlow Ave	Springfield	OH
CF-024	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 7	437 W Home Rd	Springfield	OH
CF-025	Police/Fire/EMS	Springfield City Fire & Rescue Division - Fs 8	735 W Pleasant St	Springfield	OH
CF-026	Police/Fire/EMS	Springfield Twp Ems Dept	2844 S Yellow Springs St	Springfield	OH
CF-027	Police/Fire/EMS	Springfield Twp #2 Fire & Ems Dept-Garden Acres	3600 E National Rd	Springfield	OH
CF-028	Police/Fire/EMS	Springfield Twp #3 Fire & Ems Dept-Rockway Station	3650 W National Rd	Springfield	OH
CF-029	Police/Fire/EMS	Dept Of Highway Safety Division Of Highway Patrol	4201 Gateway Blvd	Springfield	OH
CF-030	Police/Fire/EMS	Clark County Haz-Mat Team	350 N Fountain Ave	Springfield	OH
CF-031	Schools/Churches	Clark County Educational Service Center	1211 Old Mill Rd	Springfield	OH
CF-032	Schools/Churches	Shawnee High School	1675 E Possum Rd	Springfield	OH
CF-033	Schools/Churches	Possum School	2589 Yellow Springs St	Springfield	OH
CF-034	Schools/Churches	Reid School	3640 E High St	Springfield	OH
CF-035	Schools/Churches	Kindergarten Village	3835 Old Clifton Rd	Springfield	OH
CF-036	Schools/Churches	Rockway School	3500 W National Rd	Springfield	OH
CF-037	Schools/Churches	Greenon High School	3950 S Tecumseh Rd	Springfield	OH
CF-038	Schools/Churches	Enon Elementary School	120 S Xenia St	Enon	OH
CF-039	Schools/Churches	Hustead Elementary School	3600 Hustead Rd	Springfield	OH
CF-040	Schools/Churches	Indian Valley Middle School	510 Enon-Xenia Rd	Enon	OH
CF-041	Schools/Churches	Northeastern High School	1480 Bowman Rd	Springfield	OH
CF-042	Schools/Churches	Kenton Ridge High School	4444 Middle Urbana Rd	Springfield	OH
CF-043	Schools/Churches	South Vienna Elementary & Middle School	140 W Main St	South Vienna	OH

CF-044	Schools/Churches	Northridge Elementary & Middle School	4445 Ridgewood Rd E	Springfield	OH
CF-045	Schools/Churches	Rolling Hills Elementary	2613 Moorefield Rd	Springfield	OH
CF-046	Schools/Churches	South Vienna Elementary	140 W Main St	South Vienna	OH
CF-047	Schools/Churches	Northwestern High School	5650 Troy Rd.	Springfield	OH
CF-048	Schools/Churches	Northwestern Middle School	5610 Troy Rd.	Springfield	OH
CF-049	Schools/Churches	Northwestern Elementary School	5780 Troy Rd.	Springfield	OH
CF-050	Schools/Churches	Southeastern High School	195 E Jamestown St	South Charleston	OH
CF-051	Schools/Churches	Miami View Elementary & Middle School	230 Clifton Rd.	South Charleston	OH
CF-052	Schools/Churches	Fulton Elementary	631 S Yellow Springs St	Springfield	OH
CF-053	Schools/Churches	Kenton Elementary	1221 E Home Rd	Springfield	OH
CF-054	Schools/Churches	Kenwood Elementary	1421 Nagley St	Springfield	OH
CF-055	Schools/Churches	Lagonda Elementary	2725 Lagonda Ave	Springfield	OH
CF-056	Schools/Churches	Lincoln Elementary	1500 Tibbetts Ave	Springfield	OH
CF-057	Schools/Churches	Mann Elementary	521 Mountjoy St	Springfield	OH
CF-058	Schools/Churches	Perrin Woods Elementary	431 W John St	Springfield	OH
CF-059	Schools/Churches	Snowhill Elementary	531 W Harding Rd	Springfield	OH
CF-060	Schools/Churches	Snyder Park Elementary	251 S Montgomery Ave	Springfield	OH
CF-061	Schools/Churches	Warder Park Elementary	2251 Hillside Ave	Springfield	OH
CF-062	Schools/Churches	Wayne Elementary	2820 Hillside Ave	Springfield	OH
CF-063	Schools/Churches	Clark Middle School	1315 W High St	Springfield	OH
CF-064	Schools/Churches	Franklin Middle School	1525 Kenwood Ave	Springfield	OH
CF-065	Schools/Churches	Hayward Middle School	1700 Clifton Ave	Springfield	OH
CF-066	Schools/Churches	Roosevelt Middle School	1600 N Limestone St	Springfield	OH
CF-067	Schools/Churches	Schaefer Middle School	130 S Burnett Rd	Springfield	OH
CF-068	Schools/Churches	North High School	701 E Home Rd	Springfield	OH
CF-069	Schools/Churches	South High School	700 S Limestone St	Springfield	OH
CF-070	Schools/Churches	Tecumseh High School	9830 W National Rd	New Carlisle	OH
CF-071	Schools/Churches	New Carlisle Middle School	1203 Kennison Dr	New Carlisle	OH
CF-072	Schools/Churches	Olive Branch Middle School	9712 W National Rd	New Carlisle	OH
CF-073	Schools/Churches	Medway Elementary	116 Middle St	Medway	OH
CF-074	Schools/Churches	Westlake Elementary	621 Walsh St	New Carlisle	OH
CF-075	Schools/Churches	Donnelville Elementary	150 E Main St	Donnelville	OH
CF-076	Schools/Churches	Park Layne Elementary	620 Cliffside Dr	New Carlisle	OH
CF-077	Schools/Churches	Mcadams Early Childhood Center	1400 Mcadams Dr	New Carlisle	OH
CF-078	Schools/Churches	Brandle'S Jumping Jack	737 W High St	Springfield	OH
CF-079	Schools/Churches	Catholic Central High School	1200 E High St	Springfield	OH
CF-080	Schools/Churches	Christian Promise Pre-School	3850 Derr Rd	Springfield	OH
CF-081	Schools/Churches	Covenant Nursery School	201 N Limestone St	Springfield	OH
CF-082	Schools/Churches	Creative World Of Childcare	332 Kensington Pl S	Springfield	OH
CF-083	Schools/Churches	Emmanuel Christian Academy	2177 Emmanuel Way	Springfield	OH
CF-084	Schools/Churches	Enon Montessori	8001 Dayton-Springfield Rd	Fairborn	OH
CF-085	Schools/Churches	Fairyland Nursery School	1230 E High St	Springfield	OH
CF-086	Schools/Churches	Holy Trinity Catholic School	1035 W High St	Springfield	OH

CF-087	Schools/Churches	Kindercare Learning Center	4560 Derr Rd	Springfield	OH
CF-088	Schools/Churches	Little Lamb Christian Learning Center	221 N Main St	New Carlisle	OH
CF-089	Schools/Churches	Maiden Lane Church Of God Day Care & Kindergarten	1201 Maiden Lane	Springfield	OH
CF-090	Schools/Churches	Miami Valley Child Development Center	1450 S Yellow Springs St	Springfield	OH
CF-091	Schools/Churches	Nightingale Montessori	1106 E High St	Springfield	OH
CF-092	Schools/Churches	Northside Christian Child Care	3705 Middle-Urbana Rd	Springfield	OH
CF-093	Schools/Churches	Pixie Playground	1801 St Paris Pike	Springfield	OH
CF-094	Schools/Churches	Ridgewood Private School	2420 St Paris Pike	Springfield	OH
CF-095	Schools/Churches	Risen Christ Lutheran Preschool	41 E Possum Rd	Springfield	OH
CF-096	Schools/Churches	First United Church Of Christ	2000 E High St	Springfield	OH
CF-097	Schools/Churches	St Bernard'S	800 Lagonda Ave	Springfield	OH
CF-098	Schools/Churches	St John'S Christian School	27 N Wittenburg Ave	Springfield	OH
CF-099	Schools/Churches	St Theresa'S	1829 N Limestone	Springfield	OH
CF-100	Schools/Churches	Springfield Academy Of Excellence	623 S Center St	Springfield	OH
CF-101	Schools/Churches	Springfield Christian School	311 W High St	Springfield	OH
CF-102	Schools/Churches	Victory Christian School	2691 W Possum Rd	Springfield	OH
CF-103	Schools/Churches	Vineyard Christian Child Care	4650 Ridgewood Rd E	Springfield	OH
CF-104	Schools/Churches	United Church Of South Vienna	227 E Main St	South Vienna	OH
CF-105	Schools/Churches	Plattsburg United Church Of Christ	1715 South Urbana Lisbon Rd	South Charleston	OH
CF-106	Schools/Churches	Springfield Missionary Baptist Church	3501 South Urbana Lisbon Rd	South Charleston	OH
CF-107	Schools/Churches	Brighton United Methodist Church	13122 E National Rd	South Vienna	OH
CF-108	Schools/Churches	Harmony United Methodist Church	5613 Plattsburg Rd	South Charleston	OH
CF-109	Schools/Churches	Clark State Community College - Leffel Lane Campus	570 Leffel Lane	Springfield	OH
CF-110	Schools/Churches	Clark State Community College - Performing Arts Center	300 South Fountain Ave	Springfield	OH
CF-111	Schools/Churches	Clark State Community College - Brickman Educational Center	100 South Limestone	Springfield	OH
CF-112	Schools/Churches	Wittenburg University	200 West Ward St	Springfield	OH
CF-113	Water/WasteWater	Park Layne Sewage Pump Station	11740 Lower Valley Pike	Medway	OH
CF-114	Water/WasteWater	Park Layne Water Tower	871 Edgewick Rd	New Carlisle	OH
CF-115	Water/WasteWater	Park Layne Well Field	886 Weinland St	New Carlisle	OH
CF-116	Water/WasteWater	Laynecrest Sewage Pump Station	11700 Gerlaugh Rd	Medway	OH
CF-117	Water/WasteWater	Park Layne Water Standpipe	12229 Dlle Rd	New Carlisle	OH
CF-118	Water/WasteWater	Northridge Water Pump Station	5171 Urbana Rd	Springfield	OH
CF-119	Water/WasteWater	Raymond Drive Sewage Pump Station	3711 Raymond Dr	Enon	OH
CF-120	Water/WasteWater	Green Meadows Lab	5025 Enon-Xenia Pike Dr	Fairborn	OH
CF-121	Water/WasteWater	Joseph Drive L.S.	6925 Joseph Drive	Medway	OH
CF-122	Water/WasteWater	Mud Run L.S.	5375 Spangler Rd	Medway	OH
CF-123	Water/WasteWater	May Street L.S.	27771 May St	Springfield	OH
CF-124	Water/WasteWater	Cheyenne Ave. L.S.	1025 Cheyenne Ave.	Springfield	OH
CF-125	Water/WasteWater	Elk Street L.S.	717 Elk Ave	Springfield	OH
CF-126	Water/WasteWater	Simon Kenton L.S.	809 Hunt Parkway	Springfield	OH
CF-127	Water/WasteWater	Willoughby L.S.	1955 Willoughby Ave	Springfield	OH
CF-128	Water/WasteWater	West Enon L.S.	7158 Dayton-Springfield Rd	Enon	OH
CF-129	Water/WasteWater	Swwwtp	3990 Woodybury Rd	Medway	OH

