

Hazard Mitigation Plan

5 Year Update

Darke County, Ohio



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Updated in October, 2018

Hazard Mitigation Plan – 201

5-Year Plan Update

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TABLE OF CONTENTS

	Page
List of Acronyms	i
Mitigation Plan Summary	ii - iii
Section 1: Introduction	1 - 37
1.1 Community Profile	2 - 22
1.2 Documentation of the Planning Process	23 - 29
1.3 Planning Committee	30 - 32
1.4 Plan Adoption by the Board of Commissioners	33 - 36
1.5 Plan Adoption – Multi-Jurisdictional	37
Section 2: Hazard Identification, Risk Assessment & Vulnerability Analysis	38 - 146
2.1 Overview	39 - 41
2.2 Hazard Identification Summary	42 - 46
2.3 Identifying Assets	47 - 65
2.4 Winter Storms Including Ice Event	66 - 71
2.5 Flooding	72 - 99
2.6 Tornadoes/High Wind Events	100 - 108
2.7 Severe Summer Storms	109 - 118
2.8 Drought	119 - 127
2.9 Invasive Species	128 - 131
2.10 Wildfires	132 - 135
2.11 Epidemic	136 - 138
2.12 Earthquakes	139 - 144
2.13 Development Trends	145 - 146
2.14 Multi-Jurisdiction Risk Assessment	147

Section 3: Mitigation Strategy **148 - 188**

3.1	Successfully Completed Hazard Mitigation Projects	149 - 154
3.2	Mitigation Strategy – Goals – 2011	155 - 156
3.3	Re-Evaluating Darke County’s Problems	157 - 171
3.4	Implementation of Priority Action Items	172 - 184
3.5	Priority Action Items	185 - 189

Section 4: Plan Maintenance Process **190 - 199**

4.1	Overview	191
4.2	Monitoring The Plan	192
4.3	Evaluating The Plan	193
4.4	Updating The Plan	194
4.5	Incorporating Darke County’s Plan Into Existing Planning Mechanisms	195 - 198
4.6	Continued Public Involvement	199

Appendix:

Meeting Agendas & Minutes	A - 1
Invitation to Committee and Neighboring Emergency Management Agencies	A - 2
Invitation to City and Villages	A - 3
Questionnaires	A - 4
Public Newspaper Articles	A - 5

List of Commonly Used Acronyms

BCA	Benefit Cost Analysis
CDBG	Community Development Block Grant
CRS	Community Rating System
DCBC	Darke County Board of Commissioners
DCHMPC	Darke County Hazard Mitigation Planning Committee
DMA2K	Disaster Mitigation Act of 2000
DSP	Dam Safety Program
EAP	Emergency Action Plan
EMS	Emergency Medical Services
FD	Fire Department
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Assistance Program
GIS	Geographic Information Systems
HIRA	Hazard Identification & Risk Assessment
HMGP	Hazard Mitigation Grant Program
LHMP	Local Hazard Mitigation Plan
LU/LC	Land Use Land Cover
MCD	Miami Conservancy District
NCDC	National Climatic Data Center
NDMC	National Drought Mitigation Center
NFDRS	National Fire Danger Rating System
NFIP	National Flood Insurance Program
NID	National Inventory of Dams
NOAA	National Oceanic Atmospheric Administration
NRCS	National Conservation Resource Service
OAC	Ohio Administrative Code
OBC	Ohio Building Code
ODH	Ohio Department of Health
ODNR	Ohio Department of Natural Resources
ODNR-FPM	Ohio Department of Natural Resources Flood Plain Management
Ohio EMA	Ohio Emergency Management Agency
OPWC	Ohio Public Works Commission
ORC	Ohio Revised Code
OSU	Ohio State University
PDM	Pre-Disaster Mitigation Grant Program
PDM-C	Pre-Disaster Mitigation Competitive Grant Program
SFHA	Special Flood Hazard Area
SHARPP	State Hazard Analysis Resource & Planning Portal
SHMD	State Hazard Mitigation Office
USACE	United States Army Corps of Engineers
USGS	United States Geological Survey

Darke County, Ohio Hazard Mitigation Plan

WPCLF	Water Pollution Control Loan Fund
WTP	Water Treatment Plant
WWTP	Wastewater Treatment Plant

Mitigation Plan Summary

The Darke County, Ohio Hazard Mitigation Plan demonstrates how Darke County has successfully completed numerous hazard mitigation projects to reduce future damages, deaths, and injuries should disaster strike. The plan also addresses future mitigation work needed to be done to further reduce future loss and to provide a framework where local governments, businesses, and county residents and visitors can ensure that positive mitigation planning activities are being carried out. It is the intent that future planned work will move forward based on accurate information and the appropriate mitigation action items will be prudent investments for the taxpayers of Darke County.

As Darke County expands and changes, challenging vulnerabilities must be addressed. Darke County will face numerous hazards in the future, both natural and manmade, and these hazards can result in disasters that impact citizens, businesses, and all levels of government. Over time, factors such as global warming and weather pattern changes can influence frequency and intensity of weather events. By identifying hazards and taking appropriate steps to mitigate future vulnerabilities, growth and change can be done in a positive manner that will lessen the impact of future hazard events. Hazard mitigation can be defined as the sustained action taken to reduce or eliminate long-term risks to people and their property from hazards including natural or man-made disasters. Hazard mitigation planning is a positive process built on assessing the hazards and applying effective strategies to complete preventive measures. It involves multiple stakeholders from throughout the Community and the State along with blending public and private sector goals, objectives, and actions.

The main overall goal of this plan is to significantly reduce life loss and injuries and minimize damage to structures and property from disasters. It is also intended to reduce disruptions to society, better integrate hazard mitigation programs and policies, reduce the number of repetitive flood loss structures, and to promote education and outreach activities to create a culture of hazard mitigation for Darke County residents.

The Darke County Hazard Mitigation Plan currently is required to be updated every 5 years in order to remain eligible to receive public assistance for hazard mitigation fund grants. The 2018 plan updates are intended to address new conditions and laws and includes an update and status report of mitigation action items occurring within the previously FEMA Approved Plan that was adopted by the Darke County Board of Commissioners and the Municipalities.

Section 1 “Introduction” summarizes the Plan and describes the planning process and includes the documentation for adoption of the Plan by the Darke County Board of Commissioners and all of the participating municipalities.

Section 2 “Hazard Identification, Risk Assessment & Vulnerability” identifies the most prevalent hazards that have affected and may in the future affect Darke County. This section includes hazard history, determination of risk and

vulnerability of buildings and infrastructure, and a discussion on County development trends and how that may affect future analysis.

Section 3 “Darke County Mitigation Strategy” addresses hazard mitigation goals, objectives, and action items to be effective in hazard mitigation.

Section 4 “Plan Maintenance Process” addresses how the plan will be evaluated and updated.

Appendix: Includes supporting documentation and information that complements the Darke County Hazard Mitigation Plan.

Introduction

- 1.1 Community Profile
- 1.2 Documentation of the Planning Process
- 1.3 Planning Committee
- 1.4 Plan Adoption by the Board of Commissioners
- 1.5 Plan Adoption – Multi-Jurisdictional

Darke County, Ohio Hazard Mitigation Plan

1.1 Community Profile Update Commentary

The Community profile has been updated within this Plan. This allowed the Darke County Hazard Mitigation Committee (DCHMC) to see what had changed in the county since 2012. The results included:

Agricultural

- The county remains a strong agricultural community.
- The farms decreased in number but grew larger in acreage.
- Darke County ranks 2nd in Ohio in hog production with numerous new hog production facilities and two new dairy production facilities.
- Weaver Brothers Eggs built a 3-story building in Versailles.

Airport

- The Darke County Airport runway length was expanded to accommodate landing of planes more safely.

Assisted Living / Elderly Care

- Elderly care facilities within the county continue to expand including the Village Green in 2012 with approximately 51 beds and the Brethren Retirement Community is building 18 new detached single family planned living units.

Demographics

- Darke County population decreased slightly from 52,959 (2010 census) to approximately 51,536 (estimated 2017 census).

Emergency Services

- A new fire department was completed in the Village of North Star.
- A new MARCS radio tower was constructed in the Village of Union City.
- A new 911 Center was completed in the City of Greenville.
- The 911 Center at the Darke County Sherriff's office is being renovated.

Darke County, Ohio Hazard Mitigation Plan

Health Care

- The county's largest health care facility, Wayne HealthCare, is planning another expansion.
- Family Health Services, Inc., the county's largest facility of health care providers, has expanded and now includes dental and eye care services.
- Reid Specialty Physicians new care facility was opened in Greenville in 2015.
- AccessMD Urgent Care facility was opened in Greenville in 2016.

Industry

- Several large county employers such as Whirlpool, Midmark, and Greenville Technology, Inc. have expanded. Kings Command Foods, Weaver Brothers Eggs, Voisard Tool Service, Kemp Pallets, and BNSF Logistics have also expanded.
- Workforce development has been brought to the forefront due to the needs of additional trained workers.
- Newer related plants have been constructed such as The Anderson's Ethanol Plant and Continental Carbonics, a dry ice plant.

Parks and Recreation

- The Darke County Parks has grown in size and continues to develop and promote trails and greenspace. It has three new trail segments under construction in and around Greenville and has recently opened the Bish Discovery Center.
- Arcanum has added a new commercial park.

Retail/Business

- The total active businesses has reduced from 1,243 in 2008 to approximately 1,062 in 2016.
- Larger Businesses/Employers that have Closed Operations – Retail operators such as JC Penney, Kmart, Staples and Odd Lots in Greenville.
- New Commercial Construction –
 - Ansonia – Dollar General and Casey's Market.
 - Arcanum Commercial Park is in the planning stages.
 - County Commercial Park – Includes ODOT and Erwin Brothers Convenience Store.

Darke County, Ohio Hazard Mitigation Plan

- Greenville - Koenig Equipment, Dollar General Store, Harbor Freight, Dominos, Rollin Trucking, Snap Fitness Center, Buffalo Wild Wings, Rapid Fire Pizza and Ohio Signs.
- New Madison – Dollar General.
- Union City – Casey’s Market.
- Versailles – Bowlerstore.com, Voisard Tool Service, Kamp’s Pallets Expansion (Subler Dr. location), BNSF Expansion, Weaver Bros. Truck Wash, and Books by the Bushel.

Residential

- Several new housing developments have been added including a 70-lot subdivision in Versailles and two subdivisions in Arcanum.
- The number of mobile homes has increased from 882 to 884.

Roadways and Bridges

- Roadway Changes –
 - Closure and elimination of the former State Route 242 behind the Darke County Airport.
 - Re-establish State Route 242 as a county road.
 - Improvements are planned for State Route 571 at Arcanum Bears Mill Road intersection.
 - Kruckeburg/US Route 127 improvements.
- A new bridge was placed on Center Street in Versailles.
- Numerous county and township bridges were placed throughout Darke County.

Schools

- Many of the rural county school districts have replaced their older school buildings over the past 20 years with new ones.
- Renovation of the Greenville Senior High School was completed in 2016.
- New K-8 Facility opened in Greenville in 2017.
- New preschool and athletic complex proposed in Ansonia.
- New vocational ag and athletic complex proposed in Arcanum.
- Tri-Village completed a new athletic field complex in 2016.

Darke County, Ohio Hazard Mitigation Plan

- Greenville completed a new football field and track & field complex in 2017.
- Older Greenville City Schools including Woodland Heights, South School, East School and Junior High School were demolished in 2016 through 2018.

Tourism

- Tourism remains strong within the county due to Darke County's history and rich heritage and the opening of a new office in downtown Greenville with the Greenville Main Street Program.

Utilities

- A new water treatment plant was completed in the Village of Versailles.
- Levy improvements were completed at Greenville wastewater treatment plant.
- A new wastewater treatment plant is under construction in the Village of Arcanum.
- A new wastewater treatment plant and collection system is planned to serve the Villages of Hollansburg-Palestine areas.
- A new wastewater treatment plant and collection system is in the planning stages for the Village of Wayne Lakes.
- Three new wind turbines are under construction at Whirlpool Plant in the City of Greenville.
- A new 175-megawatt solar powered facility was installed at the Village of Versailles water plant site.

1.1 Introduction

Darke County is located in West Central Ohio. It has a total area of approximately 387,136 acres or 600 square miles. It includes 20 townships, 1 city (Greenville – the county seat), and 20 incorporated villages with a total population of approximately 51,778 residents in 2016. Darke County borders Randolph County, Indiana to the west, Preble County to the south, Miami and Shelby Counties to the east and Mercer County to the north. It has acres of farmland; deep historical roots; many, small communities with friendly people; unique festivals; parks with miles of trails; and many business advantages. Darke County, with its agricultural roots, has ranked at the top of Ohio's agricultural receipts for many years as approximately 82% of the land area is cultivated cropland. The wealth of the land and work ethic of the people combine to create opportunities for those who live and work in Darke County.

Although rural in nature, Darke County is located within a 30 to 90-minute drive of several major Midwest metropolitan areas, such as Dayton, Cincinnati, Columbus, Ohio and Indianapolis, Indiana. Because of its geographic location, Darke County is within a 90 minute or less air travel distance for 55% of the population of the United States. U.S. Route 36 and State Routes 47, 502, 571, 705, and 722 cross the county east and west, and U.S. Route 127 and State Routes 49, 118, and 503 run north and south. Darke County has 1,479.4 miles of roadway which is the most of any county in the State of Ohio. The Wabash, Stillwater, Whitewater, and Mississinawa Rivers flow from Darke County. However, the Stillwater River Watershed which includes the Greenville Creek tributary drains most of the county.

Darke County and its industries are served by the Darke County Airport near Versailles. The County, State, and Township are served by the highway systems, the CSX & R.J. Corman Railroads, and more than 15 motor freight and interstate truck lines.

Darke County's largest employers are Whirlpool Corporation, Greenville Technology, Inc., Midmark Corporation, Wayne Health Care, Fram Group, Weaver Brothers, Brethren Retirement Community, Dick Lavy Trucking, Beauty Systems Group and Norcold.

Darke County, Ohio Hazard Mitigation Plan

1.1 Population

Darke County: 51,778 (Est. Total in 2016) 2.2% loss from 2010 to 2016
52,959 (Total in 2010)

21 Incorporated Cities & Villages: 26,010 (Est. Total in 2016)

	<u>2000</u>	<u>2010</u>	<u>Est 2016</u>		<u>2000</u>	<u>2010</u>	<u>Est 2016</u>
Ansonia	1,145	1,174	1,133	New Weston	135	136	133
Arcanum	2,076	2,129	2,062	North Star	209	236	230
Bradford (part)	825	765	769	Osgood	255	302	294
Burkettsville (part)	74	74	91	Palestine	170	200	195
Castine	129	130	127	Pittsburg	392	380	378
Gettysburg	558	513	647	Rossburg	224	201	196
Gordon	190	212	207	Union City	1,767	1,666	1,620
Greenville	13,294	13,227	12,836	Versailles	2,589	2,687	2,608
Hollansburg	214	227	221	Wayne Lakes	684	718	700
Ithaca	102	136	133	Yorkshire	110	96	122
New Madison	817	892	1,066				

20 Unincorporated Townships: 25,768 (Est. Total)

Adams	Jackson	Twin
Allen	Liberty	Van Buren
Brown	Mississinawa	Wabash
Butler	Monroe	Washington
Franklin	Neave	Wayne
Greenville	Patterson	York
Harrison	Richland	

Decennial Census of Population:

1800	N/A	1860	26,009	1920	42,911	1980	55,096
1810	N/A	1870	32,278	1930	38,009	1990	53,619
1820	3,622	1880	40,496	1940	38,831	2000	53,309
1830	6,204	1890	42,961	1950	41,799	2010	52,959
1840	13,282	1900	42,532	1960	45,612	Est. 2016	51,778
1850	20,276	1910	42,933	1970	49,141		

<u>Population Breakdown 2010</u>	<u>Total</u>	<u>Percent</u>	<u>Population Breakdown Est. 2016</u>	<u>Total</u>	<u>Percent</u>
Total Population	52,959	100.0%	Total Population	51,778	100.0%
White	51,180	96.6%	White	50,543	96.3%
African-American	187	0.4%	African-American	335	0.6%
Native American	23	0.1%	Native American	103	0.2%
Asian	167	0.3%	Asian	195	0.4%
Pacific Islander	16	0.0%	Pacific Islander	0	0.0%
Other	171	0.3%	Other	128	1.2%
Two or More Races	626	1.2%	Two or More Races	577	1.1%
Hispanic (may be of any race)	589	1.1%	Hispanic (may be of any race)	756	1.5%

1.1 Climate, Geography & Environment

Darke County is cold in the winter and fairly warm in the summer. The winter precipitation is frequently in the form of snow. In winter, the average temperature is 38° F, and the average daily minimum winter temperature is 21° F. The lowest temperature on record is -23° F which occurred in Greenville on January 18, 1977. The average seasonal snowfall is about 18 inches. In summer, the average daily temperature is 80° F. The highest temperature on record was 104° F which occurred on July 7, 1977. The prevailing winds are from the northwest. The average wind speed is 12 miles per hour in spring. The average annual temperature is 60.3° F, and the average annual precipitation is 38.86 inches.

The county is in the region of Ohio that was glaciated during the Wisconsin age. Elevation ranges from 930 to 1240 feet above sea level. The highest point, about 1240 feet above sea level, is on top of a knoll about two miles southwest of New Madison. The lowest point is on a flood plain about two miles north of Bradford approximately 930 feet above sea level.

Approximately 85% of the county is drained by the Stillwater River, Greenville Creek, and the tributaries of these streams which flow into Miami County drains to the Great Miami River Basin. The northwestern part of the county is drained by the Mississinawa and Wabash Rivers. The southern part of the county is drained by tributaries of larger streams flowing into Preble County and the State of Indiana.

Because it has large, fertile areas of land, Darke County is well suited for livestock production and cash grain farming. Thirty-three soil types have been identified in the County. An increasing area of land is being converted to non-farming uses, mainly around Greenville and along highways in the southern part of the county. Poor natural drainage areas are the major limitation affecting areas in the more nearly level areas of the county. Erosion is a hazard on the gully sloping to steep areas mainly in the southern part of the county. Most of the soils are highly productive if an adequate drainage system is installed. In most areas the soils are well managed.

1.1 History

Named For

Darke County was created in 1809 and later organized in 1817. It is named for Lt. Col. William Darke, a Revolutionary War Officer, who fought many battles with Native Americans. Greenville was the site of Fort GreeneVille, constructed in 1793 by the army of General Anthony Wayne. Fort GreeneVille was named in honor of General Wayne's Revolutionary War co-patriot, General Nathaniel Greene.

The Treaty of Greenville

It was in Fort GreeneVille's military headquarters that General Anthony signed the Treaty of GreeneVille with the chiefs of 12 allied Indian tribes bringing peace to the area and opening the Northwest Territory for settlement.

Early Settlers

In 1807, Azor Scribner took over a Frenchman's abandoned cabin and other structures at Fort GreeneVille and opened a trading center.

Famous Sons and Daughters

Darke County is the birthplace of Phoebe Ann Mosey (often pronounced and spoken as "Moses"), known to the world as Annie Oakley. She was born near Willowdell in northern Darke County on August 13, 1860. Annie adopted the stage name of Annie Oakley after she met and married shooter Frank Butler and they began to tour the vaudeville circuit. Between 1885 and 1901, she starred in the Buffalo Bill Wild West Show. It was during this time that Chief Sitting Bull gave her the title of "Little Miss Sure Shot."

Lowell Thomas, well-known world traveler and radio personality, was born April 6, 1892 at Woodington, five miles northwest of Greenville. The author of 51 books and public broadcaster for both the CBS and NBC Networks, Thomas died at the age of 89.

Lieutenant Commander Zachary Lansdowne was a United States Navy Officer and early naval aviator who contributed to the development of the Navy's first lighter-than-air craft, a helium filled dirigible. He was born on December 1, 1888, in Greenville. He died in command of the Airship USS Shenandoah which crashed near Ava, Ohio, on September 3, 1925.

1.1 Tourism and Points of Interest

Fort Jefferson

General St. Clair's outpost in 1791.

Tecumseh's Point

The site of Native American encampment during the summer of 1795. It is located in Greenville.

Altar of Peace

A commemorative site of the signing of the Treaty of Greenville with Native Americans on August 3, 1795. It is located in Greenville City Park along Memorial Drive.

Arcanum Wayne Trail Historical Society

A non-profit organization dedicated to the collecting, preserving, interpreting, and disseminating the history of southern Darke County, the Village of Arcanum, and Wayne Trail located in southwestern Ohio.

Garst Museum & Historical Society

The museum contains Darke County memorabilia, exhibits, artifacts from Native Americans including the Crossroads of Destiny exhibit telling the history of the Treaty of Greenville, and early Darke County Settlers such as Annie Oakley, Lowell Thomas, and Zachary Lansdowne collections.

Versailles Area Historical Society & Museum

The museum showcases the rich history of northern Darke County.

Bears Mill

Located off State Route 36 on Arcanum-Bears Mill Road it is one of a few remaining operable grist mills: grinding corn, wheat, and oats into flour and meal. It is water-powered and open to the public.

Darke County Parks – Shawnee Nature Center/Preserve – Bish Discovery Center

The Shawnee Nature Center is the Darke County Parks Headquarters and is a 6,800 square foot building located at the Darke County Park District's 120-acre Shawnee Prairie Preserve just west of Greenville off State Route 502. The Bish Discovery Center was recently acquired from the Bish Family and is located at 404 North Ohio Street in Greenville.

The Treaty Stone

A monument, located on the public square in front of the Greenville Municipal Building, marks the approximate place where General "Mad" Anthony Wayne signed the famous Treaty of Greenville in 1795.

Henry St. Clair Memorial Hall

Built during 1910-1912, Memorial Hall is located on West Fourth Street in Greenville and is the artistic center of the county.

Zachary Lansdowne Residence

Located on East Third Street at the corner of Locust Street, it is the birthplace of Zachary Lansdowne who was commander of the U.S. Shenandoah.

Lowell Thomas Birthplace

His relocated Woodington home has been moved to the grounds of the Garst Museum on North Broadway Street in Greenville.

Annie Oakley Gravesite

The gravesite is located in Brock Cemetery on Greenville-St. Mary's Road off U.S. Route 127, north of State Route 47.

Darke County Fairgrounds

Home of the "Great Darke County Fair" it is located on the south side of Greenville along State Route 49. The nine-day county fair begins the 3rd Friday in August.

Eldora Speedway

Twelve miles north of Greenville on State Route 118, this one-half mile track includes USAC Sprints, late model races, and the Kings Royal races. Eldora hosts many of America's most outstanding annual events in Sprint car racing and is owned by famed NASCAR racer Tony Stewart.

Other Notable Points of Interest

Downing Fruit Farms

Brumbaugh Fruit Farms

Greenville City Park (featuring the State and National Horseshoe Pitching Tournament which is held annually in July)

Kitchen Aid Experience

Wineries

Versailles Winery

A.R. Winery

Kennedy's Vineyard

County Festivals

Annie Oakley Days in Greenville

Arcanum Old Fashion Days

Versailles Poultry Days

Union City State Line Heritage Days

Bradford Pumpkin Show

Steam Threshers Reunion in Greenville

The Gas Power of the Past Show north of Greenville

Fun Events

Downtown Greenville First Fridays

Rollin 50's Classics Car Show

Illumination Festival at the Darke County Fairgrounds

Sips & Sounds at the Versailles Winery
Prairie Days at the Darke County Parks
Bradford Pumpkin Show
Beggar's Night
Hometown Holiday Horse Parade in Downtown Greenville
Christmas Candlelight Walk at Bears Mill

1.1 Parks/Recreation Areas, Public Libraries & Education

The City of Greenville Parks featuring

Greenville City Park

North Park

South Park

Community Parks featuring

Ansonia Community

Arcanum – Ivestor Park

New Madison Community

Versailles Heritage

Rosburg Community

North Star Community

Gettysburg Community

Recreational Trails

Future East/West Connector Trail

Alice Bish Trail

Indiana-Ohio Gateway Trail

Gettysburg, Ohio - The Fast Mile Trail

Darke County Park District featuring

Bish Discovery Center

32-acre Coppess Nature Sanctuary

51-acre Routzong Nature Preserve

Tecumseh Point Preserve

Shawnee Prairie Reserve

Winterrowd Wetland Preserve

Ft. Jefferson Memorial Park

Alice Bish Park & Walkway

Drew Woods Preserve

Eidson Woods Preserve

Prairie Ridge Meadow

Turkey Foot Preserve

Worth Family Preserve

Donna May Campbell Preserve

Golf Courses

27-hole Beechwood Golf Course – near Arcanum

18-hole Stillwater Valley Golf Club – near Versailles

9-hole Union City Country Club – near Union City

9-hole White Springs Golf Club – near Greenville

18-hole Turtle Creek Golf Club – near Greenville

Darke County YMCA

Greenville

Versailles

Public Swimming Pool Facilities

- Greenville
- Arcanum
- Versailles

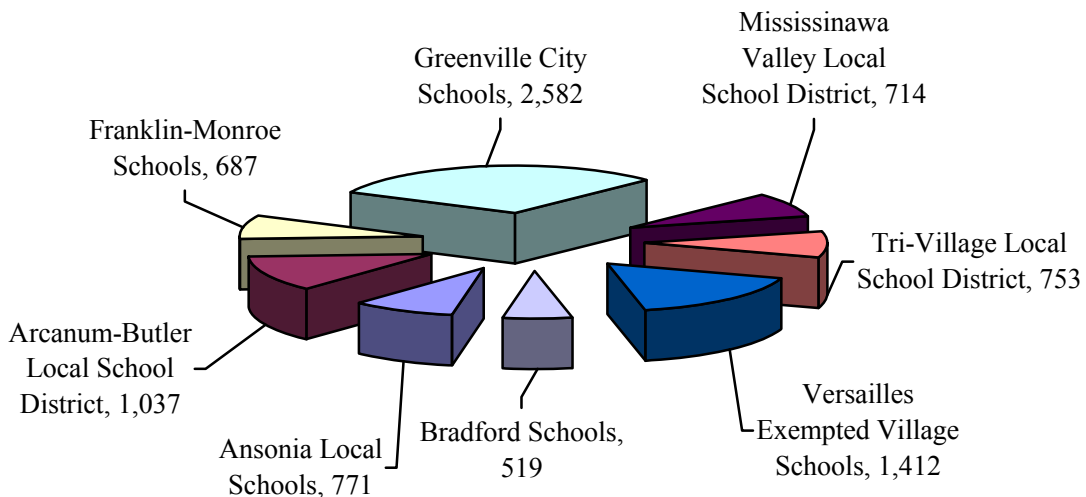
Public Libraries

- Arcanum Public Library
- Bradford Public Library
- Greenville Public Library
- New Madison Public Library
- Versailles – Worch Memorial Public Library

Education

Darke County has eight public school districts including:

<u>Public School System</u>	<u>Enrollment as of 2018</u>
Ansonia Local Schools	771
Arcanum Butler Local School	1,037
Bradford Schools	519
Franklin Monroe Local Schools	687
Greenville City Schools	2,582
Mississinawa Valley Local Schools	714
Versailles Exempted Village Schools	1,412
Tri-Village Local Schools	753
Total public-school enrollment:	8,475



The Darke County Education Services Center provides curriculum leadership and management to the County education system.

Pre-School Programming:

- Ansonia Elementary School, Ansonia
- Anthony Wayne Early Childhood Center, Greenville
- Arcanum Early Learning Center, Arcanum
- Brilliant Beginnings, Versailles
- Darke County YMCA Child Care, Greenville
- Darke county YMCA Child Care, Versailles
- Greenville High School, Greenville
- Kids Learning Place, Greenville
- Kids Learning Place, Union City
- Kinder Korner, Versailles
- Mississinawa Valley Elementary, Union City
- Rainbow Preschool, Arcanum
- The Workshop Learning Center, Greenville
- Trinity Kids Academy, Greenville

Private and parochial schools include:

- Bears Mill Farm School, Adams Township
- DeColores Montessori School, Greenville
- DeColores Montessori School – “The Farm”, Adams Township
- St. Mary’s Parochial, Greenville

Total private school enrollment: 387 Estimated

Career related schools include:

- Greenville Career Technical Program - Greenville
- Miami Valley Career Technical Center - Clayton
- Upper Valley Joint Vocational School - Piqua

Advanced education includes:

- Greenville Campus of Edison State Community College

1.1 Business and Industry

Darke County is one of the leading agricultural counties in Ohio. Major farm products include soybeans, wheat, corn, hogs, livestock, poultry, beef, and dairy products. Darke County has approximately 90% of its land in farms and ranks first in the State in corn and soybean production and second in raising hogs.

In 2016 the total employment for all industries in Darke County was 25,200 with manufacturing claiming the largest percent at 27.8%.

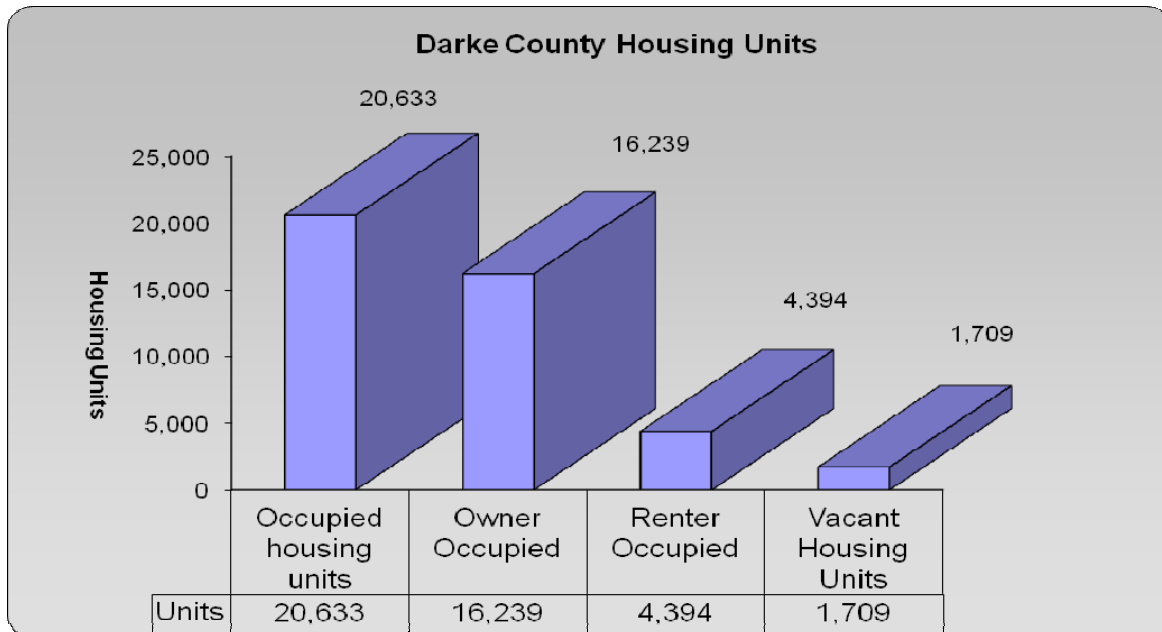
<u>Employment by Industry</u>	<u>Average Employment</u>		
Private Sector	18,326		
Goods-Producing	6,086		
Natural Resources and Mining	626		
Construction	887		
Manufacturing	4,574		
Service-Providing	10,012		
Trade, Transportation and Utilities	3,860		
Information	97		
Financial Services	679		
Professional and Business Services	874		
Education and Health Services	2,655		
Leisure and Hospitality	1,303		
Other Services	543		
Federal Government	100		
State Government	45		
Local Government	2,083		
<u>Major Employers</u>	<u>Location</u>	<u>Type</u>	<u>Number of Employees</u>
Whirlpool/KitchenAid	Greenville	Manufacturing/Sales	1,200
Greenville Technology, Inc.	Greenville	Plastic Automotive Parts Manufacturing	865
Midmark Corporation	Versailles	Medical/Dental Manufacturing	820
Fram Group	Greenville	Automotive Filter Manufacturing	450
Brethren's Retirement Community	Greenville	Retirement Services	355
Wayne HealthCare	Greenville	Hospital/Health Care	350
Dick Lavy Trucking	Bradford	Truck/Motor Freight Carrier	246
Beauty Systems Group	Greenville	Beauty Supply Distribution	220
BASF Corp.	Greenville	Automotive Coatings	154
Norcold, Inc.	Gettysburg	Recreational Refrigeration Manufacturing	150

Total Active Business (2016): 1,062

1.1 Residential Housing

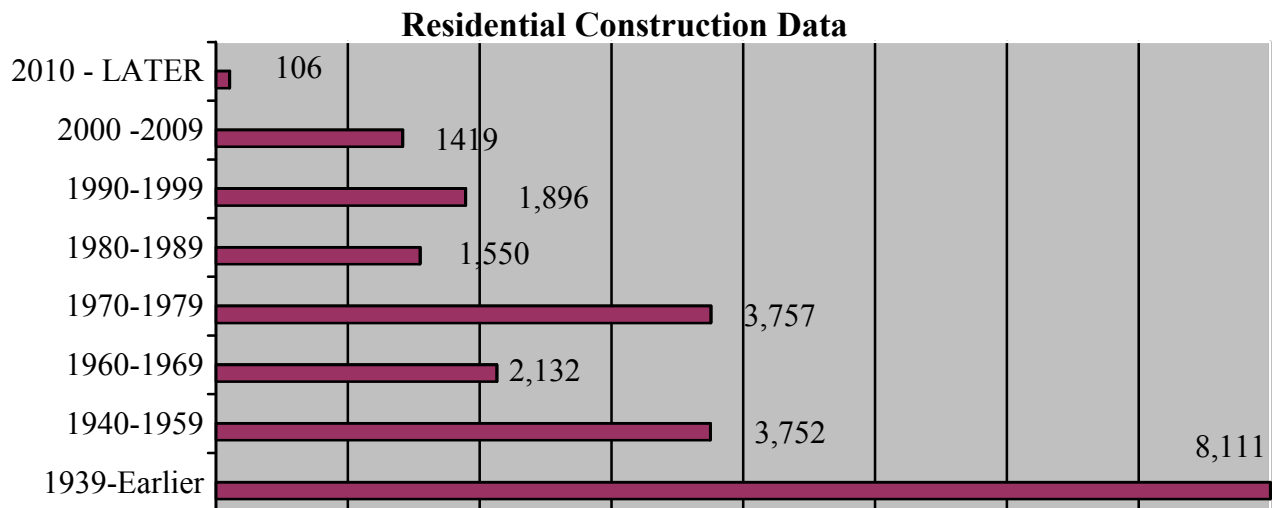
Housing Units

Residential Households	20,831
Average Household Size	2.47 persons
Detached 1 Family Units	18,587
2 Family Units	1,033
3 or 4 Family Units	585
10 to 19 Family Units	199
20 or more Units	261
Mobile Homes	884



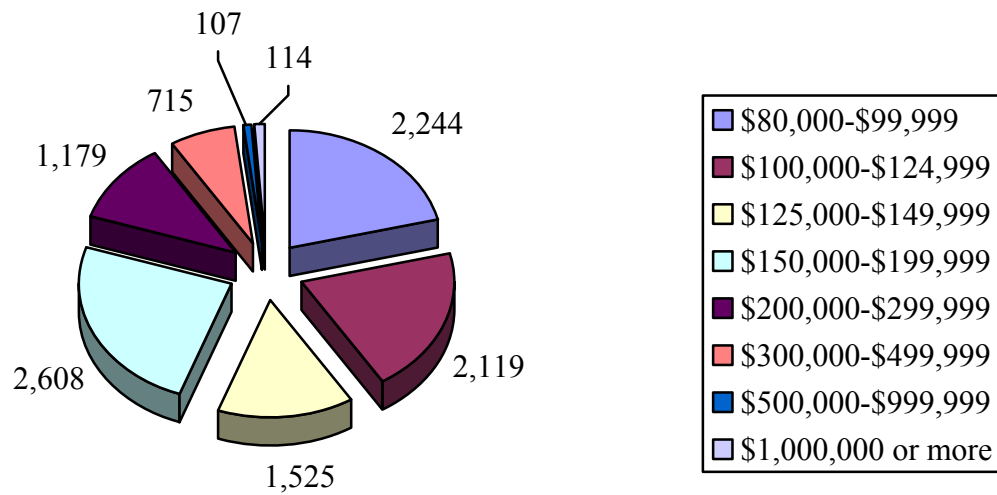
Residential Construction Data

<u>Year Structure Built</u>	<u>No. Built</u>	<u>Percent</u>
2010 & later	106	0.5
2000 to 2009	1,419	6.2
1990 to 1999	1,896	8.3
1980 to 1989	1,550	6.8
1970 to 1979	3,757	16.5
1960 to 1969	2,132	9.4
1940 to 1959	3,752	16.5
1939 or earlier	8,111	35.7



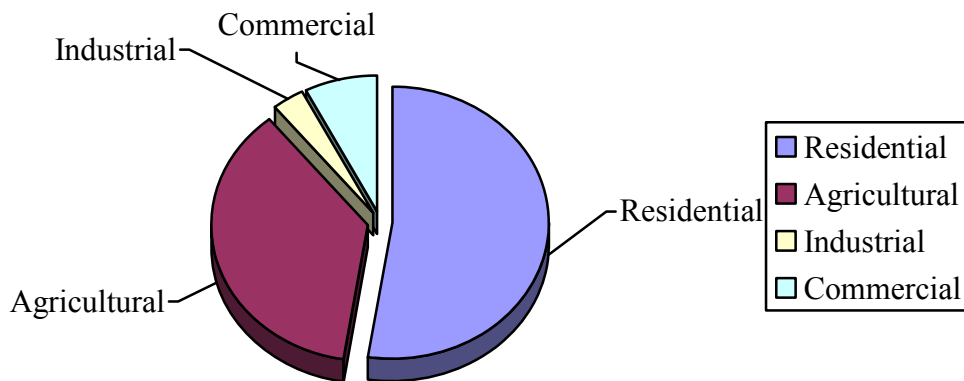
Value	No.	Percent
Specified Owner-Occupied Units	15,053	100.0
Less than \$60,000	2,196	14.7
\$60,000 to \$79,999	2,246	14.9
\$80,000 to \$99,999	2,244	14.6
\$100,000 to \$124,999	2,119	14.1
\$125,999 to \$149,999	1,525	10.1
\$150,000 to \$199,999	2,608	17.3
\$200,000 to \$299,999	1,179	7.8
\$300,000 to \$499,999	715	4.7
\$500,000 to \$999,999	107	0.7
\$1,000,000 or more	114	0.8