CF-130	Water/WasteWater	Park Layne Service	1449 Styer Dr	New Carlisle	OH
CF-131	Water/WasteWater	Nr Water Tower	1340 Regent Ave	Springfield	OH
CF-132	Water/WasteWater	Emro Sewage	340 Enon Rd	Enon	OH
CF-133	Water/WasteWater	Willow Chase/Northridge Service Bldg.	3875 Middle Urbana Rd	Springfield	OH
CF-134	Water/WasteWater	Ktk / Sewage Plant	5171 Urbana Rd	Springfield	OH
CF-135	Water/WasteWater	Crystal Lakes Sewage Pump Station	5 Elm Rd	Medway	OH
CF-136	Water/WasteWater	Stratmore Sewage Pump Station	331 Stratmore St	New Carlisle	OH
CF-137	Water/WasteWater	Garden Acres Sewage Pump Station	130 Oakmere St	Springfield	OH
CF-138	Water/WasteWater	Victory Express Sewage Pump Station	12250 Lower Valley Pike	Medway	OH
CF-139	Water/WasteWater	Medway Sewage Pump Station	214 Sycamore St	Medway	OH
CF-140	Water/WasteWater	Hauck Meadow Sewage Pump Stations	150 Cardinal Dr	Enon	OH
CF-141	Water/WasteWater	Wwtp - Springfield	965 Dayton Ave	Springfield	OH
CF-142	Water/WasteWater	Wtp - Springfield	201 Eagle City Rd	Springfield	OH
CF-143	Water/WasteWater	Airparkohio Lift Station	1701 Blee Rd	Springfield	OH
CF-144	Water/WasteWater	Airparkohio Treatment Plant	1251 Blee Rd	Springfield	OH
CF-145	Water/WasteWater	Lift Station	710 Benjamin St	Springfield	OH
CF-146	Water/WasteWater	Commerce Circle Lift Station	1962 Commerce Circle	Springfield	OH
CF-147	Water/WasteWater	Erie Lift Station	1860 First St	Springfield	OH
CF-148	Water/WasteWater	Hometown Lift Station	1006 Hometown Rd	Springfield	OH
CF-149	Water/WasteWater	Mad River Lift Station	1098 Upper Valley Pike	Springfield	OH
CF-150	Water/WasteWater	Primeohio Lift Station	3800 Laybourne Rd	Springfield	OH
CF-151	Water/WasteWater	Progress Drive Lift Station	1633 Progress Dr	Springfield	OH
CF-152	Water/WasteWater	Route 41 Lift Station	2238 W First St	Springfield	OH
CF-153	Water/WasteWater	Skinner Lane Lift Station	1906 W First St	Springfield	OH
CF-154	Water/WasteWater	Sugar Grove Lift Station	210 Upper Valley Pike	Springfield	OH
CF-155	Government	Dot Division Of Highway Maintenance	1630 W First St	Springfield	OH
CF-156	Government	Clark County Commissioners Office	50 E Columbus St	Springfield	OH
CF-157	Government	Clark County Ema Office	4735 Ridgewood Rd E	Springfield	OH
CF-158	Government	Clark County American Red Cross	1830 N Limestone St	Springfield	OH
CF-159	Government	Clark County Court System	101 N. Limestone St	Springfield	OH
CF-160	Government	Clark County Engineer'S Office	4075 Laybourne Rd	Springfield	OH
CF-161	Government	City Of Springfield City Hall	76 E High St	Springfield	OH
CF-162	Government	City Of Springfield City Service Center	2100 Lagonda Ave	Springfield	OH
CF-163	Government	Clark County Health Dept	529 E Home Rd	Springfield	OH
CF-164	Extended Care Facility	Alterra Sterling House Of Springfield	3270 Middle Urbana Rd	Springfield	OH
CF-165	Extended Care Facility	Belle Manor	107 N Pike St	New Carlisle	OH
CF-166	Extended Care Facility	Castle Knoll, K W Hess Ohio Pythian Home	901 W High St	Springfield	OH
CF-167	Extended Care Facility	Clark Memorial Home	106 Kewbury Rd	Springfield	OH
CF-168	Extended Care Facility	Community'S Hearth & Home	3185 El Camino Dr	Springfield	OH
CF-169	Extended Care Facility	Community'S Hearth & Home	550 W Harding Rd	Springfield	OH
CF-170	Extended Care Facility	Dayspring Health Care Center	8001 Dayton Rd	Fairborn	OH
CF-171	Extended Care Facility	Dayview Care Center	1885 N Dayton Lakeview Rd	New Carlisle	OH
CF-172	Extended Care Facility	Eaglewood Care Center	2000 Villa Rd	Springfield	OH

CF-173	Extended Care Facility	Eaglewood Village	3001 Middle Urbana Rd	Springfield	OH
CF-174	Extended Care Facility	Essex Of Springfield	2317 E Home Rd	Springfield	OH
CF-175	Extended Care Facility	Fellows Terrace Apartments	700 E Mccreight	Springfield	OH
CF-176	Extended Care Facility	Gateway Gardens	501 S Limestone	Springfield	OH
CF-177	Extended Care Facility	Good Shepherd Village	422 N Burnett Rd	Springfield	OH
CF-178	Extended Care Facility	Grand Court Of Springfield	2981 Vester Ave	Springfield	OH
CF-179	Extended Care Facility	Heartland Of Springfield	2615 Derr Rd	Springfield	OH
CF-180	Extended Care Facility	The Inn At Fox Run	7800 Dayton-Springfield Rd	Fairborn	OH
CF-181	Extended Care Facility	loof Home Of Ohio	404 E Mccreight Ave	Springfield	OH
CF-182	Extended Care Facility	(The Ohio) Masonic Home	2655 W National Rd	Springfield	OH
CF-183	Extended Care Facility	Mercy St John'S Center	100 W Mccreight Ave	Springfield	OH
CF-184	Extended Care Facility	Oakwood Health Center/Oakwood Village	1500 Villa Rd	Springfield	OH
CF-185	Extended Care Facility	Ridgewood Nursing & Rehabilitation Center	1600 St Paris Rd	Springfield	OH
CF-186	Extended Care Facility	Seminole Villa Care Center	1365 Seminole Ave	Springfield	OH
CF-187	Extended Care Facility	Sharonview Nursing Home	125 E National Rd	South Viennna	OH
CF-188	Extended Care Facility	Shawnee Place Apartments	102 E Main St	Springfield	OH
CF-189	Extended Care Facility	Southbrook Care Center	1365 1/2 Seminole Ave	Springfield	OH
CF-190	Extended Care Facility	Villa Springfield	701 Villa Rd	Springfield	OH
CF-191	Hospital	Community Hospital	2615 E High St	Springfield	OH
CF-192	Hospital	Mercy Medical Center	N Fountain Blvd	Springfield	OH
CF-193	Red Cross	Clark County Chapter American Red Cross	1830 N Limestone St	Springfield	OH
CF-194	Utilities	Ohio Edison Substation - Broadview	1490 Willow Rd	Springfield	OH
CF-195	Utilities	Ohio Edison Substation - Clark	2645 W National Rd	Springfield	OH
CF-196	Utilities	Ohio Edison Substation - Eastside	632 E Main St	Springfield	OH
CF-197	Utilities	Ohio Edison Substation - East Springfield	1016 Alta Rd	Springfield	OH
CF-198	Utilities	Ohio Edison Substation - Elmwood	2005 Van Buren	Springfield	OH
CF-199	Utilities	Ohio Edison Substation - Freeman	1051 Mckinley Ave	Springfield	OH
CF-200	Utilities	Ohio Edison Substation - Leffels Lane	735 E Leffels Lane	Springfield	OH
CF-201	Utilities	Ohio Edison Substation - Limestone	133 Monroe St	Springfield	OH
CF-202	Utilities	Ohio Edison Substation - Mad River	2341 W National Rd	Springfield	OH
CF-203	Utilities	Ohio Edison Substation - Ridgewood	1708 N Limestone St	Springfield	OH
CF-204	Utilities	Ohio Edison Substation - Rockaway	259 N Fountain Ave	Springfield	OH
CF-205	Utilities	Ohio Edison Substation - Springfield Microwave	420 S York St	Springfield	OH
CF-206	Utilities	Ohio Edison Substation - Titus	1243 Titus Rd	Springfield	OH
CF-207	Utilities	Ohio Edison Substation - Valley	2310 Valley Loop Rd	Springfield	OH
CF-208	Utilities	Ohio Edison Substation - Villa	3039 Derr Rd	Springfield	OH
CF-209	Utilities	Ohio Edison Substation - Waterworks	201 Eagle City Rd	Springfield	OH
CF-210	Utilities	Ohio Edison Substation - Western	902 W Rose St	Springfield	OH
CF-211	Utilities	Columbi A Gas Tranmissions & Columbia Gas Of Ohio	2101 W Main St	Springfield	OH
CF-212	Utilities	Ameritech Central Office	121 S Spring St	Springfield	OH
CF-213	Utilities	Ameritech Central Office	4332 Derr Rd	Springfield	OH