Darke County Home Values



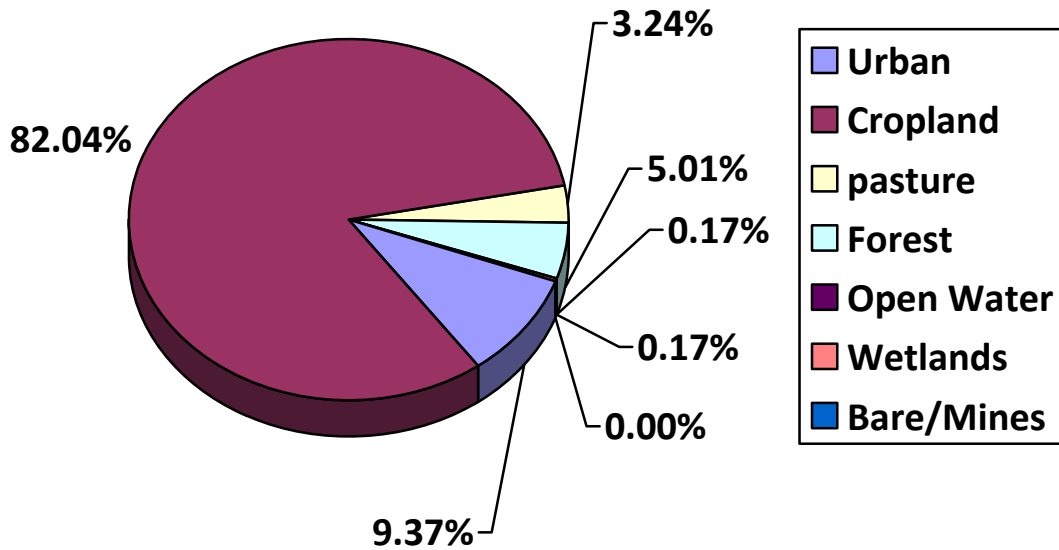
1.1 2016 Taxable Value of County Real Property
2016 Agricultural Data
2016 Land Cover in Acres

Residential	\$626,638,020
Agricultural	437,619,360
Industrial	38,403,390
Commercial	89,282,860
<u>Total:</u>	<u>\$1,191,943,630</u>



Agricultural Data	
Land in Crops	339,981 acres
Number of Farms	1,693
Average Size	201 acres
Total Cash Receipts	\$559,494,000

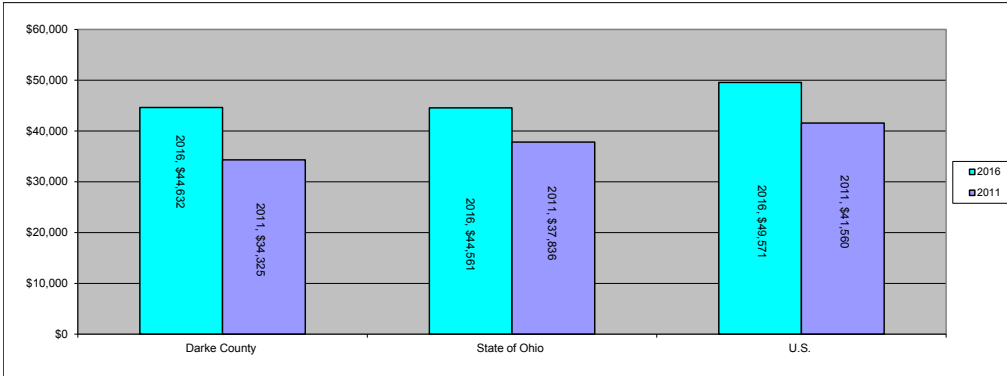
<u>Land Use/Land Cover (2016) in Acres</u>	<u>Percent</u>
Urban (Residential/Commercial/Industrial/ Transportation and Urban Grasses)	9.37%
Cropland	82.04%
Pasture	3.24%
Forest	5.01%
Open Water	0.17%
Wetlands (Wooded/Herbaceous)	0.17%
Bare/Mines	0.00%
Total Acres:	384,000



1.1 Darke County Workforce Labor Statistics

Income

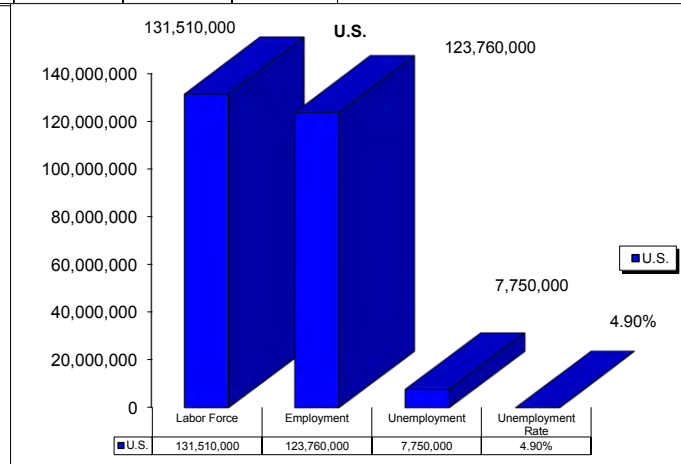
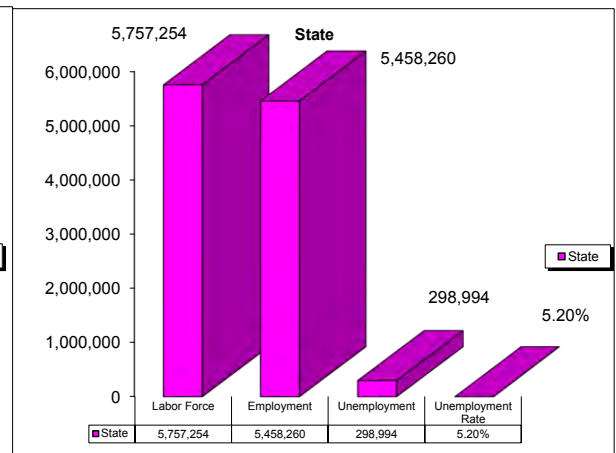
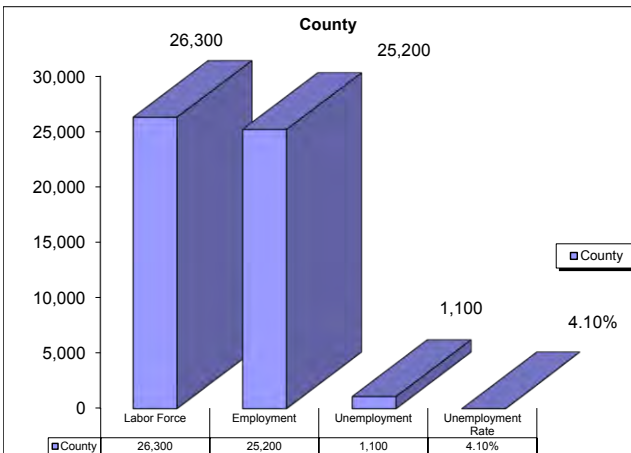
Household Income Comparisons	Darke County	State of Ohio	U.S.
Household Income 2011	\$34,325	\$37,836	\$41,560
Household Income 2016	\$44,632	\$44,561	\$49,571



Labor Force and Employment

CY 2016

	County	State	U.S.
Labor Force	26,300	5,757,254	131,510,000
Employment	25,200	5,458,260	123,760,000
Unemployment	1,100	298,994	7,750,000
Unemployment Rate	4.10%	5.20%	4.90%



Source: Darke County Profiles - State of Ohio Office of Research

1.2 Documentation of the Planning Process

Organizing the Process

The planning process to update the Darke County Hazard Mitigation Plan was provided under the leadership of:

- Mindy Saylor, Darke County Emergency Management Director
- Josh Haney, Darke County Emergency Management Deputy Director
- Mike Henderson, Mote & Associates, Inc., Consultant

The DCHMC members, through the planning process of December 2017 through June 2018, reviewed the current Darke County Hazard Mitigation Plan and addressed the county's mitigation needs in order to:

- Put together a good cross representation of public, community, and stakeholders representing all of Darke County.
- Reviewed changes and considered new hazard mitigation problems.
- Reached consensus on how to achieve a desired outcome of the county's hazard mitigation challenges.
- Gain widespread support for directing the countywide financial, technical, and human resources towards an agreed upon course of action.
- Describe the planning process and intended outcome so that the description of the planning process serves a permanent record on how decisions were reached.
- Develop a strategy to reduce losses which have been developed by consensus in a methodical and reasonable way.

Involving the Public

The DCHMC held four public planning meetings from December 2017 through May 2018. A published article appearing in the Daily Advocate on January 10, 2018, described the purpose of reviewing and updating the 5-year plan and focused on what has changed in the last five years. Another article appeared on February 17, 2018 after the DCHMC February meeting which focused on planning for catastrophe events in which Mr. Erik Martin, Staff Writer of the Daily Advocate, serves as a committee member and wrote the published articles. The public monthly meetings were intended to educate the community about the benefits of hazard mitigation planning and sought out the input of citizens during the planning process. The following public planning meetings were held at the conference room of the Darke County Emergency Management Agency which was centrally located in the county.

List of Public Planning and Workshop Meetings

Meeting	Date	Purpose	Attending
1	December 5, 2017	Kick-off Meeting	Public / DCHMC
2	January 10, 2018	Planning Meeting	Public / DCHMC
3	February 14, 2018	Planning Meeting	Public / DCHMC
4	March 21, 2018*	Planning Meeting	Public / DCHMC
5	April 25, 2018	Planning Meeting	Public / DCHMC
6	October 4, 2018	Mayors Meeting	Public Meeting
*Meeting was cancelled due to bad weather and re-scheduled for April 25, 2018.			

Copies of the published planning article, public meeting minutes, and agendas can be found in Appendix A, at the end of this Plan.

Copies of the Draft Plan are available for review on the Darke County Emergency Management website: www.darkecountyema.org. Hard copies are available for review at the County Emergency Management Agency, 5183 County Home Road, Greenville, OH, 45331, 937-548-1444 or the Darke County Board of Commissioners, County Administration Building, 520 South Broadway St, Greenville, OH, 45331, 937-547-7370.

Having a large mitigation committee of approximately 40 community leaders and representatives of various agencies, businesses, farmers, and residents with many years of experience living and working in Darke County was a huge asset in the planning process. Their input led to spirited debate and helped the DCHMC identify problems the county had faced during past hazard events. Likewise, the large committee also helped identify and promote all of the positive mitigation activities that have been completed by various agencies over the past many years since the completion of the initial Darke County Hazard Mitigation Plan was approved in 2006, updated in 2011 and again in 2018.

Neighboring Community Involvement

The Darke County Emergency Management, in addition to the public announcement, also involved all of the neighboring counties' Emergency Management Agencies to participate in the planning process. Copies of the invitations are included in Appendix A. In addition, several community agencies and businesses were invited to participate in the public planning meetings. Some of the agencies represented included:

- Edison State Community College
- Wayne HealthCare (local hospital)
- Darke Rural Electrical Cooperative (utility)
- Darke County Solid Waste District
- Daily Advocate Newspaper
- Darke County Red Cross
- County Mayors and Trustees Association

The Planning and Review Process

During the eight months of the plan review and plan update process the Darke County Hazard Mitigation Committee evaluated each section of the 2012 plan, had spirited discussions, and made recommendations for updating the 2012 Darke County Hazard Mitigation Plan. Some of the planning documents referenced to assist the DCHMC in the planning process included:

- FEMA's local Multi-Hazard Mitigation Planning Guidance
- The local Mitigation Plan Review Crosswalk
- The 2011 State of Ohio Enhanced Hazard Mitigation Plan
- Available planning documents from County and Local Municipalities

For this Plan update, it was decided that the DCHMC would primarily address natural disaster mitigation planning. At this time the DCHMC decided not to address manmade hazards as part of the Hazard Mitigation Planning update process.

The DCHMC reviewed sections of the 2012 Approved Plan and developed the mitigation strategy for the 2018 Plan update process as outlined below:

1: Review of Initial Planning Process:

- Reconvened and expanded hazard mitigation committee and inform public
- Recommended update of the community profile.
- Review hazards to determine if there are any changes to be made or additional hazards to be added.
- Reviewed the following referenced Plans to ensure coordination:
 - Darke County Emergency Operations Plan.
 - Community Comprehensive Plans, Zoning Plans, and Capital Improvement Plans.
 - Review new updated countywide Floodplain Maps.
 - Review of State Mitigation Plan and recommendation to improve the 2018 Plan Update.

2: Review of Risk Assessment Strategy Section:

- Determine if there is missing data or if more data is needed for future plan updates.
- Determine if change of conditions over the past five years warrants change of hazard priorities.
- Determine if other hazards should be added and profiled.
- Update last 5 years of weather history.
- Review repetitive losses for the county.

3: Re-assessment of Hazard Vulnerability:

- Discussion on what has changed.
- Re-evaluate vulnerability of the hazards that can affect the County.
- Identify and incorporate the changes into the updated Plan.
- Analyze probability of future events.
- Evaluate County development trends.

4: Review 2012 Plan Goals and Objectives:

- Discussion on what has changed in the last five years that may have affected vulnerability issues.
- Identify and discuss new problems.
- Review progress of current action items.
- Verify if current strategy goals and objectives are accurate or if need revised.
- Identify new action items and progress made on current action items.

- Task out priority action items.
- 5: Evaluate Plan Maintenance Process:
- Strengthen process to make it a stronger countywide collaborative effort.
 - Detail process on how the local government will incorporate the mitigation strategy into other planning mechanisms.
 - Review and modify process as necessary to continue public participation in the Plan.
- 6: Draft a Revised Plan Document:
- Review by stakeholders.
 - Modifications as recommended by stakeholders.
- 7: Plan Adoption:
- Reviews by State Emergency Management Agency, Federal Emergency Management Agency, & FEMA.
 - Make recommended revisions as requested by State EMA and FEMA.
 - Formal adoption by the Darke County Board of Commissioners and all participating communities.

Every Hazard Mitigation Committee member contributed to this Plan update, as well as the public who attended the planning workshops. Some examples of how each mitigation committee member contributed to the success of the planning process are as follows:

Past examples:

- The Versailles Village Administrator experienced the devastation of the 1980 Versailles flooding that had occurred in his village. The flood was considered to be at or near the 500-year flood level. His expertise has been invaluable in how mitigation activities such as acquiring dedicated green space along the stream corridor, removing homes, and critical structures including the water plant (flood proofing the wastewater treatment plant) has prevented future damages and interruptions to his community.
- The Arcanum Fire Chief was able to express the importance of how having good warning and communication systems and stressing the importance of having adequate building codes with his experience of the November 1982 F-3 tornado that hit his community of Arcanum.
- A participating member of the Darke County Health Department was able to describe the process of being prepared for a health epidemic such as the H1N1 virus and what could be expected should Darke County experience a future epidemic crisis.
- The Fire Chiefs and utility company committee members' representatives were able to express the importance of having quality tree maintenance programs to minimize downed trees and power lines during severe storms. These actions can reduce loss of life and injury as well as reduce property damage from severe wind storms. The Solid Waste Director explained the importance of how having good

- mitigation practices in place will reduce the amount of debris that must be moved or stored after a storm event.
- The County Zoning and Floodplain Administrator explained how having strict building regulations and having a building site review committee in place will prevent having structures built in hazardous or floodplain areas.

2018 examples:

- Darke County Sheriff's Representative discussed success of:
 - K-9 dog patrol throughout the county.
 - Active shooter drills and lockdown and coordination with the school resource officers.
 - Improvements to communication systems such as available Nixell.
 - Darke County Fairgrounds emergency action plan that has been successfully implemented.
- Greenville Safety Service Director has reported how levy improvements have protected the Greenville Wastewater Treatment Plant from flooding that has occurred in the past.
- Darke County Health Department brought forth training series available from the Darke County Health District.
- A local citizen who came forward to explain flooding he experienced in his home several times within the past several years due to adjoining property allowing the drainage way to become overgrown and not maintained.
- A representative from DP&L attended meeting to bring forth three removal and tree maintenance programs they have in place to help minimize damage by down power lines.
- Darke County EMA officials explained the annual tornado safety drill programs in place that were shared at each School District.

The DCHMC reviewed the existing planning documents, studied reports, and technical information to determine if all of the previous plan referenced documents are still pertinent if other new documents and planning mechanisms should be incorporated into the Plan.

Community Plans

A summary of the known community documents to be incorporated included those shown in the following table:

Local Planning Mechanisms

Municipality Name	Population	Planning Commission	Zoning	Comprehensive Plans	Flood Plain Ordinance	Building Code - Residential	Building Code - Commercial	NFIP	5 Year Capital Improvement Plan	Downtown Architectural Review District	Darke Co. Community Improv.	Tree Commission
Ansonia	1,133	X	X		X	X	X	X			X	
Arcanum	2,062	X	X		X	X	X	X			X	
Bradford (part)	769		X		X	*	*	X				
Burkettsville (part)	91						**					
Castine	127		X			X	X					
Gettysburg	647		X		X	X	X	X				
Gordon	207											
Greenville (City)	12,836	X	X	X	X	X	X	X	X	X	X	X
Hollansburg	221											
Ithaca	133					X	X					
New Madison	1,066		X		X	X	X	X			X	
New Weston	133					X	X					
North Star	230						X					
Osgood	294											
Palestine	195											
Pittsburg	378	X				X	X					
Rosburg	196						X					
Union City	1,620	X	X		X	X	X	X			X	X
Versailles	2,608	X	X	X	X	X	X	X	X		X	X
Wayne Lakes	700		X			X	X					
Yorkshire	122					X	X					
Unincorporated areas of Darke County including all townships	25,768	X***				X	X					

* Miami County Jurisdiction

**Burkettsville Commercial Building - Mercer County Building Department

*** All townships zoned except: Allen, Mississinawa, Patterson, Richland, York, Washington

County Plans referenced and to be a part of the Plan include:

- 2011 updated Darke County FIRM Maps
- Darke County Upper Stillwater River Watershed Plan and Environmental Assessment
- Darke County Lower Stillwater River Watershed Plan & Environmental Assessment
- Darke County Solid Waste District Plan
- 2006 Darke County Hazard Mitigation Plan
- 2012 Darke County Hazard Mitigation Plan
- Darke County Local Emergency Plan

1.3 Planning Committee

The Darke County Hazard Mitigation Planning Committee held four public meetings from December 2017 through June 2018 to guide and participate in the June 2018 planning update process of the Darke County Hazard Mitigation Plan. The Committee consists of representatives from the following public and private sectors of Darke County.

- Darke County Emergency Management Agency
- Darke County Board of Commissioners
- Darke County Mayors Association
- Darke County Township Trustees Association
- Darke County Chamber of Commerce
- Village of Ansonia, Arcanum, Hollansburg and Versailles
- Darke County EMS Association
- City of Greenville
- Darke County Extension Office
- Darke County Engineer's Office
- Darke County Building Planning, Zoning and Floodplain Administrator
- Darke County Resident Representative
- Darke County Farmer Representative
- Darke County Insurance Representative
- Darke County Newspaper/Media Representatives
- Northern Miami Valley Red Cross Representative
- Engineering/Planning Consultant
- Darke County Fire Chiefs Association
- Darke County Sheriff's Office
- Wayne HealthCare
- Public Sector Representatives
- Local Emergency Planning Committee Representative
- Darke County Solid Waste
- Darke Rural Electric Cooperative
- Darke County Health Department
- Darke County Parks
- Edison State Community College

The City of Greenville, Board of Darke County Commissioners, and numerous villages had representatives or public officials present and participating on the Darke County Hazard Mitigation Planning Committee. In addition, participation from all smaller villages and communities were documented by:

- Responses received from letters and questionnaires sent to each community mayor, clerk, or village administrator.
- Providing community action item update responses returned to the Darke County EMA.
- Receipt of updated community information provided by local fire department personnel, volunteers, or village officials.

Darke County, Ohio Hazard Mitigation Plan

- Participation by volunteers from the communities attending hazard mitigation meetings.

Attached is the 2017-2018 Darke County Hazard Mitigation Members list. Copies of the community letters, questionnaires and responses can be found in Appendix A.

Darke County Hazard Mitigation Team Roster
Updated as of 11-14-17

<i>Name</i>	<i>Representing</i>	<i>Phone Number</i>	<i>Email</i>
Beanblossom, Chad	Edison State - Greenville	937-77-7891	cbeanblossom@edisonohio.edu
Berry, Ryan	Early Bird		rberry@earlybirdpaper.com
Brewer, Dave	Township Trustee	447-3295	foxpen1@gmail.com
Cain, Matthew	Wayne Co., IN EMA	765-973-9399	mcain@co.wayne.in.us
Chalmers, Christina	Daily Advocate	569-4312	cchalmers@aimmediamidwest.com
Cook, Eric	Wayne HealthCare	569-6988	eric.cook@waynehealthcare.org
Custer, Sam	County Extension Office	548-5215	custer.2@osu.edu
Davenport, Beth	Darke Rural Electric	548-4114	bethd@darkerec.com
Davis, Alan	ODOT	548-3015	robert.davis5@dot.ohio.gov
Doseck, James	ODOT	548-3015	
Earl, Randy	American Red Cross	937-232-1065	randy.earl@redcross.org
Fourman, Krista	Solid Waste	547-0827	kfourman@co.darke.oh.us
Francis, Kyle	Village of Versailles	526-3294	kylefrancis@versaillesohio.cc
Garrison, Curt	City of Greenville	316-1023	cgarrison@cityofgreenville.org
Gump, Lynne	Darke County Red Cross	548-1002	gumpl@darkecounty.redcross.org
Hale, Rodd	Versailles City Mgr.	526-3294	RoddHale@versaillesohio.cc
Haney, Josh	Darke County EMA	548-1444	josh@darkecountyema.org
Harrison, Matt	Hollansburg Mayor	459-7279	firem73@yahoo.com
Henderson, Mike	Mote & Associates	548-7511	mhenderson@moteassociates.com
Henry, Chad	Greenville City Planning & Zoning	548-4930	chenry@cityofgreenville.org
Hines, Justin	Township Trustee	459-7963	hinesjustin@hotmail.com
Holsapple, Ted	Darke Rural Electric	417-5718	tholsapple@darkerec.com
Keiser, Dave	Littman-Thomas Ins.	548-2131	dkeiser@littmanthomas.com
Keller, John	Public Sector	548-8112/564-1020	jkeller@kellergrain.com
Martin, Erik	Daily Advocate	937-569-4314	emartin@dailyadvocate.com
Rhoades, Mike	County Commissioner	547-7370	mrhoades@co.darke.oh.us

Darke County, Ohio Hazard Mitigation Plan

Robbins, Mike	Mercer Co. EMA	419-586-4468	ema@mercercountyohio.org
Saylor, Mindy	Darke County EMA	548-1444	mindy@darkecountyma.org
Schaar, Jim	LEPC	548-5233	linwood2011@roadrunner.com
Subler, Jeff	Wayne HealthCare	547-5919	jeffrey.subler@waynehealthcare.org
Surber, Jim	Darke County Engineer	547-7375	dce@earthlink.net
Thompson, Chief Russell	Greenville FD	548-3040	rthompson@cityofgreenville.org
Troutwine, Chief Kurt	Darke County Fire Chiefs	692-8310/459-6405	kurt@troutwine-ins.com
VanFrank, Roger	Darke County Parks	548-0165	rvf@darkecountyparks.org
Vollrath, Ben	DP & L	937-331-3370	benjamin.vollrath@dplinc.com
Wein, Dennis	Darke County Health Dept.	548-4196 ext. 202	dennis.wein@darkecountyhealth.org
Welbaum, Tom	Village of Ansonia	337-6781	admin@ansoniahio.us
Wenning, Steve	Darke County EMS	548-9339	swenning@woh.rr.com
Whittaker, Chief Deputy Mark	DCSO	548-3399	mwhittaker@darkecountysheriff.org
Williams, Rhonda	OSU Extension Office	548-5215	williams.418@osu.edu
Yount, Curtis	Building/Flood Plain Mgmt.	547-7381	cyount@co.darke.oh.us

1.4 Plan Adoption

Adoption by the Board of Commissioners

Resolution

In the Matter of Resolution of Adopting the 2018 Darke County Multi-Jurisdictional Hazard Mitigation 5-Year Plan Update

WHEREAS, the Darke County Emergency Management Agency desires to be compliant with the Disaster Mitigation Act of 2000 (DMA2K) and 44CFR Section 201.6(d)(3). Said Act requires that a Hazard Mitigation Plan meeting program criteria be developed in order that the participating Darke County communities and unincorporated areas of Darke County will be eligible for future pre-disaster and post-disaster mitigation program funds (i.e. Hazard Mitigation Grant Program, Flood Mitigation Assistance Program, etc.)

FURTHER, the mitigation planning regulation at 44CFR Section 201.6(d)(3) states:

A local jurisdiction must review and revise its Hazard Mitigation Plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within five (5) years in order to continue to be eligible for mitigation project grant funding.

WHEREAS, the Darke County Emergency Management Agency established the Darke County Hazard Mitigation Committee and they have, through an organized planning process, identified local problems and mitigation activities to help reduce hazards, damages, and loss of life during a natural hazard event. Public meetings were held and a Countywide Multi-Jurisdictional Hazard Mitigation updated Plan was prepared and submitted to the Ohio Emergency Management Agency for review and comments in August 2011. Said Plan has been completed per the Ohio Emergency Management Agency recommendations. Said Plan is on file at the office of the Darke County Emergency Management Agency and is hereby formally adopted.

WHEREAS, by adopted Resolution R-47-99, the Darke County Emergency Management Agency has entered into an agreement, in the manner provided by law, under the Ohio Revised Code, as amended, and has the power to coordinate and unify the comprehensive Emergency Management activities of the participants, thereof, including the various municipal corporations and unincorporated areas of Darke County, Ohio.

For the reasons stated in the preamble hereto, which is hereby made a part hereof, this Resolution is hereby declared to be an emergency measure and shall take effect and be in force from and after its passage by the Darke County Board of Commissioners, and its adoption by the participating municipalities of Darke County.

Michael W. Rhoades, Chairman

Matthew Aultman, Vice Chairman

Signed: _____

Effective: _____

Michael E. Stegall, Member

JL _____ Page _____

Municipal Resolution No. _____**A RESOLUTION ADOPTING THE DARKE COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION 5 -YEAR PLAN UPDATE**

WHEREAS, Darke County has experienced severe damage from several natural hazards on many occasions in the past century, resulting in property loss, loss of life, economic hardship, and threats to public health and safety; and

WHEREAS, the Darke County Emergency Management Agency desires to be compliant with the Disaster Mitigation Act of 2000 (DMA2K) and 44CFR Section 201.6(d) (3). Said Act requires that a Hazard Mitigation Plan meeting program criteria be developed in order that the participating Darke County communities and unincorporated areas of Darke County will be eligible for future pre-disaster and post-disaster Hazard Mitigation Grant Program (HMGP) funding.

FURTHER, the mitigation planning regulation at 44CFR Section 201.6(d) (3) states:

A local jurisdiction must review and revise its Hazard Mitigation Plan to reflect changes in development, progress in local mitigation efforts, and changes in priorities, and resubmit it for approval within five (5) years in order to continue to be eligible for mitigation project grant funding.

WHEREAS, the Darke County Emergency Management Agency has established the Darke County Hazard Mitigation Planning Committee and they have, through an organized planning process, identified local problems and mitigation activities to help reduce hazards, damages, and loss of life during a natural hazard event; and

WHEREAS, the 2018 5-Year Plan Update recommends many hazard mitigation actions that will protect the people and property affected by the natural hazards that face Darke County; and

WHEREAS, The Darke County Hazard Mitigation Committee held monthly public planning meetings from December 2017 through June 2018 to review and revise the Plan as required by law; and will hereby be implemented, monitored, evaluated, and updated annually by the Darke County Hazard Mitigation Committee. The Darke County Board of Commissioners will be the public authority to promote and oversee the continued maintenance of this Plan.

NOW, THEREFORE, BE IT RESOLVED by the Council of the *Village/City* of _____, Darke County, Ohio, the majority of all members elected thereto concurring, that:

Section 1:

The Darke County Hazard Mitigation 5-Year Plan Update is hereby adopted as the official Multi-Jurisdictional Plan of Darke County, Ohio. By participating in the Darke County Plan and county planning process this municipality will be eligible to make application for Hazard Mitigation Grant Program (HMGP) funding

Section 2:

The Darke County Emergency Management Agency has entered into an agreement, in the manner provided by law, under the Ohio Revised Code, as amended, and has the power to coordinate and unify the comprehensive emergency management activities of the participants, thereof, including the various municipal corporations and the unincorporated jurisdictions of Darke County, Ohio; and

Darke County, Ohio Hazard Mitigation Plan

Section 3: The respective County, City, and Village officials identified in the strategy of the 5-Year Hazard Mitigation Plan Update are hereby requested to participate in addressing the recommended mitigation actions assigned to them. These officials will report annually on their hazard mitigation activities, accomplishments, and progress to the Darke County Hazard Mitigation Committee under the direction of the Darke County Board of Commissioners. This report shall be submitted to the Darke County Board of Commissioners by January 15th of each year.

Section 4 This resolution shall take effect and be in force from and after the earliest period allowed by law.

Passed/Adopted: _____
Date President of Council

Attest: _____
Clerk of Council Mayor

1.5 Plan Adoption

Adoption by Multi-Jurisdictional

It is anticipated the following public entities will adopt the final FEMA approved plan for the Darke County Multi-Jurisdiction Hazard Mitigation Plan.

Multi-Jurisdictional Plan Participation Darke County, Ohio

Participating Jurisdiction	2011 Plan		2018 Plan		Date of Adoption
	Yes	No	Yes	No	
Incorporated Areas					
Ansonia	X		X		
Arcanum	X		X		
Bradford	X		X		
Burkettsville	X		X		
Castine	X		X		
Gettysburg	X		X		
Gordon	X		X		
Greenville (City)	X		X		
Hollansburg	X		X		
Ithaca	X		X		
New Madison	X		X		
New Weston	X		X		
North Star	X		X		
Osgood	X		X		
Palestine	X		X		
Pitsburg	X		X		
Rosburg	X		X		
Union City	X		X		
Versailles	X		X		
Wayne Lakes	X		X		
Yorkshire	X		X		
Unincorporated areas of Darke County including all townships - Darke County Board of Commissioners	X		X		

Hazard Identification, Risk Assessment & Vulnerability Analysis

- 2.1 Overview
- 2.2 Hazard Mitigation Summary
- 2.3 Identifying Assets
- 2.4 Winter Storms Including Ice Events
- 2.5 Flooding
- 2.6 Tornado/High Wind Events
- 2.7 Severe Summer Storms
- 2.8 Drought
- 2.9 Invasive Species
- 2.10 Wildfires
- 2.11 Epidemic
- 2.12 Earthquakes
- 2.13 Development Trends
- 2.14 Multi-Jurisdiction Risk Assessment

2.1 Overview

Darke County is prone to many natural hazards. Darke County has experienced considerable hazard events resulting in millions of dollars of damage. In 2003 Darke County began putting together its first Natural Hazard Mitigation Plan as an overall effort to reduce future exposure to damages and meet the planning requirements of DMA 2000. The initial plan approval was reviewed and approved by FEMA on February 13, 2006 and the prior 2012 plan was approved February 28, 2012.

This section will cover:

- Identifying hazards
- Profiling hazards
- Identifying structures
- Addressing repetitive loss structures
- Overview of community's vulnerability
- Estimating potential losses
- Analyzing development trends
- Multi-Jurisdictional Risk Assessment

Identifying Hazards

Section 201.6(c)(2)(i) requires the risk assessment include a description of the type of all natural hazards that can affect Darke County. This section of the plan presents a list of potential natural hazards that may likely impact Darke County. Darke County is primarily rural; however, it is vulnerable to a number of hazards that threaten its' communities, businesses, agribusinesses, public entities, and environment. To determine the hazards that pose the greatest threat to the county, the Darke County Mitigation Committee updated the list of potential hazards by conducting a review of several key resources which include:

- Review of historical data on events that have occurred since the 2012 Plan Update.
- Review of 2006 and 2012 Darke County plan data.
- Review of the State Hazard Mitigation Plan data.
- Collaboration with community experts and agencies on different hazards including representatives from County Board of Commissioners, County Municipalities, County EMA, County Engineer, County Health District, City/Village Representatives, County Planning & Zoning, County Park District, Community EMS agencies, Public at Large, Northern Miami Valley Red Cross Chapter, Conservancy District, local Community College and other State and Local Agencies.
- Review of past events and state and federal declared disasters.
- Review of the Darke County Emergency Management Data.
- Newspaper articles and internet research.
- County Auditor data.
- Local Planning Documents.

Profiling Hazards

Section 201.6(c)(2)(i) requires that the risk assessment shall include a description of the location and extent of all-natural hazards that can affect Darke County including information on previous occurrences of hazard events, as well as the probability of future hazard events, using maps where appropriate. The risk assessment relies upon information about past hazard events from published sources such as NOAA, USGS, USACE, Ohio EMA, ODNR, and Darke County Records, as well as other agencies.

The risk assessment section for each hazard in this plan includes a description of the location or geographic area that would be affected and areas where it could occur; the extent of magnitude or severity of potential hazard events; the range of magnitude or severity expected of the hazard; past occurrences; and a discussion of probability of future hazard events.

Assessing Vulnerability of Darke County

Section 201.6(c)(2)(ii) requires a description of each jurisdiction's vulnerability to the hazards described and the description shall include an overall summary of each hazard and its impact on the community. The County Hazard Mitigation Committee determined which structures were considered critical facilities during a disaster. Critical facilities are defined as a facility whose use is necessary during response and recovery efforts following a disaster.

Addressing Repetitive Loss Structures

Section 201.6(c)(2)(ii) requires that the risk assessment also address National Flood Insurance Program (NFIP) insured structures that have been repetitively damaged by floods. Darke County has identified one repetitive loss structure located within the City of Greenville and one within Greenville Township.

Identifying Structures

Section 201.6(c)(2)(ii) of the risk assessment recommends inclusion of a description of vulnerability in terms of and analysis of the county's vulnerability to the hazards described in this paragraph (c)(2) based on estimates provided in local risk assessments. The county shall describe vulnerability in terms of the communities most threatened by the identified hazards, and most vulnerable to damage and loss associated with hazard events. The methodology for this section varies by hazard due to available data and will be more thoroughly discussed within the results of the section for each hazard. Data for various building stock is still needed, but future resources and programming will become more readily available.

Estimating Potential Losses

Section 201.6(c)(2)(ii) of the risk assessment recommends inclusion of a description of vulnerability and analysis of potential losses to identified structures based on estimates. The methodology for this section varies by hazard due to available data and will be more thoroughly discussed within the section for each hazard.

Analyzing Development Trends

Section 201.6(c)(2)(ii) of the risk assessment recommends inclusion of descriptions of vulnerability in terms of providing a general description of land uses and development trends within each community participating in the plan. The County development is generally within the existing City of Greenville and larger villages, including Arcanum and Versailles, that have sanitary sewer and water systems which will support development. This is discussed in more detail within the analyzing development trends section.

Multi-Jurisdictional Risk Assessment

Section 201.6(c)(2)(ii) indicates that the risk assessment must assess each jurisdiction's risk where they vary from the risks facing the entire planning area. This requirement is addressed in detail within the section.

Update Summary

The risk assessment identified a comprehensive list of natural hazards. Developing this data was a collaborative process involving several county agencies. For the 2018 update, the existing analyzed hazards were reviewed for accuracy and availability of improved data. Based on the review it was determined that the following updates be made:

- Updated or added the following natural hazards:
 - Updated: Included ice events with severe winter storms.
 - This has been an update to Winter Events including storms, heavy snow, cold/wind chill, frost/freeze and ice.
 - Updated: Wildfires, epidemics, and infestation to the list of natural hazards that may affect Darke County.

Table 2.1a

Darke County Hazards
Winter Storms
Flooding
Tornados/High Wind Events
Severe Summer Storms
Droughts
Invasive Species
Wildfires
Epidemics
Earthquakes

- Dam failures, Item 21: from the Hazard Potential Identification Summary List was reviewed and it was determined this hazard risk is minimal as discussed on page 43 and would have little or no impact the county population centers.

2.2 Hazard Identification Summary

The hazards evaluated by the Darke County Hazard Mitigation Committee to determine whether they could potentially affect the county include:

- | | |
|--------------------------------------|----------------------------|
| 1. Coastal Erosion | 13. Tornadoes |
| 2. Droughts | 14. Wildfires |
| 3. Earthquakes | 15. Tropical Cyclones |
| 4. Floods | 16. Snow Avalanches |
| 5. Storm Surges | 17. Extreme Summer Weather |
| 6. Landslides | 18. Expansive Soils |
| 7. Land Subsidence | 19. Tsunami |
| 8. Invasive Species | 20. Volcanoes |
| 9. Severe Thunderstorms | 21. Dam Failures |
| 10. Windstorms | 22. Terrorism |
| 11. Hailstorms | 23. Epidemics |
| 12. Severe Winter Weather/Ice Storms | |

The list was re-evaluated, paying special attention to the likelihood of future occurrence and the fact that many of the identified hazards are interrelated (i.e. wildfires can be a result of high winds and drought conditions). Following this, the list of hazards was reduced to the hazards that are most likely to affect the County and are most likely to pose more serious threats.

Research materials included referencing local newspapers, Darke County Historical Records, interviewing County Agency officials, township and village officials, Darke County Emergency Management Agency files, as well as State Agency and online internet website information, such as National Climatic Data Center (NCDC) climate resources.

The hazard research initiated by the Darke County Hazards Mitigation Planning Committee identified several hazards that will be addressed in the County's Hazards Mitigation Plan. These hazards were identified in the 2012 FEMA Plan Application and were updated in 2018 through an extensive process that researched past disasters; countywide public meetings and workshops to solicit input; attended countywide mayor and township association meetings; utilized existing Emergency City Operations Plans; County, City and Village Comprehensive Development Plans; Village Township Zoning and Subdivision Plans; local Fire Department E.O.C. Plans; and current updated FIRM Floodplain Maps; Darke County Hazard Mitigation Plan; State of Ohio Mitigation Plan; Darke County Upper Stillwater Watershed Plan and Environmental Assessment; Darke County Lower Stillwater River Watershed Plan and Environmental Assessment; Stillwater River Watershed Protection Plan, Risk Assessments completed by the Darke County Emergency Management Agency and consultant, Mote & Associates, Inc., and internet websites.

The committee members also consulted community experts such as the city and village Floodplain Managers, Darke County Emergency Management staff, Darke County Engineer, Darke County Soil and Water Conservation District Office, Darke County Extension Office, Darke County Engineer, Darke County Health Department, Darke County Fire Departments, and Rescue personnel.

For the purpose of ranking hazards affecting the County, in order of importance for mitigating their effects, the FEMA hazard index was assigned on a scale of 1-5, with 5 being the highest priority for considering mitigation goals (highest, high, medium, low, and lowest). This index takes into account the anticipated frequency of occurrence, the specific consequences of impact, whether there has been a past declaration for that particular hazard. The process is somewhat subjective, but is intended to assist the Committee to help prioritize mitigation goals based on the potential frequency and likely extent of damage from hazards known to affect the County.

It is important to note that Hazard Identification Risk Assessments, HIRAs, are developed for different purposes. For the purposes of emergency planning and similar functions, the Darke County Hazard Mitigation Committee made updates to the current HIRA as resources would allow. It prioritized hazards utilizing criteria developed to facilitate emergency planning. These criteria include frequency, duration, speed of onset, magnitude, impact on business, impact on people, and impact on property. This method assigned a numerical value to vulnerability based on the criteria of impacts on businesses, people, and property. Previously, Ohio HIRA placed more emphasis on life safety issues versus the HIRA performed for the Darke County Hazard Mitigation purposes which place a similar high priority on property/facility damage. Both methods and results tended to closely mirror each other.

Once the hazard ranking was complete an assessment was conducted to narrow the field of hazards (See Table 2.1.a). Several hazards were deleted from the list based on the unlikelihood of occurrence and the potential for a negligible impact on the county should they occur. These include coastal erosion, storm surges, landslides, land subsistence, tropical cyclones, snow avalanches, tsunami events, and volcano events. The Committee also discussed Item 21, Dam Failure, Hazard Identification Summary. According to the Ohio Dam Safety Program locator map, Darke County does not have any Class I dams and only three Class II dams. The three Class II dams are:

- 1) Wabash structure No. 1: dam located in Allen County with a pool of 57 acres.
- 2) The Ansonia sewage lagoon 1: dam with a pool of 10 acres located in Brown Township.
- 3) Paul's Lake: private dam located in Adams Township with a normal pool area of 4 acres.

Because these three dams are located in rural agricultural townships with minimal risk of property damage and loss of life, it was determined that dam failures would not be profiled within the Plan.

Other hazards were combined, as many of them are factors in larger hazards. The final hazard list includes 9 hazards for Darke County, which are listed in order of importance below.

1. **Winter Events Including Storms, Heavy Snow, Cold/Wind Chill, Frost/Freeze and Ice (4)** – which includes snowstorms, ice storms, heavy snow, extreme cold, frost/freeze and any other winter precipitation and events. There have been three federal declarations for this type of disaster.

2. **Flooding** (4) – which includes flash flooding and normal riverine flooding. There have been several past declarations for tornadoes and high wind events resulting from severe thunderstorms.
3. **Tornadoes/High Wind Events** (4) – which includes windstorms. There has been one past federal declaration for high wind remnants from Hurricane Ike.
4. **Severe Summer Storms** (4) – There are many factors associated with severe thunderstorms. In Ohio the primary disaster factors for severe thunderstorms have been flooding, tornadoes and high wind events, all of which have been addressed separately. Other aspects of severe thunderstorms (hail and lightning) are not as pressing in the overall mitigation process. There have been five past federal declarations for severe storms.
5. **Drought and Extreme Heat** (3) – there have been no federal declarations for droughts to date.
6. **Invasive Species** (3) – there have been no federal declarations for invasive species to date.
7. **Wildfires** (3) – there have been no federal declarations for wildfires to date.
8. **Epidemic** (2) – there have been no federal declarations for epidemic to date.
9. **Earthquakes** (2) – there have been no federal declarations for earthquakes to date.

This plan discusses each of the hazards in more detail. Technological hazards that may affect Darke County have not been addressed in this plan.

Table 2.2.a

Hazard Index Ranking				
Frequency of Occurrence	Catastrophic	Critical	Limited	Negligible
Very Likely	5 (Highest)	4 (High)	4 (High)	3 (Medium)
Likely	5 (Highest)	4 (High)	3 (Medium)	2 (Low)
Possible	4 (High)	3 (Medium)	2 (Low)	2 (Low)
Unlikely	3 (Medium)	2 (Low)	1 (Lowest)	1 (Lowest)
Highly Unlikely	2 (Low)	1 (Lowest)	1 (Lowest)	1 (Lowest)

Source: FEMA 1997

Table 2.2.b

Frequency of Occurrence	
<i>Highly Likely</i>	Near 100 percent probability in the next year.
<i>Likely</i>	Between 10 and 100 percent probability in the next year, or at least one chance in the next 10 years.
<i>Possible</i>	Between 1 and 10 percent probability in the next year, or at least one chance in the next 100 years.
<i>Unlikely</i>	Less than 1 percent probability in the next year, less than one chance in the next 100 years.
<i>Highly Unlikely</i>	Little or no probability in the next 100 years.

Source: FEMA 1997

Table 2.2.c

Consequences of Impact	
<i>Catastrophic</i>	Multiple deaths, complete shutdown of facilities for 30 days or more, more than 50 percent of property is severely damaged.
<i>Critical</i>	Multiple severe injuries, complete shutdown of critical facilities for at least 2 weeks, more than 25 percent of property severely damaged.
<i>Limited</i>	Some injuries, complete shutdown of critical facilities for more than a week, more than 10 percent of property severely damaged.
<i>Negligible</i>	Minor injuries, minimal quality-of-life impact, shutdown of critical facilities and services for 24 hours or less, less than 10 percent of property is severely damaged.

Source: FEMA 1997

Table 2.2.d

Hazard Ranking Assessment				
Hazard	Past Federal Declarations	Frequency	Impact	Hazard Ranking
Natural Hazards				
Coastal Erosion	No	Highly Unlikely	Negligible	1
Droughts / Extreme Heat	No	Likely	Limited	3
Earthquakes	No	Possible	Limited	2
Floods	Yes	Highly Likely	Critical	4
Seiche / Coastal Flooding	No	Highly Unlikely	Negligible	1
Landslides	No	Unlikely	Negligible	1
Land Subsidence	No	Possible	Negligible	2
Invasive Species	No	Likely	Limited	3
Severe Thunderstorms	No	Highly Likely	Critical	4
Windstorms	Yes	Highly Likely	Critical	4
Hailstorms	No	Likely	Critical	2
Lightning	No	Likely	Limited	3
Severe Winter Weather / Ice Storms / Extreme Cold	Yes	Highly Likely	Critical	4
Tornadoes	No	Highly Likely	Critical	4
Wildfire	No	Likely	Limited	3
Tropical Cyclones	No	Highly Unlikely	Negligible	1
Snow Avalanches	No	Highly Unlikely	Negligible	1
Extreme Summer Weather	No	Likely	Negligible	2
Expansive Soils	No	Unlikely	Negligible	1
Tsunami	No	Highly Unlikely	Negligible	1
Volcano	No	Highly Unlikely	Negligible	1

2.3 Identifying Assets

The Darke County Hazards Mitigation Committee identified critical facilities located in the county and the hazards to which these facilities are susceptible. The Darke County Natural Hazard Mitigation Planning Committee determined that the essential services facilities list included essential products and services to the general public and which is necessary to preserve the welfare and quality of life in the county. The attached maps show critical facilities and essential services necessary to fulfill important public safety, emergency response, or disaster recovery functions. These essential facilities include major north/south highway U.S. 127 and major east/west highway U.S. 36. Other important highways include St. Rt. 49, 118, 121, 185, 364, 502, 503, 571, 705, 716, 721, 722, and 726. In addition, there are over 529 county bridges, 520 county miles, and 550 township miles of roadways to serve county residents and emergency service personnel. Former State Route 242 was changed to a county road in 2018 and is no longer a state highway.

List of Essential Services/Critical Facilities Identified

The Darke County Hazards Mitigation Committee determined that critical facilities and essential services are public or private entities that provide either essential or critical products and services to the general public. These services and products are necessary to preserve and protect the welfare and quality of life for Darke County residents. They maintain the quality of life in the county and fulfill the public safety, emergency response, and/or disaster recovery operations.

1. Emergency Life and Rescue Services (EMS)
2. Fire Departments
3. Police Departments
4. Darke County Sheriff's Department
5. Darke County Emergency Management Agency
6. Northern Miami Valley Red Cross Chapter
7. Government Centers, Municipal Buildings and Township Buildings and Services
8. Water Treatment Plants and Water Lines
9. Wastewater Treatment Plants and Sanitary Sewer Systems
10. Utilities such as natural gas, power, telephone, and communication lines and towers
11. Wayne HealthCare and outlying community care facilities
12. Residential health care and assisted living facilities
13. County Highway Department Facilities
14. State Highway Department Facilities
15. Buildings designated as storm shelters such as schools and community centers
16. Emergency supply points such as product supply stores, supermarkets and fuel stations, home improvement centers, and lumber yards
17. Public roadways and bridges

The Darke County Emergency Management Agency has used AutoCAD program to map the counties critical facilities and essential services and also to determine which critical facilities are most likely to be affected by various hazards. The analysis revealed the following:

1. High risk structures or facilities vulnerable to more than one hazard. High risk essential services located or partially located in FEMA flood plan districts.
 - Ansonia Wastewater Treatment Plant and Water Treatment Plant – Stillwater River
 - Greenville Wastewater Treatment Plant Facilities – Greenville Creek
 - Gettysburg Water Treatment Plant
2. High risk buildings and events due to a large number of people (tornadoes, severe storms).

Seasonal events:

- Eldora Speedway
- Darke County Fairgrounds
- Several larger campgrounds

Well attended festivals and events:

- Annie Oakley Days and Gathering at the Garst, Greenville
- Steam Threshers Review and the Power of the Past (mid-July) Greenville and U.S. 127 North in Greenville/Richland Townships
- Versailles Poultry Days (June)
- Bradford Pumpkin Show (October)
- Arcanum Old-Fashion Days (June)
- State Line Heritage Days, Union City (August)
- The Great Darke County Fair, Greenville (mid-August)

3. Facilities that could cause potential environmental damage if struck by a tornado or earthquake:
 - BASF Corporation
 - Farm service chemical supply service centers
 - Agricultural bulk fertilizer facilities
 - Bulk propane storage facilities
 - Bulk oil facilities
4. Dams (flooding):
 - Wabash Conservancy District Lake and Dam
5. Schools (see Schools Map)
6. Health Care Facilities (see Health Care Facilities Map)
7. Wayne HealthCare (see Health Care Facilities Map)
8. Mobile Home Parks (vulnerable to severe storms and tornadoes) Low-Moderate Income Housing Complexes and Mobile Home Parks (see Mobile Homes Map)

9. Campgrounds (see Campgrounds Map)
10. Townships (see Townships Map)
11. Darke County Sheriff's Department (see Emergency Services Map)
12. County Sherriff & Police Departments (see Emergency Services Map)
13. Water Treatment Plants (see Water and Wastewater Treatment Facilities Map)
14. Wastewater Treatment Facilities (see Water & Wastewater Treatment Facilities Map)
15. Rescue/Life Squads (see Emergency Services Map)
16. County Fire Departments (see Emergency Services Map)
17. Suppliers:
 - Ace Hardware, 1241 Russ Road, Greenville, Ohio
 - Ace Hardware, State Route 121, Versailles, Ohio
 - Ansonia Lumber Company, 300 S. Main St., Ansonia, Ohio
 - Arcanum Hardware, 210 S. Main Street, Arcanum, Ohio
 - Barga's Sales & Service, 4672 State Route 121 South, Greenville, Ohio
 - Didier Hardware & Plumbing, 35 West Main Street, Versailles, Ohio
 - Flaig Lumber Company, 217 W. Wayne St., New Madison, Ohio
 - Lowe's Home Improvement Warehouse, 1550 Wagner Avenue, Greenville, Ohio
 - North Star Hardware, 169 S. Main St., North Star, Ohio
 - Rural King, 695 Wagner Ave., Greenville, Ohio
 - Tractor Supply Company, 1415 Wagner Avenue, Greenville, Ohio
 - Worch Lumber, Inc., 36 N. Steffin St., Versailles, Ohio

The following maps outline Darke County's City, Villages, and major roadway areas of the County where these essential services/critical facilities are located. These maps, where overlaid, indicate areas of greater vulnerability to natural hazard events.

INDEX TO MAPS:

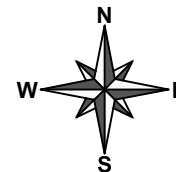
- Darke County Townships (see map on page 50)
- Darke County Schools (see maps on pages 51-52)
- Darke County Health Care Facilities (see map on page 53)
- Darke County Emergency Services (see map on page 54)
- Darke County Mobile Home Parks (see map on page 55)
- Darke County Campgrounds (see map on page 56)
- Darke County Water & Wastewater Treatment Facilities (see map on page 57)

VICINITY MAP

NO SCALE



DARKE COUNTY TOWNSHIPS



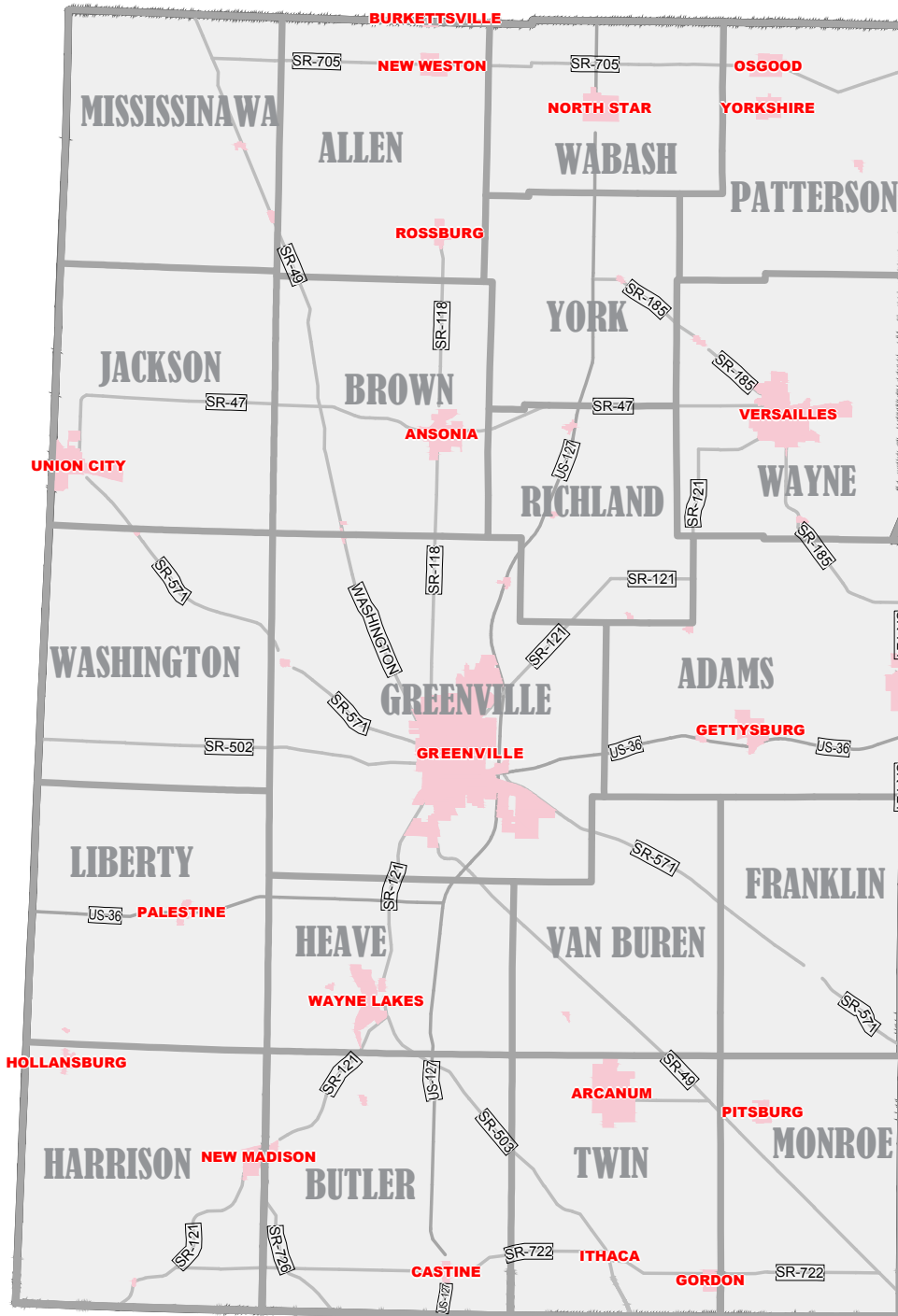
MAP LEGEND

TOWNSHIPS

MAJOR ROADWAY

MINOR ROADWAY

CITY / VILLAGE



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Email: info@moteassociates.com

Website: www.moteassociates.com

DRAWN BY: CMB | DATE: 6/15/18

SCALE: 1" = 22,000'

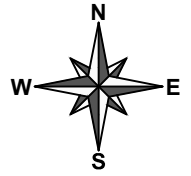


22,000 FEET 0 22,000

VICINITY MAP
NO SCALE



DARKE COUNTY SCHOOLS
(WITHIN GREENVILLE CORPORATION LIMIT)



MAP LEGEND

● SCHOOL

- MAJOR ROADWAY
- MINOR ROADWAY
- CITY / VILLAGE
- COUNTY

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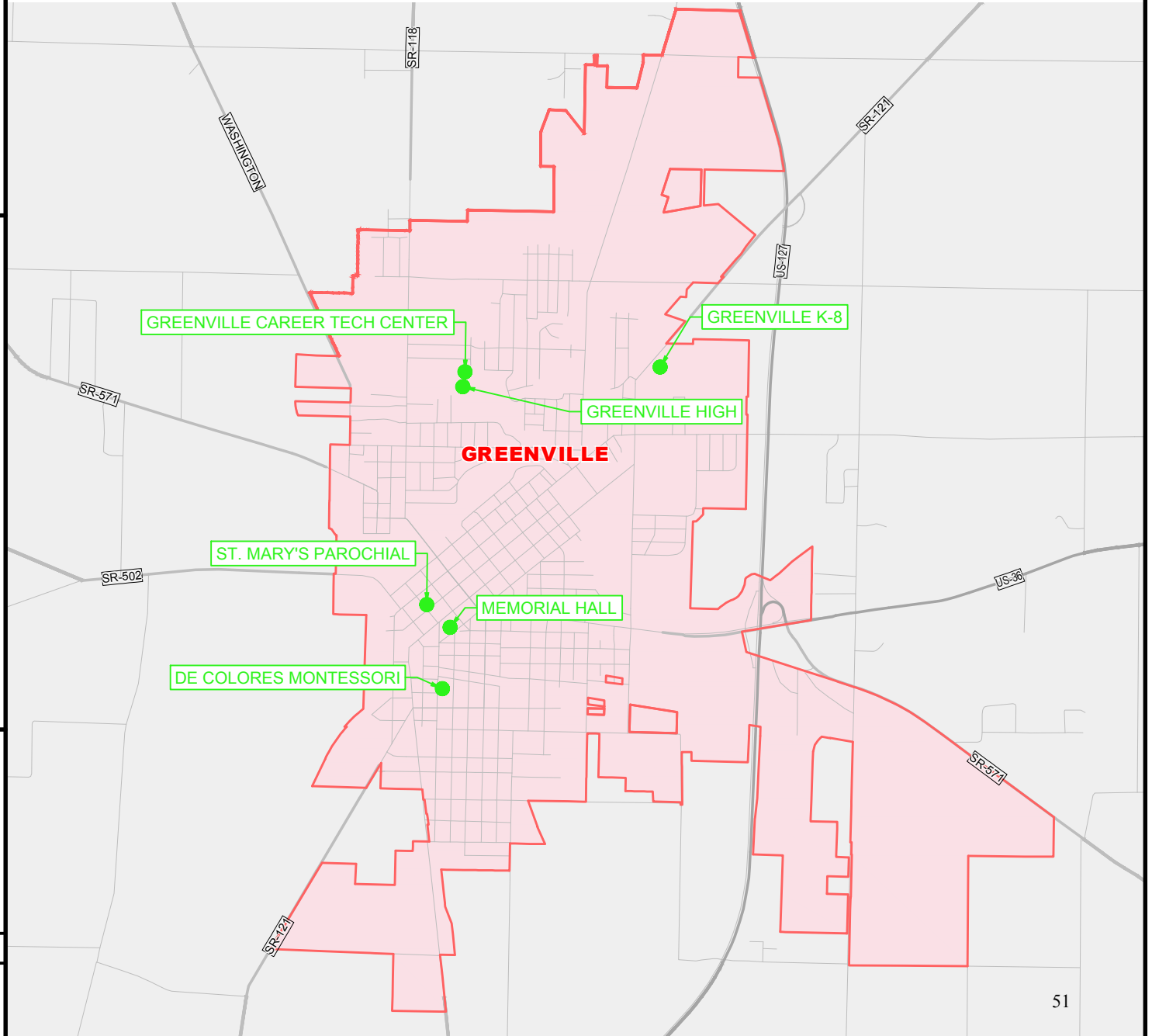
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Fax: (937)-548-7484
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Website: www.moteassociates.com

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SCALE: 1" = 3,500'



3,500 FEET 0 3,500

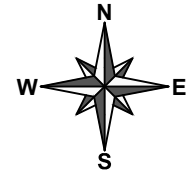


VICINITY MAP
NO SCALE



DARKE COUNTY SCHOOLS

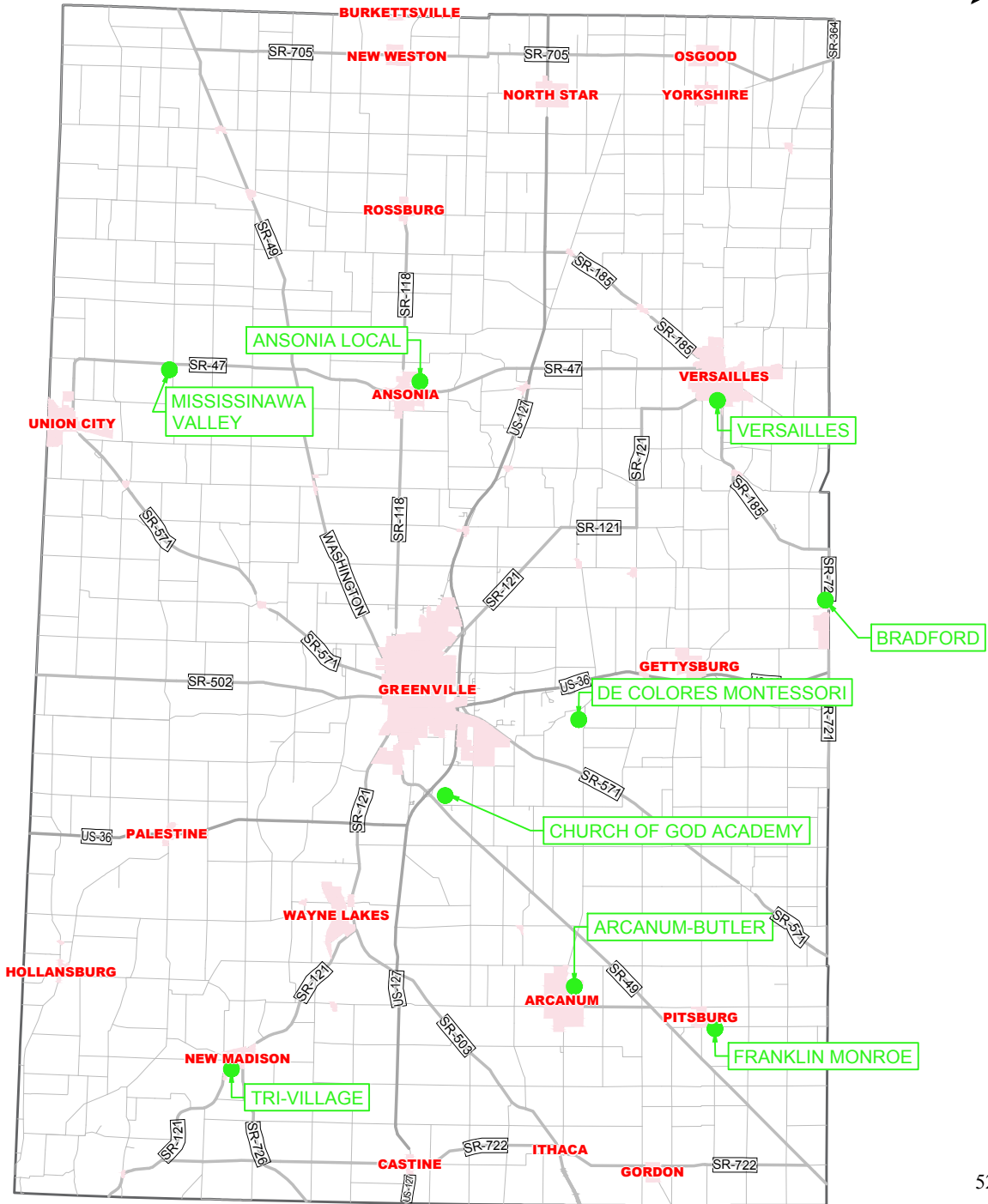
(EXCLUDING SCHOOLS WITHIN GREENVILLE CORPORATION LIMIT)



MAP LEGEND

● SCHOOL

- MAJOR ROADWAY
- MINOR ROADWAY
- CITY / VILLAGE
- COUNTY



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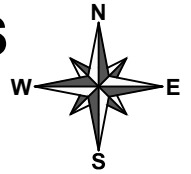


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VICINITY MAP
NO SCALE



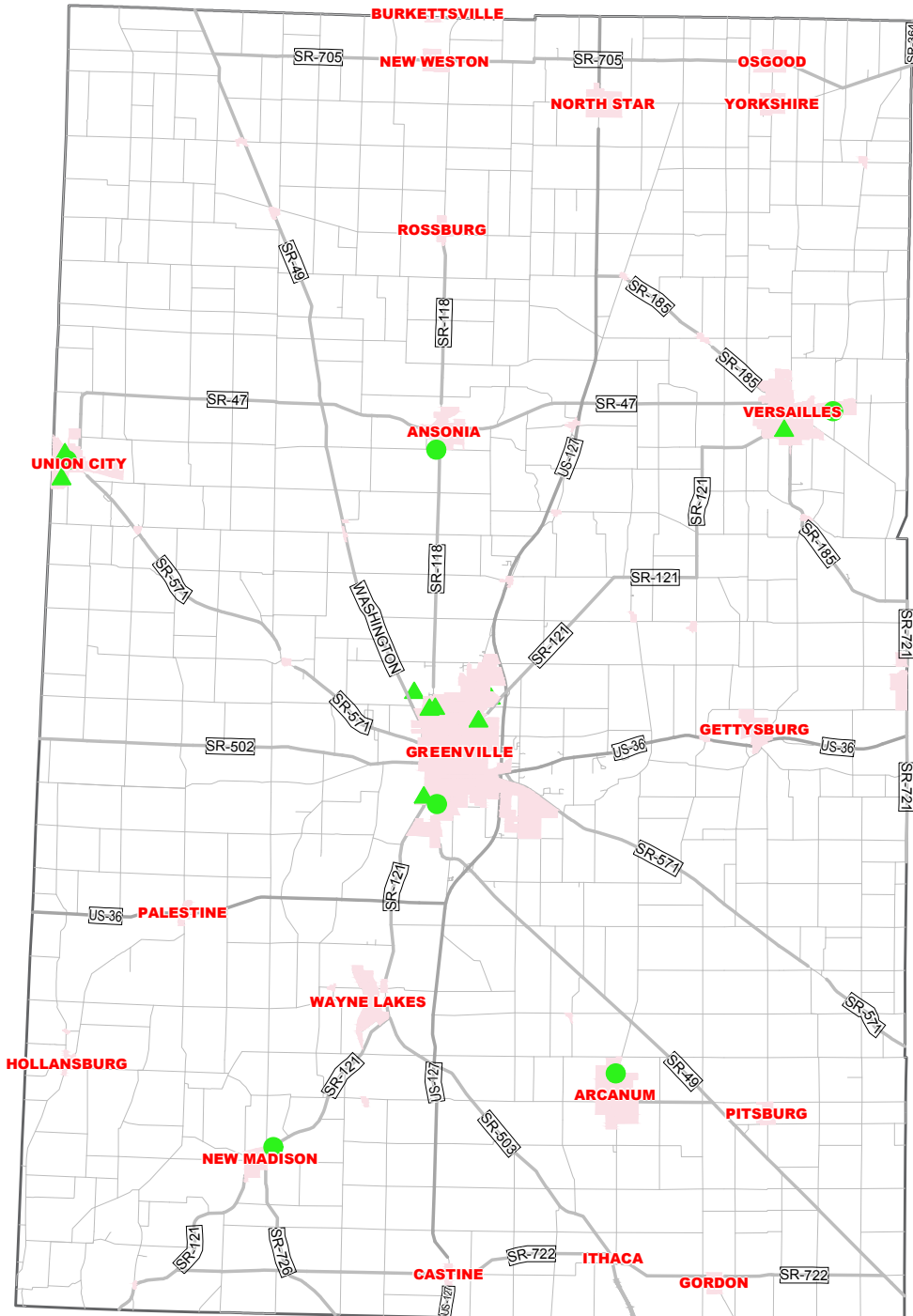
DARKE COUNTY HEALTH CARE FACILITIES



MAP LEGEND

- MEDICAL CENTER
- ▲ RESIDENTIAL HEALTH CARE FACILITY

- MAJOR ROADWAY
- MINOR ROADWAY
- CITY / VILLAGE
- COUNTY



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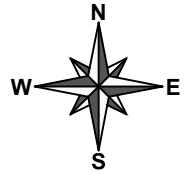


22,000 FEET 0 22,000

VICINITY MAP
NO SCALE



DARKE COUNTY EMERGENCY SERVICES



MAP LEGEND

● EMERGENCY SERVICE

- MAJOR ROADWAY
- MINOR ROADWAY
- CITY / VILLAGE
- COUNTY

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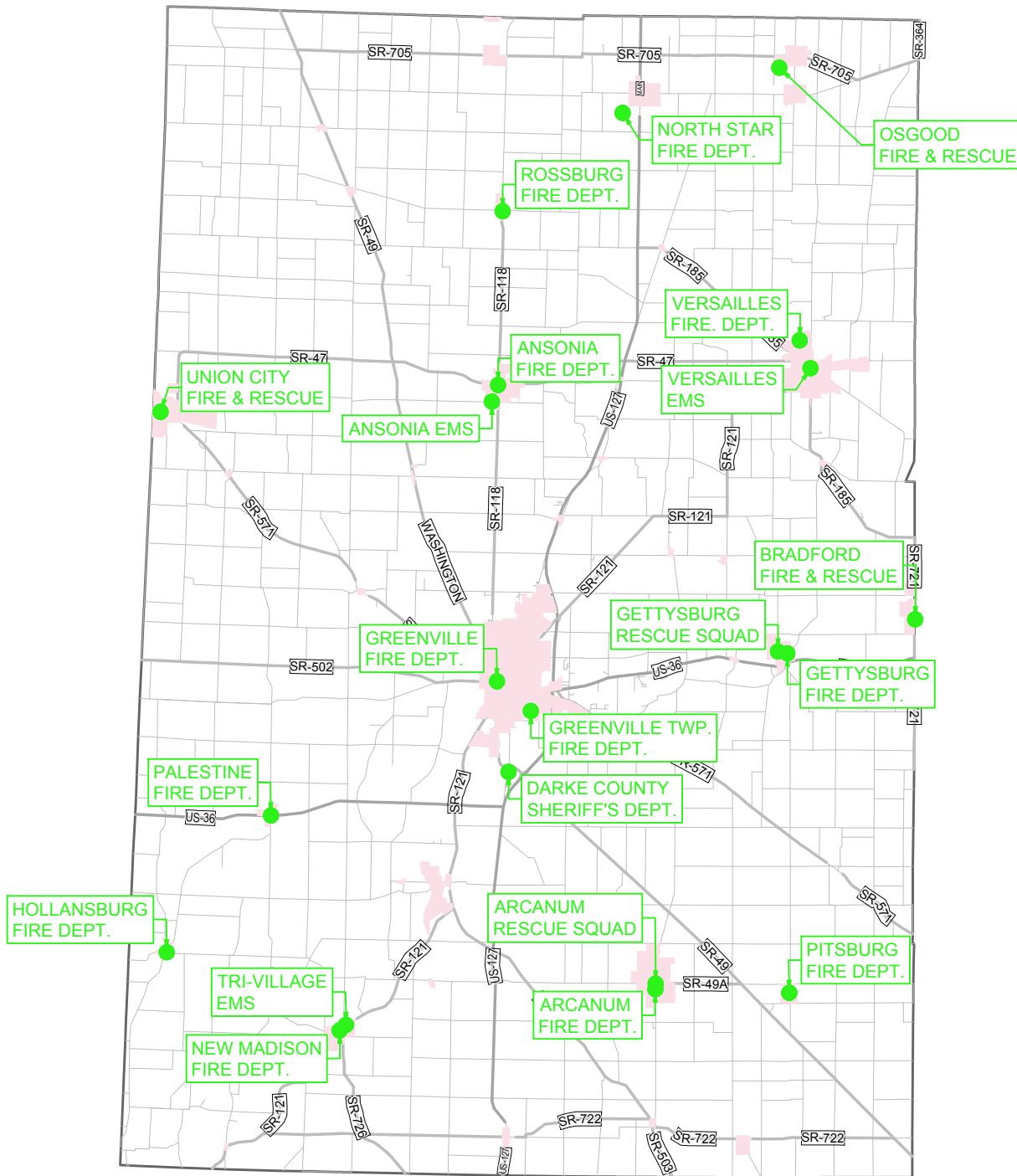
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SCALE: 1" = 22,000'



22,000 FEET 0 22,000





VICINITY MAP
NO SCALE




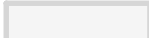


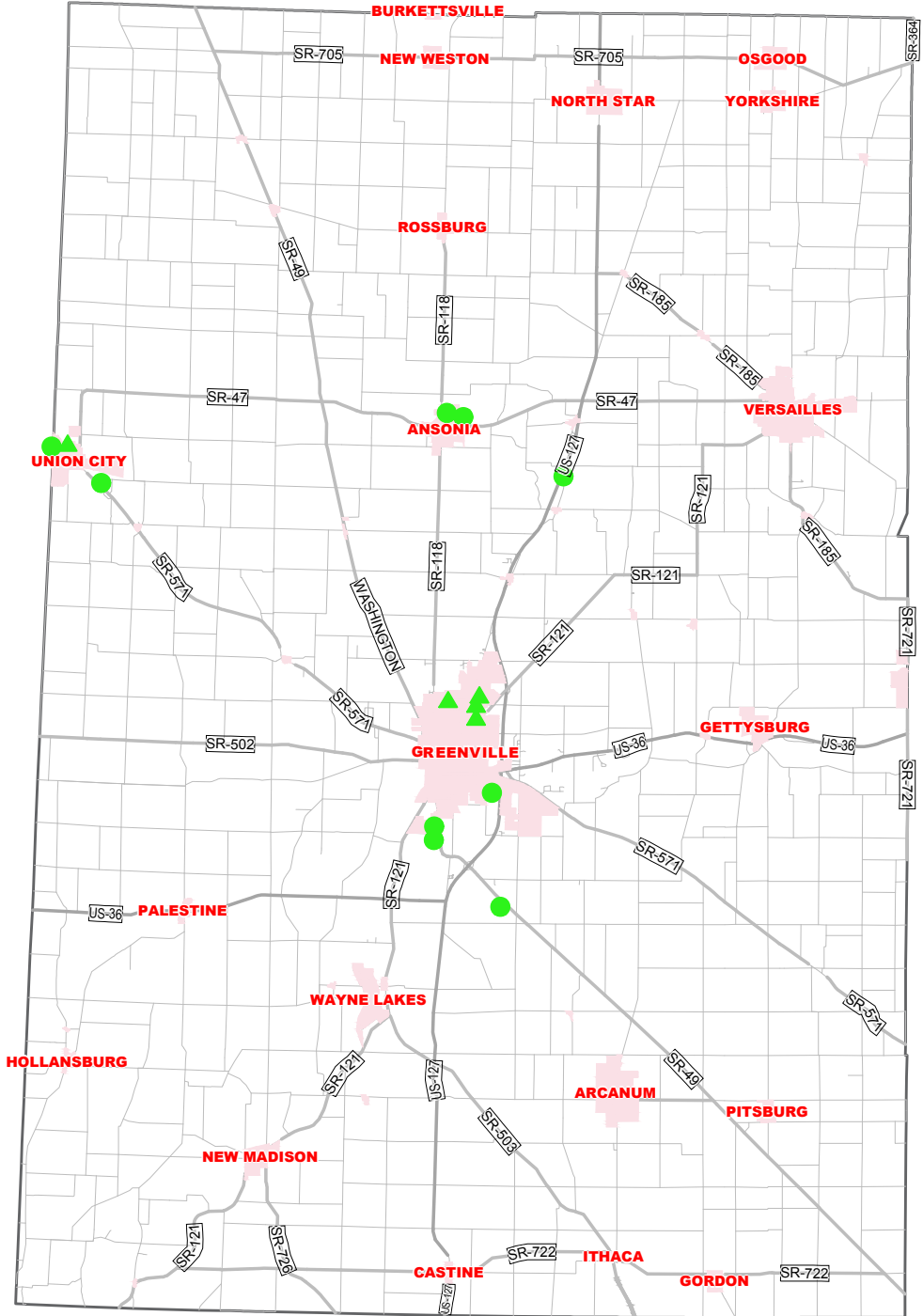
DARKE COUNTY LOW-MODERATE INCOME HOUSING COMPLEXES & MOBILE HOME PARKS



MAP LEGEND

-  MOBILE HOME PARK
-  LOW-MODERATE INCOME HOUSING COMPLEX

-  MAJOR ROADWAY
-  MINOR ROADWAY
-  CITY / VILLAGE
-  COUNTY



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SCALE: 1" = 22,000'



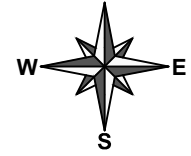
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VICINITY MAP