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

SNOW AND ICE

Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 Multiple Counties	03/09/1994	0400	Heavy Snow	N/A	0	0	500K	0
2 Multiple Counties	01/06/1995	0800	Ice Storm	N/A	0	26	400K	0
3 Multiple Counties	01/21/1995	0100	Snow	N/A	2	6	500K	0
4 Multiple Counties	12/13/1995	0400	Freezing Rain	N/A	0	2	25K	0
5 Multiple Counties	12/19/1995	0200	Heavy Snow	N/A	0	0	100K	0
6 Multiple Counties	01/02/1996	02:00 PM	Winter Storm	N/A	0	0	750K	0
7 Multiple Counties	01/06/1996	03:00 PM	Winter Storm	N/A	2	0	14.3M	0
8 Multiple Counties	01/11/1996	03:00 PM	Heavy Snow	N/A	0	0	26K	0
9 Multiple Counties	03/06/1996	01:00 AM	Ice Storm	N/A	0	0	0	0
10 Multiple Counties	03/19/1996	04:00 PM	Winter Storm	N/A	1	0	0	0
11 Multiple Counties	01/24/1997	07:00 AM	Ice Storm	N/A	0	0	0	0
12 Multiple Counties	01/01/1999	10:00 PM	Winter Storm	N/A	0	0	0	0
13 Multiple Counties	01/07/1999	10:00 PM	Winter Storm	N/A	0	0	0	0
14 Multiple Counties	01/13/1999	03:00 AM	Winter Storm	N/A	0	0	0	0
15 Multiple Counties	03/09/1999	12:00 AM	Heavy Snow	N/A	0	0	0	0
16 Multiple Counties	01/19/2000	08:00 PM	Heavy Snow	N/A	0	0	0	0
17 Multiple Counties	12/13/2000	06:00 PM	Ice Storm	N/A	0	0	0	0
18 Multiple Counties	03/26/2002	01:15 AM	Winter Storm	N/A	0	0	0	0
19 Multiple Counties	02/15/2003	01:25 AM	Winter Storm	N/A	0	0	0	0
20 Multiple Counties	01/25/2004	05:00 PM	Winter Storm	N/A	0	0	0	0
21 Multiple Counties	03/16/2004	03:30 AM	Winter Storm	N/A	0	0	0	0
TOTALS:					5	34	16.551M	0

THUNDERSTORM AND HIGH WINDS

Location or County	Date	Time	Type	Mag	D th	Inj	PrD	CrD
1 Countywide	04/03/1964	0030	Tstm Wind	0 kts.	0	0	0	0
2 Countywide	06/22/1965	1245	Tstm Wind	0 kts.	0	0	0	0
3 Countywide	06/22/1965	1335	Tstm Wind	0 kts.	0	0	0	0
4 Countywide	07/09/1965	1230	Tstm Wind	0 kts.	0	0	0	0
5 Countywide	06/26/1968	1733	Tstm Wind	65 kts.	0	0	0	0
6 Countywide	05/10/1969	1535	Tstm Wind	0 kts.	0	0	0	0
7 Countywide	08/09/1969	1700	Tstm Wind	0 kts.	0	0	0	0
8 Countywide	06/25/1971	1730	Tstm Wind	0 kts.	0	0	0	0
9 Countywide	03/05/1976	0415	Tstm Wind	0 kts.	0	0	0	0
10 Countywide	03/26/1976	1648	Tstm Wind	54 kts.	0	0	0	0
11 Countywide	07/05/1980	0700	Tstm Wind	0 kts.	0	0	0	0
12 Countywide	07/09/1980	1143	Tstm Wind	0 kts.	0	0	0	0
13 Countywide	08/11/1980	1723	Tstm Wind	0 kts.	0	0	0	0
14 Countywide	04/28/1981	1740	Tstm Wind	0 kts.	0	0	0	0
15 Countywide	06/13/1981	2000	Tstm Wind	0 kts.	0	0	0	0
16 Countywide	04/03/1982	0245	Tstm Wind	0 kts.	0	0	0	0
17 Countywide	05/27/1982	1345	Tstm Wind	0 kts.	0	0	0	0
18 Countywide	05/31/1982	1700	Tstm Wind	0 kts.	0	0	0	0
19 Countywide	06/15/1982	1745	Tstm Wind	0 kts.	0	0	0	0
20 Countywide	06/15/1982	1930	Tstm Wind	0 kts.	0	0	0	0
21 Countywide	08/24/1982	1835	Tstm Wind	0 kts.	0	0	0	0
22 Countywide	08/24/1982	1840	Tstm Wind	0 kts.	0	0	0	0
23 Countywide	07/23/1983	2120	Tstm Wind	0 kts.	0	0	0	0
24 Countywide	07/23/1983	2200	Tstm Wind	0 kts.	0	0	0	0
25 Countywide	06/18/1984	1455	Tstm Wind	52 kts.	0	0	0	0
26 Countywide	09/13/1984	2215	Tstm Wind	0 kts.	0	0	0	0

27 Countywide	04/05/1985	1700	Tstm Wind	0 kts.	0	0	0	0
28 Countywide	06/11/1985	1800	Tstm Wind	61 kts.	0	0	0	0
29 Countywide	07/05/1985	1545	Tstm Wind	0 kts.	0	0	0	0
30 Countywide	07/05/1985	1545	Tstm Wind	0 kts.	0	0	0	0
31 Countywide	03/10/1986	1600	Tstm Wind	0 kts.	0	0	0	0
32 Countywide	05/15/1986	1920	Tstm Wind	0 kts.	0	0	0	0
33 Countywide	06/03/1989	1430	Tstm Wind	0 kts.	0	2	0	0
34 Countywide	06/27/1989	1405	Tstm Wind	0 kts.	0	0	0	0
35 Countywide	06/27/1989	1405	Tstm Wind	0 kts.	0	0	0	0
36 Countywide	07/09/1990	1640	Tstm Wind	0 kts.	0	0	0	0
37 Countywide	08/28/1990	1915	Tstm Wind	0 kts.	0	0	0	0
38 Countywide	05/16/1991	1945	Tstm Wind	0 kts.	0	0	0	0
39 Countywide	06/18/1992	1703	Tstm Wind	0 kts.	0	0	0	0
40 Countywide	07/16/1992	1400	Tstm Wind	0 kts.	0	0	0	0
41 S. Charleston	05/28/1993	2150	High Winds	0 kts.	0	0	5K	0
42 Springfield	04/27/1994	0340	Thunderstorm Winds	N/A	0	0	5K	0
43 Enon Beach	08/20/1994	1610	Thunderstorm Winds	N/A	0	1	50K	0
44 Multiple Counties	11/01/1994	2000	High Winds	0 kts.	0	1	500K	0
45 Multiple Counties	11/27/1994	1400	High Winds	0 kts.	0	1	50K	0
46 Countywide	03/09/1995	1540	Thunderstorm Winds	N/A	0	0	0	0
47 Springfield	05/24/1995	1604	Thunderstorm Winds	N/A	0	0	10K	0
48 Countywide	06/21/1995	1630	Thunderstorm Winds	N/A	0	0	10K	0
49 Springfield	06/26/1995	1813	Thunderstorm Winds	N/A	0	0	4K	0
50 New Moorefield	06/26/1995	2000	Thunderstorm Winds	N/A	0	0	4K	0
51 North Part	07/13/1995	2142	Thunderstorm Winds	N/A	0	0	3K	0

52 Countywide	07/13/1995	2207	Thunderstorm Winds	N/A	0	0	8K	0
53 Countywide	07/26/1995	1418	Thunderstorm Winds Hail	N/A	0	0	6	4K
54 Enon	04/29/1996	03:59 PM	Tstm Wind	50 kts.	0	0	2K	0
55 Medway	04/29/1996	04:35 PM	Tstm Wind	60 kts.	0	0	2K	0
56 Countywide	05/10/1996	05:29 PM	Tstm Wind	50 kts.	0	0	5K	0
57 Countywide	06/18/1996	05:25 PM	Tstm Wind	50 kts.	0	0	5K	0
58 Springfield	07/07/1996	08:15 PM	Tstm Wind	50 kts.	0	0	4K	0
59 New Moorefield	07/07/1996	08:50 PM	Tstm Wind	50 kts.	0	0	3K	0
60 New Carlisle	11/07/1996	04:35 PM	Tstm Wind	50 kts.	0	0	5K	0
61 Enon	01/05/1997	12:35 AM	Tstm Wind	60 kts.	0	1	75K	0
62 Multiple Counties	04/06/1997	02:30 PM	High Wind	60 kts.	0	0	19K	0
63 North Hampton	05/18/1997	04:15 PM	Tstm Wind	50 kts.	0	0	5K	0
64 Springfield	07/02/1997	05:00 PM	Tstm Wind	50 kts.	0	0	5K	0
65 New Carlisle	07/27/1997	04:20 PM	Tstm Wind	50 kts.	0	0	3K	0
66 Enon	05/19/1998	08:45 PM	Tstm Wind	50 kts.	0	0	5K	0
67 Tremont City	05/29/1998	06:00 PM	Tstm Wind	50 kts.	0	0	3K	0
68 Springfield	06/12/1998	08:45 PM	Tstm Wind	50 kts.	0	0	5K	0
69 Countywide	06/19/1998	02:15 AM	Tstm Wind	50 kts.	0	0	10K	0
70 Countywide	07/19/1998	08:27 PM	Tstm Wind	60 kts.	0	0	10K	0
71 Countywide	08/25/1998	03:49 PM	Tstm Wind	50 kts.	0	0	5K	0
72 Countywide	11/10/1998	02:30 PM	Tstm Wind	50 kts.	0	0	3K	0
73 Selma	05/06/1999	01:30 PM	Tstm Wind	50 kts.	0	0	5K	0
74 Donnelsville	07/09/1999	07:00 PM	Tstm Wind	50 kts.	0	0	5K	0
75 New Carlisle	07/26/1999	03:15 PM	Tstm Wind	50 kts.	0	0	3K	0
76 Springfield	10/13/1999	02:55 PM	Tstm Wind	50 kts.	0	0	5K	0
77 New Carlisle	04/20/2000	05:25 PM	Tstm Wind	77 kts.	0	0	50K	0
78 Springfield	04/20/2000	05:51 PM	Tstm Wind	50 kts.	0	0	5K	0
79 Springfield	05/10/2000	12:30 AM	Tstm Wind	50 kts.	0	0	3K	0
80 Enon	06/02/2000	01:05 PM	Tstm Wind	50 kts.	0	0	3K	0