NO SCALE



DARKE COUNTY CAMPGROUNDS



MAP LEGEND

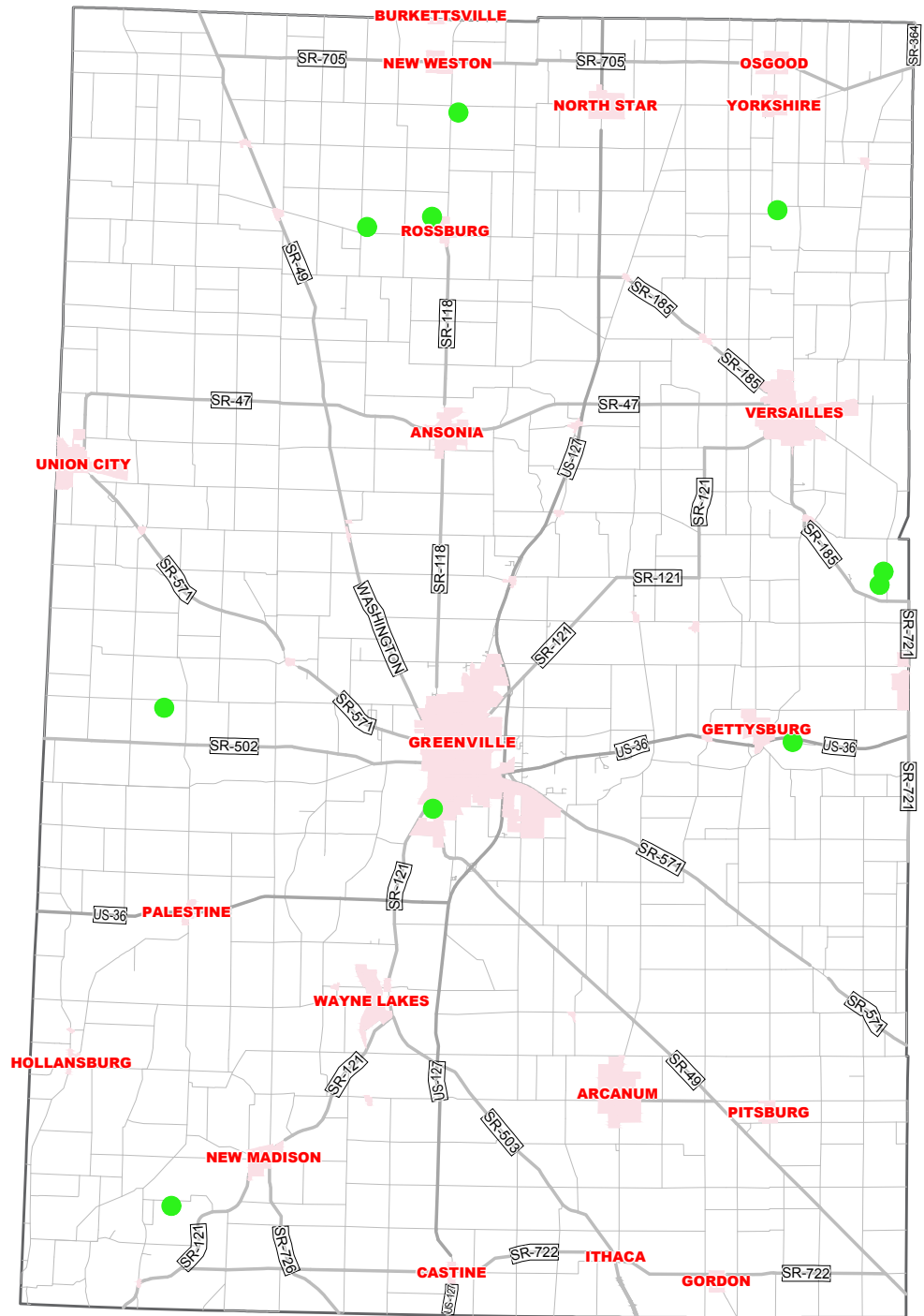
 CAMPGROUND

 MAJOR ROADWAY

 MINOR ROADWAY

 CITY / VILLAGE


 COUNTY



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Email: info@moteassociates.com
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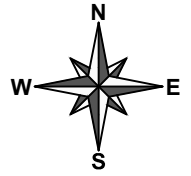
DRAWN BY: CMB **DATE:** 6/15/18

SCALE: 1" = 22,000'

22,000 FEET 0 22,000

VICINITY MAP
NO SCALE

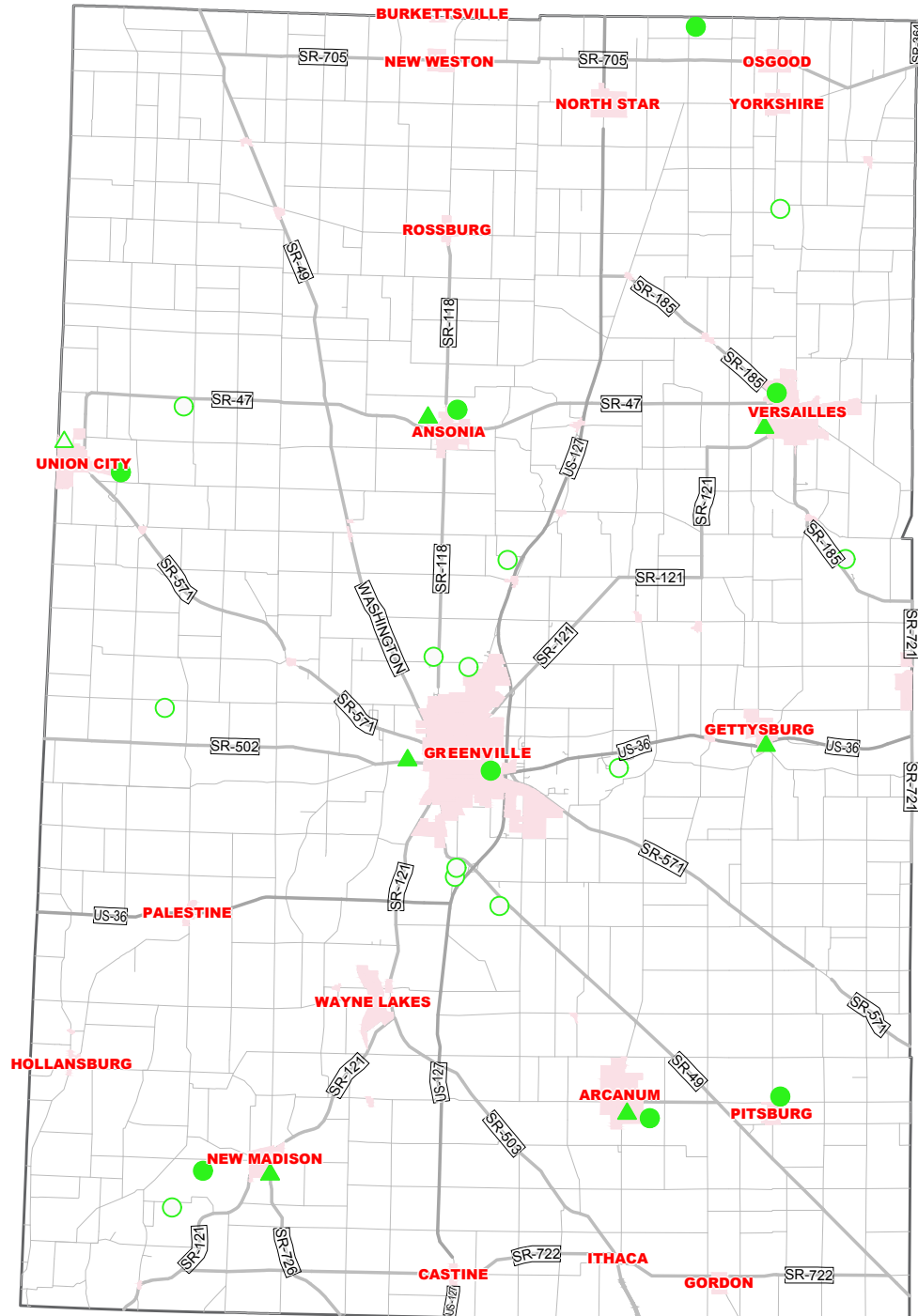


DARKE COUNTY WATER & WASTEWATER TREATMENT FACILITIES



MAP LEGEND

- WASTEWATER TREATMENT PLANT (INCORPORATED VILLAGE/CITY)
 - WASTEWATER TREATMENT PLANT (OTHER)
 - ▲ WATER TREATMENT PLANT
 - WATER TREATMENT PLANT (NOT IN SERVICE)
-
- MAJOR ROADWAY
 - MINOR ROADWAY
 - CITY / VILLAGE
 - COUNTY



Mote & Associates, Inc.
ENGINEERING, LAND SURVEYING

Address: 214 West Fourth Street
Greenville, OH 45331
Phone: (937)-548-7511
Fax: (937)-548-7484
Email: info@moteassociates.com
Website: www.moteassociates.com

DRAWN BY: CMB **DATE:** 6/15/18

SCALE: 1" = 22,000'



22,000 FEET 0 22,000

Essential Services

Power Substations

- Southeast corner of St. Rt. 118 and Brock Cosmos Road
- Versailles – north side of East Main Street
- U.S. Route 127 and Children’s Home-Bradford Road
- Southeast corner of Arcanum at the Water Plant
- Hirsh Road, east of U.S. Route 127
- Sebring Warner Road, west of Route127
- Gettysburg-Pitsburg Road

Municipal Water Treatment Plants

- Ansonia
- Arcanum
- Bradford (Miami County)
- Greenville
- Gettysburg
- New Madison
- Union City
- Versailles

Wastewater Treatment Facilities

- Ansonia (also serves Rossburg)
- Arcanum
- Bradford (Miami County)
- Greenville
- New Madison
- Osgood/Yorkshire/North Star
- Pitsburg
- Union City

Wastewater Facilities (Private)

- Arrowhead Campground
- Cottonwood Lakes Campground
- Turtle Creek Golf Course
- Mississinawa Valley Local School District
- Northtowne Apartments
- Rollin Acres Subdivision
- Sherwood Forest Mobile Home Park
- Stillwater Golf Estates
- Wildcat Woods Campground
- Rossburg Acres
- Lazy R Campground

Airport

- Darke County Airport (located near Versailles on S. R. 121 in Wayne and Richland Townships)

Pipe and Transmission Lines

- Dayton Power & Light Company
- Pan Handle Eastern Gas Pipeline
- Vectren Distribution Natural Gas

SchoolsPublic

- Anthony Wayne Early Childhood Center
- Ansonia Local Schools
- Arcanum Butler Local Schools
- Bradford Exempted Village Schools
- Franklin Monroe Local Schools
- Greenville City Schools – Memorial Hall – Administration only
- Greenville City Senior High School
- Greenville K-8
- Greenville Career Technical Center
- Mississinawa Valley Local Schools
- Tri Village Local Schools
- Versailles Exempted Village Schools

Private and Parochial

- Church of God, US Rt. 49, Greenville
- DeColores Montessori School, Greenville
- DeColores Montessori School – Bear’s Mill Farm School, Greenville
- St. Mary’s School, Greenville
- Basic Christian Education, Greenville

Day Care Facilities

- Brilliant Beginnings, Versailles
- DeColores Montessori School, Greenville
- Kid’s Learning Center, Greenville
- Kinder Korner, Versailles
- Care-A-Lot Day Care, Greenville
- Greenville Head Start, Greenville
- YMCA of Darke County, Greenville
- Ansonia Early Childhood Center, Ansonia
- Shuff Club Adult Day Care Center, Greenville
- Your Happy Place, Greenville
- UCM Residential Services, Union City

Community College

- Edison State Community College – Greenville Campus

Health Care Facilities**Name of Facility****Location**

Ansonia Medical Center (Family Health Services)	Ansonia
Arcanum Medical Center (Family Health Services)	Arcanum
Brookdale – Assisted Living	Greenville
Brethren’s Retirement Community	Greenville
Family Health Services	Greenville
Village Green Health Campus	Greenville
Heartland of Greenville	Greenville
Heartland Nursing Facility	Greenville
Oakley House – Assisted Living	Greenville
Reid Health Care Campus	Greenville
Rest Haven Nursing Facility	Greenville
Treaty City Manor	Greenville
Wayne HealthCare	Greenville
New Madison Medical Center (Family Health Services)	New Madison
Center of Hope	Union City
Versailles Health Care Center (Wayne Healthcare)	Versailles
Versailles Medical Center	Versailles
Upper Valley Medical Center	Versailles

Mobile Home Parks

<u>Name</u>	<u>Approximate No. of Units</u>	<u>Location</u>
E & J	12	Greenville-St. Mary's Road Richland Township
Bish & Boyer	72	Sweitzer Street City of Greenville
Byrds – Canal Street	4	Canal Street Village of Ansonia
Byrds – Cross Street	7	Cross Street Village of Ansonia
Colonial	58	Sweitzer Street City of Greenville
D & M	6	East North Street Village of Union City
Eastwood Estates	36	State Route 47 East Village of Ansonia
Morris	42	Beamsville-Union City Road & State Route 571 Jackson Township
Olwine	156	Sebring-Warner Road City of Greenville
Sherwood Forest	150	State Route 49 Greenville Township

Campgrounds

Arrowhead Campgrounds	Thomas Road Harrison Township
Cottonwood Lakes Campgrounds	Althoff Road Patterson Township
Darke County Fairgrounds	Eidson Road Greenville Township

Darke County Steam Threshers	St. Rt. 127 North Richland Township
Eldora Speedway	St. Rt. 118 North Allen Township
Stemley's Campgrounds (near Eldora)	State Route 118 North Allen Township
Stillwater Beach Campgrounds	Versailles-Southeastern Rd. Adams Township
Wildcat Campgrounds	Wildcat Road Washington Township
Lazy R Campground	St. Rt. 36 Adams Township
Rosburg Acres	Rosburg-Lightsville Rd. Allen Township
Speedy Camping & Parking	St. Rt. 118 N. Allen Township
Bulk Propane Facilities	
Blue Flame of North Star	143 South Main Street North Star, Ohio
Crop Production Services	415 South Ohio Street Greenville, Ohio
Earhart Petroleum	Albright Rd. Arcanum, Ohio
Harvest Land Co-Op	619 Sater Street Greenville, Ohio
North Star Blue Flame	13867 State Route 127 North Star, Ohio

Darke County Municipal & Township Building List

Number	Name	Building Type*	Street Address	City	State	Area (sq ft)	Year of Construction	Building Value
1	Adams Township House		100 Park St.	Gettysburg	OH			
2	Allen Township House			New Weston	OH			
3	Brown Township House		Corner of Weller & Main St.	Ansonia	OH			
4	Butler Township house		Corner of US Route 127 & Grubbs Rex Rd.	Arcanum	OH			
5	Franklin Township House		9034 Painter-Creek	Arcanum	OH			
6	Greenville Township House		5366 St. Rt. 571 East	Greenville	OH			
7	Harrison Township House		101 Railroad St.	New Madison	OH			
8	Jackson Township House		10653 Staundt Rd.	Union City	OH			
9	Liberty Township House			Palestine	OH			
10	Mississinawa Township House		McFeely Petry Rd.	Rosburg	OH			
11	Monroe Township House		Corner of Schnorf-Jones Rd. & Grubbs Rex Rd.	Arcanum	OH			
12	Neave Township House		3880 St. Rt. 121	Ft. Jefferson	OH			
13	Patterson Township House		13229 W. Willowdell Rd.	Willowdell	OH			
14	Richland Township House		Greenville St. Mary's Rd.	Beamsville	OH			
15	Twin Township House		410 W. South St.	Arcanum	OH			
16	Van Buren Township House		4213 Sarver Rd.	Greenville	OH			
17	Wabash Township House		Main St.	North Star	OH			
18	Washington Township House		Wagner Rd.	Greenville	OH			
19	Wayne Township House		6 West Ward St.	Versailles	OH			
20	York Township House		St. Rt. 185	Brock	OH			
21	City of Greenville Municipal Building		100 Public Square	Greenville	OH			
22	Village of Ansonia Municipal Building		202 N. Main St.	Ansonia	OH			
23	Village of Arcanum Municipal Building		104 W. South St.	Arcanum	OH			
24	Village of Bradford Municipal Building		N. Miami St.	Bradford	OH			
25	Village of Burkettsville Municipal Building		32 Washington St.	Burkettsville	OH			
26	Village of Castine Municipal Building		223 W. Main St.	Castine	OH			
27	Village of Gettysburg Municipal Building			Gettysburg	OH			
28	Village of Gordon Municipal Building		501 North St.	Gordon	OH			
29	Village of Hollansburg Municipal Building		109 E. Union St.	Hollansburg	OH			
30	Village of Ithaca Municipal Building		586 S. Main St.	Ithaca	OH			
31	Village of New Madison Municipal Building		124 Harrison St.	New Madison	OH			
32	Village of New Weston Municipal Building		504 W. Walnut St.	New Weston	OH			
33	Village of North Star Municipal Building		86 E. Star Rd.	North Star	OH			
34	Village of Osgood Municipal Building		P.O. Box 44	Osgood	OH			
35	Village of Palestine Municipal Building		215 Crop St.	Palestine	OH			
36	Village of Pittsburg Municipal Building		Lumber St.	Pittsburg	OH			
37	Village of Rossburg Municipal Building		200 W. Main St.	Rosburg	OH			
38	Village of Union City Municipal Building		401 E. Elm St.	Union City	OH			
39	Village of Versailles Municipal Building		4 West Main St.	Versailles	OH			
40	Village of Wayne Lakes Municipal Building		3685 West Drive	Greenville	OH			
41	Village of Yorkshire Municipal Building		W. Main St.	Yorkshire	OH			

* Building Type:
 Frame = F
 Masonry = M
 Municipal Township Building List
 Pre-Engineered Steel = PS

Locations of Critical Facilities/Essential Services/Special Hazards

City and Villages

	Power Substation	Underground Natural Gas Pipeline	Community Natural Gas Lines	Water Treatment System and Piping	Wastewater Treatment and Piping	Railroad	Dam Structure	100 Year Floodplain	Mobile Home Park	Campground	Police	Sheriff	Rescue Facility	Fire Department	Hazardous Chemicals	Hospital or Medical Facility	Nursing Care Facility	School Facility	Special Event
City of Greenville		X	X	X	X	X		X	X (3)	X	X			X	X	X	X	X	X
Village of Ansonia		X	X	X	X	X		X	X		X		X	X		X		X	X
Village of Arcanum	X	X	X	X	X			X			X		X	X		X		X	X
Village of Bradford				X	X							X*	X	X				X	X
Village of Burkettsville (part)					X							X		X					
Village of Castine								X				X							
Village of Gettysburg			X	X	X			X				X	X	X	X				X
Village of Gordon												X							
Village of Hollansburg			X									X		X					
Village of Ithaca								X				X							
Village of New Madison			X	X	X			X				X	X	X		X		X	X
Village of New Weston					X							X			X				X
Village of North Star					X							X		X	X				X
Village of Osgood					X							X	X	X					
Village of Palestine												X		X					
Village of Pitsburg					X							X		X	X			X	
Village of Rossburg					X							X		X					
Village of Union City		X	X	X	X	X		X	X		X		X	X	X	X	X		X
Village of Versailles	X	X	X	X	X	X		X			X		X	X	X	X	X	X	X
Village of Wayne Lakes								X				X							
Village of Yorkshire					X							X			X				

Locations of Critical Facilities/Essential Services/Special Hazards

City and Villages

*Contracted with Miami Co. Sheriff Department

Locations of Critical Facilities/Essential Services/Special Hazards

Townships

	Power Substation	Underground Natural Gas Pipeline	Community Natural Gas Lines	Water Treatment System and Piping	Wastewater Treatment and Piping	Railroad	Dam Structure	100 Year Floodplain	Mobile Home Park	Campground	Police	Sheriff	Rescue Facility	Fire Department	Hazardous Chemicals	Hospital or Medical Facility	Nursing Care Facility	School Facility	Special Event	
Adams Township		X						X		X		X								
Allen Township		X					X*	X		X		X								X
Brown Township	X					X		X				X								
Butler Township	X	X						X				X								
Franklin Township	X							X		X		X								
Greenville Township	X	X	X	X	X	X		X	X	X		X	X	X				X	X	
Harrison Township		X						X				X								X
Jackson Township						X		X	X			X								
Liberty Township								X				X		X						
Mississinawa Township								X				X						X		
Monroe Township								X				X								
Neave Township		X						X				X								
Patterson Township								X		X		X								
Richland Township						X		X	X			X								X
Twin Township								X				X								
Van Buren Township								X				X								
Wabash Township		X						X				X								
Washington Township		X						X		X		X								
Wayne Township		X				X		X				X								
York Township												X								

* Class II Dam Structure

Location of Critical Facilities/Essential Services/Special Hazards
Townships

2.4 Winter Events Including Storms, Heavy Snow, Cold/Wind Chill, Frost/Freeze and Ice

Overview

One or more of the following characterizes a winter storm: heavy snow, ice storms, strong winds, and extreme cold.

Several methods of research identified winter storms as a hazard in Darke County, including reviews of newspaper coverage, reviews of past disaster declarations, interviews with local officials, and reviewing the NOAA/NCDC Darke County weather events.

A severe winter storm could affect the entire county at the same time, virtually bringing all county operations to a stand still. Darke County is highly vulnerable to the wide-ranging effects of snowstorms, blizzards, ice storms, sleet, and severe cold snaps. This type of hazard creates a difficult emergency response effort due to adverse road conditions which impede or prohibit vehicle movement. Since Darke County has more roadway miles than any other county in Ohio, severe winter storms can have a large impact on the County. Much of the land is rural and flat which can make for dangerous conditions when blowing and drifting snow occurs.

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

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

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

Research indicates that winter storms are the third leading weather threat in Ohio. The storms of 1950, 1977 and 1978 were of a duration that required extensive mass sheltering or statewide response and recovery efforts. According to the NOAA/NCDC from the period of 1994 – May 2018, 103 severe winter events have affected Darke County.

Location

It is very difficult to determine the exact location of damages that may result from a winter storm event. Typically, the average mean snow depth for Darke County is 24-36 inches. Slightly lessor amounts are typical for the southern areas of Darke County.

Past Occurrences

The following is a summary analysis of the Darke County Hazard Mitigation Committee's hazard research findings for severe winter storms: Darke County is approximately 20 miles wide east to west and 30 miles from north to south. As a result, winter weather conditions can vary from one end of the County to the other.

Severe winter storms in Darke County can produce ice, snow, freezing rain, cold temperatures, and wind. Severe winter storms impact highway safety and can have a destructive impact on trees, power lines, and utility services. Extreme periods of cold can have an adverse effect on water lines and water systems. Power outages and drifting and blowing snow, common to rural Darke County, can have widespread impacts to the residents of Darke County. Destructive snow and ice storms occur on an annual basis. Most county schools have five adverse weather days included in their normal school schedule.

Past history indicates Darke County, and much of Ohio, felt the winter storm effects of the November 25, 1950 blizzard; April 13, 1957 ice storm; January, 1977, severe weather storm; 1978 blizzard; February 1985 snow storm; and January 2, 1996 snow storm. The 1978 blizzard was the most devastating recent winter storm event. It swept through Darke County on January 25 and 26, 1978 and virtually shut down the entire county. At least 17" of snow fell. Some residents were left without electricity or heat for five days. Some township roads were impassible for five days. The Ohio National Guard units assisted in clearing snow from the county roads. In Ansonia, the Emergency Rescue Service helped deliver a baby as it was impossible to leave town. Snow drifts reached as high as the eaves of one-story houses in some locations. Many travelers were stranded at Darke County residences. The Ansonia United Methodist Church housed Con-Rail railroad workers stranded in Ansonia. During the winter of January, 1977, there were 21 straight days of below 0° F temperatures.

Freezing rains across Darke County is also a very prevalent winter weather hazard event. On February 8, 1994, an ice storm hit Darke County and the southwestern Ohio region causing many injuries and at least one death (outside of Darke County). The ice storms caused widespread power outages, downed utility lines, and damages such as downed tree limbs. Travel was very treacherous.

A large snow storm fell upon the county prior to the holiday season on December 22-23, 2004. Up to two feet of snowfall was found between Eaton and Greenville. The Ohio Insurance Agency estimated the storm damage from that one event in Ohio was 84 million dollars.

One of the most recent, largest winter events to occur was heavy snow and strong winds combined to create blizzard like conditions beginning on Christmas night 2012 and continued into the next morning. The Highway Department of Greenville measured 9 inches of snow while a public report in town measured 7 inches. A spotter in Bradford measure 7.9 inches of snow. Observation platforms in and around the area had wind gusting over 35 mph.

The following table summarizes the winter events including storms, heavy snow, cold/wind chill, frost/freeze and ice events that have occurred in Darke County:

Darke County, Ohio Winter Events Including Storms, Heavy Snow, and Ice Events Data Summary from the National Climatic Data Center						
Year	Date of Reported Winter Storm Events	Type	Deaths	Injuries	Estimated Property Damage	Crop Damage
1996	January 2	Winter Storm	0	0	50.00K	0.00K
1996	January 6	Winter Storm	0	0	500.00K	0.00K
1996	January 11	Heavy Snow	0	0	1.00K	0.00K
1996	February 1	Cold/Wind Chill	0	0	20.00K	0.00K
1996	March 6	Ice Storm	0	0	0.00K	0.00K
1996	March 19	Winter Storm	0	0	0.00K	0.00K
1997	January 24	Ice Storm	0	0	0.00K	0.00K
1999	January 1	Winter Storm	0	0	0.00K	0.00K
1999	January 7	Winter Storm	0	0	0.00K	0.00K
1999	January 13	Winter Storm	0	0	0.00K	0.00K
1999	March 9	Heavy Snow	0	0	0.00K	0.00K
2000	January 19	Heavy Snow	0	0	0.00K	0.00K
2000	March 11	Heavy Snow	0	0	0.00K	0.00K
2000	December 13	Heavy Snow	0	0	0.00K	0.00K
2002	March 25	Winter Storm	0	0	0.00K	0.00K
2002	March 26	Winter Storm	0	0	0.00K	0.00K
2002	November 22	Winter Storm	0	0	0.00K	0.00K
2002	December 24	Winter Storm	0	0	0.00K	0.00K
2003	February 15	Winter Storm	0	0	0.00K	0.00K
2003	December 14	Winter Storm	0	0	0.00K	0.00K
2004	January 25	Winter Storm	0	0	0.00K	0.00K
2004	March 16	Winter Storm	0	0	0.00K	0.00K
2004	December 22	Winter Storm	0	0	0.00K	0.00K
2005	January 5	Winter Storm	0	0	0.00K	0.00K
2005	January 20	Winter Storm	0	0	0.00K	0.00K
2005	December 8	Winter Storm	0	0	0.00K	0.00K
2007	February 6	Heavy Snow	0	0	0.00K	0.00K
2007	February 13	Blizzard	0	0	0.00K	0.00K
2007	April 6	Frost/Freeze	0	0	0.00K	0.00K
2007	December 4	Heavy Snow	0	0	0.00K	0.00K
2007	December 7	Winter Weather	0	0	0.00K	0.00K

Darke County, Ohio Hazard Mitigation Plan

2008	January 1	Winter Weather	0	0	0.00K	0.00K
2008	February 1	Winter Storm	0	0	0.00K	0.00K
2008	February 12	Winter Storm	0	0	0.00K	0.00K
2008	February 20	Heavy Snow	0	0	0.00K	0.00K
2008	March 4	Ice Storm	0	0	0.00K	0.00K
2008	March 7	Winter Storm	0	0	0.00K	0.00K
2008	December 19	Ice Storm	0	0	0.00K	0.00K
2008	December 23	Ice Storm	0	0	0.00K	0.00K
2009	January 10	Ice Storm	0	0	0.00K	0.00K
2009	January 14	Heavy Snow	0	0	0.00K	0.00K
2009	January 27	Heavy Snow	0	0	0.00K	0.00K
2009	December 19	Winter Weather	0	0	0.00K	0.00K
2010	January 7	Winter Weather	0	0	0.00K	0.00K
2010	February 5	Heavy Snow	0	0	0.00K	0.00K
2010	February 9	Heavy Snow	0	0	0.00K	0.00K
2010	February 15	Winter Weather	0	0	0.00K	0.00K
2010	February 26	Winter Weather	0	0	0.00K	0.00K
2010	March 25	Winter Weather	0	0	0.00K	0.00K
2010	December 12	Winter Weather	0	0	0.00K	0.00K
2010	December 16	Winter Weather	0	0	0.00K	0.00K
2011	January 11	Winter Weather	0	0	0.00K	0.00K
2011	January 20	Winter Weather	0	0	0.00K	0.00K
2011	February 1	Ice Storm	0	0	0.00K	0.00K
2011	February 24	Winter Weather	0	0	0.00K	0.00K
2012	January 19	Winter Weather	0	0	0.00K	0.00K
2012	January 20	Winter Weather	0	0	0.00K	0.00K
2012	February 10	Winter Weather	0	0	0.00K	0.00K
2012	February 12	Winter Weather	0	0	0.00K	0.00K
2012	December 26	Blizzard	0	0	0.00K	0.00K
2012	December 28	Winter Weather	0	0	0.00K	0.00K
2013	January 25	Winter Weather	0	0	0.00K	0.00K
2013	March 5	Winter Storm	0	0	0.00K	0.00K
2013	March 24	Winter Storm	0	0	0.00K	0.00K
2013	December 6	Winter Storm	0	0	0.00K	0.00K
2013	December 10	Winter Weather	0	0	0.00K	0.00K
2013	December 14	Winter Weather	0	0	0.00K	0.00K
2013	December 16	Winter Weather	0	0	0.00K	0.00K
2014	January 2	Winter Weather	0	0	0.00K	0.00K
2014	January 5	Winter Weather	0	0	0.00K	0.00K
2014	January 18	Winter Weather	0	0	0.00K	0.00K
2014	January 20	Winter Weather	0	0	0.00K	0.00K
2014	February 4	Winter Storm	0	0	0.00K	0.00K
2014	February 17	Winter Weather	0	0	0.00K	0.00K
2014	March 2	Winter Weather	0	0	0.00K	0.00K
2014	March 12	Winter Weather	0	0	0.00K	0.00K
2014	November 16	Winter Weather	0	0	0.00K	0.00K
2014	November 22	Winter Weather	0	0	0.00K	0.00K
2015	January 5	Winter Weather	0	0	0.00K	0.00K
2015	January 25	Winter Weather	0	0	0.00K	0.00K

Darke County, Ohio Hazard Mitigation Plan

2015	February 4	Winter Weather	0	0	0.00K	0.00K
2015	February 14	Winter Weather	0	0	0.00K	0.00K
2015	February 15	Winter Weather	0	0	0.00K	0.00K
2015	February 20	Winter Weather	0	0	0.00K	0.00K
2015	February 21	Winter Weather	0	0	0.00K	0.00K
2015	March 1	Winter Storm	0	0	0.00K	0.00K
2016	January 10	Winter Weather	0	0	0.00K	0.00K
2016	January 12	Winter Weather	0	0	0.00K	0.00K
2016	February 8	Winter Weather	0	0	0.00K	0.00K
2016	February 24	Winter Weather	0	0	0.00K	0.00K
2016	April 8	Winter Weather	0	0	0.00K	0.00K
2017	January 5	Winter Weather	0	0	0.00K	0.00K
2017	February 8	Winter Weather	0	0	0.00K	0.00K
2017	March 13	Winter Weather	0	0	0.00K	0.00K
2017	December 9	Winter Weather	0	0	0.00K	0.00K
2017	December 24	Winter Weather	0	0	0.00K	0.00K
2017	December 29	Winter Weather	0	0	0.00K	0.00K
2018	January 8	Winter Weather	0	0	0.00K	0.00K
2018	January 12	Winter Weather	0	0	0.00K	0.00K
2018	January 15	Winter Weather	0	0	0.00K	0.00K
2018	February 6	Winter Weather	0	0	0.00K	0.00K
2018	March 7	Winter Weather	0	0	0.00K	0.00K
2018	March 20	Winter Weather	0	0	0.00K	0.00K
2018	April 1	Winter Weather	0	0	0.00K	0.00K
2018	April 6	Winter Weather	0	0	0.00K	0.00K
		Total:	0	0	571.00K	0.00K

Note: The winter events occurring during the years of 1994, 1995, 1998, 2001, and 2006 did not indicate any damage.

Sources: NOAA, NCDC Event Period 01/01/1994 – 05/31/2018

Probability of Future Events

From January 1, 1994 – May 31, 2018 there have been approximately 103 severe winter events in Darke County according to NOAA/NCDC records. That equates an average to about four severe winter storms per year. However, in the calendar year of 2010 there were eight severe winter storms listed. In any given year it is possible to have considerably more snow and ice events and each winter will vary in snowfall depths of accumulating snow and ice.

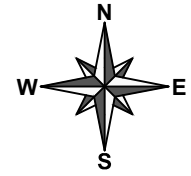
Vulnerability and Loss Estimation

From January 1, 1994 – May 31, 2018 loss estimates for winter events in Darke County totaled 571.00 thousand dollars in property damage, while there was no crop damage. There were 0 deaths and injuries reported. Dividing these damages over the 24-year period equates to approximate average losses of \$23,792 per year for its 51,778 residents. Therefore, the average cost for each resident per year was approximately \$.46.

VICINITY MAP
NO SCALE



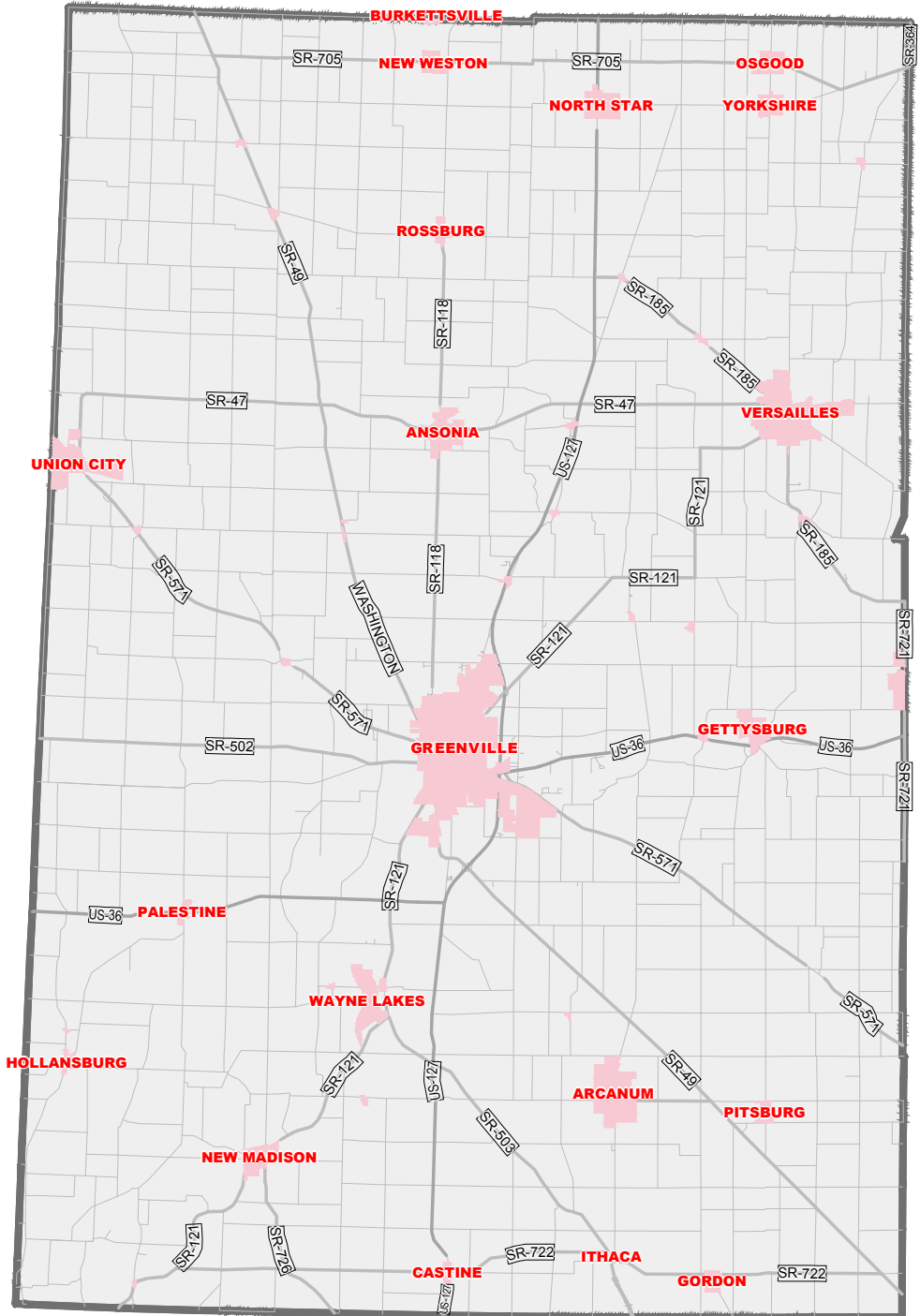
DARKE COUNTY WINTER STORMS INCLUDING ICE EVENTS



MAP LEGEND

- MODERATE HAZARD

- MAJOR ROADWAY
- MINOR ROADWAY
- CITY / VILLAGE
- COUNTY



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SCALE: 1" = 22,000'

22,000 FEET 0 22,000

2.5 Flooding

Flooding is a natural occurrence that happens when streams, lakes, and rivers overflow their banks and expand on the adjacent ground which is termed a “floodplain area”. When people build structures in a floodplain area damage, injuries, and loss of life can occur. From past experiences, prolonged periods of rain, intense rain, fast snow melt, frozen ground, inadequate storm drainage, waterways blocked with trees, ice dams, or field debris can increase flooding situations in Darke County. Flooding at various levels generally occur each year in Darke County and flooding is considered the most frequently occurring disaster in Ohio and the United States.

Risk Assessment

The following is a summary analysis of the Darke County Hazard Mitigation Committee’s hazard research findings for flooding:

Countywide Flooding

Darke County is subject to flooding by various annual flooding events. The flooding can affect Darke County residents in many ways. It affects the unincorporated as well as incorporated areas and causes damage to both the private and public sector. Darke County is drained by the Wabash, Stillwater, Mississinawa, and Whitewater Rivers and their tributaries.

Darke County is subject to flash flooding as well as flooding from overflows of rivers and small streams within designated floodplains. Much of the flash flooding and more frequent flooding is due to inadequate city, village, and county storm drainage tiles. The Darke County Emergency Management Agency and Darke County Hazard Committee reviewed the recently updated the County’s Flood Insurance Rate Maps (FIRMS) as developed under the National Flood Insurance Program (NFIP). This Flood Insurance Study (FIS) was used to update and compile the flooding hazard in the County.

In addition, the Darke County Hazard Mitigation Committee also utilized research of past flooding events and public input and recent information as a result of the 2017-2018 planning meetings. This study indicated that much of the nuisance flooding occurs in areas out of the designated 100-year floodplain. However, numerous public infrastructures, agricultural areas, private homes and businesses are all at risk.

Flash Flooding

The county is rural and relatively flat. In many of the rural areas, water runoff is through old county tiles that have been in place for many years. The streams and rivers, in many cases, are capable of accepting the runoff but the tiles are undersized, broken down, and plugged with sediment. Therefore, the water cannot get to the streams. Compounding the issue, in more recent history, is the removal of fence rows and enlargement of the fields. This accelerates the surface water runoff to these lower land areas. This creates significant ponding in depressed or low areas. In addition, with no-till agricultural practices corn fodder can create blockages and draining of water over drainage grates and

within drainage tile. The result is the draining of runoff which can create localized flooding outside of the floodplain.

In several rural townships during the 1960's and 1970's, prior to zoning and subdivision regulations, ranch style homes built on concrete slabs were constructed adjacent to these low runoff areas. Many of these floor slab elevations are only about 4 – 6" above the surrounding grade. Most farmers do not want to replace the storm tiles as it is very expensive and they do not have the financial resources to do so. Many of the homes that flood are owned and occupied by lower income residents who cannot afford to replace and upsize long runs of county storm drainage tile. One incident occurred during the January 21 and January 22, 1999 Castine area flood where several of these homes received water surrounding the entire home with some receiving wet carpeting. Many of these events have been occurring at 4 – 5-year intervals, generally with a 2 – 4-inch rain event in a 24-hour period. Although no one was injured, the county and township roadways were blocked and in Castine a fuel propane tank began to float away at 155 So. Main Street in Castine. This caused safety concerns for fire and rescue personnel. Many of the affected residents were surrounded by water. Water in homes included 6 ft. in the basement in a home along St. Rt. 722, Butler Township; 4 – 6 in. of water in a house along Otterbein-Ithaca Road, Butler Township; a home evacuated on Clark Road in Twin Township between Castine and Ithaca; a residence along Main Street in New Madison also had water entering the home. The Small Business Administration declared Preble County and its surrounding counties a disaster area on February 3, 1999. These events happen during periods in the winter and spring when the ground is frozen or fully saturated as well as during summer thunderstorms that produce a lot of water in a short duration of time.

There is also flooding in the hamlet of Savona, in southern Darke County, due to the removal of an old railroad bed which formerly acted as a levy. At least two residences have received repetitive flooding in 1997 and January 21 and January 22, 1999 along Railroad Street with 6" – 12" depths above the main floor level. Although not in the 100-year floodplain, according to the County Engineer, this is another case where the storm runoff water cannot drain to the streams fast enough due to the age, size, and condition of the old county and private storm tile systems. Fortunately, no one has been injured during these flooding events. The Butler Township Trustees and County Engineer have since constructed diking to redirect the flow of the runoff.

Other notable areas of this type of inadequate drainage system flooding that have been partially addressed include:

Adams Township – Horatio-Harris Creek Road, west of St. Rt. 721 (see map page 163)

Brown Township – Ansonia Elroy Road between Beam Road and State Route 118, Duvall Road, Wood Road and White Coppess Road between State Route 118 and Duncan Road

Butler Township – Hollansburg-Sampson Road, east of New Madison-Coletown Road (see map page 164)

Butler Township – Ritenour Road, west of Preble County-Butler Twp. Road

Franklin Township – Hogpath Road

Greenville Township – Folkerth Road & Culbertson Road (see map page 166)

Greenville Township – Jaysville-St. Johns Road & Kruckenberg Road (see map page 165)
 Mississinawa Township – Peters Road & Lawrence Road (see 2 maps pages 167-168)
 Monroe Township – St. Rt. 49, south of Oaks Road (Salem Acres Subdivision) (see map page 169)
 Twin Township – St. Rt. 503, 1000 ft. southeast of Dull Road (see map page 170)
 Twin Township – Dull Road at Arcanum-Ithaca Road (see map)
 York Township – Brown Road (see map page 171)

At many of these locations, approximately 2 -5 houses are threatened and surrounded by water.

Many of the smaller incorporated villages also have periodic drainage area problems and stormwater runoff problems including:

Village of Ansonia – Stillwater River running through town.

Village of Arcanum – Harvest Field Subdivision, various village streets.

Village of North Star – Fire Dept. located at drainage ditch. *A new fire department was constructed in 2014 in a new location out of the area subject to flooding. Flooding is still a concern at the north end along US Route 127 south of Davis Camper Sales.

Village of Pitsburg – Various streets and at the Village Park, Merrie Lane has issues with flood water going into garages.

Village of Rossburg – East & West Main Street, south side

Village of Union City - Market Street, middle of 200 block to past 300 block from State Line to alley east of Old Market.

Village of Wayne Lakes – End of Cucumber Lane into ESS Lake.

Flash Flooding

Published reports stated flash flooding occurred July 6, 2017 in the Arcanum area which closed several roadways and streets due to high water. The National Weather Service in Wilmington issued a flash flood warning at approximately 11:45 am as rising water made flooded streets and roadways dangerous to travel. Approximately 5 inches of rain fell over a short duration of time. Ohio 49 South and a number of Arcanum Village streets were under water and closed. (see map of flooded streets).

Flash flooding also occurred July 13, 2015 in Ansonia and Greenville areas. A total of 86 properties were damaged or affected. Several motorists also had to be rescued from their cars. Along State Route 127 and Kruckeburg & Russ Road and homes in the north end of Greenville were flooded as well. Homes along State Route 49 North of Greenville.

Flooding along Rivers and Streams

Darke County has experienced several river and stream floods due to the development within the designated 100-year floodplains per the county FIRM maps. The 1980 Versailles flood exceeded the 100-year flood and approached the 500-year flood. 7-1/2” of rain fell in a 24-hour period. Swamp Creek overflowed its banks causing 45 houses and 19 businesses to be flooded. The Water and Wastewater Treatment Plant, located within the 100-year floodplain were out of service. Additional flooding occurred within the 100-year floodplain in Ansonia when the Stillwater River overflowed its banks. Damage occurred to the high school and several residences. In all, over 7 million dollars

in damage occurred countywide during this event. Since that period of time, Ansonia Local Schools has built a new high school out of the flood plain.

The January 21 and January 22, 1999 Castine area flood, where Maple Swamp Creek overflowed its banks, caused damage to 8 houses, 2 of which received significant damage. 18 people were forced to leave their homes. It was reported over 3" of rain fell in less than 90 minutes. Much of the damage occurred in the 100-year Maple Swamp Creek floodplain through Castine.

Water in homes in Castine included four residences along South Main Street and one home along St. Rt. 127 South with water depths above the main floor levels of 6" to 24". There were also dozens of road closures during this flooding event which impeded rescue operations for at least 18 persons.

Recent river line flooding issues have occurred along the Stillwater River and Greenville Creek due to log dams. This occurs due to various reasons including erosion, falling of dead trees, and increase in beaver population. Certain river line areas will need to be evaluated.

The Village of Ansonia also has its only sanitary pump station located along the banks of the Stillwater River. It is located within the 100-year floodplain according to the FIRM Floodplain Maps. During periods of high-water flows within the river, the pump station receives backflow into the pump station. This occurs in 3 -5-year intervals. The Village received OPWC Funding in 2001 and flood proofing alterations were made at that time.

Some of the larger Villages, the City of Greenville, Village of Arcanum, and Village of Versailles have a base floodplain map whereby the base floodplain elevation has been determined. The Darke County Floodplain Manager at the County Building Department currently has on file copies of all the recently updated Darke County FIRM Maps for Darke County.

A 100-year countywide flood would have flooding potential impacting the following structures: See Attached Table 2.5.a.

Other Community Flooding Issues

Property loss from flooding occurs on both private and public property. During intense rain, some of the municipalities receive infiltration into the public wastewater collection while much progress has been made with removing infiltration, some issues still remain. Part of several wastewater treatment plants are located in the 100-year floodplain. This is the case for Ansonia, Greenville, and Versailles. The Village of Versailles has a newer water treatment plant facility that was constructed outside of the 100-year flood plain.

Probability of Future Events

It is important to establish the probability of occurrence of flooding so the County and its communities can make informed decisions about the sustainability of future development within land areas and to determine the feasibility of proposed mitigation projects.

Typically, FEMA Flood Insurance surveys, FIRM maps, and information are useful tools. Most Darke County communities that have 100-year flood zones within their communities participate in the NFIP Program whereby the floodplain maps identify the areas that have a 1% annual chance of being equaled or exceeded in any given year. Larger Darke County communities such as the City of Greenville, Villages of Arcanum, Ansonia, and Versailles that are along larger county rivers and streams that have flood elevation profiles.

There are several other possible data sources for determining the area affected by a particular probability flood event. The Ohio Department of Natural Resources, Division of Soil and Water Resources, is the state repository for flood hazard information and has copies of flood hazard information generated by various federal, state, local, and private entities. The State of Ohio Floodplain Management Program maintains current copies of all FEMA FISs and flood maps in the State.

Based on NCDC records there has been 55 flood events since 1997 or an average of 2.6 flood events per year.

Vulnerability Analysis & Loss Estimation

Darke County is vulnerable to both river line flooding and flash flooding outside of the established flood zone. The Vulnerability Analysis is a measurement of a community's flood risk. Each flood event in Darke County is unique in that there are many different courses and affects for example the Castine flood was due to large ice dams that blocked the drainage area and backed up the water within the Village. A much heavier rainfall during the summer months would not have resulted in flooding of the same magnitude. Many similar flooding events on a lesser scale have occurred due to clogged drainage structures or grates covered by crop debris. Like many counties in Ohio, Darke County lacks site specific data regarding flood elevation and lowest floor elevation except in those areas where there is an existing flood zone profile. Unfortunately, much of the flood damage in Darke County is flash flooding that occurs outside of the designated 100-year flood zones. The County does have computerized tax records from which the size of the structure, type of structure, and area of the structure is available as well as the current tax value of the property.

While Darke County has made progress and has improved the flood data in this report, additional information or site-specific engineering and surveying will be needed to accurately obtain flood elevations. The cost, time, and effort to perform such steps couldn't be performed within the budget of this plan update. Mapping & GIS information is becoming more readily available and better inventories can be expected over time. For the purpose of this vulnerability study the most accurate and up-to-date information has been utilized.

The Darke County communities of Ansonia, Arcanum, Gettysburg, Greenville, New Madison, Union City, and Versailles are listed as participating in the Natural Flood

Insurance Program (NFIP). NFIP repetitive loss data can be used to identify some of the structures vulnerable to flooding throughout the State and in Darke County.

NFIP repetitive loss structures are those structures that have had two or more losses of more than \$1,000 each in any 10-year period since 1978. In Darke County within the City of Greenville zip code there is one severe repetitive loss non-residential property and one repetitive loss residential property. The losses are as follows:

Repetitive Losses					
Property Type	Zip Code	No. of Losses	Building Loss	Content Loss	Total
Single Family Residential	45331	2	\$12,193.65	\$0.00	\$12,193.65
Severe Repetitive Losses					
Non-Residential Property	45331	5	\$47,754.52	\$16,285.76	\$64,040.18

This information is based on information provided by the Ohio EMA State Mitigation Office.

FEMA and State Mitigation Officials are focused on reducing the number of repetitive loss structures throughout Ohio. FEMA grant programs have also prioritized the mitigation of repetitive loss structures including:

- Severe repetitive loss
- Repetitive loss claims
- HMGP
- FMA
- PDM-C

The repetitive loss data is intended to be used to identify areas that are repetitively flooded in a community.

Based on NCDC reported data, there have been \$414,000 in damages since 1997 for an average flood loss of \$19,714 per year. However, since the NCDC does not always track localized flood event damage, it is evident the flood damage amounts may be significantly greater.

Darke County, Ohio Hazard Mitigation Plan

Darke County, Ohio Flooding Data Summary from the National Climatic Data Center					
Year	Date of Reported Flood Events	Deaths	Injuries	Estimated Property Damage	Crop Damage
1997	May 31	0	None Reported	10K	0
1998	June 11	0	None Reported	5K	0
1999	January 22	0	None Reported	0K	0
1999	February 27	0	None Reported	0K	0
1999	June 9	0	None Reported	1K	0
2000	April 7	0	None Reported	10K	0
2001	August 22	0	None Reported	0K	0
2001	August 30	0	None Reported	0K	0
2001	December 17	0	None Reported	0K	0
2002	April 12	0	None Reported	0K	0
2003	March 13	0	None Reported	0K	0
2003	July 5	0	None Reported	15K	0
2003	July 6	0	None Reported	0K	0
2003	July 7	0	None Reported	40K	0
2003	July 8	0	None Reported	50K	0
2003	July 8	0	None Reported	20K	0
2003	July 9	0	None Reported	80K	0
2003	August 4	0	None Reported	0K	0
2003	September 1	0	None Reported	25K	0
2004	January 4	0	None Reported	0K	0
2004	May 27	0	None Reported	0K	0
2004	June 15	0	None Reported	0K	0
2004	August 28	0	None Reported	0K	0
2005	January 5	0	None Reported	20K	0
2005	January 11	0	None Reported	10K	0
2005	June 25	0	None Reported	0K	0
2005	June 30	0	None Reported	0K	0
2006	June 1	0	None Reported	25K	0
2006	June 2	0	None Reported	0K	0
2006	December 1	0	None Reported	3K	0
2007	March 2	0	None Reported	5K	0
2007	March 14	0	None Reported	5K	0
2008	June 4	0	None Reported	2K	0
2008	July 12	0	None Reported	5K	0
2008	July 12	0	None Reported	1K	0
2009	July 11	0	None Reported	10K	0
2010	June 14	0	None Reported	2K	0
2010	June 14	0	None Reported	1K	0
2011	February 28	0	None Reported	3K	0
2011	February 28	0	None Reported	5K	0
2011	March 1	0	None Reported	5K	0
2011	March 5	0	None Reported	5K	0
2011	March 5	0	None Reported	5K	0
2011	March 5	0	None Reported	5K	0
2013	December 21	0	None Reported	0K	0
2013	December 22	0	None Reported	41K	0
2013	December 23	0	None Reported	0K	0
2015	June 27	0	None Reported	0K	0

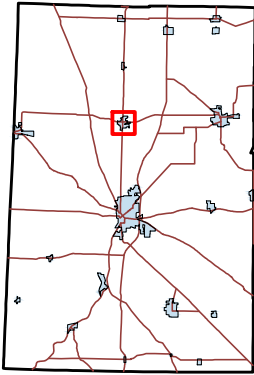
Darke County, Ohio Hazard Mitigation Plan

2015	July 13	0	None Reported	0K	0
2015	July 14	0	None Reported	0K	0
2015	December 27	0	None Reported	0K	0
2017	July 6	0	None Reported	0K	0
2017	November 5	0	None Reported	0K	0
2017	November 18	0	None Reported	0K	0
2018	April 3	0	None Reported	0K	0
Totals		0		414K	0*
<p>*It is anticipated that crop damage has occurred but was not indicated per the NCDC data. Note: The flood damage events occurring during the years of 1994, 1995, 1996, 2012, 2014 and 2016 did not indicate any flood damage. Sources: NOAA, NCDC Event Period 01/01/1994 – 05/31/2018</p>					

The following maps indicate the 100-year flood way and flood plain areas for the Darke County cities and villages.



VICINITY MAP

NO SCALE



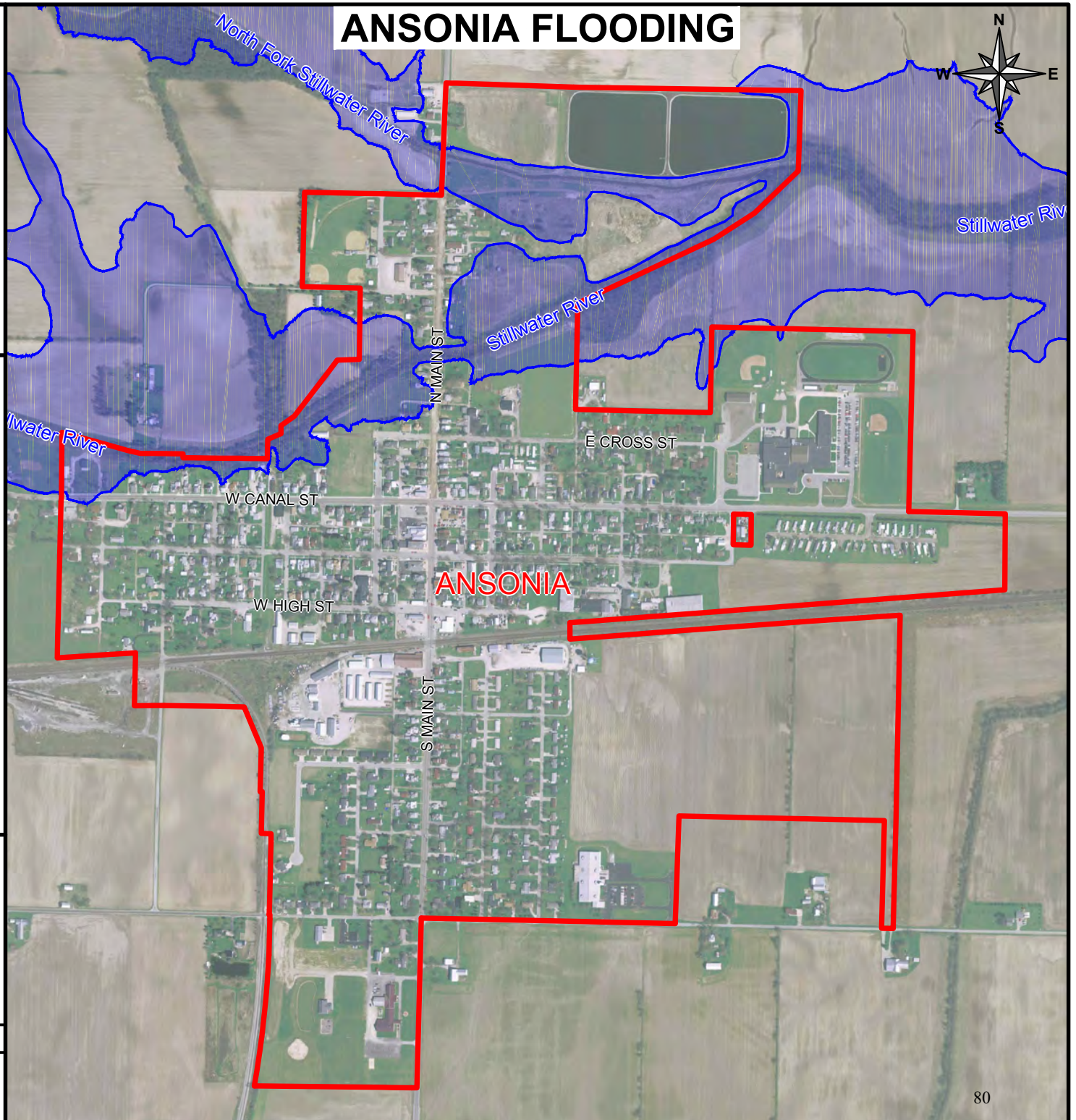
DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

-  CITY / VILLAGE CORPORATION LIMITS

ANSONIA FLOODING

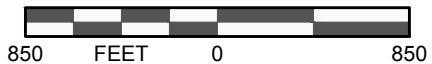


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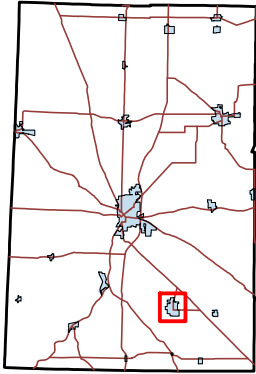
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SCALE: 1" = 850'



VICINITY MAP

NO SCALE



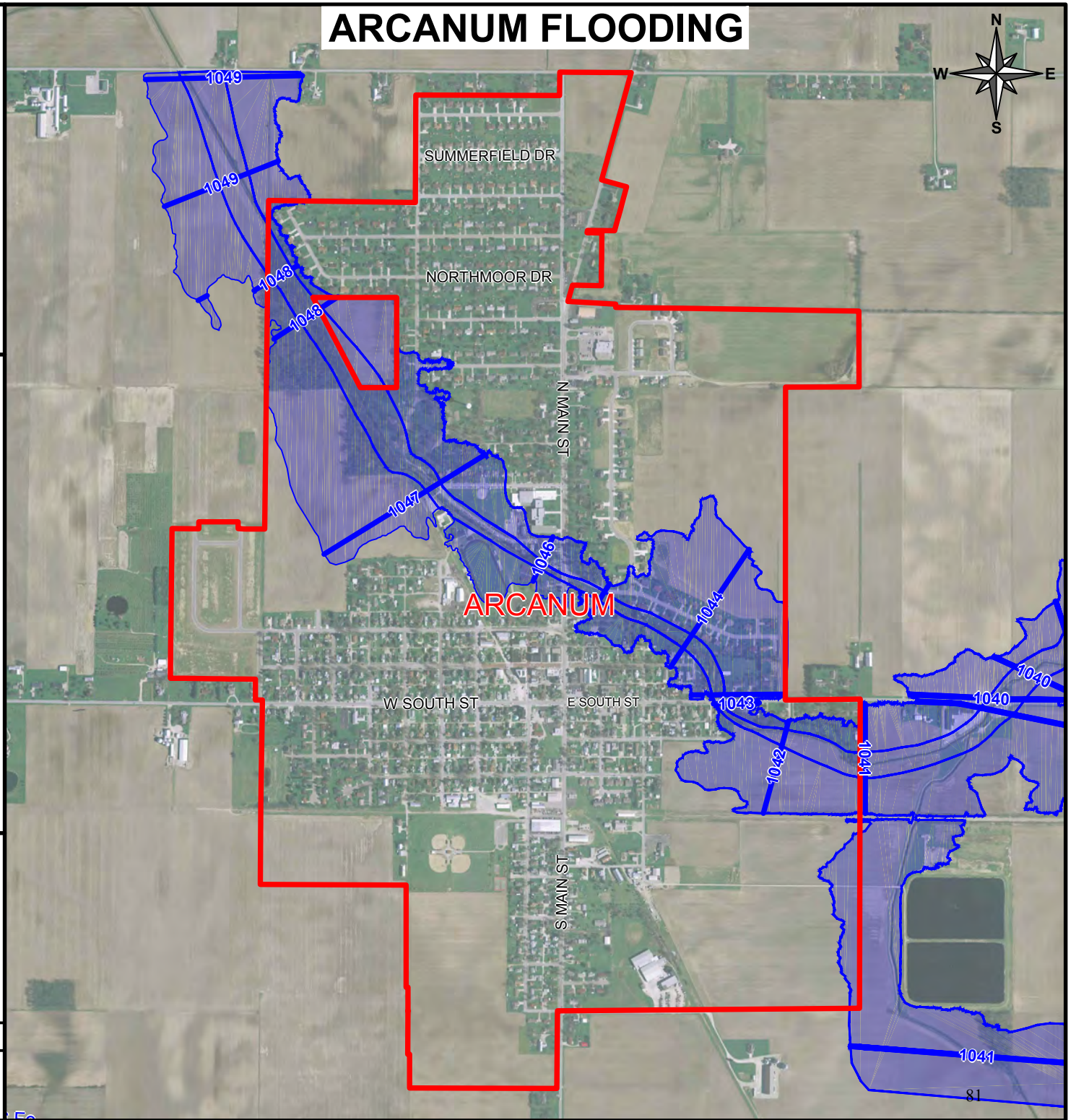
DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

-  CITY / VILLAGE CORPORATION LIMITS

ARCANUM FLOODING

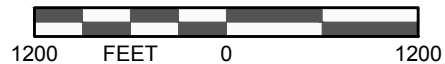


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SCALE: 1" = 1200'

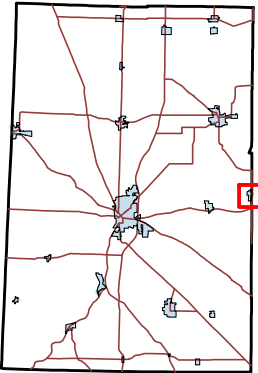


BRADFORD FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



DARKE COUNTY LINE



CITY / VILLAGE CORPORATION LIMITS

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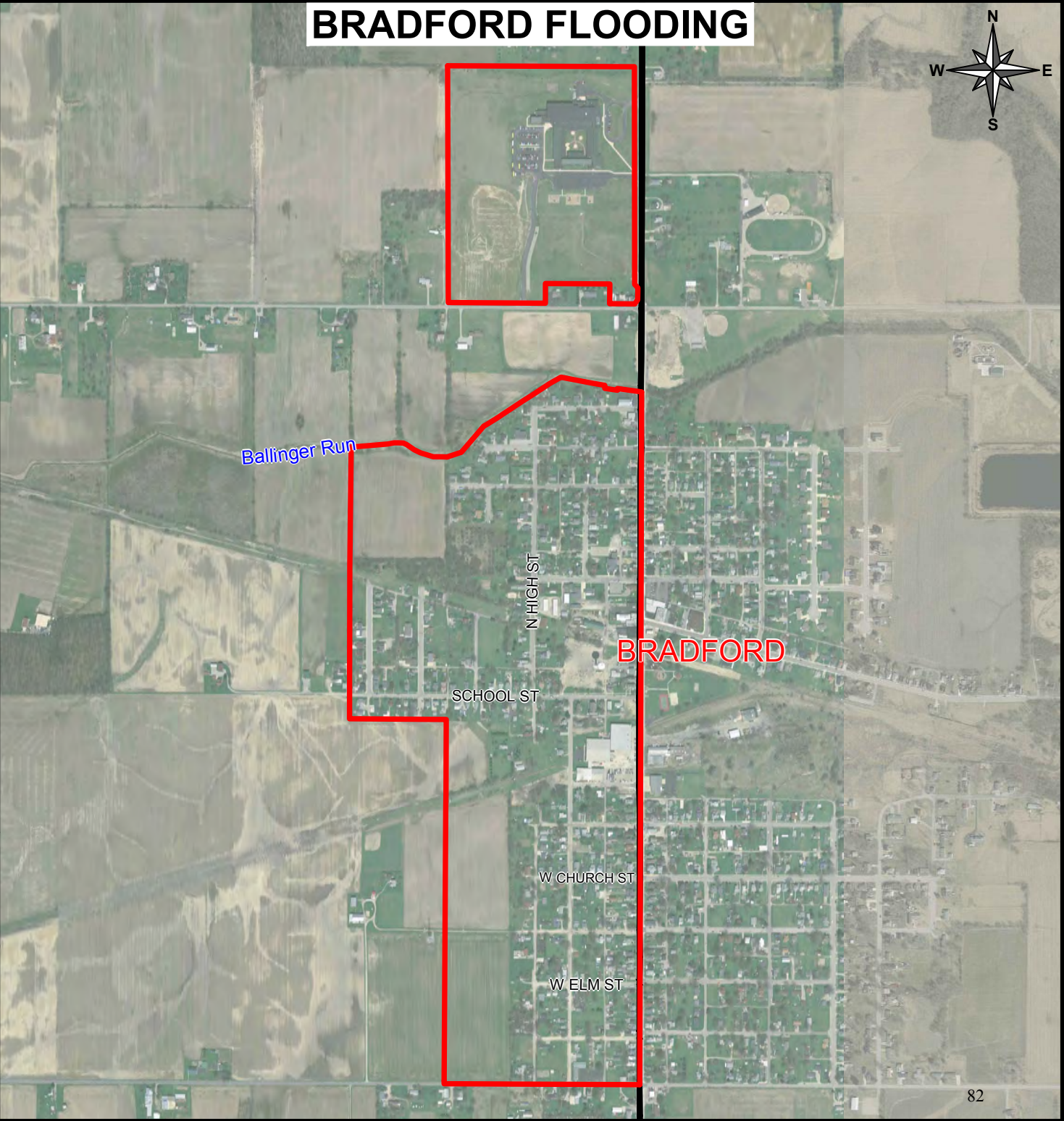
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SCALE: 1" = 950'



950 FEET 0 950

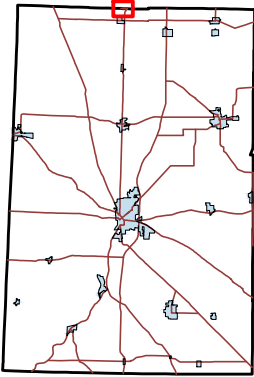


BURKETTSTVILLE FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



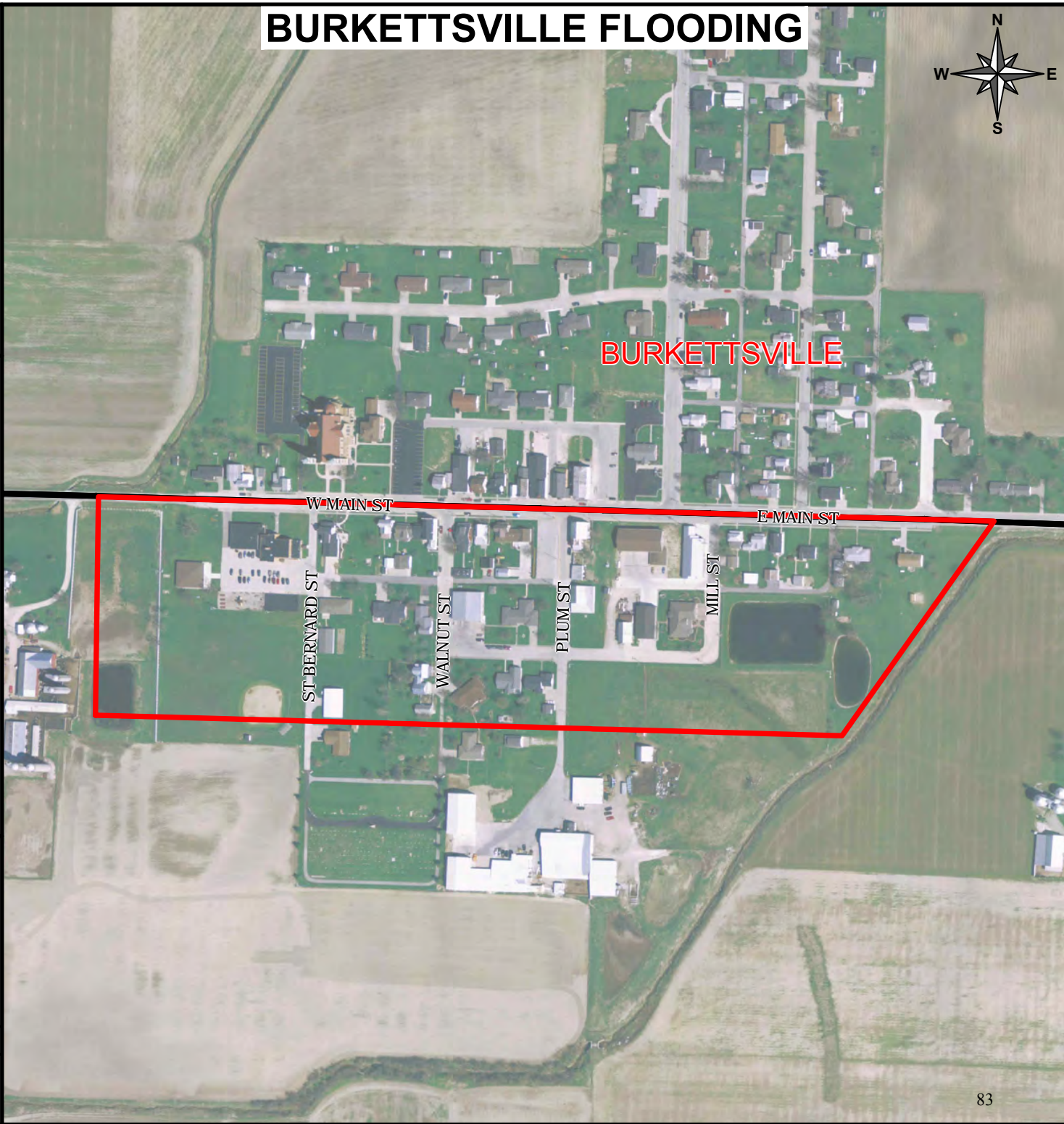
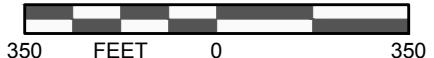
CITY / VILLAGE CORPORATION LIMITS

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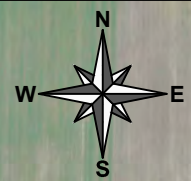
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SCALE: 1" = 350'

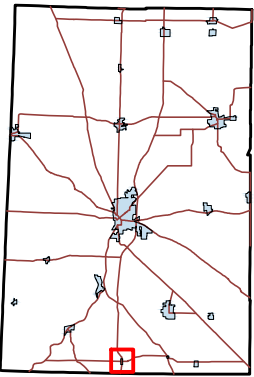


CASTINE FLOODING





VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

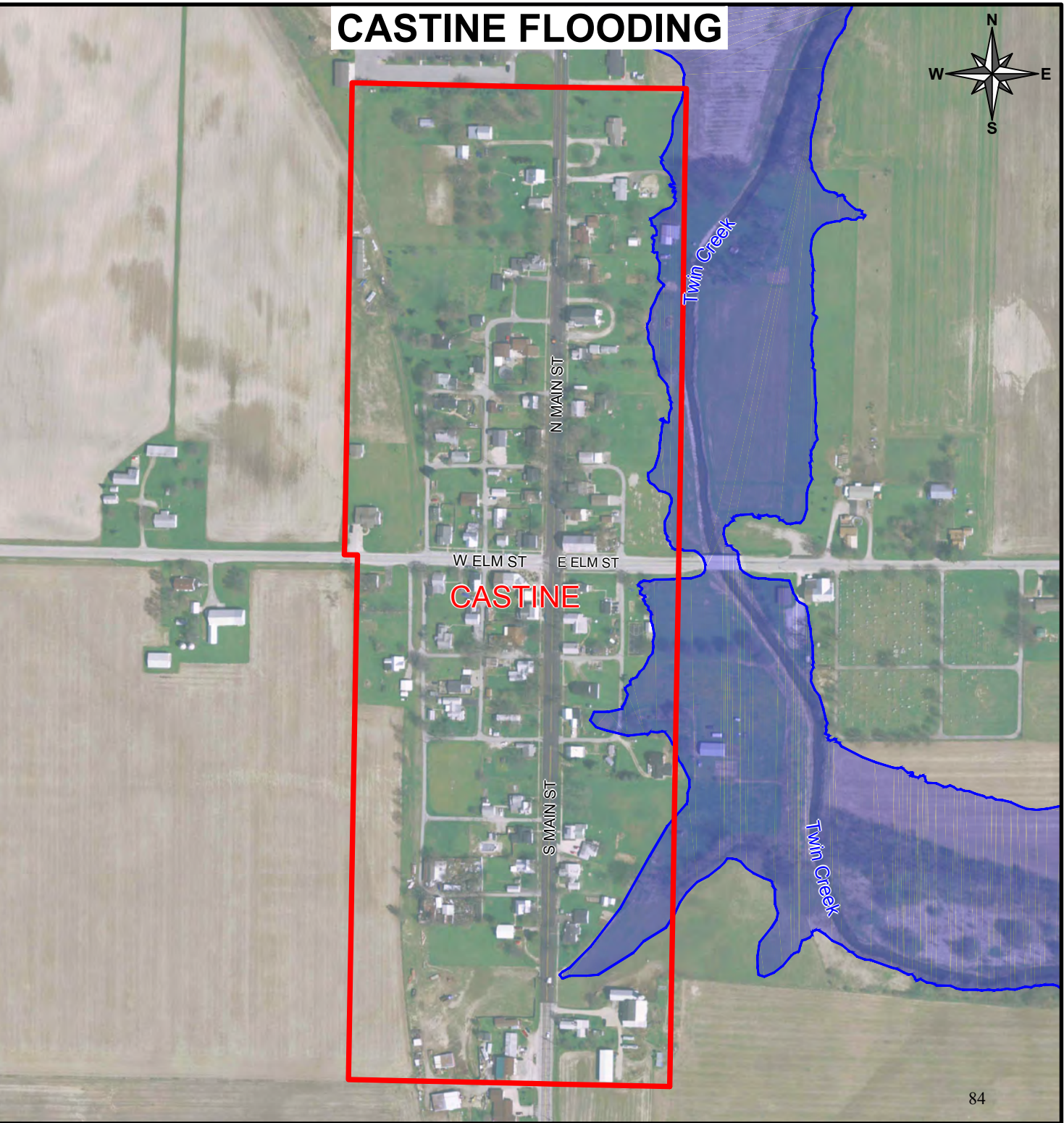
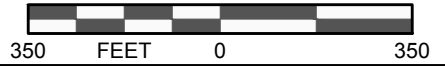
-  CITY / VILLAGE CORPORATION LIMITS

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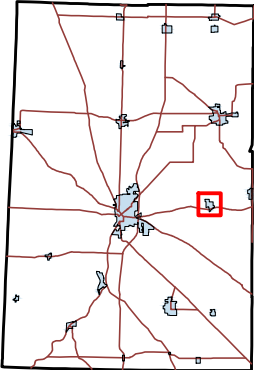
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SCALE: 1" = 350'