81 North Hampton	06/14/2000	03:48 PM	Tstm Wind	50 kts.	0	0	1K	0
82 Springfield	06/14/2000	05:45 PM	Tstm Wind	50 kts.	0	0	2K	0
83 South Charleston	06/16/2000	04:40 PM	Tstm Wind	50 kts.	0	0	2K	0
84 South Charleston	06/16/2000	04:40 PM	Tstm Wind	51 kts.	0	0	2K	0
85 Medway	07/03/2000	04:55 PM	Tstm Wind	60 kts.	0	0	25K	0
86 Springfield	08/09/2000	04:15 PM	Tstm Wind	50 kts.	0	0	5K	0
87 Springfield	08/09/2000	09:35 AM	Tstm Wind	50 kts.	0	0	5K	0
88 Enon	09/20/2000	06:25 PM	Tstm Wind	50 kts.	0	0	5K	0
89 Springfield	11/09/2000	06:15 PM	Tstm Wind	50 kts.	0	0	10K	0
90 Multiple Counties	12/11/2000	09:00 PM	High Wind	58 kts.	1	0	100K	0
91 Springfield	04/09/2001	04:20 PM	Tstm Wind	62 kts.	0	0	0	0
92 New Carlisle	06/11/2001	03:30 PM	Tstm Wind	55 kts.	0	0	5K	0
93 Enon	06/15/2001	05:25 PM	Tstm Wind	55 kts.	0	0	5K	0
94 Springfield	07/01/2001	01:15 PM	Tstm Wind	50 kts.	0	0	3K	0
95 Springfield	08/30/2001	06:00 PM	Tstm Wind	50 kts.	0	0	0	0
96 Springfield	10/24/2001	07:45 PM	Tstm Wind	50 kts.	0	0	5K	0
97 Multiple Counties	03/09/2002	12:43 PM	High Wind	73 kts.	1	12	971K	0
98 Springfield	05/01/2002	10:15 PM	Tstm Wind	50 kts.	0	0	6K	0
99 Springfield	05/02/2002	02:25 AM	Tstm Wind	53 kts.	0	0	6K	0
100 Springfield	05/02/2002	02:37 AM	Tstm Wind	50 kts.	0	0	3K	0
101 Springfield	05/12/2002	10:45 AM	Tstm Wind	50 kts.	0	0	5K	0
102 Springfield	07/29/2002	06:05 PM	Tstm Wind	74 kts.	0	0	0	0
103 South Charleston	04/05/2003	12:05 AM	Tstm Wind	52 kts.	0	0	0	0
104 Multiple Counties	05/11/2003	05:41 AM	High Wind	50 kts.	0	0	0	0
105 Springfield	07/04/2003	07:45 PM	Tstm Wind	50 kts.	0	0	10K	0
106 Springfield	07/06/2003	04:05 PM	Tstm Wind	50 kts.	0	0	2K	0
107 South Charleston	07/06/2003	04:21 PM	Tstm Wind	50 kts.	0	0	3K	0
108 Catawba	07/06/2003	04:40 PM	Tstm Wind	50 kts.	0	0	15K	0
109 Springfield	07/08/2003	03:05 AM	Tstm Wind	55 kts.	0	0	12K	0
110 Springfield	07/08/2003	03:30 PM	Tstm Wind	50 kts.	0	0	4K	0

111 New Carlisle	07/21/2003	07:15 AM	Tstm Wind	50 kts.	0	0	3K	0
112 Springfield	08/27/2003	04:55 AM	Tstm Wind	50 kts.	0	0	6K	0
113 New Carlisle	08/27/2003	11:00 AM	Tstm Wind	55 kts.	0	0	15K	0
114 Springfield	08/27/2003	11:24 AM	Tstm Wind	51 kts.	0	0	0	0
115 Multiple Counties	11/12/2003	06:45 PM	High Wind	50 kts.	0	0	63K	35K
116 Springfield	05/24/2004	12:18 AM	Tstm Wind	50 kts.	0	0	3K	0
117 North Hampton	06/15/2004	03:00 PM	Tstm Wind	50 kts.	0	0	3K	0
TOTALS:					2	18	2.207M	39K

HAIL								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 Countywide	04/03/1974	1545	Hail	1.75 in.	0	0	0	0
2 Countywide	05/11/1980	2015	Hail	2.75 in.	0	0	0	0
3 Countywide	07/09/1980	1143	Hail	1.00 in.	0	0	0	0
4 Countywide	06/08/1982	1450	Hail	1.00 in.	0	0	0	0
5 Countywide	06/15/1982	1740	Hail	0.75 in.	0	0	0	0
6 Countywide	06/15/1982	1745	Hail	1.00 in.	0	0	0	0
7 Countywide	06/15/1982	1930	Hail	1.75 in.	0	0	0	0
8 Countywide	07/20/1990	1443	Hail	0.75 in.	0	0	0	0
9 Countywide	09/29/1990	1530	Hail	1.50 in.	0	0	0	0
10 Northeast Portion	03/24/1994	0115	Hail	0.75 in.	0	0	0	0
11 New Carlisle	06/06/1994	1425	Hail	1.50 in.	0	0	0	50K
12 Shaker Heights	11/01/1994	0415	Hail	1.00 in.	0	0	0	0
13 Springfield	06/14/1996	02:30 PM	Hail	1.00 in.	0	0	0	0
14 New Carlisle	05/18/1997	04:00 PM	Hail	0.88 in.	0	0	0	0
15 South Vienna	05/13/1998	03:30 PM	Hail	1.50 in.	0	0	0	0
16 Springfield	05/19/1998	08:39 PM	Hail	0.75 in.	0	0	0	0
17 Springfield	06/26/1998	03:55 PM	Hail	0.75 in.	0	0	0	0
18 New Carlisle	06/11/1999	01:15 AM	Hail	0.75 in.	0	0	1K	0
19 Springfield	05/31/2000	05:50 PM	Hail	1.75 in.	0	0	0	0

20 South Charleston	05/31/2000	06:30 PM	Hail	0.75 in.	0	0	0	0
21 New Carlisle	07/14/2000	01:15 PM	Hail	1.75 in.	0	0	0	0
22 Springfield	07/28/2000	06:35 PM	Hail	1.00 in.	0	0	0	0
23 South Charleston	04/09/2001	06:28 PM	Hail	0.75 in.	0	0	0	0
24 New Carlisle	04/09/2001	09:50 PM	Hail	2.75 in.	0	0	0	0
25 Springfield	05/15/2001	06:25 PM	Hail	0.88 in.	0	0	0	0
26 Springfield	05/15/2001	06:25 PM	Hail	0.88 in.	0	0	0	0
27 Catawba	05/24/2001	02:15 PM	Hail	0.75 in.	0	0	0	0
28 Springfield	06/19/2001	11:22 PM	Hail	1.00 in.	0	0	0	0
29 Springfield	05/02/2002	02:07 AM	Hail	1.00 in.	0	0	2K	0
30 Springfield	05/02/2002	02:16 AM	Hail	0.75 in.	0	0	2K	0
31 Springfield	05/02/2002	02:30 AM	Hail	0.75 in.	0	0	2K	0
32 Springfield	06/05/2002	01:41 PM	Hail	1.75 in.	0	0	0	0
33 Springfield	11/10/2002	04:30 PM	Hail	0.75 in.	0	0	0	0
34 New Carlisle	11/10/2002	06:20 PM	Hail	1.00 in.	0	0	0	0
35 Springfield	04/20/2003	06:09 PM	Hail	0.75 in.	0	0	0	0
36 Plattsburg	04/20/2003	06:38 PM	Hail	1.75 in.	0	0	0	0
37 Springfield	05/21/2004	05:39 PM	Hail	0.88 in.	0	0	0	0
38 Springfield	05/30/2004	11:20 PM	Hail	1.75 in.	0	0	5K	0
39 Springfield	05/30/2004	11:50 PM	Hail	0.88 in.	0	0	0	0
TOTALS:					0	0	12K	50K

LIGHTNING								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 Springfield	05/10/1996	05:00 PM	Lightning	N/A	0	2	0	0
2 Springfield	06/11/2001	03:30 PM	Lightning	N/A	0	0	0	0
3 Springfield	08/30/2001	06:20 PM	Lightning	N/A	0	0	0	0
4 South Vienna	08/04/2003	12:00 PM	Lightning	N/A	0	1	0	0
TOTALS:					0	3	0	0

FLOODING

Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 Countywide	05/18/1995	0600	Flash Flood	N/A	0	0	7K	0
2 Countywide	05/18/1995	0845	Flash Flood	N/A	0	0	7K	0
3 North Portion	08/08/1995	0930	Flash Flood	N/A	0	0	100K	0
4 Countywide	08/08/1995	1930	Flash Flood	N/A	0	0	5K	0
5 Countywide	04/29/1996	05:30 AM	Flash Flood	N/A	0	0	3K	0
6 Countywide	06/01/1997	01:00 AM	Flood	N/A	0	0	1.0M	0
7 Countywide	06/01/1997	05:00 PM	Flood	N/A	0	0	10K	0
8 South Vienna	06/02/1997	08:00 PM	Flood	N/A	0	0	5K	0
9 Countywide	05/07/1998	08:32 PM	Flood	N/A	1	0	50K	0
10 Springfield	06/16/2000	06:00 PM	Flood	N/A	0	0	1K	0
11 Springfield	06/16/2000	06:00 PM	Flood	N/A	0	0	2K	0
12 Springfield	10/05/2000	07:30 AM	Flood	N/A	0	0	3K	0
13 Springfield	05/16/2001	07:35 AM	Flood	N/A	0	0	0	0
14 New Carlisle	06/11/2001	04:05 PM	Flood	N/A	0	0	5K	0
15 Tremont City	07/29/2001	05:30 AM	Flood	N/A	0	0	0	0
16 Springfield	08/30/2001	06:24 PM	Flood	N/A	0	0	0	0
17 Multiple Counties	06/05/2002	02:55 PM	Flood	N/A	0	0	0	0
18 Multiple Counties	06/13/2002	01:30 PM	Flood	N/A	0	0	0	0
19 Springfield	06/13/2002	10:55 PM	Flash Flood	N/A	0	0	10K	0
20 Multiple Counties	09/27/2002	05:00 AM	Flood	N/A	0	0	25K	0
21 Multiple Counties	11/10/2002	06:00 PM	Flood	N/A	0	0	0	0
22 Multiple Counties	05/10/2003	06:50 AM	Flood	N/A	0	0	0	0
23 Multiple Counties	07/08/2003	03:00 PM	Flood	N/A	0	0	0	0

24 South Charleston	07/08/2003	03:35 PM	Flash Flood	N/A	0	0	0	0
25 Multiple Counties	07/31/2003	03:12 PM	Flood	N/A	0	0	0	0
26 Multiple Counties	08/02/2003	02:15 AM	Flood	N/A	0	0	0	0
27 Multiple Counties	08/07/2003	02:40 PM	Flood	N/A	0	0	0	0
28 Multiple Counties	01/04/2004	12:50 PM	Flood	N/A	0	0	0	0
29 Multiple Counties	06/11/2004	10:05 AM	Flood	N/A	0	0	0	0
TOTALS:					1	0	1.233M	0

TORNADOES								
Location or County	Date	Time	Type	Mag	Dth	Inj	PrD	CrD
1 Countywide	07/20/1962	1050	Tornado	F	0	0	3K	0
2 Countywide	03/17/1965	1604	Tornado	F1	0	0	25K	0
3 Countywide	05/26/1968	1730	Tornado	F1	0	0	3K	0
4 Countywide	02/26/1971	2305	Tornado	F1	0	1	25K	0
5 Countywide	05/10/1973	1700	Tornado	F3	0	4	3K	0
6 Countywide	04/03/1974	1450	Tornado	F5	0	0	2.5M	0
7 Countywide	04/03/1974	1455	Tornado	F2	0	0	250K	0
8 Countywide	08/03/1974	1545	Tornado	F0	0	0	25K	0
9 Countywide	01/13/1976	1600	Tornado	F1	0	0	25K	0
10 Countywide	04/20/1986	1745	Tornado	F1	0	6	250K	0
11 Countywide	06/18/1992	1703	Tornado	F0	0	0	0K	0
12 Countywide	06/18/1992	1731	Tornado	F1	0	0	0K	0
13 Bethel Twp	05/08/1996	07:10 PM	Tornado	F0	0	0	10K	0
TOTALS:					0	11	3.118M	0

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

KEY:

Mag: Magnitude

N/A: Non-Applicable (Droughts, Flooding, Lightning, Temperature Extremes, Thunderstorms, Snow and Ice)

F(X): Fujita Scale Rating designation for Tornadoes

in.: Inches in diameter measuring Hail

kts: Knots measuring degree of Wind

Dth: Deaths

Inj: Injuries

PrD: Property Damage

CrD: Crop Damage

Appendix J:
Outreach Information



**Clark County Emergency
Management Agency**

Bob Hupp, EMA Director

**4735 Ridgewood Road East
Springfield, OH 45503
937-328-4586**

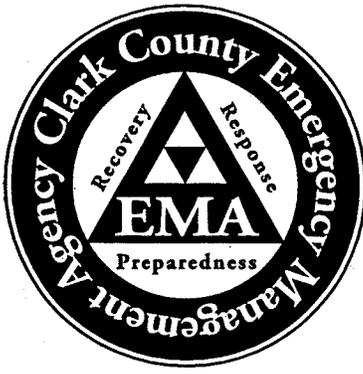
NEWS RELEASE

FOR IMMEDIATE RELEASE:

Water is starting to rise again on Clark County Roadways.

Please use caution when coming home from work and going out for evening activities. Driving in high water is dangerous; The water hides road hazards such as washed away pavement. Only two feet of water is enough move a motor vehicle.

For more information please contact Chief Deputy, Lisa D'Allessandris at the Emergency Management Agency at 605-3160.



Clark County Emergency Management Agency

Office # (937) 328-4586

E-Mail ema@co.clark.oh.us

Make a Kit of Emergency Supplies

Be prepared to improvise and use what you have on hand to make it on your own for at least three days, maybe longer.

Emergency Checklist

- | | |
|---|--|
| <input type="checkbox"/> Flashlights | <input type="checkbox"/> First Aid Kit |
| <input type="checkbox"/> Battery - Operated Radio | <input type="checkbox"/> Sleeping Bags, Pillows |
| <input type="checkbox"/> Batteries | <input type="checkbox"/> Candles / Matches |
| <input type="checkbox"/> Fire Extinguisher | <input type="checkbox"/> Pre - Moistened Towelettes |
| <input type="checkbox"/> Bottled Water
(a gallon of water per person per day) | <input type="checkbox"/> Important Phone Numbers |
| <input type="checkbox"/> Nonperishable Foods | <input type="checkbox"/> Medications
(keep a minimum of 1 week supply on hand) |
| <input type="checkbox"/> Disposable Eating Utensils | <input type="checkbox"/> Basic Tool Kit |
| <input type="checkbox"/> Manual Can Opener | |

**Appendix K:
Alternatives Matrix**



January 7, 2005

Member of Core Group
Title
Address

Re: Hazard Mitigation Planning Alternatives Matrix

Dear Member of Core Group,

As a member of Clark County's Natural Hazard Mitigation Plan Core Group, you are receiving a hazard mitigation alternatives matrix which was developed from the possible mitigation alternatives discussed at the Mitigation Alternatives Development meeting that was held on January 5, 2005. Each of you should fill out this matrix as it pertains to the county and your community. EMH&T will collect all communities' completed matrices and compile the results to be included in your County's All Natural Hazard Mitigation Plan that will be submitted to the Federal Emergency Management Agency (FEMA) for approval.

Please find the matrix attached to this letter, as well as directions for completing the matrix. EMH&T asks that you have the matrix completed by the date given at the end of the directions.

If you have any questions before the final meeting please do not hesitate to call or e-mail me.

Sincerely,

EVANS, MECHWART, HAMBLETON & TILTON, INC.

Maureen M. Richard, P.E.
Senior Project Engineer

Direct: (513) 697-8701
mrichard@emht.com

ALL NATURAL HAZARD MITIGATION PLAN
Clark County Core Group
Mitigation Alternatives Evaluation

Directions for Filling out the Matrix

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

1. Look at each statement under each hazard separately. Follow the example provided under the first hazard listed.
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. Please note that the first alternative under each hazard is “No Action”, which means the County will do nothing in terms of mitigation for this hazard. You must also rate doing nothing as an alternative.
4. Don't worry about the Hazard Prioritization Column (we will take care of that).
5. Don't total your scores. We will also take care of that component.
6. If you feel that any alternative does not apply to your community or is confusing, do not rate it and we can discuss at the next meeting.
7. If there are any questions concerning the alternatives or how to fill out the matrix, please contact me, Maureen Richard at (513) 697-8701 or e-mail me at mrichard@emht.com

For Example:

Under Severe Storms

One of the alternatives listed says:

Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.