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

-  CITY / VILLAGE CORPORATION LIMITS

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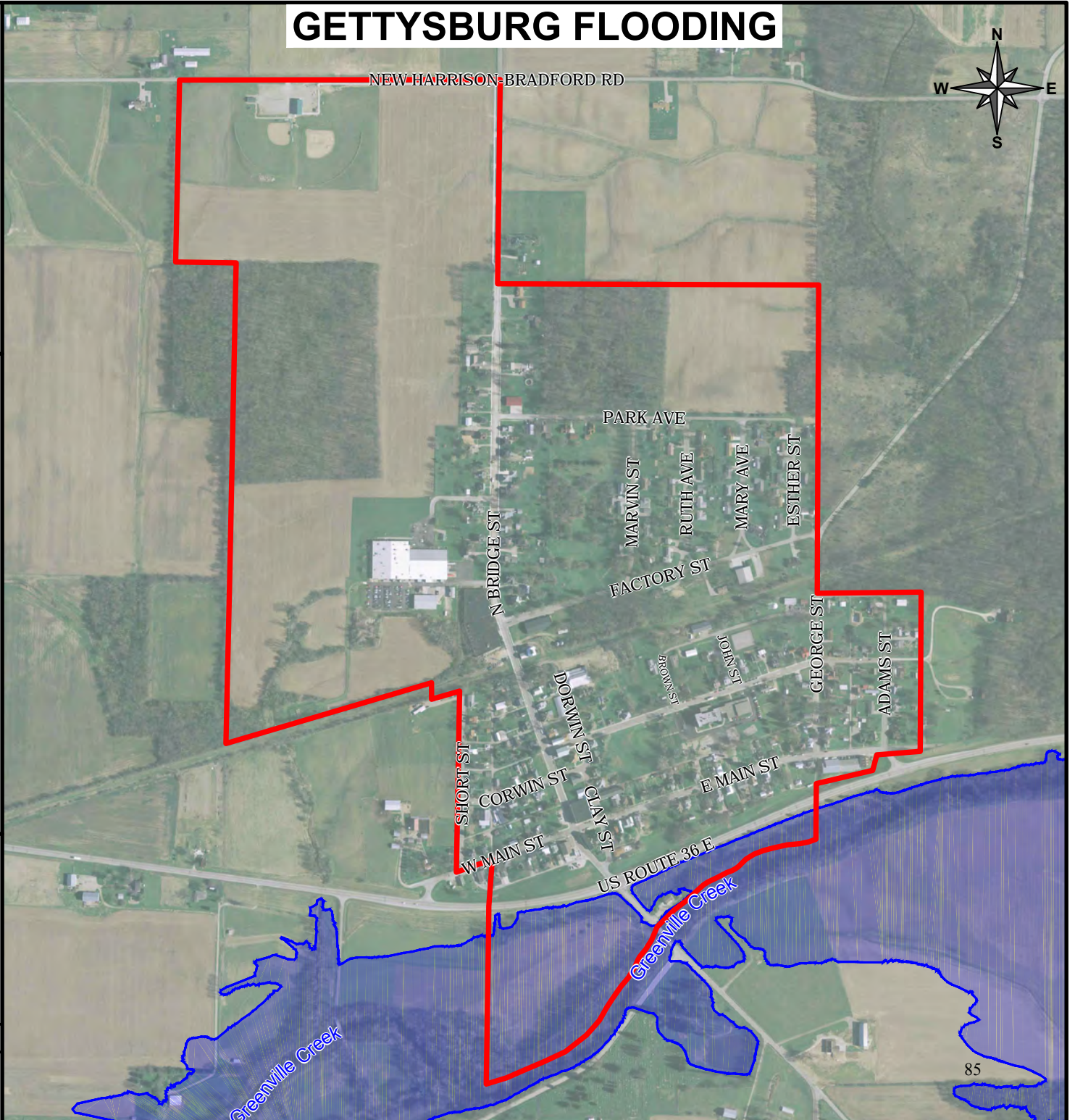
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SCALE: 1" = 750'



750 FEET 0 750

GETTYSBURG FLOODING

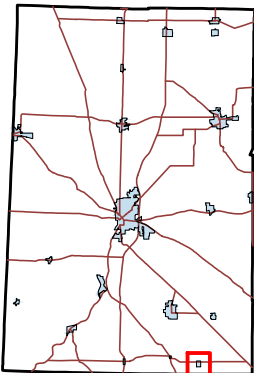


GORDON FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



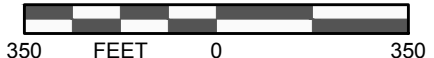
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SCALE: 1" = 350'



STATE ROUTE 722

NORTH ST

RAILROAD ST

WEST ST

CENTER ST

MAIN ST

PERRY ST

GORDON

SCOTT ST

SCOTT ST

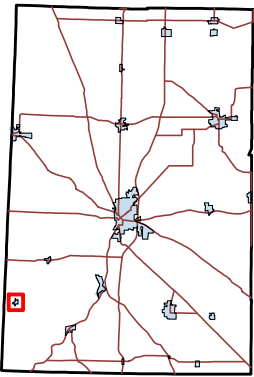
MAIN ST

HOLLANSBURG FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



CITY / VILLAGE CORPORATION LIMITS

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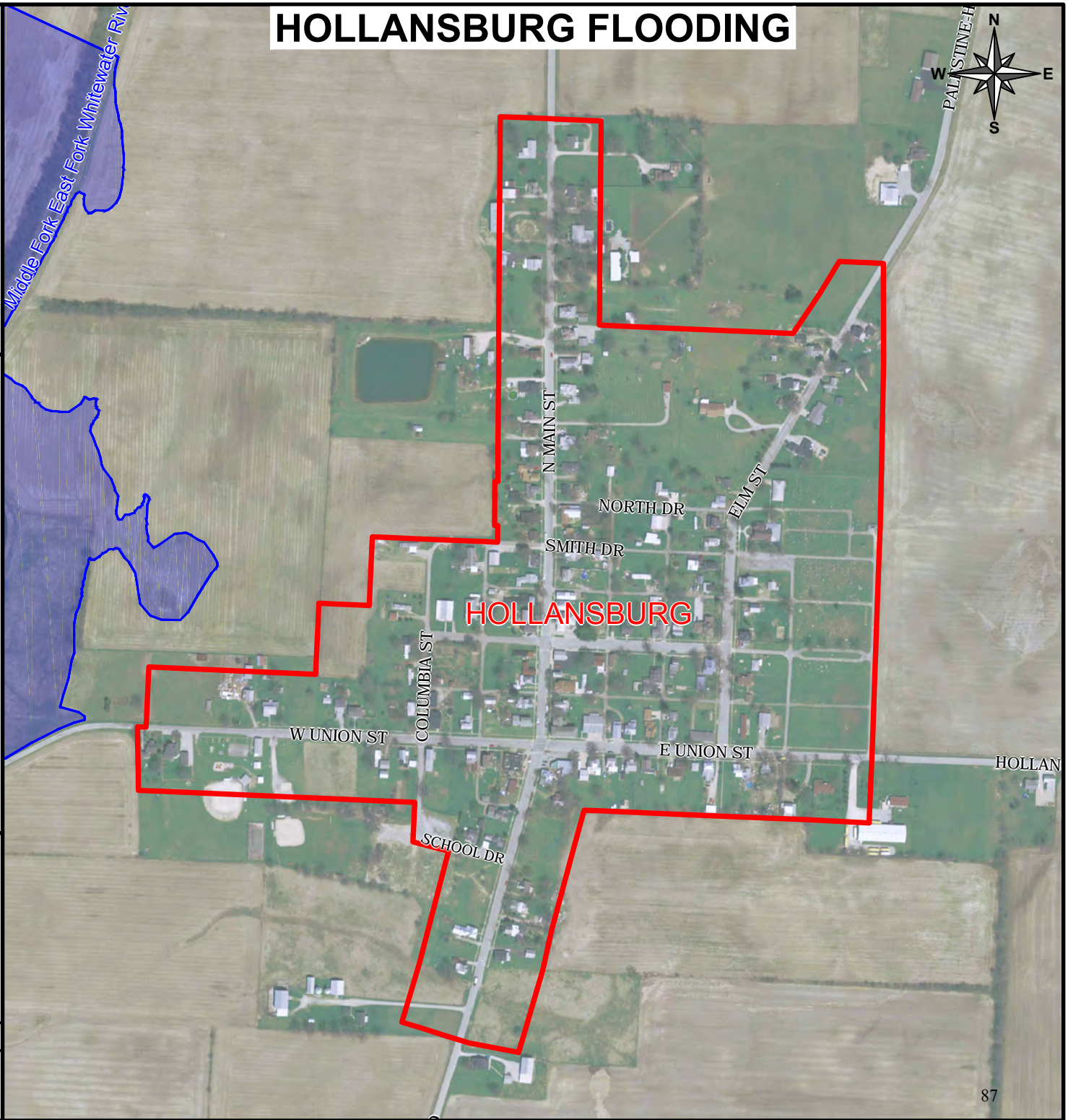
Address: 214 West Fourth Street
Greenville, OH 45331
Phone: (937)-548-7511
Fax: (937)-548-7484
Email: info@moteassociates.com
Website: www.moteassociates.com

DRAWN BY: CMB DATE: 4/13/18

SCALE: 1" = 450'

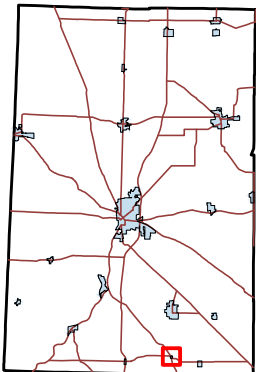


450 FEET 0 450






VICINITY MAP

NO SCALE

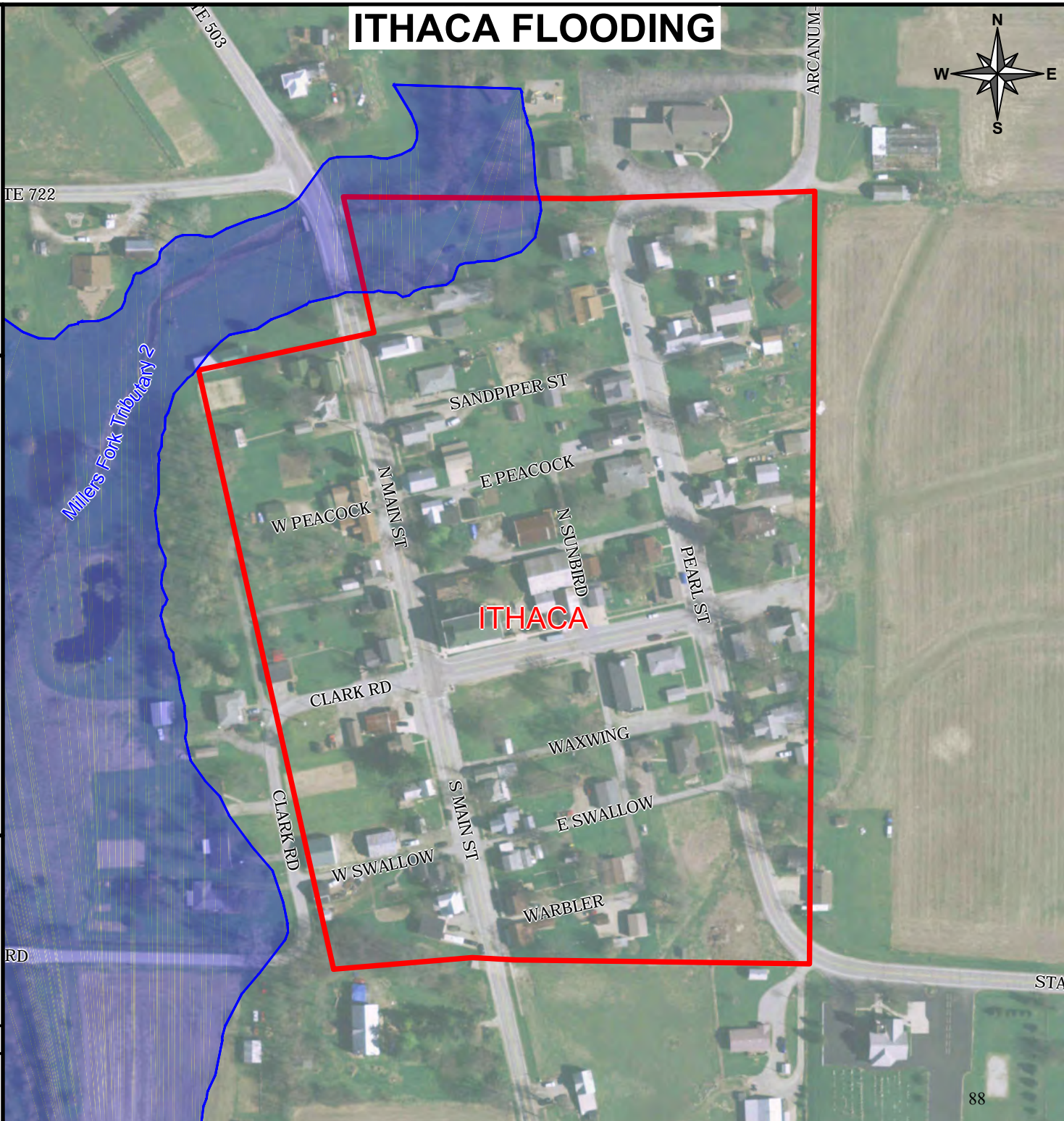


DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN
-  CITY / VILLAGE CORPORATION LIMITS

ITHACA FLOODING

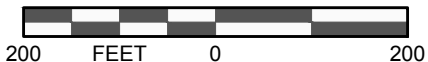


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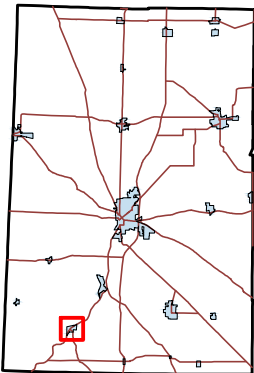
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SCALE: 1" = 200'



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY

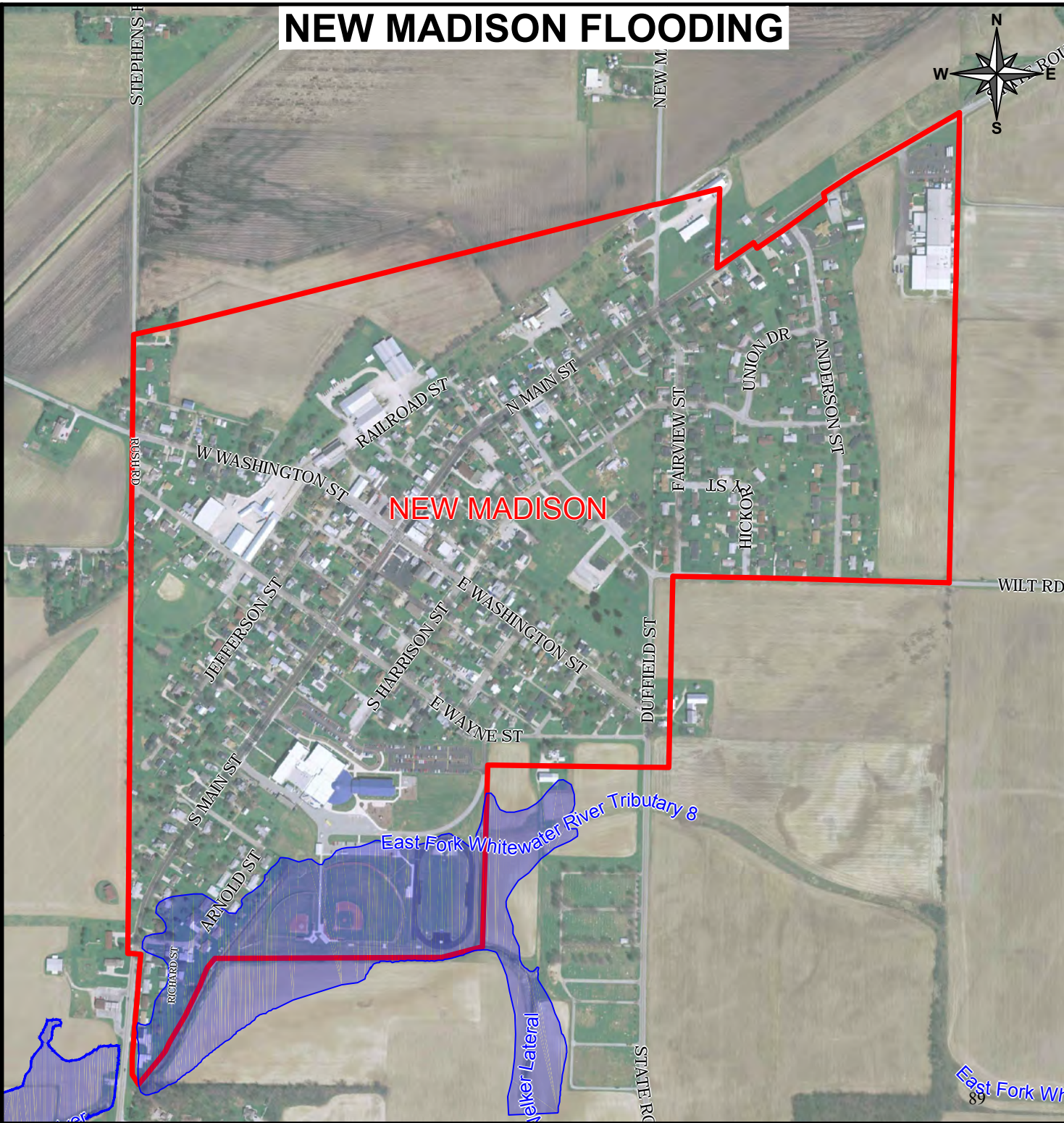


FLOODPLAIN



CITY / VILLAGE CORPORATION LIMITS

NEW MADISON FLOODING



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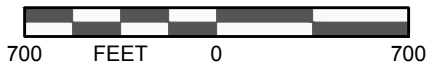
Email: info@moteassociates.com

Website: www.moteassociates.com

DRAWN BY: CMB

DATE: 4/13/18

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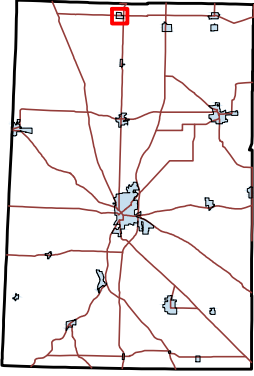


NEW WESTON FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



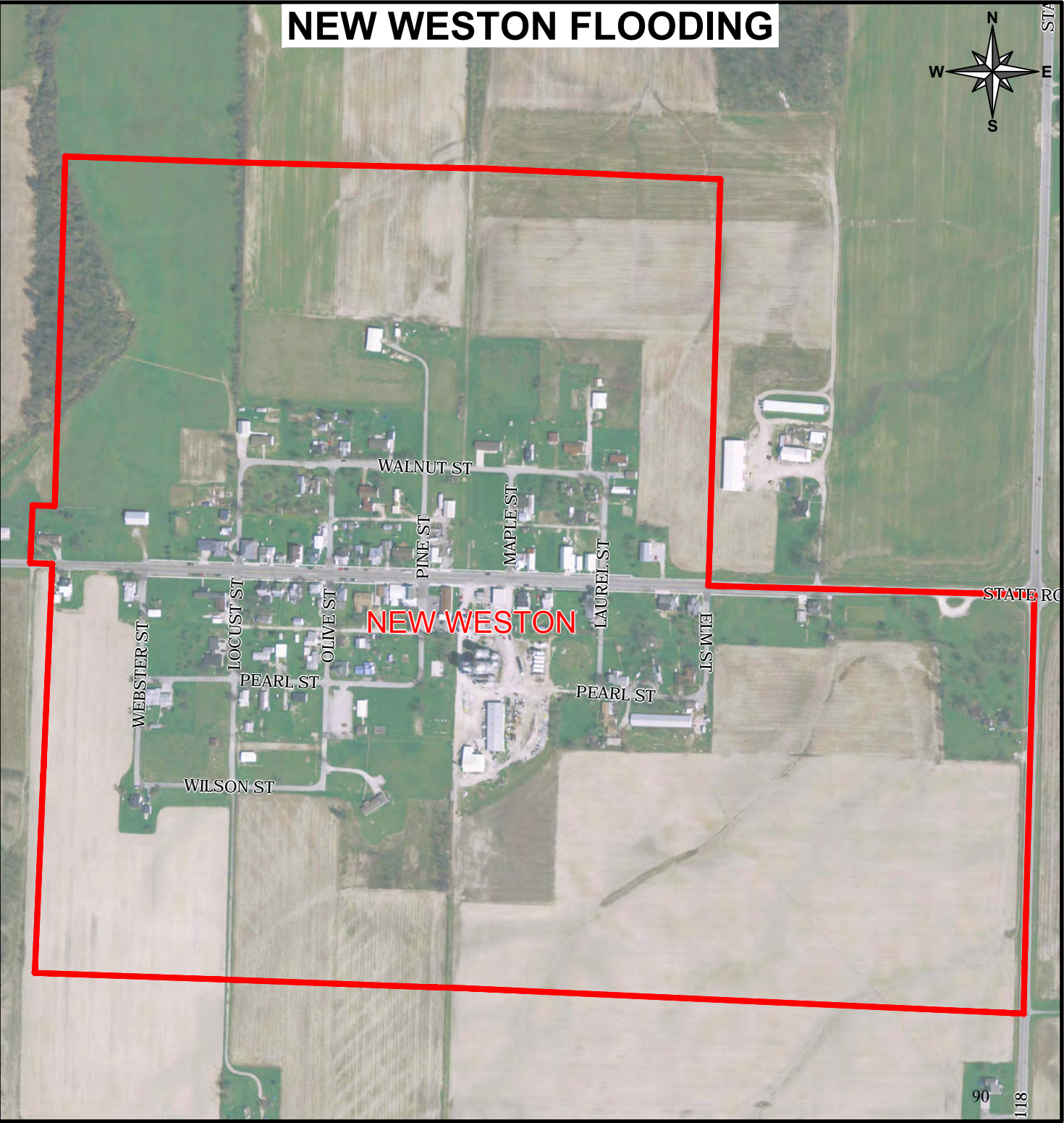
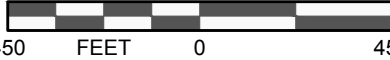
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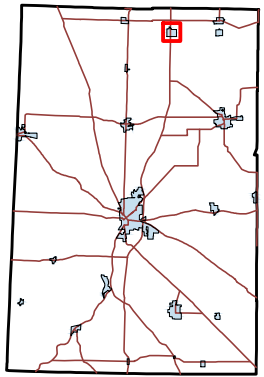


NORTH STAR FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



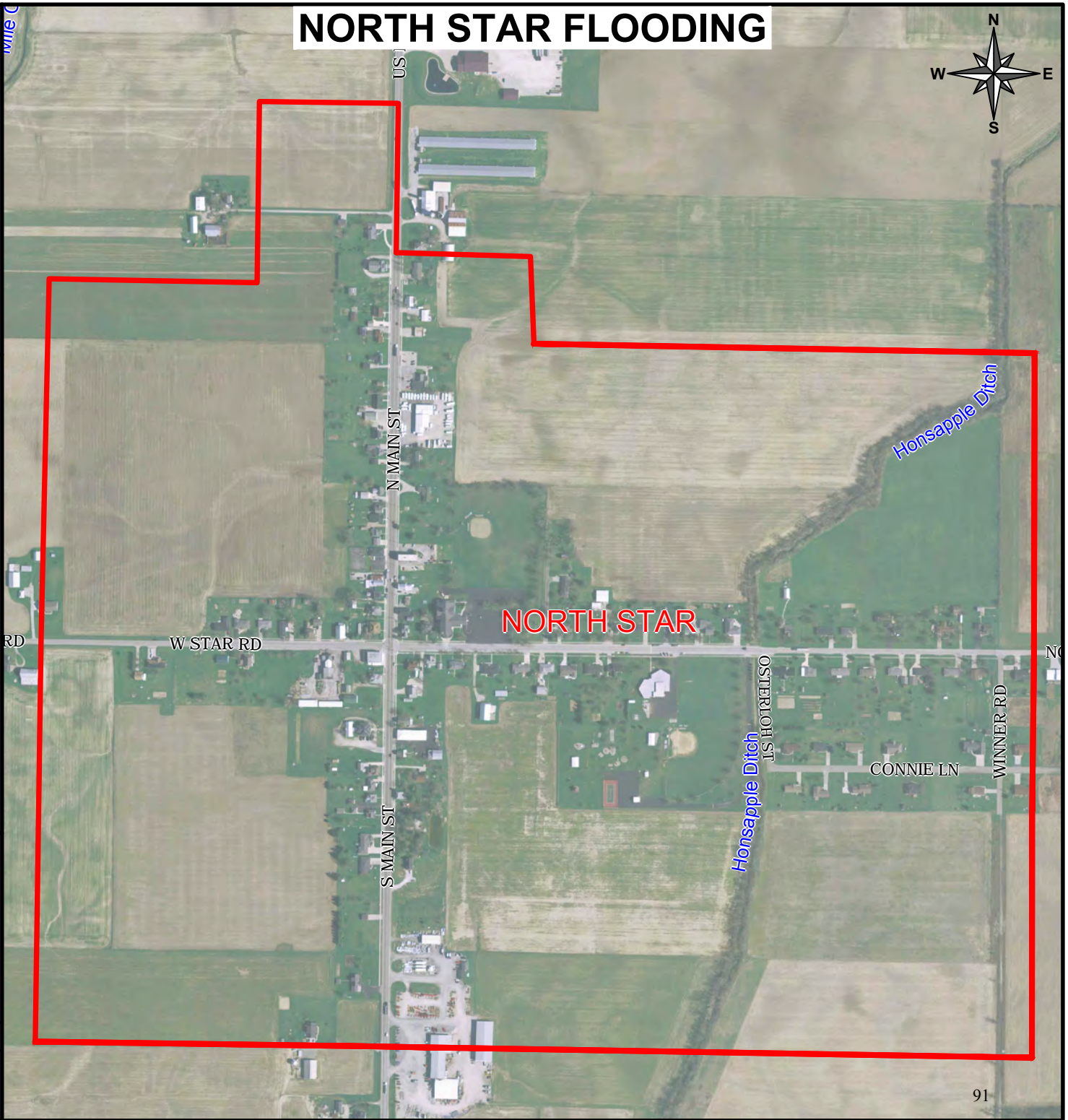
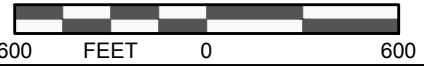
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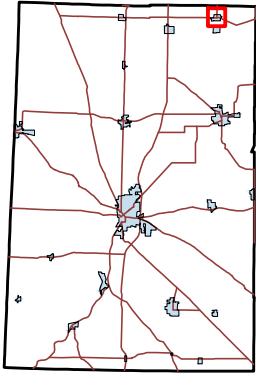


OSGOOD FLOODING




VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

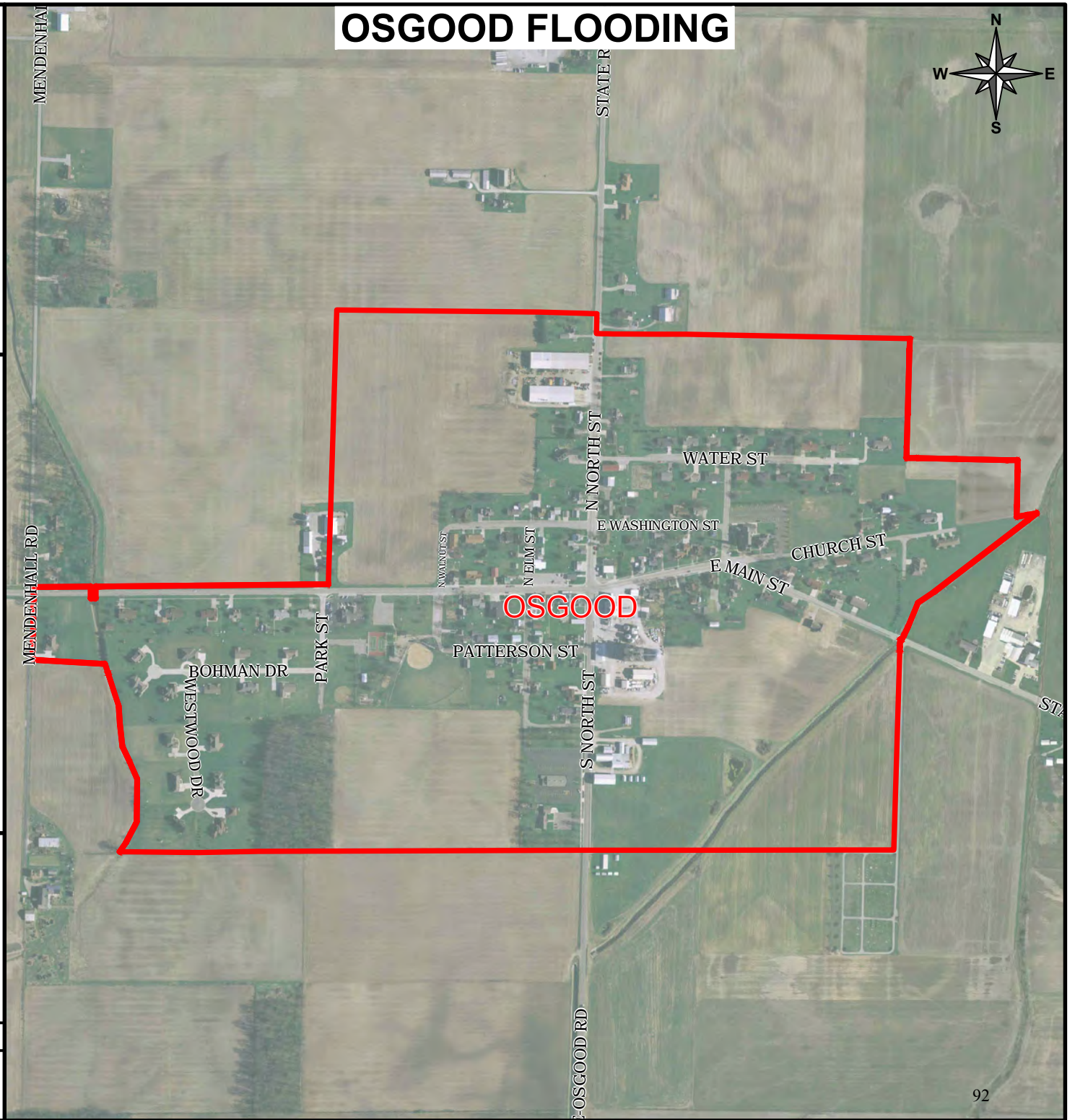
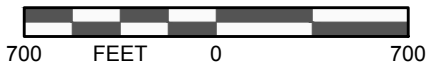
-  CITY / VILLAGE CORPORATION LIMITS

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DRAWN BY: CMB | DATE: 4/13/18

SCALE: 1" = 700'



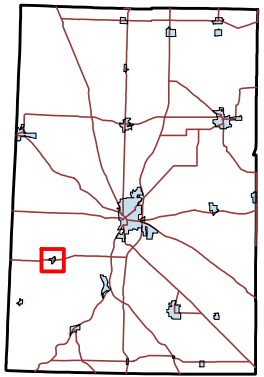
PALESTINE FLOODING



Spring




VICINITY MAP

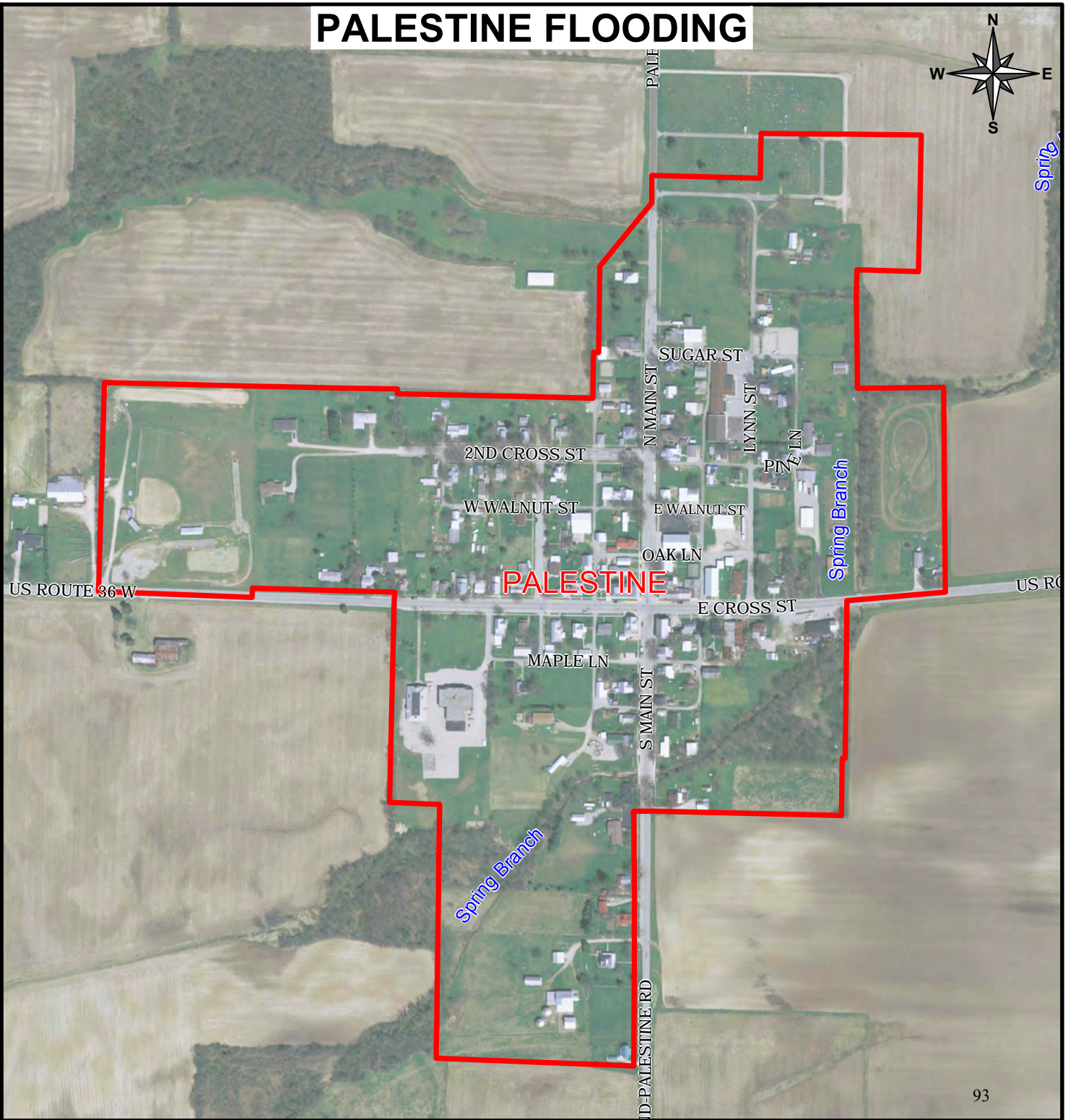
NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN
-  CITY / VILLAGE CORPORATION LIMITS

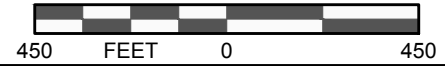


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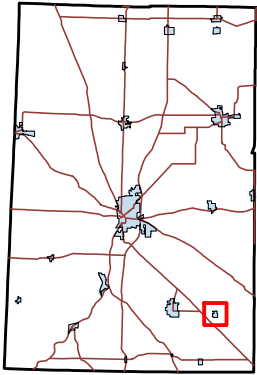
DRAWN BY: CMB DATE: 4/13/18

SCALE: 1" = 450'



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



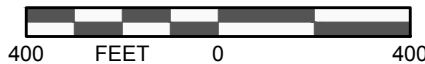
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CORPORATION LIMITS

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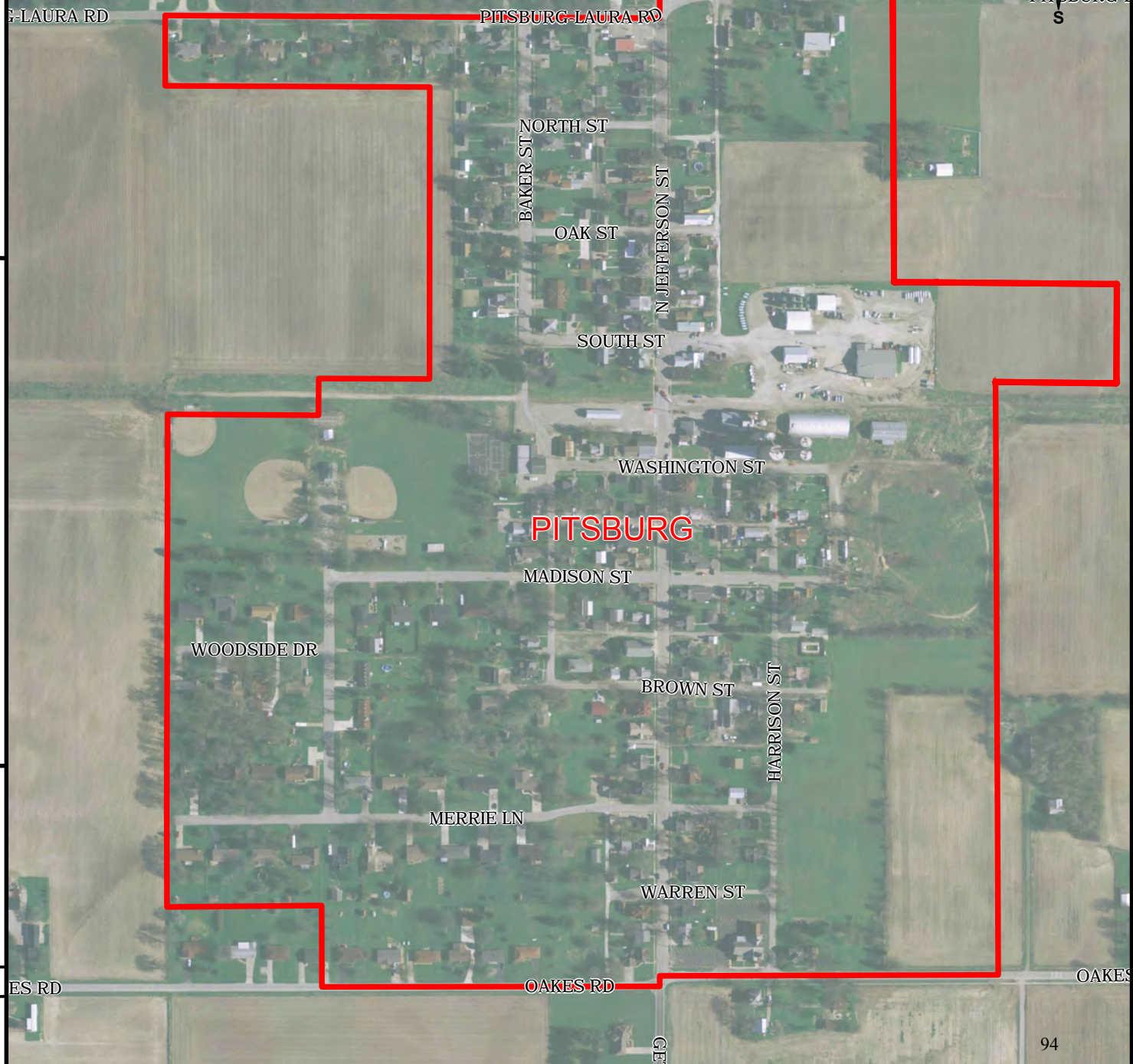
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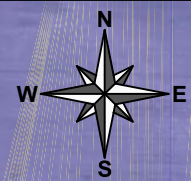
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PITSBURG FLOODING



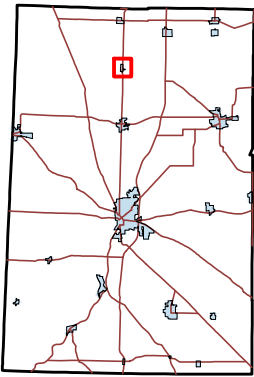
ROSSBURG FLOODING



North Fo



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

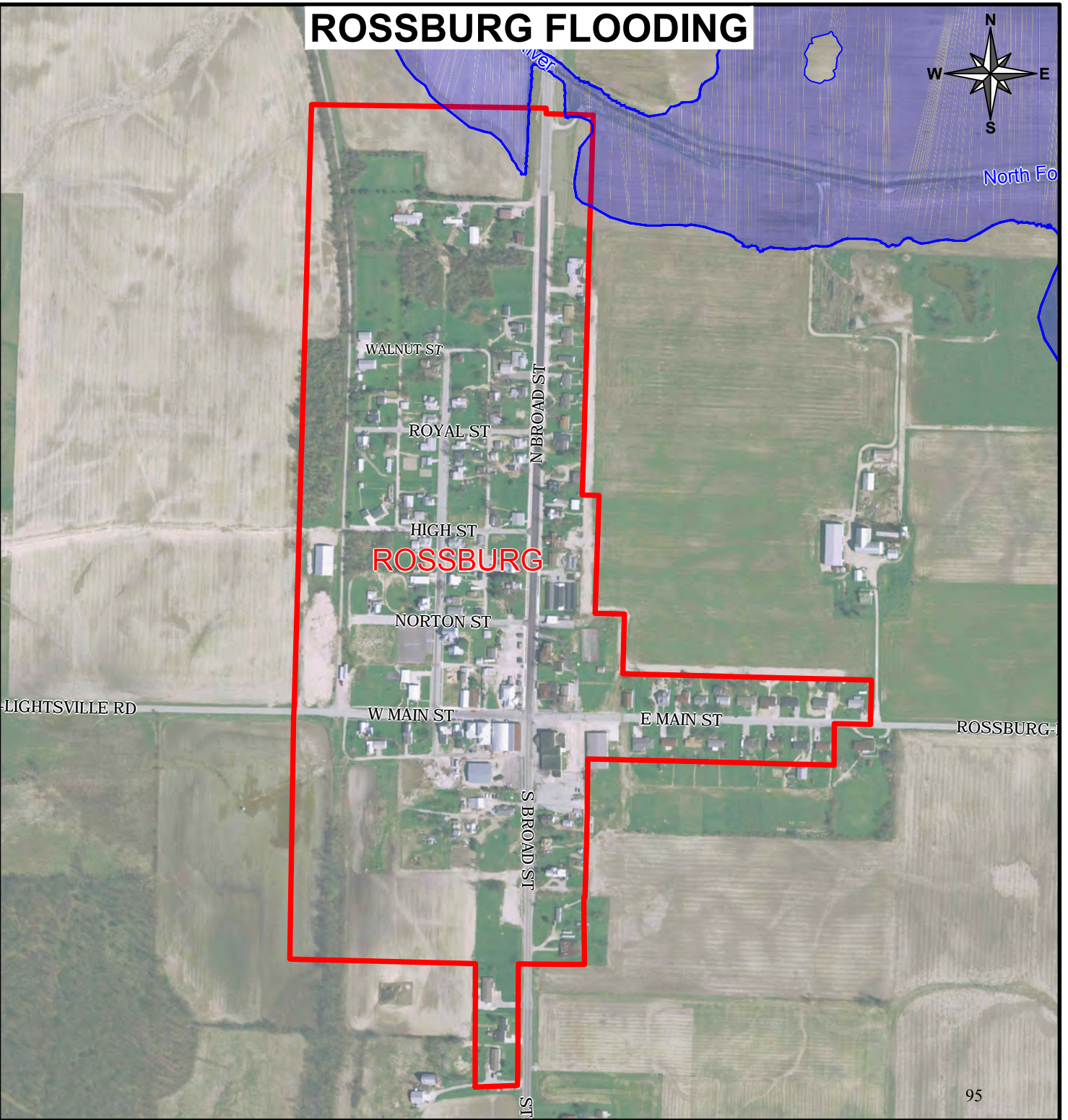
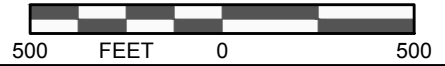
-  CITY / VILLAGE CORPORATION LIMITS

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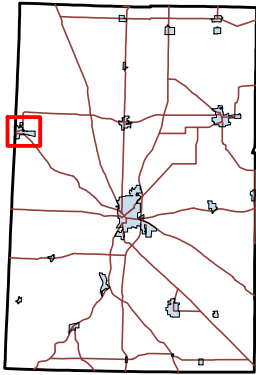
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SCALE: 1" = 500'



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

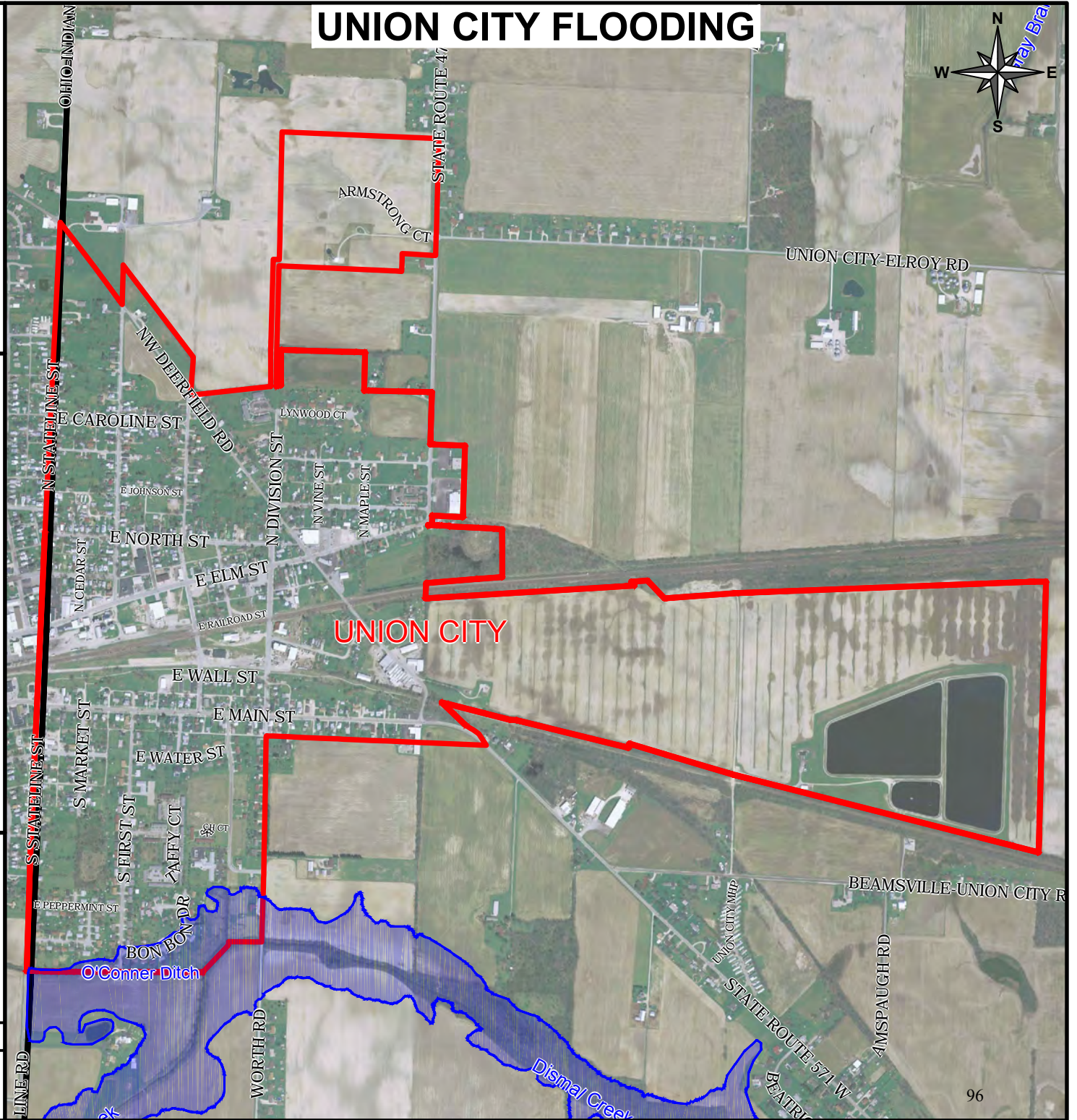
MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

 DARKE COUNTY LINE

 CITY / VILLAGE CORPORATION LIMITS

UNION CITY FLOODING



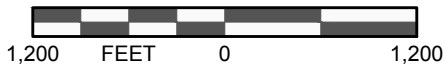
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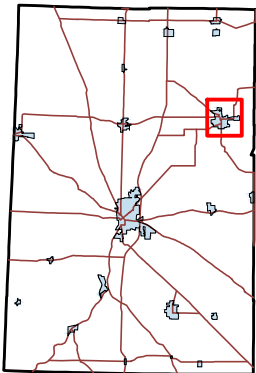
DRAWN BY: CMB DATE: 4/13/18

SCALE: 1" = 1,200'




VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

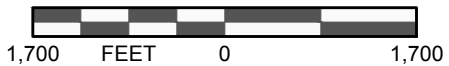
-  CITY / VILLAGE CORPORATION LIMITS

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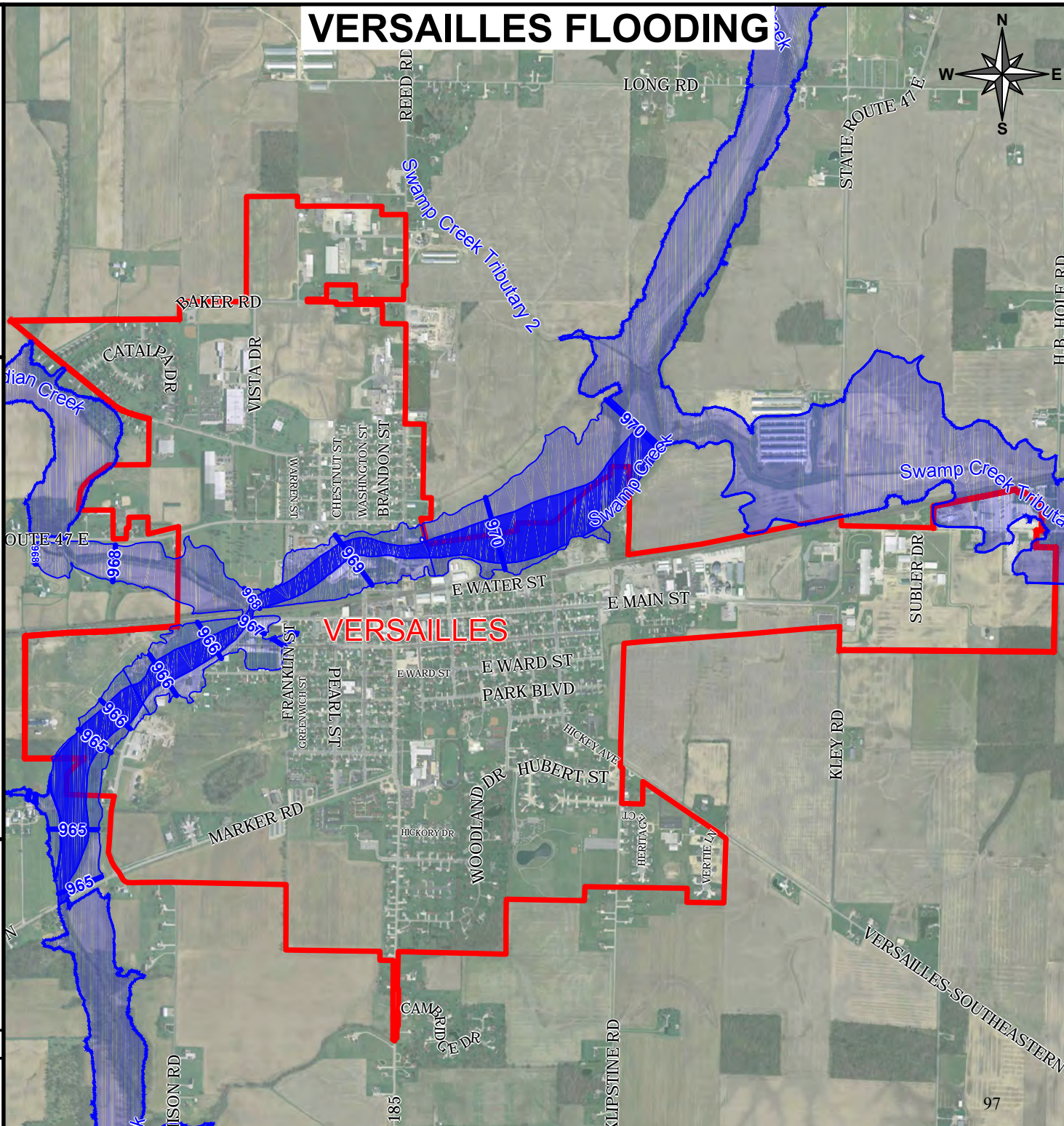
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SCALE: 1" = 1,700'

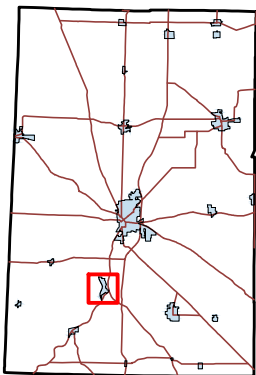


VERSAILLES FLOODING



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

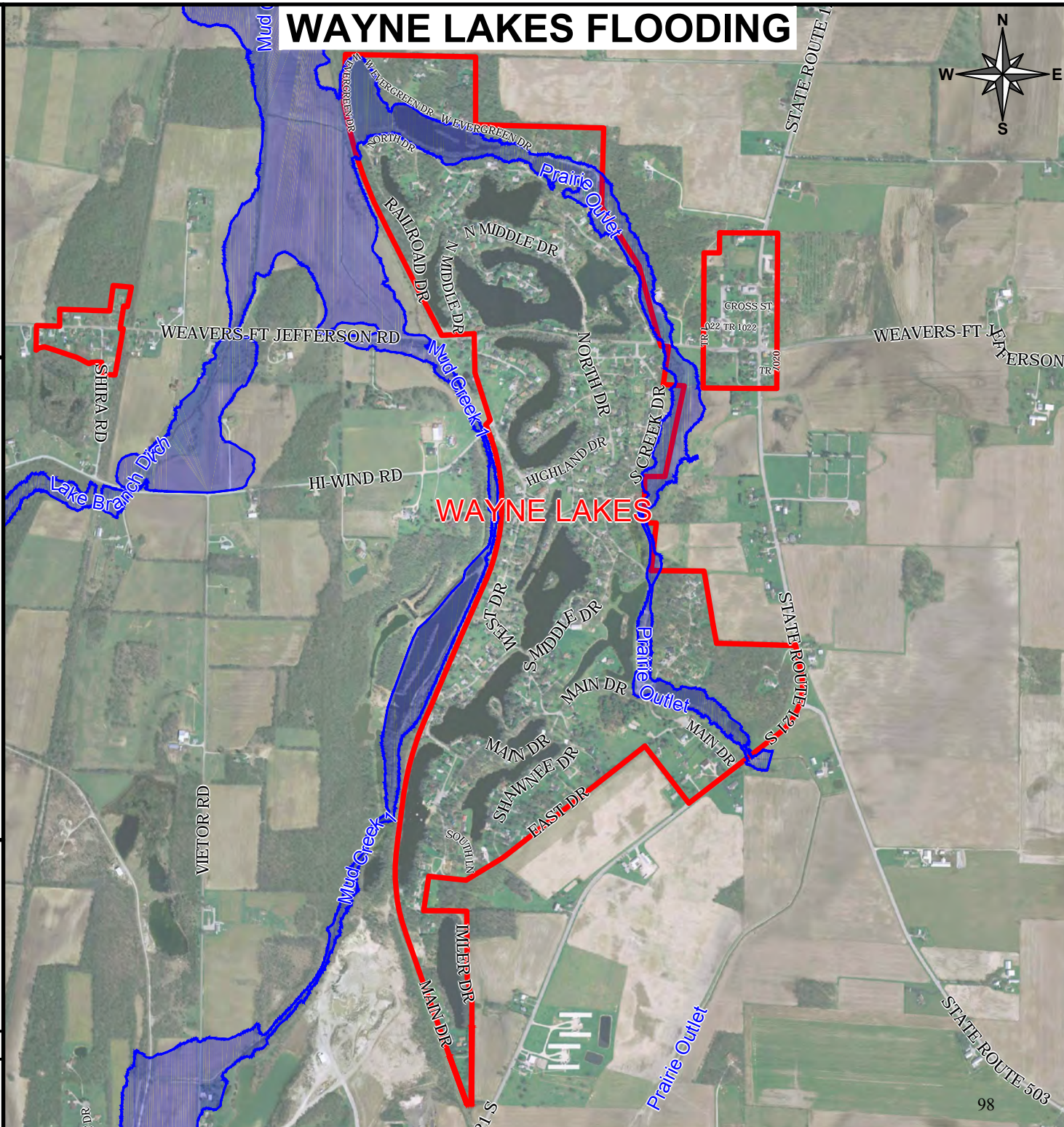
MAP LEGEND

 FLOODWAY

 FLOODPLAIN

 CITY / VILLAGE CORPORATION LIMITS

WAYNE LAKES FLOODING



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DATE: 4/13/18

SCALE: 1" = 1,350'



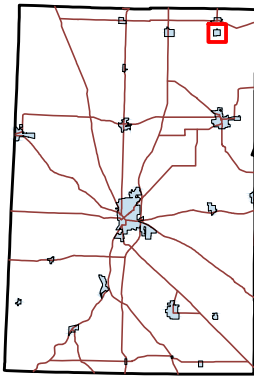
1350 FEET 0 1350

YORKSHIRE FLOODING





VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

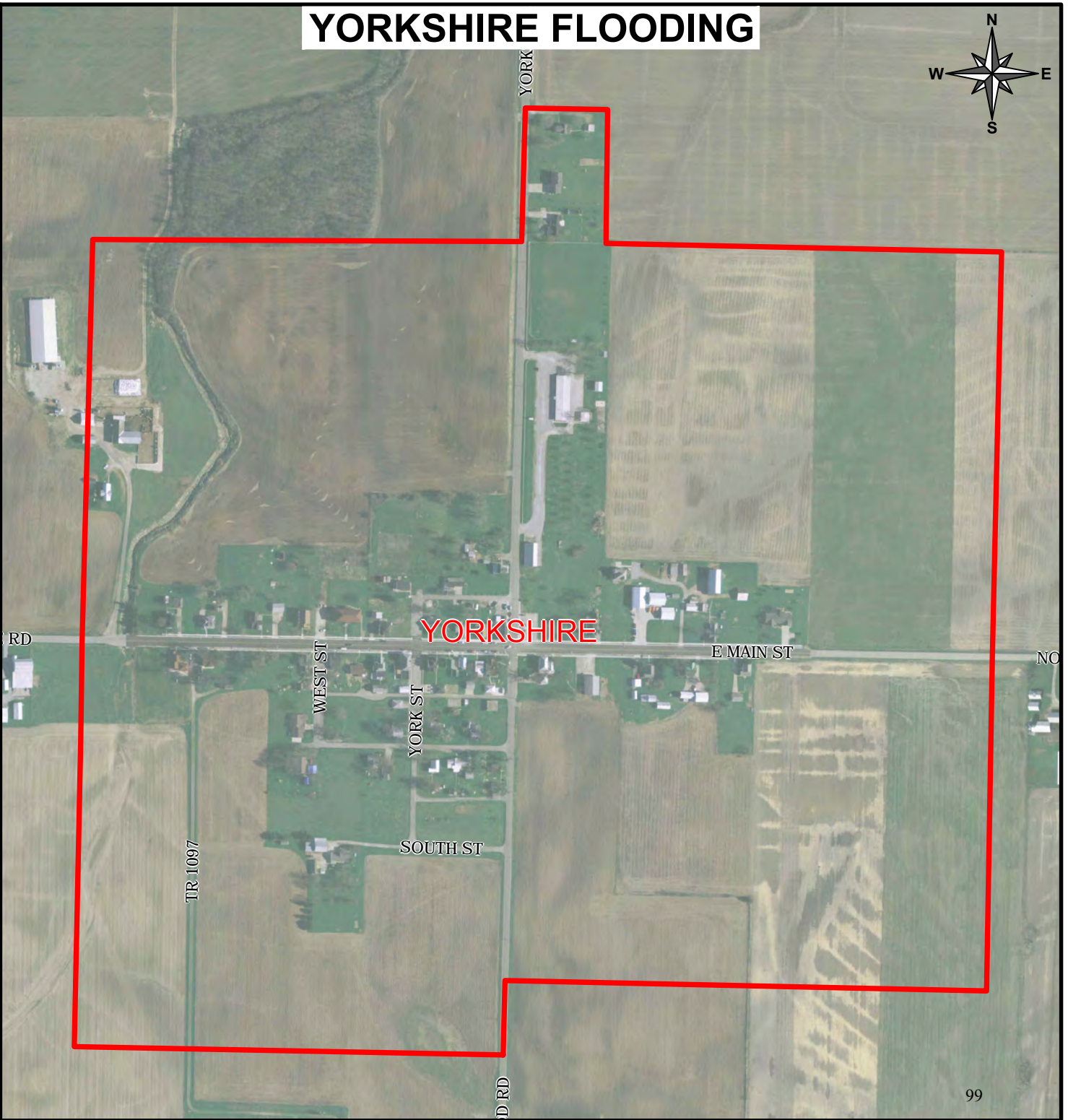
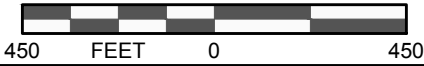
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SCALE: 1" = 450'



2.6 Tornadoes/High Wind Events

Overview

A windstorm is a storm with high winds or violent gusts sometimes called wind shears or micro bursts, but with little or no rain.

A tornado is a violently rotating column of air extending from a thunderstorm to the ground. The most violent tornadoes are capable of tremendous destruction with wind speeds of 300 mph or more. Damage paths can be in excess of one (1) mile wide and 50 miles long.

Tornadoes can range in size from massive to small. The majority of them are small and can occur at any time of the day or night and any time of the year. It is difficult to profile the risk of tornadoes. Therefore, estimations must be made based on past history and occurrences. Tornadoes are measured by damage scale for their wind capability.

The duration of tornadoes vary. Most tornadoes have wind speeds of less than 110 mph, are approximately 250 feet across, and travel a few miles before dissipating. The most extreme tornadoes can attain wind speeds of more than 300 miles per hour, stretch more than 2 miles across, and stay on the ground for dozens of miles. A tornado can strike a structure and it can be damaged or destroyed in just a matter of a few minutes.

In 1971, Dr. T. Theodore Fujita of the University of Chicago devised a six-category scale to classify U.S. tornadoes into six damage categories, called F0-F5. F0 describes the weakest tornadoes and F5 describes only the most destructive tornadoes. The Fujita tornado scale (or the “F-scale”) has subsequently become the definitive scale for estimating wind speeds within tornadoes based upon the damage caused by the tornado. It is used extensively by the National Weather Service (NWS) in investigating tornadoes, by scientists studying the behavior and climatology of tornadoes, and by engineers correlating damage to different types of structures with different estimated tornado wind speeds.

The devastating tornadoes in Jarrell, Texas on May 27, 1997 and Moore/Oklahoma City on May 3, 1999 demonstrated to many engineers, emergency managers and meteorologists that the wind estimates in the original F-scale may be too high. Their findings are described in the FEMA document #342: “Building Performance Assessment Team Report, Midwest Tornadoes of May 3, 1999, Observation, Recommendations and Technical Guidance”.

The enhanced Fujita tornado scale or EF-scale was unveiled by the NWS to the public and the full meteorological community early in 2006. On February 1, 2007, the Enhanced Fujita scale replaced the original Fujita scale in all tornado damage surveys in the United States. It is important to note that, despite the improvements, the EF-scale still remains a set of *wind estimates* based on 8 levels of damage to 28 different types of structures and vegetation.

Below is a table comparing the estimated winds in the original F-scale and the operational EF-scale that is currently in use by the NWS.

The Enhanced Fujita Tornado Scale				
Fujita Scale			Operational EF-Scale	
F Number	Fastest ¼-mile (mph)	3 Second Gust (mph)	EF Number	3 Second Gust (mph)
0	40-72	45-78	0	65-85
1	73-112	79-117	1	86-110
2	113-157	118-161	2	111-135
3	158-207	162-209	3	136-165
4	208-260	210-261	4	166-200

Damages one might expect from the varying intensities are as follows:

- F-0 Light damage to trees and buildings
- F-1 Moderate damage to trees and buildings, roofs peeled off, mobile homes disturbed
- F-2 Considerable damage to trees and buildings, roofs torn off frame houses, mobile homes destroyed, large trees down
- F-3 Severe damage to trees and buildings, roofs and walls torn off well-constructed buildings, trees uprooted, trains overturned
- F-4 Devastating damage, well-constructed houses leveled, large missiles generated
- F-5 Incredible damage, strong houses lifted off foundations and carried considerable distances to disintegration, trees debarked, automobiles fly through the air and become missiles

Ohio and Darke County have a significant history of deadly tornadoes. The following chart provides data regarding the known tornado events to occur in Darke County which typically have a higher frequency in the spring and summer months but can occur anytime, such as evidenced by the November 22, 1992 Arcanum tornado.

Past Occurrences

According to historical data, the 2 tornadoes that occurred on March 28, 1920 that hit on Palm Sunday in Darke County were the most devastating as there were 12 deaths. According to historical accounts “a tornado entered Darke County and destroyed a number of farm houses, a school, and a church, causing four deaths near Lightsville. A few minutes later, a stronger tornado followed a parallel path through Darke County

about 8 miles south of the first Darke County tornado. It was a violent storm 1200 feet wide and destroyed homes and farms killing 8 people near Nashville, Palestine, and Greenville. The landmark Linamude School on Union City Pike was ‘torn brick from brick’”. Although the 1920 tornado was not rated, at least 3 tornadoes have been categorized as an F-3 on the Fujita tornado scale.

The most recent devastating F-3 tornado was in the Village of Arcanum in southern Darke County on November 22, 1992 with an estimated \$10 million dollars in damages. The Arcanum tornado was an 18-mile-long tornado, 400 yards wide, and hit western Preble County as well as Darke County. The Darke County Village of Ithaca also suffered damage during this storm. Inside the Village of Arcanum corporation, 54 homes were damaged, 32 of them severely. Two persons were hospitalized and 13 persons were treated and released with minor injuries. At least 12 businesses within the Village received major damage.

On October 26, 2010 in the southern part of Darke County a tornado occurred. The tornado path was approximately 4 miles long. The damage was consistent with winds of 90 mph and was classified as an F-1 tornado. The area of touchdown was rural. A barn was destroyed along State Route 726. The tornado continued across State Route 726, where it hit a residence on Preble County-Butler Township Line Road. At this location, outbuildings were destroyed and significant tree damage occurred. The tornado then headed northeast and hit a residence on Emrick Road, where the most significant damage occurred. Outbuildings were destroyed before the funnel did further damage to a farm on Otterbein-Ithaca Road, doing roof damage to a house and partially collapsing a barn.

Since the last plan update, there have been 4 EF-0 tornados to hit Darke County causing \$36,500 in property damage and \$10,000 in crop damage. On March 14, 2016 a EF-1 tornado hit Arcanum causing \$75,000 in property damage. The tornado path was approximately 2.2 miles long and had an estimated maximum wind speed of 100 mph. The most significant damage occurred at a property south of Dull Road. The brick house suffered minor damage as well as two outbuildings on the property. The horse stable located at the southern end of the property was almost completely destroyed. Tree damage was also significant with large limbs scattered everywhere while others were snapped off above ground level.

On September 14, 2008 a windstorm hit the County which were a result of the remnants of Tropical Storm Ike. There were sustained winds of 60-70 mph with higher wind gusts. The County experienced many downed limbs, trees, power lines, and structural damage to roofs and outbuildings. The County sustained \$6.2 million in property damage.

There have only been 3 high wind events since the last plan update with only \$500 in damages.

According to the State Hazard Mitigation Plan, no tornado disaster declarations have been made as a result of the tornadoes in Darke County.

The following charts indicate past history of high winds and tornado events in Darke County.

Darke County Tornadoes - Past Occurrences					
Date	Location	Magnitude	Damage Amount	Number of Injuries	Deaths
3/28/1920	Nashville/Palestine/Greenville	Unknown	Unknown	Unknown	8
3/28/1920	Lightsville	Unknown	Unknown	Unknown	4
11/15/1955	S.R. 502 West of Greenville	F-3	\$2.5 million	1	0
6/9/1958	East of Greenville	Unknown	\$25,000	0	0
7/28/1961	North of Ansonia	F-3	\$250,000	2	0
5/27/1963	West of Greenville	F-2	\$25,000	0	0
5/16/1965	South of Versailles	F-1	\$25,000	2	0
4/1/1974	Greenville	F-0	\$2,500	0	0
7/2/1978	South of Gettysburg	F-0	\$25,000	0	0
4/8/1980	South of Arcanum	F-2	\$2.5 million	0	0
6/21/1981	North of Ansonia	F-1	\$250,000	0	0
6/18/1992	Bradford	F-0	0	0	0
11/22/1992	Arcanum	F-3	\$25 million	21	0
6/15/1998	5 Miles North of Greenville	F-0	\$10,000	0	0
9/26/2003	North of New Weston	F-1	\$100,000	0	0
8/19/2009	S.R. 502 - Weimers Mill	EF0	0	0	0
10/26/2010	Braffetsville-Castine	EF1	\$75,000	0	0
05/26/2011	Gettysburg	EF0	0	0	0
12/23/2015	Pitsburg	EF0	\$6,000	0	0
03/14/2016	Pitsburg	EF0	\$20,000	0	0
03/14/2016	Arcanum	EF1	\$75,000	0	0
08/20/2016	Landis	EF0	\$20,500	0	0

From the above chart, the known tornado magnitude breakdown in Darke County is as follows:

Darke County Tornadoes - Magnitude Breakdown (1955 to 2018)			
Unknown	1	EF0	5
F0	4	EF1	2
F1	3	EF2	0
F2	2	EF3	0
F3	3	EF4	0
F4	0	EF5	0
F5	0		

The known tornado damage occurring since 1955 is approximately \$31 million dollars.

Darke County, Ohio High Wind Events Data Summary from the National Climatic Data Center						
Year	Date of Reported High Wind Events	Type	Deaths	Injuries	Estimated Property Damage	Crop Damage
1997	April 6	High Winds	0	0	0K	0
2000	December 11	High Winds	0	0	0K	0
2002	March 9	High Winds	0	0	12K	0
2003	May 11	High Winds	0	0	0K	0
2006	December 1	High Winds	0	0	10K	0
2008	September 14	High Winds	0	0	6.2M	0
2009	February 11	High Winds	0	0	0K	0
2009	December 9	High Winds	0	0	0K	0
2012	December 20	High Winds	0	0	0K	0
2014	November 24	High Winds	0	0	0K	0
2016	April 3	High Winds	0	0	.50K	0
Totals			0	0	6.22Million	0
<p>Note: The years of 1994, 1995, 1996, 1998, 1999, 2001, 2004, 2005, 2007, 2009, 2010, 2011, 2013 and 2015 did not indicate any high wind damage.</p> <p>Sources: From NOAA, NCDC Event Period 01/01/1994 – 05/31/2018</p>						

Probability of Future Events

Between 1950 and May 31, 2018, Darke County has experienced 20 tornadoes. This is an average of 1 every 3.40 years. The percentages, based on magnitude to date, have been:

Darke County Tornadoes Magnitude Percentages (1955 to 2018)						
Unknown	1	5.00%		EF0	5	25.00%
F0	4	20.00%		EF1	2	10.00%
F1	3	15.00%		EF2	0	0.00%
F2	2	10.00%		EF3	0	0.00%
F3	3	15.00%		EF4	0	0.00%
F4	0	0.00%		EF5	0	0.00%
F5	0	0.00%				

The percentages of tornadoes by season to strike Darke County since 1955 have been:

Spring:	March 21 – June 20	10	50%
Summer:	June 21 – September 20	5	25%
Fall:	September 21 – December 20	4	20%
Winter:	December 21 – March 20	1	5%

The paths of the tornadoes have occurred throughout the County including northern, central, and southern portions, so no part of the County is exempt from a tornado strike. However, mobile homes, camping trailers, temporary shelters, and poorly constructed buildings are more vulnerable to damage.

Vulnerability Analysis & Loss Estimation

Methodology – Based on the magnitude and the past history, there is a likelihood of the occurrence of an EF-3 or stronger tornado striking Darke County. These relative ratings were determined by review of actual tornado occurrences since the 1920 killer tornado. Based on the frequency of occurrence, Darke County has been assigned into a medium risk category.

Darke County has 884 mobile home units built without wind-resistant construction standards and would suffer catastrophic destruction as the result of a strike by an EF-2 or stronger tornado. According to past history reports, severe winds have damaged or overturned numerous mobile homes in Darke County. On a statewide basis, Ohio does not have building codes that address wind resistance for most types of residential dwellings.

By using Darke County Real Estate housing and commercial real estate data, the F-3 tornado was used as a benchmark to determine potential tornado loss damages.

The entire county is vulnerable and susceptible to be struck by a tornado, even though a large percentage of the county area is rural and agricultural. Certainly, the most devastating and damaging would be for an F-5 category tornado to hit one of the larger villages or the City of Greenville. With the 1992 F-3 Village of Arcanum tornado, history tells us the damage can be significant and quite severe. Since 1955, there have been three F-3 category tornadoes to hit the County. The Arcanum tornado was 18 miles

long and approximately 440 yards wide. In overlaying this same destructive path over a portion of Greenville, it is therefore conceivable the damage could even be significantly greater than the Village of Arcanum tornado. This is due to several factors, mainly that Greenville has a population of 6 – 7 times that of Arcanum, and there are considerably more in industries and critical facilities that could be affected. The attached estimated potential losses indicate the possible damage that could occur if an F-3 tornado was to strike a similar path across the City of Greenville.

Vulnerability & Loss Estimate of EF-3 Tornado Darke County, Ohio			
Municipality	Tornado Risk	Estimated Future Loss	Historical Loss
Arcanum	Medium	---	25 million
Greenville	Medium	48.5 million	---

Assessing Vulnerability – Estimated Potential Losses – Tornadoes

<u>No. of Structures</u>	<u>Type of Structure/Facility</u>	<u>Est. Value of Structural Losses</u>	<u>No. of Residents</u>	<u>No. of Jobs Lost</u>
<i>Historical Downtown Business District & Outlying Area Including:</i>				
75	Buildings Moderately Damaged	11.0 million	20	500
1	Courthouse	3.0 million	---	60
1	Fairgrounds*	3.5 million	---	3
20	Businesses	1.1 million	---	60
1	Hospital	4.0 million	---	250
1	Rescue Facility	1.9 million	---	20
2	Nursing/Retirement Home Complexes	3.0 million	300	150
4	Industrial Complexes**	5.0 million	---	400
1	Private School	1.0 million	---	20
1	K-8 School	10.0 million	---	80
50	Residences - Destroyed	4.0 million	125	---
80	Residences - Moderate Damage	3.75 million	200	---
100	Residences – Minor Damage	1.5 million	250	---
2	Apartment Complexes–Mod. Damaged	.75 million	35	---
1	Wastewater Plant – Mod. Damaged	2.7 million	---	8
1	Mobile Home Park	1.0 million	100	2
1	City Park – Moderate Damage	.75 million	---	2
---	Infrastructure	2.0 million	---	---
---	Utility Damages	2.0 million	---	---
343	Totals	61.05 million	1030	1555

- * Has potential of \pm 25,000 population increase during the 10-day County Fair which begins the third week of August every year.
- ** At least one industry has on site, large quantity of hazardous materials.

In reviewing this hazard area with the remainder of the county, the affected area would be as follows:

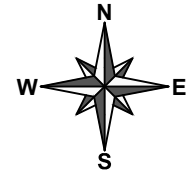
1. Approximately 2% of the county residents could be affected and approximately 8% of the City of Greenville residents.
2. Approximately 5% of the Darke County real estate value is susceptible to an F-3 tornado if it were to hit the heart of the county seat of Greenville, Ohio.
3. A tornado in this location would affect approximately 2% of the county population and almost 8% of the total county employment.

Source: Darke County Aerial Photography and Average Darke County Real Estate Values, 2016 Darke County Census, Ohio Department of Development.