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

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

Does the project meet Federal, State and Local Regulations? Place a rating in the box between 1-5

Do you feel that this activity will reduce risk? Place a rating in the box between 1-5

**ALL NATURAL HAZARD MITIGATION PLAN
Clark County Core Group
Mitigation Alternatives Evaluation**

Should this alternative be pursued even if funding is not available? Place a rating in the box between 1-5

Does the benefit of this alternative outweigh the cost? Place a rating in the box between 1-5

Do you feel that the frequency of the hazard justifies this alternative? Place a rating in the box between 1-5

Once you are finished filling out the matrix please mail the matrix to Tracy Annett so we can compile it before our next meeting. The deadline for submittal of the matrix for your community is **January 26, 2005. There is a self-addressed stamped envelope for your convenience.**

This deadline will allow us to compile the results as well as give you a draft plan to review prior to our last meeting. Our last meeting as a Core Group will be **February 9, 2005 at 5:00 pm, so it is critical that you get these in to us so we can compile them before the meeting. The location of the meeting is at the Clark County EMA's office, located at 4735 Ridgewood Road East, Springfield, Ohio 45503.**

Even if you are unable to attend this meeting, please mail the completed form back to Tracy Annett by **January 26, 2005 at the following address:**

**Tracy Annett
EMH&T Inc.
170 Mill Street
Gahanna, Ohio 43230**

THANKS AND SEE YOU ALL ON **February 9, 2005!**

Clark County All Natural Hazard Mitigation Plan	Matrix Totals	Hazard Prioritization	Average														
Severe Storms - Winter/Summer																	
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	29	29	16	28	7	28	25	30	21	22	17	24	30	5		22.2	
Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	28	28	30	30	6	28	20	29	19	13	12	23	30	5		21.5	
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	27	27	13	30	11	28	24	23	30	16	16	21	30	5		21.5	
Provide NOAA weather radios for all critical facilities within the County.	26	26	11	30	12	27	23	26	19	24	18	27	25	5		21.4	
Develop a public education program for informing residents of the hazards associated with severe weather, such as medical conditions and driving conditions, as well as what to do after an event occurs.	27	27	22	30	8	28	23	20	27	11	12	25	30	5		21.1	
Upgrade the radio communications system throughout the County for all public safety services.	19	19	30	30	6	25	20	27	24	23	16	24	25	5		20.9	
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	23	23	11	30	8	28	23	28	24	16	19	26	28	5		20.9	
No Action.	0	0	0	0	0	14	6	0	10	0	18	6	6	5		4.6	
Seek funding to increase manpower and equipment for townships and villages for snow and debris removal.	22	22	13	30	7	23	18	24	15	16	11	18	21	5		17.5	
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	25	25	13	30	8	28	17	21	21	10	17	26	30	5		19.7	
Bury power lines to avoid power outages from damaged overhead utility lines.	22	22	17	19	6	23	14	25	17	6	17	22	20	5		16.8	
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	23	23	13	30	6	28	21	27	17	15	11	22	30	5		19.4	
Seek funding for lightning detection equipment within Clark County's park systems and outdoor areas of assembly.	17	17	9	21	9	25	16	22	22	15	11	18	25	5		16.6	
Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	29	29	12	30	6	23	16	24	18	6	10	21	18	5		17.6	
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	26	26	24	0	7	27	20	23	26	6	17	21	30	5		18.4	
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	21	21	18	27	7	27	13	20	16	12	15	20	24	5		17.6	
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	19	19	22	30	7	28	16	20	16	10	14	19	25	5		17.9	
Seek funding to acquire additional four wheel drive vehicles and other types of all terrain vehicles for emergency operations.	14	14	17	27	6	25	17	24	23	9	9	22	18	5		16.4	
Seek funding for transporting mission essential personnel to critical facilities.	28	28	20	28	10	23	16	21	30	6	16	22	18	5		19.4	
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	11	11	6	16	6	23	11	19	11	12	9	28	18	5		13.3	
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	15	15	11	22	7	28	17	21	17	8	12	20	12	5		15.0	
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather incident.	21	21	22	30	7	26	13	22	23	8	13	20	24	5		18.2	
Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	15	15	21	30	14	25	20	28	20	10	14	21	18	5		18.3	
Provide designated locations/facilities to house displaced animals after severe storm events.	15	15	9	20	7	22	13	14	15	6	9	20	12	5		13.0	
Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather event.	22	22	10	20	6	20	16	28	23	6	9	17	18	5		15.9	
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	20	20	15	30	7	28	18	23	16	13	13	19	24	5		17.9	
Seek funding to acquire additional sump pumps and portable generators to loan to residents and businesses during times of heavy rain and/or flooding.	19	19	17	20	7	21	15	24	20	12	15	25	12	5		16.5	
Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	30	30	0	27	8	26	17	28	22	18	18	23	18	5		19.3	
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	25	25	0	27	7	24	19	18	23	12	15	17	18	5		16.8	
Provide temporary housing facilities for residents displaced by a disaster.	22	22	0	27	7	23	14	23	24	6	11	14	24	5		15.9	
Seek funding to install new infrastructure in areas susceptible to low level flooding and ponding of rainfall, outside of the 100-year floodplain.	22	22	0	22	6	26	17	25	23	10	8	21	18	5		16.1	
Flooding - 100-year zone, non-flood zone, flash flooding																	
Identify and provide warning signage and/or roadway markings for roadways that are susceptible to repeated flooding regardless of the amount of rainfall.	28	28	30	27	8	30	23	25	30	15	20	24	30	4		23.0	
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	29	29	18	30	9	29	25	30	21	21	10	24	24	4		21.6	
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	24	24	13	30	14	29	24	23	30	17	16	22	30	4		21.4	
Upgrade the radio communications system throughout the County for all public safety services.	19	19	30	30	9	29	22	27	24	22	16	26	24	4		21.5	
Seek funding to identify, map and maintain existing critical culverts and storm drainage ditches near residential areas, roadways and low lying areas throughout the County.	24	24	18	23	9	26	21	28	30	20	18	21	30	4		21.1	
Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	30	30	16	30	7	29	17	28	26	24	16	20	18	4		21.1	
Repair and replacement of bridges and levees that suffer damage from a severe storm/flooding event.	23	23	24	21	7	30	19	23	30	23	15	21	30	4		20.9	
Seek funding to elevate roadways that suffer repeat flooding to maintain traffic access to the area.	23	23	24	21	7	30	21	25	26	18	24	23	24	4		20.9	
Develop a public education program for informing residents of the hazards associated with severe weather and flooding, such as medical conditions and driving conditions, as well as what to do after an event occurs.	27	27	24	27	9	28	23	20	26	11	14	19	30	4		20.6	
Seek funding to review and revise existing storm water ordinances to address existing developments.	27	27	9	30	8	29	17	22	20	24	20	21	30	4		20.6	
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	26	26	29	18	7	29	20	23	26	6	17	24	30	4		20.4	
Provide NOAA weather radios for all critical facilities within the County.	26	26	18	27	12	29	23	26	19	21	18	23	12	4		20.3	
Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	28	28	30	30	8	28	12	29	19	15	12	25	12	4		20.0	
No Action.	0	0	0	0	0	14	6	0	10	0	17	6	6	4		4.5	
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	23	23	24	30	10	28	23	28	23	19	16	16	12	4		19.9	
Seek funding to increase manpower and equipment for townships and villages for debris removal.	22	22	20	27	7	23	17	24	15	16	10	17	12	4		16.9	
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	25	25	21	27	8	30	16	21	21	11	17	22	18	4		19.0	
Bury power lines to avoid power outages from damaged overhead utility lines.	22	22	17	21	6	23	14	25	17	6	16	19	12	4		16.0	
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	23	23	13	30	7	28	21	25	17	16	11	22	30	4		19.3	
Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	17	17	6	15	7	21	13	24	18	6	11	15	12	4		13.3	
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	21	21	18	22	7	28	13	20	16	9	17	15	18	4		16.4	
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	19	19	27	22	7	24	16	20	16	10	15	17	18	4		16.7	
Seek funding to acquire additional four wheel drive vehicles and other types of all terrain vehicles for emergency operations.	14	14	13	0	7	19	18	24	23	8	0	17	12	4		12.4	
Seek funding for transporting mission essential personnel to critical facilities.	11	11	16	30	7	19	20	21	30	6	16	16	12	4		15.6	
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	15	15	12	26	7	22	13	19	11	10	9	11	12	4		13.3	
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	21	21	18	27	7	21	17	21	17	8	12	20	18	4		16.6	
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather/flooding incident.	16	16	17	23	9	25	13	22	23	8	13	17	30	4		16.9	
Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	15	15	15	23	9	22	20	28	20	10	13	16	18	4		16.3	
Provide designated locations/facilities to house displaced animals after severe storm/flooding events.	22	22	14	21	7	18	13	14	15	6	9	18	12	4		13.9	
Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather/flooding event.	20	20	18	21	7	20	16	28	23	6	9	19	18	4		16.4	
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	19	19	18	30	7	27	18	23	16	13	13	20	24	4		17.9	
Seek funding to acquire additional sump pumps and portable generators to loan to residents and businesses during times of heavy rain and/or flooding.	26	26	21	22	7	23	15	24	20	11	15	22	12	4		17.7	
Seek funding to install new infrastructure in areas susceptible to low level flooding and ponding, outside of the 100-year floodplain.	24	24	18	23	7	30	17	18	30	16	15	20	24	4		19.3	
Seek funding to study existing problem flooding areas (and upstream areas) to see if new detention basins would alleviate the flooding problem.	20	20	15	24	8	30	14	22	30	15	10	23	24	4		18.5	
Seek funding to install new and upgrade existing detention basins to prevent flooding downstream of existing developments.	19	19	13	24	7	30	19	25	30	7	13	23	18	4		17.9	
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	25	25	14	24	7	21	15	18	24	13	14	18	18	4		17.1	
Provide temporary housing facilities for residents displaced by a disaster.	22	22	15	24	7	21	14	23	24	6	9	15	24	4		16.4	
Tornadoes																	
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	29	29	19	30	9	28	19	30	21	20	17	19	24	3		21.2	
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	23	23	20	30	7	28	23	28	23	19	16	21	30	3		21.0	

Clark County All Natural Hazard Mitigation Plan	Matrix Totals	Hazard Prioritization	Average														
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	27	27	17	30	8	26	19	23	30	17	18	19	30	3		21.0	
Provide NOAA weather radios for all critical facilities within the County.	26	26	21	30	9	25	22	26	19	21	18	23	24	3		20.9	
Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	30	30	15	30	8	29	25	28	16	21	18	19	18	3		20.7	
Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	21	21	27	30	8	28	23	29	19	15	12	22	30	3		20.6	
Upgrade the radio communications system throughout the County for all public safety services.	19	19	18	30	9	27	26	27	24	21	16	22	24	3		20.4	
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	25	25	23	30	8	29	17	21	21	14	17	23	30	3		20.4	
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	26	26	21	30	8	30	19	23	26	6	15	19	30	3		20.1	
No Action.	0	0	0	0	0	14	6	0	10	0	17	0	6	3		4.0	
Seek funding to increase manpower and equipment for townships and villages for debris removal.	22	22	21	30	7	23	17	24	15	17	10	17	24	3		18.0	
Bury power lines to avoid power outages from damaged overhead utility lines.	22	22	18	30	7	20	19	25	17	6	15	21	18	3		17.4	
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	23	23	19	30	7	25	21	25	17	18	11	18	24	3		18.9	
Seek funding for lightning detection equipment within Clark County's park systems and outdoor areas of assembly.	17	17	15	21	8	24	18	23	22	12	11	18	18	3		16.2	
Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	29	29	11	30	7	18	15	24	18	6	10	18	12	3		16.4	
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	20	21	17	26	8	20	22	20	16	11	14	19	12	3		16.4	
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	19	19	27	30	8	26	17	20	16	12	12	18	12	3		17.1	
Develop a public education program for informing residents of the hazards associated with severe weather, such as medical conditions and driving conditions, as well as what to do after an event occurs.	27	27	20	30	9	29	18	20	27	12	9	18	30	3		19.9	
Seek funding to acquire additional four wheel drive vehicles and other types of all terrain vehicles for emergency operations.	14	14	10	24	8	23	19	24	23	7	16	18	12	3		15.4	
Seek funding for transporting mission essential personnel to critical facilities.	28	28	13	30	8	19	19	21	30	6	9	18	18	3		17.9	
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	11	11	11	19	8	26	10	19	11	10	9	16	18	3		13.0	
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	14	14	11	30	7	30	16	21	17	8	12	19	24	3		16.1	
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather incident.	15	15	10	30	8	30	16	19	23	7	13	17	24	3		16.4	
Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	15	15	17	30	9	30	20	28	20	12	14	20	12	3		17.5	
Provide designated locations/facilities to house displaced animals after severe storm events.	22	22	9	19	7	21	15	14	15	6	9	16	18	3		14.0	
Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather event.	20	20	9	19	7	21	15	28	23	6	9	16	18	3		15.3	
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	19	19	14	30	8	30	15	23	16	12	13	18	24	3		17.4	
Seek funding to acquire additional sump pumps and portable generators to loan to residents and businesses during times of heavy rain and/or flooding.	24	24	19	19	8	29	16	24	20	11	15	19	6	3		16.9	
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	25	25	21	30	8	21	20	18	23	13	15	20	18	3		18.6	
Provide temporary housing facilities for residents displaced by a disaster.	22	22	0	24	8	17	16	26	24	6	0	0	24	3		13.7	
Droughts - Severe																	
Establish an enforceable open burning ban to be implemented during droughts.	30	30	0	30	0	30	21	26	30	24	16	23	24	2		20.4	
Provide an alternate potable water source in the event that existing water supplies are disrupted or wells run dry.	30	30	0	30	0	30	25	27	26	23	13	16	30	2		20.1	
Develop and implement a domestic water management/conservation program.	30	30	0	30	0	30	20	26	25	18	14	18	30	2		19.5	
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	29	29	0	18	0	23	25	30	21	20	16	19	18	2		17.9	
No Action.	0	0	0	0	8	14	6	0	10	19	18	0	6	2		5.9	
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	15	15	0	18	0	20	18	27	23	16	19	14	18	2		14.6	
Develop a public education program concerning the hazards associated with droughts and water restrictions during drought conditions.	14	14	0	30	0	30	15	23	19	13	14	18	30	2		15.9	
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	12	12	0	18	0	20	22	24	23	19	12	17	24	2		14.6	
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	13	13	0	18	0	17	17	25	23	15	9	17	24	2		13.8	
Develop and implement a plan to process donations, acquire feeds and provide potable water supplies for livestock.	17	17	0	22	0	28	21	21	17	24	8	18	30	2		16.1	
Earthquakes																	
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	29	29	0	17	0	24	20	30	21	19	23	17	18	1		17.7	
Provide an alternate potable water source in the event that existing water supplies are disrupted or wells run dry.	30	30	0	17	0	28	20	26	26	20	8	17	18	1		17.2	
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	20	20	0	17	0	24	24	26	23	23	13	17	30	1		17.0	
Upgrade the radio communications system throughout the County for all public safety services.	19	19	0	17	0	24	21	24	24	22	22	17	24	1		16.7	
No Action.	0	0	18	0	8	14	6	0	10	0	18	0	6	1		5.8	
Develop a public education program concerning the hazards associated with earthquakes, as well as a homeowner's option to purchase earthquake insurance.	18	18	0	17	0	30	12	23	20	11	8	17	30	1		14.6	
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	10	10	0	17	0	28	19	18	11	16	8	17	12	1		11.9	
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather incident.	12	12	0	17	0	30	17	25	18	9	16	17	18	1		13.7	
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	22	22	0	17	0	30	19	25	26	6	16	17	18	1		15.6	
Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	18	18	0	17	0	30	10	26	19	16	14	17	12	1		14.1	
Seek funding to increase manpower and equipment for townships and villages for debris removal.	22	22	0	17	0	24	21	27	15	18	15	17	12	1		15.1	
Seek funding for transporting mission essential personnel to critical facilities.	21	21	0	17	0	27	21	23	30	6	17	17	12	1		15.2	

**Appendix L:
Action Plan**

Clark County Action Plan	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
1. Severe Storms - Winter/Summer											
No Action.	5	4.6	0	0	0	Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	5	19.7	2007	existing budget	EMA
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	5	22.2	2006	existing budget	EMA and Core Group	Bury power lines to avoid power outages from damaged overhead utility lines.	5	16.8	2008	State/Federal Sources	Utilites and Core Group
Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	5	21.5	2006	State or Federal Sources	EMA and Core Group	Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	5	19.4	2007	existing budget	Red Cross and EMA
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	5	21.5	2006	existing budget	Red Cross, EMA and Engineers	Upgrade the radio communications system throughout the County for all public safety services.	5	20.9	2006	State/Federal Sources	EMA
Provide NOAA weather radios for all critical facilities within the County.	5	21.4	2006	TBA	EMA and Core Group	Seek funding for lightning detection equipment within Clark County's park systems and outdoor areas of assembly.	5	16.6	2008	State/Federal Sources	EMA and Core
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	5	20.9	2006	State or Federal Sources	EMA and Core Group	Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	5	17.6	2007	existing budget	Utilites and Core Group
Seek funding to increase manpower and equipment for townships and villages for snow and debris removal.	5	17.5	2007	State or Federal Sources	EMA and Core Group	Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	5	18.4	2007	State/Federal Sources	EMA and Core

Clark County Action Plan	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
1. Severe Storms - Winter/Summer											
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	5	17.6	2007	State or Federal Sources	Core Group	Provide designated locations/facilities to house displaced animals after severe storm events.	5	13.0	2009	existing budget	Agricultural Society and EMA
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	5	17.9	2007	State or Federal Sources	EMA and Core Group	Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather event.	5	15.9	2008	existing budget	Agricultural Society and EMA
Develop a public education program for informing residents of the hazards associated with severe weather, such as medical conditions and driving conditions, as well as what to do after an event occurs.	5	21.1	2006	existing budget	EMA	Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	5	17.9	2007	existing budget	EMA
Seek funding to acquire additional four wheel drive vehicles and other types of all terrain vehicles for emergency operations.	5	16.4	2008	State or Federal Sources	Core Group	Seek funding to acquire additional sump pumps and portable generators to loan to residents and businesses during times of heavy rain and/or flooding.	5	16.5	2008	State/Federal Sources	EMA and Core
Seek funding for transporting mission essential personnel to critical facilities.	5	19.4	2007	State or Federal Sources	EMA	Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	5	19.3	2007	existing budget	EMA and Core
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	5	13.3	2009	State or Federal Sources	Historical Society and Core Group	Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	5	16.8	2008	existing budget	EMA
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	5	15.0	2008	existing budget	EMA	Provide temporary housing facilities for residents displaced by a disaster.	5	15.9	2008	existing budget	Red Cross and EMA
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather incident.	5	18.2	2008	existing budget	EMA	Seek funding to install new infrastructure in areas susceptible to low level flooding and ponding of rainfall, outside of the 100-year floodplain.	5	16.1	2008	State/Federal Sources	Engineer's Depart

Clark County Action Plan	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency		Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo
Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	5	18.3	2007	State or Federal Sources	EMA						

Clark County Action Plan	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
2. Flooding - 100-year zone, non-flood zone, flash flooding											
No Action.	4	4.5	0	0	0	Bury power lines to avoid power outages from damaged overhead utility lines.	4	16.0	2008	TBA	Utilites and Core Group
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	4	21.6	2006	existing budget	EMA	Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	4	19.3	2007	existing budget	Red Cross and EMA
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	4	21.4	2006	existing budget	Engineers and EMA and Red Cross	Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	4	20.0	2006	existing budget	EMA and Core
Upgrade the radio communications system throughout the County for all public safety services.	4	21.5	2006	State or Federal Sources	EMA and Core Group	Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	4	13.3	2009	existing budget	Utilites and Core Group
Seek funding to identify, map and maintain existing critical culverts and storm drainage ditches near residential areas, roadways and low lying areas throughout the County.	4	21.1	2006	State or Federal Sources	Engineers	Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	4	20.4	2007	State/Federal Sources	EMA and Core
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	4	19.9	2006	State or Federal Sources	EMA and Core Group	Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	4	16.4	2007	State or Federal Sources	Core Group
Seek funding to increase manpower and equipment for townships and villages for debris removal.	4	16.9	2008	existing budget	EMA	Seek funding to acquire portable generators to loan out to critical facilities and shelters.	4	16.7	2009	existing budget	Agricultural Society and EMA

Clark County Action Plan		Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.		4	19.0	2007	existing budget	EMA	Develop a public education program for informing residents of the hazards associated with severe weather and flooding, such as medical conditions and driving conditions, as well as what to do after an event occurs.	4	20.6	2006	existing budget	EMA
Provide NOAA weather radios for all critical facilities within the County.		4	20.3	2006	TBA	EMA	Seek funding to acquire additional four wheel drive vehicles and other types of all terrain vehicles for emergency operations.	4	12.4	2008	State or Federal Sources	Core Group

Clark County Action Plan	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency		Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo
2. Flooding - 100-year zone, non-flood zone, flash flooding											
Seek funding for transporting mission essential personnel to critical facilities.	4	15.6	2008	State or Federal Sources	EMA	Seek funding to install new infrastructure in areas susceptible to low level flooding and ponding, outside of the 100-year floodplain.	4	19.3	2007	State or Federal Sources	Engineer's Depart
Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	4	13.3	2009	State or Federal Sources	Historical Society and Core Group	Repair and replacement of bridges and levees that suffer damage from a severe storm/flooding event.	4	20.9	2006	TBA	Engineer's Depart
Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	4	16.6	2008	existing budget	Ema	Identify and provide warning signage and/or roadway markings for roadways that are susceptible to repeated flooding regardless of the amount of rainfall.	4	23.0	2006	existing budget	Engineer's Depart
Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather/flooding incident.	4	16.9	2008	existing budget	EMA	Seek funding to elevate roadways that suffer repeat flooding to maintain traffic access to the area.	4	20.9	2006	State or Federal Sources	Engineer's Depart
Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	4	16.3	2008	State or Federal Sources	EMA	Seek funding to study existing problem flooding areas (and upstream areas) to see if new detention basins would alleviate the flooding problem.	4	18.5	2007	existing budget	EMA and Core
Provide designated locations/facilities to house displaced animals after severe storm/flooding events.	4	13.9	2009	existing budget	Agricultural Sociey and EMA	Seek funding to install new and upgrade existing detention basins to prevent flooding downstream of existing developments.	4	17.9	2007	State or Federal Sources	Engineer's Depart
Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather/flooding event.	4	16.4	2008	existing budget	Agricultural Sociey and EMA	Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	4	21.1	2006	existing budget	EMA

Clark County Action Plan											
	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	4	17.9	2007	existing budget	EMA	Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	4	17.1	2007	existing budget	EMA
Seek funding to acquire additional sump pumps and portable generators to loan to residents and businesses during times of heavy rain and/or flooding.	4	17.7	2008	State or Federal Sources	EMA and Core Group	Provide temporary housing facilities for residents displaced by a disaster.	4	16.4	2008	State or Federal Sources	Red Cross and EMA
Seek funding to review and revise existing storm water ordinances to address existing developments.	4	20.6	2006	State or Federal Sources	Core Group						

Clark County Action Plan	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency		Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo
3. Tornadoes											
No Action.	3	4.0	0	0	0	Develop public education program for residences and businesses concerning the dangers of fuel tanks (e.g. securing them to a permanent structure, ensuring adequate tank structure strength.)	3	16.1	2008	existing budget	EMA
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	3	21.2	2006	existing budget	EMA and Core Group	Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather incident.	3	16.4	2008	existing budget	EMA
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	3	21.0	2006	State or Federal Sources	EMA and Core Group	Seek funding to purchase additional communication equipment for use by the EMA in communicating with relief workers.	3	17.5	2007	State or Federal Sources	EMA
Develop a mapping system to identify existing shelters, where residents can go to seek safety in the event of severe weather. Coordinate with the Red Cross on identifying existing shelters.	3	21.0	2006	existing budget	EMA and Engineers	Provide designated locations/facilities to house displaced animals after severe storm events.	3	14.0	2008	existing budget	Agricultural Society and EMA
Provide NOAA weather radios for all critical facilities within the County.	3	20.9	2006	TBA	EMA and Core Group	Provide means for mass animal carcass disposal to prevent spread of disease after a severe weather event.	3	15.3	2008	existing budget	Agricultural Society and EMA
Seek funding to increase manpower and equipment for townships and villages for debris removal.	3	18.0	2007	State or Federal Sources	EMA and Core Group	Develop a warehousing complex for storing essential disaster supplies (food, clothing, medical supplies), as well as processing donations, that would be distributed to shelters during and after an event.	3	17.4	2007	existing budget	EMA
Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	3	20.4	2006	existing budget	EMA	Seek funding to acquire additional sump pumps and portable generators to loan to residents and businesses during times of heavy rain and/or flooding.	3	16.9	2008	State or Federal Sources	EMA and Core
Bury power lines to avoid power outages from damaged overhead utility lines.	3	17.4	2007	State or Federal Sources	Engineers	Provide an alternate potable water source in the event that existing water supplies are disrupted or contaminated.	3	20.7	2006	existing budget	EMA and Core
Upgrade existing and provide additional shelters where residents, especially the medically fragile, can seek safety from severe weather. Provide at least one shelter for each jurisdiction.	3	18.9	2007	existing budget	Red Cross, EMA and Engineers	Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	3	18.6	2007	existing budget	EMA

Clark County Action Plan											
	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	3	20.6	2006	State or Federal Sources	EMA and Core Group	Provide temporary housing facilities for residents displaced by a disaster.	3	13.7	2009	existing budget	Red Cross and EMA
Upgrade the radio communications systems throughout the County for all public safety services.	3	20.4	2006	State or Federal Sources	EMA	Seek funding for transporting mission essential personnel to critical facilities.	3	17.9	2007	State or Federal Sources	EMA
Seek funding for lightning detection equipment within Clark County's park systems and outdoor areas of assembly.	3	16.2	2008	State or Federal Sources	EMA and Core Group	Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	3	13.0	2009	State or Federal Sources	Historical Society and Core Group
Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	3	16.4	2008	existing budget	Utilites and Core Group						
Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	3	20.1	2006	State or Federal Sources	EMA and Core Group						
Provide permanent shelters for mobile home parks and campgrounds, where citizens may seek safety.	3	16.4	2008	State or Federal Sources	Core Group						
Seek funding to acquire portable generators to loan out to critical facilities and shelters.	3	17.1	2007	State or Federal Sources	EMA and Core Group						
Develop a public education program for informing residents of the hazards associated with severe weather, such as medical conditions and driving conditions, as well as what to do after an event occurs.	3	19.9	2006	existing budget	EMA						
Seek funding to acquire additional four wheel drive vehicles and other types of all terrain vehicles for emergency operations.	3	15.4	2008	State or Federal Sources	Core Group						
2. Droughts - Severe						1. Earthquakes					
No Action.	2	17.7	0	0	0	No Action.	1	5.8	0	0	0
Establish an enforceable open burning ban to be implemented during droughts.	2	20.4	2006	existing budget	Commission	Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	1	17.7	2007	existing budget	EMA and Core
Provide an alternate potable water source in the event that existing water supplies are disrupted or wells run dry.	2	20.1	2006	existing budget	EMA and Core Group	Provide an alternate potable water source in the event that existing water supplies are disrupted or wells run dry.	1	17.2	2007	existing budget	EMA and Core

Clark County Action Plan											
	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Responsible Agency	Hazard Prioritization	Activity Rating	Implementation Schedule(Year)	Funding	Respo	
Develop and implement a domestic water management/conservation program.	2	19.5	2007	existing budget	Utilites and Core Group	Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	1	17.0	2007	State or Federal Sources	EMA and Core
Develop regional mutual aid agreements between fire departments, law enforcement agencies and other counties, to assist in clean up process after an event.	2	17.9	2007	existing budget	EMA and Core Group	Upgrade the radio communications system throughout the County for all public safety services.	1	16.7	2008	State or Federal Sources	EMA
Provide back-up generators for critical facilities, including shelters, which need to maintain continuous power to protect human health and life.	2	14.6	2008	State or Federal Sources	EMA and Core Group	Develop a public education program concerning the hazards associated with earthquakes, as well as a homeowner's option to purchase earthquake insurance.	1	14.6	2008	existing budget	EMA
Develop a public education program concerning the hazards associated with droughts and water restrictions during drought conditions.	2	15.9	2008	existing budget	EMA	Seek funding to restore historical sites, if they suffer severe damage from a severe weather event.	1	11.9	2009	State or Federal Sources	Historical Society and Core Group
Seek funding to increase manpower and equipment for townships and villages for debris removal.	1	15.1	2008	State or Federal Sources	EMA and Core Group	Seek funding to develop a Volunteer Reception Center for coordinating volunteers who are willing to help with the mitigation of a severe weather incident.	1	13.7	2009	existing budget	EMA
Provide temporary facilities for non-life threatening emergencies to alleviate the overloading of the medical facilities.	2	13.8	2009	existing budget	EMA	Seek funding to provide early warning system, such as reverse 9-1-1, to warn residents of emergency situations.	1	15.6	2008	State or Federal Sources	EMA and Core
Develop and implement a plan to process donations, acquire feeds and provide potable water supplies for livestock.	2	16.1	2008	existing budget	Agricultural Sociey and EMA	Install an interoperable, multi-purpose siren system that would alert residents of approaching severe weather or other emergencies.	1	14.1	2008	State or Federal Sources	EMA and Core
1. Earthquakes											
Seeking funding for transporting mission essential personnel to critical facilities.	1	15.2	2008	State or Federal Sources	EMA						

Appendix M: 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.
- "Ecoregions of Indiana and Ohio", Poster produced by ODNR, Alan J. Woods et. al.
- <http://www.solutient.com/sttammany/documents.htm> - St. Tammany Hazard Mitigation Plan
- 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
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- <http://www.enonhistory.org/6928/index.html> - Enon
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