VICINITY MAP
NO SCALE

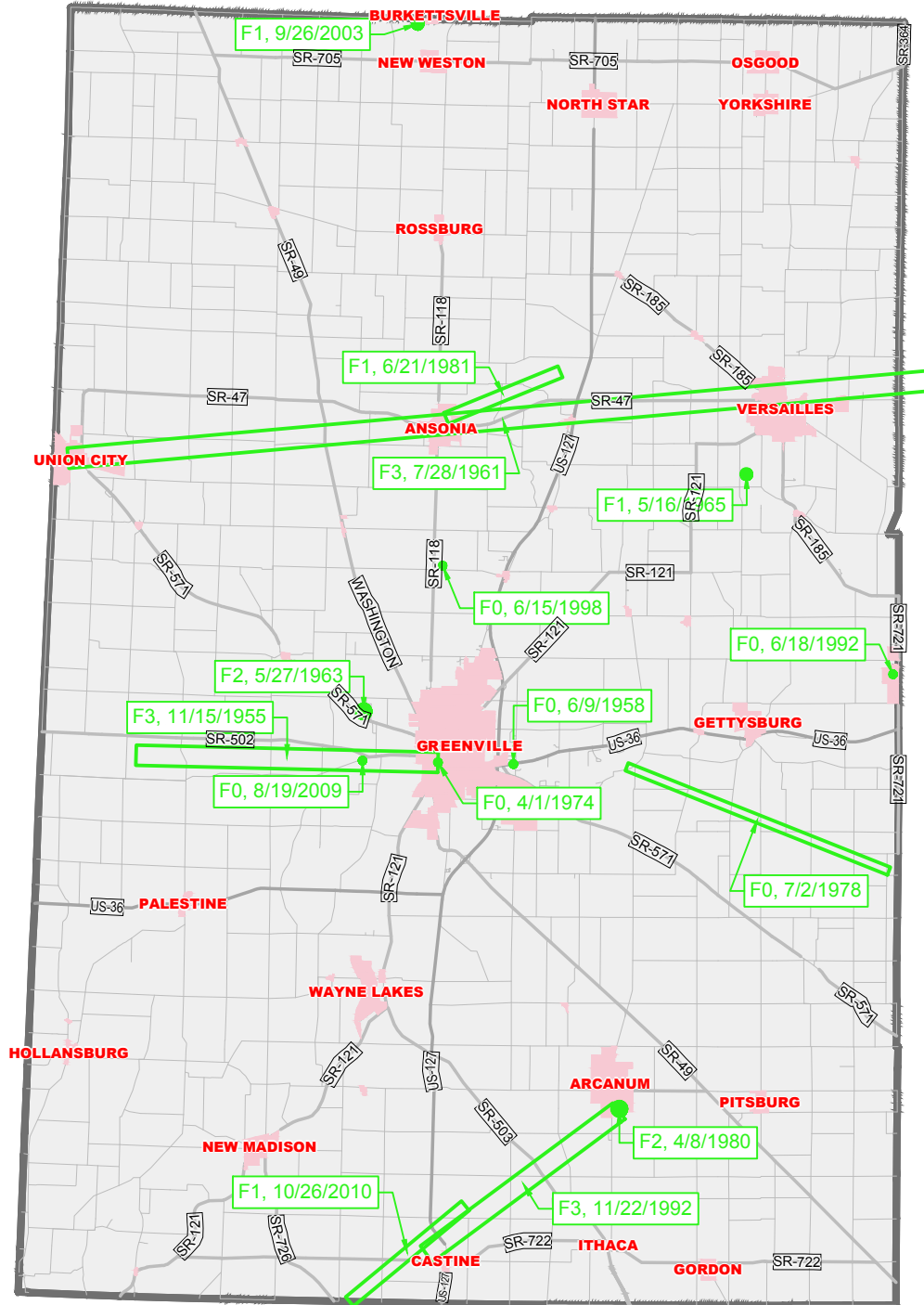


DARKE COUNTY TORNADOES/ HIGH WIND EVENTS



MAP LEGEND

- F0 TORNADO - START LOCATION
- F1 TORNADO - START LOCATION
- F2 TORNADO - START LOCATION
- F3 TORNADO - START LOCATION
- TORNADO PATH
- MAJOR ROADWAY
- MINOR ROADWAY
- CITY / VILLAGE
- COUNTY



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Website: www.moteassociates.com

DRAWN BY: CMB DATE: 6/15/18

SCALE: 1" = 22,000'



22,000 FEET 0 22,000

2.7 Severe Summer Storms

The National Weather Service classifies a thunderstorm as severe if it has wind gusts greater than 58 mph, hail that is 1 inch in diameter or produces a tornado. Severe thunderstorms can lead to flash flooding, straight-line winds of 100 to 150 mph, damaging hail and tornadoes. A typical thunderstorm is 15 miles in diameter and lasts for 20 to 30 minutes. On average, 100,000 thunderstorms occur in the United States each year with 10% (10,000) classified as severe.

All thunderstorms are dangerous despite the fact that they are generally localized in a small geographical region. It is important to note that every thunderstorm produces lightning, which is responsible for more deaths annually than hurricanes or tornadoes.

Lightning is a major threat during a thunderstorm because it is very unpredictable and it can strike as far as 10 miles away from the actual rainfall area. On average, 62 people are killed from lightning strikes each year with the majority of deaths occurring when people did not seek inside shelter during the storm. Many more injuries occur and some may result in long-term, debilitating symptoms such as memory loss, sleep disorders, attention deficits, irritability, depression and muscle spasms.

Severe summer storms traditionally precede an approaching cold air mass. In the northern hemisphere, the spin of the earth naturally produces weather patterns affecting North America, which travel from west to east across the continent. Key components to the formation of storms are a low-pressure zone, high pressure zone and the jet stream.

Thunderstorms develop when large differences exist between adjacent zones combined with significant water vapor. As warm air begins to lift, it eventually starts to cool and condensation takes place. When the moisture condenses, heat is released which further aids in the lifting process. If enough instability is present in the atmosphere, this process will continue long enough for storm clouds to form, which supports lightning and thunder. As water droplets rise into the colder air, they can freeze. When the velocity of wind becomes great enough, the ice pellets are repeatedly lifted and dropped in the storm adding layers of ice with each cycle. Once the wind cannot support the weight of the ice pellet, it falls to the ground in the form of hail.

The National Climatic Data Center considers summer storms as “high wind events” when surface winds meet or exceed approximately 58 mph. However, wind may even exceed 100 mph with wind gusts even stronger.

Risk Assessment

Location: According to NOAA/NCDC, there were 112 thunderstorm/wind events recorded from January 1, 1994 through May 31, 2018 in Darke County. All areas of Darke County have been affected by severe storms.

Some of the more intense severe storms recorded include:

- **Friday, August 13, 1976** – Thunderstorm and lightning that struck the Darke County Home Assisted Living Center, destroying the 1897 historic brick structure and causing over \$1 million dollars in damages and leaving its 49 residents homeless. Another lightning event during that same day caused hundreds of thousands of dollars damage to the historic Darke County Tile Company built in 1878.
- **June 9, 1999** – Hail $\frac{3}{4}$ inch in diameter hit the Village of Arcanum.
- **June 5, 2002** - $\frac{3}{4}$ inch hail caused damage throughout the Union City area.
- **May 18, 2000** – Hail the size of baseballs caused major damage to cars, roofs, and crops in the Greenville area.
- **May 12, 2002** – Severe thunderstorm winds struck south of Greenville. Mobile homes in Sherwood Forest Mobile Home Park were severely damaged. A roof was blown off a home on Hogpath Road. Over \$100,000 in property damage was reported.
- **April 7, 2010** – Lightning strikes caused multiple structure fires with \$20,000 in damages reported.
- **October 26, 2010** – A severe storm did structural damage to a house and barn near Castine. \$85,000 in damages was reported.
- **November 7, 1996** - Near Ithaca, a thunderstorm wind event caused \$300,000 in property damages and \$20,000 in crop damage. Trees were downed, barns destroyed, roofs blown off, and cornfields were damaged.
- **April 3, 2016** – 65 MPH wind gusts were recorded two miles west southwest of Potsdam. East of Union City recorded 60 MPH wind gusts. A carport was blown over and large trees uprooted with downed power lines.
- **June 23, 2016** – Near Castine \$20,000 in property damage to farm storage units and minor damage to a house was reported.

- **January 1, 2017** – A thunderstorm near Savona destroyed a barn and tore off the roof of another barn and also damaged the silo. \$10,000 in damages was reported.

Past Occurrences

The following NOAA/NCDC tables indicate thunderstorm/wind events, hail events, and lightning events that have occurred in the past throughout Darke County. Those listed are ones that had injuries, deaths, or property damage. Those that had no damage reports, injuries or deaths have not been listed.

Darke County, Ohio Summer Storm Events Data Summary from the National Climatic Data Center						
Year	Number of Reported Summer Storm Events	Type	Deaths	Injuries	Estimated Property Damage	Crop Damage
1994	April 27	Thunderstorm	0	0	50K	0
1994	May 24	Thunderstorm	0	0	5K	0
1994	June 12	Thunderstorm	0	0	5K	0
1994	June 20	Thunderstorm	0	0	50K	0
1995	May 28	Thunderstorm	0	0	6K	0
1995	May 28	Thunderstorm	0	0	4K	0
1995	June 21	Thunderstorm	0	0	15K	0
1996	April 19	Thunderstorm	0	0	10K	0
1996	April 19	Thunderstorm	0	0	1K	0
1996	July 7	Thunderstorm	0	0	5K	0
1996	October 30	Thunderstorm	0	0	5K	0
1996	November 7	Thunderstorm	0	0	300K	20K
1997	April 30	Thunderstorm	0	0	3K	0
1997	July 2	Thunderstorm	0	0	5K	0
1998	May 29	Thunderstorm	0	0	25K	0
1998	June 12	Thunderstorm	0	0	5K	0
1998	June 19	Thunderstorm	0	0	50K	0
1998	June 29	Thunderstorm	0	0	3K	0
1998	June 29	Thunderstorm	0	0	3K	0
1998	July 19	Thunderstorm	0	0	10K	0
1998	July 19	Thunderstorm	0	0	10K	0
1998	August 25	Thunderstorm	0	0	5K	0
1998	November 10	Thunderstorm	0	0	5K	0
1999	February 11	Thunderstorm	0	0	10K	0
1999	May 17	Thunderstorm	0	0	5K	0
1999	July 31	Thunderstorm	0	0	10K	0
2000	April 20	Thunderstorm	0	0	5K	0

2000	May 31	Thunderstorm	0	0	5K	0
2000	June 24	Thunderstorm	0	0	1K	0
2000	August 9	Thunderstorm	0	0	30K	0
2000	September 20	Thunderstorm	0	0	10K	0
2001	May 15	Thunderstorm	0	0	1K	0
2001	October 24	Thunderstorm	0	0	20K	0
2002	May 12	Thunderstorm	0	0	100K	0
2002	May 25	Thunderstorm	0	0	5K	0
2002	June 5	Thunderstorm	0	0	5K	0
2002	September 20	Thunderstorm	0	0	10K	0
2002	November 10	Thunderstorm	0	0	2K	0
2003	April 4	Thunderstorm	0	0	3K	0
2003	May 12	Thunderstorm	0	0	3K	0
2003	July 4	Thunderstorm	0	0	15K	0
2003	July 6	Thunderstorm	0	0	25K	0
2003	July 8	Thunderstorm	0	0	6K	0
2003	July 21	Thunderstorm	0	0	5K	0
2003	August 1	Thunderstorm	0	0	3K	0
2003	September 1	Thunderstorm	0	0	3K	0
2004	May 23	Thunderstorm	0	0	8K	0
2004	May 27	Thunderstorm	0	0	5K	0
2004	May 30	Thunderstorm	0	0	3K	0
2004	June 15	Thunderstorm	0	0	3K	0
2004	November 24	Thunderstorm	0	0	3K	0
2005	June 30	Thunderstorm	0	0	4K	0
2005	August 11	Thunderstorm	0	0	4K	0
2005	August 20	Thunderstorm	0	0	3K	0
2005	September 19	Thunderstorm	0	0	3K	0
2005	November 6	Thunderstorm	0	0	3K	0
2006	April 2	Thunderstorm	0	0	10K	0
2006	May 17	Thunderstorm	0	0	3K	0
2006	May 25	Thunderstorm	0	0	3K	0
2006	June 7	Thunderstorm	0	0	4K	0
2006	June 28	Thunderstorm	0	0	3K	0
2007	April 11	Thunderstorm	0	0	10K	0
2007	April 11	Thunderstorm	0	0	3K	0
2007	June 27	Thunderstorm	0	0	5K	0
2007	August 9	Thunderstorm	0	0	5K	0
2007	August 16	Thunderstorm	0	0	3K	0
2008	January 29	Thunderstorm	0	0	5K	0
2008	June 15	Thunderstorm	0	0	6K	0

2008	June 15	Thunderstorm	0	0	5K	0
2008	July 12	Thunderstorm	0	0	3K	0
2008	July 22	Thunderstorm	0	0	3K	0
2009	June 26	Thunderstorm	0	0	6K	0
2009	August 19	Thunderstorm	0	0	1K	0
2010	May 3	Thunderstorm	0	0	10K	0
2010	May 3	Thunderstorm	0	0	10K	0
2010	May 7	Thunderstorm	0	0	2K	0
2010	May 7	Thunderstorm	0	0	30K	0
2010	June 4	Thunderstorm	0	0	7K	0
2010	June 12	Thunderstorm	0	0	1K	0
2010	June 18	Thunderstorm	0	0	1K	0
2010	June 27	Thunderstorm	0	0	1K	0
2010	August 4	Thunderstorm	0	0	2K	0
2010	October 26	Thunderstorm	0	0	85K	0
2010	October 26	Thunderstorm	0	0	10K	0
2011	May 23	Thunderstorm	0	0	30K	0
2011	May	Thunderstorm	0	0	40K	0
2011	July 11	Thunderstorm	0	0	2K	0
2011	July 11	Thunderstorm	0	0	1K	0
2011	July 20	Thunderstorm	0	0	60K	10K
2011	July 20	Thunderstorm	0	0	8K	0
2011	August 7	Thunderstorm	0	0	3K	0
2011	September 3	Thunderstorm	0	0	10K	0
2012	May 1	Thunderstorm	0	0	2K	0
2012	June 29	Thunderstorm	0	0	3K	0
2012	June 29	Thunderstorm	0	0	1K	0
2012	June 29	Thunderstorm	0	0	30K	0
2012	July 24	Thunderstorm	0	0	3K	0
2012	July 24	Thunderstorm	0	0	3K	0
2012	July 25	Thunderstorm	0	0	1K	0
2012	July 26	Thunderstorm	0	0	1K	0
2012	September 21	Thunderstorm	0	0	30K	0
2012	September 21	Thunderstorm	0	0	3K	0
2013	April 10	Thunderstorm	0	0	1K	0
2013	July 10	Thunderstorm	0	0	10K	0
2013	October 31	Thunderstorm	0	0	10K	0
2013	November 17	Thunderstorm	0	0	1K	0
2013	November 17	Thunderstorm	0	0	50K	0
2013	November 17	Thunderstorm	0	0	25K	0
2014	June 18	Thunderstorm	0	0	3K	0

2014	July 1	Thunderstorm	0	0	3K	0
2014	July 1	Thunderstorm	0	0	15K	0
2014	July 1	Thunderstorm	0	0	1K	0
2014	August 21	Thunderstorm	0	0	1K	0
2015	May 11	Thunderstorm	0	0	1K	0
2015	May 26	Thunderstorm	0	0	1K	0
2015	June 12	Thunderstorm	0	0	.25K	0
2015	December 23	Thunderstorm	0	0	16K	0
2016	March 27	Thunderstorm	0	0	1K	0
2016	June 20	Thunderstorm	0	0	10K	0
2016	June 23	Thunderstorm	0	0	.50K	0
2016	June 23	Thunderstorm	0	0	.50K	0
2016	June 23	Thunderstorm	0	0	20K	0
2017	January 10	Thunderstorm	0	0	10K	0
2017	January 10	Thunderstorm	0	0	8K	0
2017	May 19	Thunderstorm	0	0	4K	0
2017	June 19	Thunderstorm	0	0	.50K	0
2017	July 21	Thunderstorm	0	0	4K	0
2017	July 21	Thunderstorm	0	0	4K	0
2018	May 31	Thunderstorm	0	0	2K	0
2018	May 31	Thunderstorm	0	0	3K	0
2018	May 31	Thunderstorm	0	0	1K	0
2018	May 31	Thunderstorm	0	0	3K	0
Totals					1.58 million	30K

Note: The other summer storm events during the years shown above did not indicate any damages.

Sources: From NOAA, NCDC Event Period 01/01/1994 – 05/31/2018

Darke County, Ohio Hazard Mitigation Plan

Darke County, Ohio Hail Events Data Summary from the National Climatic Data Center						
Year	Date of Reported Hail Events	Type	Deaths	Injuries	Estimated Property Damage	Crop Damage
1995	April 9	Hail	0	0	0K	0
1995	May 28	Hail	0	0	0K	0
1995	June 26	Hail	0	0	0K	0
1996	June 3	Hail	0	0	0K	0
1997	March 28	Hail	0	0	0K	0
1997	July 27	Hail	0	0	0K	0
1998	May 19	Hail	0	0	0K	0
1998	May 29	Hail	0	0	0K	0
1998	June 2	Hail	0	0	0K	0
1998	August 24	Hail	0	0	0K	0
1999	June 9	Hail	0	0	2K	0
1999	June 9	Hail	0	0	0K	0
1999	June 12	Hail	0	0	0K	0
2000	May 18	Hail	0	0	0K	0
2000	May 18	Hail	0	0	0K	0
2000	October 4	Hail	0	0	0K	0
2001	April 9	Hail	0	0	0K	0
2001	April 9	Hail	0	0	0K	0
2002	June 5	Hail	0	0	5K	0
2002	August 11	Hail	0	0	3K	0
2003	July 22	Hail	0	0	0K	0
2004	May 21	Hail	0	0	0K	0
2004	May 27	Hail	0	0	0K	0
2004	June 24	Hail	0	0	0K	0
2005	June 5	Hail	0	0	10K	0
2005	June 5	Hail	0	0	0K	0
2005	June 25	Hail	0	0	0K	0
2005	June 28	Hail	0	0	0K	0
2005	June 29	Hail	0	0	0K	0
2005	June 30	Hail	0	0	8K	0
2006	April 7	Hail	0	0	0K	0
2006	April 7	Hail	0	0	0K	0
2006	May 25	Hail	0	0	0K	0
2006	June 22	Hail	0	0	0K	0
2007	August 16	Hail	0	0	1K	0
2008	June 4	Hail	0	0	3K	0
2009	June 9	Hail	0	0	0K	0
2009	June 25	Hail	0	0	0K	0
2011	March 23	Hail	0	0	0K	0

Darke County, Ohio Hazard Mitigation Plan

2011	March 23	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	May 25	Hail	0	0	OK	0
2011	July 11	Hail	0	0	OK	0
2011	July 11	Hail	0	0	OK	0
2011	July 11	Hail	0	0	OK	0
2011	September 3	Hail	0	0	OK	0
2012	March 2	Hail	0	0	OK	0
2012	March 2	Hail	0	0	OK	0
2012	March 2	Hail	0	0	OK	0
2012	March 30	Hail	0	0	OK	0
2012	April 26	Hail	0	0	OK	0
2012	May 1	Hail	0	0	OK	0
2012	May 1	Hail	0	0	OK	0
2012	July 1	Hail	0	0	OK	0
2012	July 25	Hail	0	0	OK	0
2012	September 7	Hail	0	0	OK	0
2013	August 21	Hail	0	0	OK	0
2014	May 11	Hail	0	0	OK	0
2014	May 21	Hail	0	0	OK	0
2014	May 21	Hail	0	0	OK	0
2015	August 3	Hail	0	0	OK	0
2015	August 3	Hail	0	0	OK	0
Totals			0	0	32 Thousand	0

Note: The hail events occurring during the years of 1994, 2010, 2016, 2017 and the first 9 months of 2018 did not indicate any hail damage.

Sources: From NOAA, NCDC Event Period 01/01/1994 – 09/31/2018

Darke County, Ohio Lightning Events Data Summary from the National Climatic Data Center						
Year	Date of Reported Events	Type	Deaths	Injuries	Estimated Property Damage	Crop Damage
2002	June 27	Lightning	0	1	0K	0
2010	April 7	Lightning	0	0	20K	
Totals			0		20 Thousand	0
<p>Note: The lightning event occurring during the year of 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017 and 2018 did not indicate any damages or injuries.</p> <p>Sources: From NOAA, NCDC Event Period 01/01/1994 – 05/31/2018</p>						

Probability of Future Events

There has been a total of 2 lightning events, 68 hail events, and 112 thunderstorm/wind events in Darke County from January 1, 1994 through May 31, 2018. Based on the above data, Darke County, Ohio can expect at least 4 severe summer storm events each year along with smaller events. Based on Ohio historical data, Ohio has received 19 presidential declarations from summer storm events from June 1997 through August 2007. From this information, it is very probable future damaging summer storm events will occur.

Vulnerability Analysis & Loss Estimation

According to NOAA/NCDC information, Darke County severe thunderstorms/winds have caused \$1.58 million dollars in damages from January 1, 1994 through May 31, 2018. In addition, lightning and hail events have caused an additional \$39,000. Unfortunately, the major hail event that caused the most extensive property damage on May 18, 2000 and May 25, 2011 hail storm in Darke County are not recorded within the available data. Therefore, the property damage estimate information may not be fully accurate. In addition, it is anticipated that with Darke County being a large rural county, crop losses would have also occurred during these events but most likely have not been recorded.

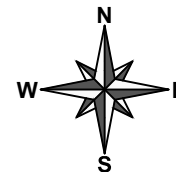
Based on the limited accurate information available, the average damage reported is calculated to be approximately \$67,458 per year. It is anticipated the actual annual damage from thunderstorms, wind, hail, and lightning, generally would be greater if there was better reporting.

VICINITY MAP

NO SCALE



DARKE COUNTY SEVERE SUMMER STORMS



MAP LEGEND

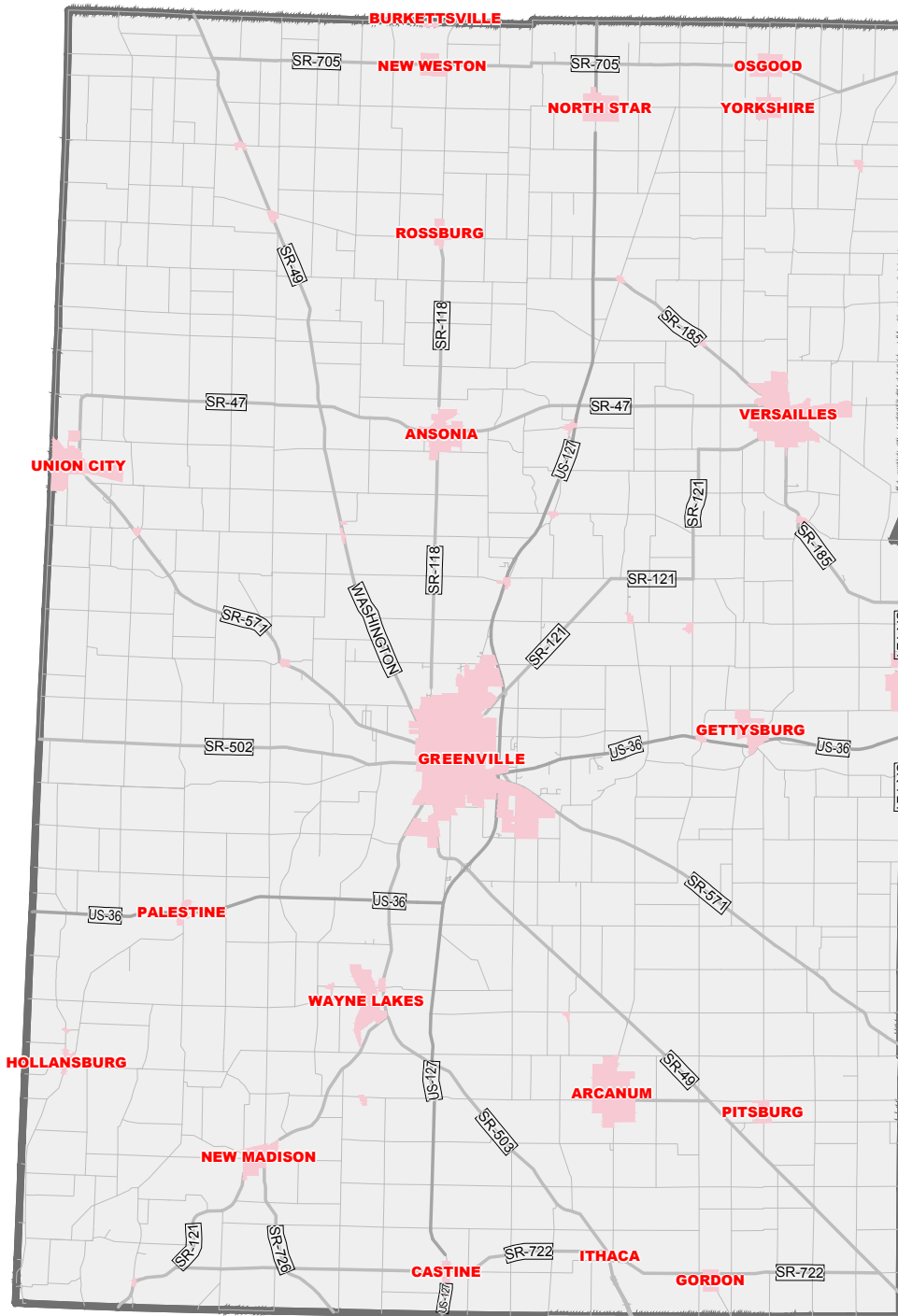
 MODERATE HAZARD

 MAJOR ROADWAY

 MINOR ROADWAY

 CITY / VILLAGE

 COUNTY



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Website: www.moteassociates.com

DRAWN BY: CMB DATE: 6/15/18

SCALE: 1" = 22,000'



22,000 FEET 0 22,000

2.8 Drought and Extreme Heat

Drought and extreme heat are known to affect Darke County. A drought is a period of abnormally dry weather, which persists long enough to produce a serious hydrologic imbalance. It is a normal occurrence that results in a water shortage that can affect land use, economy, geology and water sources.

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

- Unites States Department of Agriculture
www.usda.gov
- United States Geological Society
www.usgs.gov
- National Oceanic Atmospheric Administration (NOAA)
www.noaa.gov
- Ohio Department of Natural Resources

Drought is a relative term and is used in relation to who or what is being affected by the lack of moisture. Droughts can be categorized in four (4) types – each one affecting the other.

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

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

Meteorological Drought – The amount of dryness and the duration of the dry period. Atmospheric conditions that result in deficiencies of precipitation change from area to area.

Socioeconomic Drought – Socioeconomic drought occurs when the demand for an economic good exceeds supply as a result of a weather-related shortfall in water supply. The supply of many economic goods, such as water, forage, food grains, fish, and hydroelectric power, depends on weather. Due to variability of climate, water supply is sufficient in some years but not satisfactory to meet human and environmental needs in other years. The demand for economic goods is increasing as a result of increasing population. Supply may also increase because of improved production efficiency and technology.

Measuring Drought

The Standardized Precipitation Index (SPI) is a way of measuring drought that is different from the Palmer drought index (PDI). Like the PDI, this index is negative for drought, and positive for wet conditions. But the SPI is a probability index that considers only precipitation, while Palmer's indices are water balance indices that consider water supply (precipitation), demand (evapotranspiration) and loss (runoff).

The Palmer Drought Severity index (PDSI) is a soil moisture algorithm. The PDSI was developed by W.C. Palmer in 1965. It is a highly recognized method to measure drought. Many U.S. government agencies and states rely on the PDSI to trigger drought relief programs and responses. (See following chart)

Palmer Drought Severity Index Classifications	
4.0 or greater	Extremely Wet
3.0 to 3.99	Very Wet
2.0 to 2.99	Moderately Wet
1.0 to 1.99	Slightly Wet
0.5 to 0.99	Incipient Wet Spell
0.49 to -0.49	Near Normal
-0.5 to -0.99	Incipient Dry Spell
-1.0 to -1.99	Mild Drought
-2.0 to -2.99	Moderate Drought
-3.0 to -3.99	Severe Drought
-4.0 or less	Extreme Drought

The Palmer Index is typically calculated on a monthly basis, and a long-term archive of the monthly PDSI values for every climate division in the United States exists with the National Climatic Data Center from 1895 through the present. Weekly Palmer Index values are calculated for climate divisions. The State of Ohio currently has ten (10) climate divisions.

Extreme Heat

Extreme hot weather generally includes unexpected, unpredictable and unusual heat based on historical data. Typically, it is within the most universal 10% of extreme temperature. In recent cases, some extreme temperatures have been attributed to global warming.

Heat Waves: Are periods of hot weather that, unlike other weather events, it is not as visible as other extreme events such as flooding, tornados and hurricanes and earthquakes. Extreme weather can damage crops, dehydrate populations for both plants and animals, cause heat cramps, heat expansion and heat stroke. Dry soil can also be more susceptible to erosion, difficult for crop growth, livestock and detrimental to habitats. It can create pollution in the air and to the ozone. Power outages can also occur due to excessive demand on electrical systems due to increase air conditioning use.

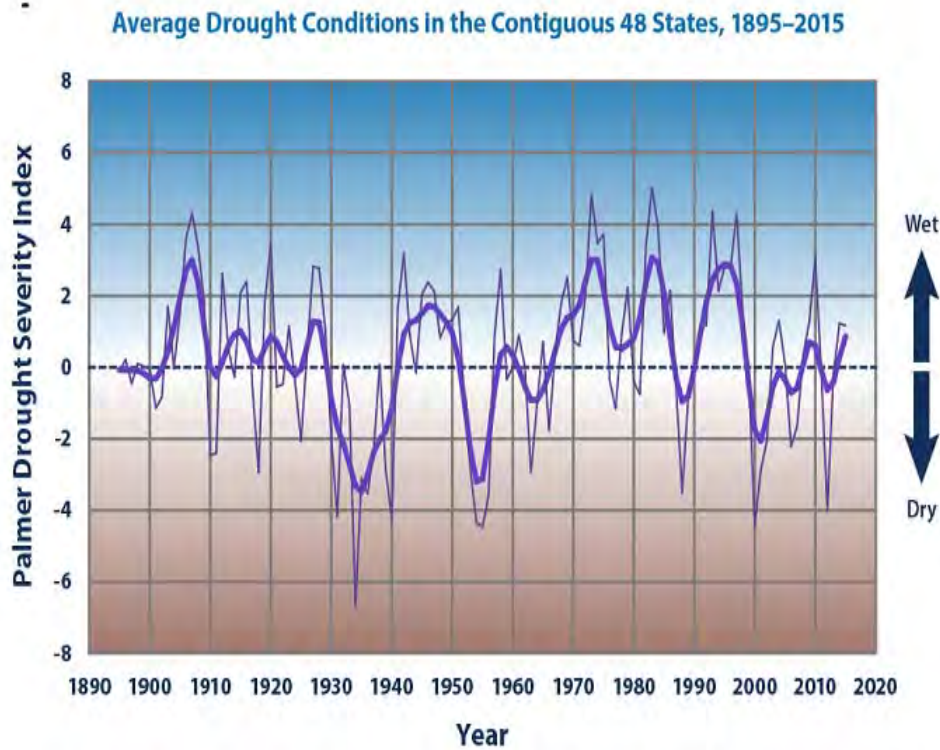
Extreme heat is defined as three (3) or more consecutive days with daytime temperatures of 90 degrees F or higher and nighttime temperatures no lower than 85 degrees F, accompanied by high humidity and causing a significant amount of medically treated heat-related illnesses or deaths.

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

- Extreme Heat Fact Sheet (12-2007)
www.fema.gov
- General Heat Wave Information
www.nfpa.org
- National Weather Service
www.nws.noaa.gov
- The National Oceanic & Atmospheric Administration
www.noaa.gov

Risk Assessment

Using Palmer Drought Severity Index data, the National Drought Mitigation Center indicated the most extreme drought in the recent past in the United States occurred in July 1988 when 36% of the country experienced severe drought conditions. The worst ever drought recorded was during July 1935 with 65% of the United States experiencing extreme drought conditions. Rainfall totals throughout the Midwest were 50-85% below normal.



Data source: NOAA (National Oceanic and Atmospheric Administration). 2016. National Centers for Environmental Information. Accessed January 2016. www7.ncdc.noaa.gov/CDO/CDODivisionalSelect.js.

For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

In 2006, Congress authorized the National Integrated Drought Information System (NIDIS) with a mandate for interagency coordination and integrated drought research that builds on existing federal, state and local partnerships to create a National Drought Early Warning System (DEWS). Darke County, Ohio, with its strong agricultural base is in the Midwest DEWS Region.

The overall objective is to unite partners to make climate and drought science accessible and useful for decision makers and to improve the capacity of the stakeholders to monitor, forecast, plan for, and cope with the impacts of drought.

Precipitation extremes in the Midwest have a major impact on the regions resources economic sectors, and residents. The region has still felt adverse impacts during recent droughts in 1988, 2005, and 2012 including: shutdown of barge traffic on major rivers, decreased agricultural production, challenges for municipal water supplies and quality, and reduced hydro power capabilities.

An added challenge in the recent years has been the tendency to transition from drought to flood and back to drought within short time spans, sometimes within a matter of months. The 2012 drought occurred after epic floods in the Midwest with wetter springs more common. This affects agricultural planting and growing seasons.

Total precipitation in the Midwest as well as the extreme precipitation events, or lack thereof, are expected to increase in the future. Property planning and preparing for both dry and wet events and understanding the relationship between the two events are important for building drought and climate resilience in Darke County and the Midwest.

Extreme heat is a hazard usually found in more desert regions than Darke County, Ohio. However, extreme heat can and has been a hazard in Ohio, causing heat strokes to occur to residents and proving detrimental to crops. The highest reported temperature in Ohio through the year 2016 was 113 degrees Fahrenheit, and was reported in Gallipolis on July 21, 1934. The recorded high temperature in Dayton, Ohio for that event was 104 degrees. Estimates of deaths occurring in Ohio during the week of July 20 – 26, 1934 were about 160.

A study released by Centers for Disease Control & Prevention (CDC) from 1999 – 2009 indicated 7,233 heat related deaths occurred in the United States. An analysis of 2012 data indicated heat deaths are on the rise. A 2-week excessive heat period in 2012 resulted in 32 deaths in 4 states. More than 40% of all heat related deaths occurred in Arizona, California and Texas. Most occur more frequently to males and among adults 65 and older.

Health hazards related to extreme heat include sunburns, heat cramps, heat exhaustion, and heat stroke. Between 1979 and 2013 the death rate as a result of exposure to heat (underlying cause of death) hovered around 0.5 deaths per million population overall, a total of 9,000 more than Americans suffered heat related deaths from 1979 – 2013. In August 2007, seven out of eight of the first eight days of August exceeded 90 degrees according to the archived climate data at the Wilmington, Ohio Branch of the National Weather Service. Young children, the elderly, and those who are sick or overweight are more likely to become victims. According to the 2016 Darke County Profile, approximately 28% of the total population in Darke County is between the ages of 45 and 64. Because men sweat more than women, men are more susceptible to heat related illnesses because they become more quickly dehydrated.

Past Occurrences

Unlike most hazards, the threat of drought tends to be dismissed because of the relatively long time a drought takes to have damaging effects. In the United States in the 1930's and 1950's, the most widespread droughts were seen.

According to the NCDC, drought conditions existed in Darke County in 1999 in July and August. No monetary damage, deaths or injuries were recorded for these events.

Rural counties are susceptible to wild land fires especially during drought conditions. When most people think of wild fires, the first thing that comes to mind is the devastating and disastrous western fires that are quite prevalent during the summer months.

With more people than ever living, working, traveling and recreating in the urban/urban interface, the odds of wild land fires are increasing. Causes of wild land fires include the careless burning of debris, household trash and cigarettes, lightning, equipment and vehicles, railroad accidents, electrical fires, and arson.

During an average year in Ohio, an estimated 15,000 wildfires and natural fuel fires occur. Typically, a reported 1,000 wild land fires burn an average between 4,000 to 6,000 acres in Ohio each year

Darke County, Ohio Drought Event History (1995 – May 2018)

Summer 1999 Drought – July and August

- As much as 50% of crops were considered a total loss in some areas of the county.

Summer 2002

- Severe crop loss due to drought conditions
- County received Federal Agricultural funds for losses

September 23, 2010 Drought Conditions & High Winds

- Set several area fields on fire
- One house and barn destroyed on Fourman Road in eastern Darke County

Summer 2012 May – September

- Ohio average corn yield was down 22% to average 123 bushels per acre from 158 bushels per acre in 2011.
- Soybeans were down 5.7% in 2012 from 206.1 million bushels from 217.9 million bushels in 2011.

According to NOAA Storm Events Data Base for Darke County, no excessive heat events have been reported within the past 10 years.

Probability of Future Events

Based on historical drought in Southwest Ohio, the probability of a future drought occurrence is likely with an event probable in the next 3 to 4 years and a major drought every 20 to 25 years.

It is possible that changes in the climate can directly impact water resources, and flooding could become more severe. More frequent extreme events such as droughts and floods may be noticeable with climate change.

Vulnerability Analysis & Loss Estimates

Darke County is one of the State's leading agricultural counties in terms of gross receipts for grain and livestock. A drought and/or extreme heat can have a considerable impact on the agricultural economic stability of the County. The 2002 summer drought like conditions indicates the County is very much affected in several ways. In addition to economic loss of reduced crop yields, droughts lead to problems with irrigation and increase the potential for field and grass fires. The significantly less rainfall also can leave reservoirs, water tables and farm ponds significantly lower. Some farmers use their ponds for livestock watering which can cause significant issues.

Damages are not immediately noticed, such as the damages to trees, shrubbery and wildlife. The Greenville Water Treatment plant facility draws some of its water supply from the Greenville Creek surface water. Diminished water flows into the Greenville Creek means the water wells must be more heavily relied upon. Some damage has also occurred to building foundations as a result of the loss of moisture in the highly expansive clay soils found in Darke County.

Drought as well as periods of extreme heat impacts large areas and crosses jurisdictional boundaries. All existing and future buildings, facilities and populations are exposed to this hazard and could potentially be impacted. However, drought impacts are mostly experienced in water shortages and crop/livestock losses on agricultural lands and typically have no impact on buildings.

Estimated Potential Losses

In 2012, Darke County ranked second in the State for market value of total agricultural products sold. The market value of agricultural products sold from Darke County farms in 2012 was:

Crop Sales:	\$180,379,000 (32%)
Livestock Sales:	<u>\$379,116,000 (68%)</u>
Total Value of Products Sold:	\$559,495,000*

*Source: 2012 Census of Agriculture USDA www.agcensus.usda.gov

Drought can have a devastating effect on the Darke County economy. During the 2002 Drought, crop yields were cut as much as 50% in comparison to the yields of 2000 and 2001. Based on this recent historic data, a loss of one half the crop yields due to drought in Darke County could result in 50% less farm revenue or a County market value loss of \$90,189,500.

Drought infrastructure Impact

Because droughts are a non-site-specific hazard, the effects of a drought should be evaluated countywide. There are no documented critical facilities that are considered at-risk as it relates to droughts, with exception of well fields for water treatment plants which may be affected during extreme drought conditions.

By itself, a drought does not damage developed property. However, over a long period of time, certain soils can expand and contract resulting in some structural damage to buildings. A small percentage of buildings in areas with such soils suffer minor damage during their “useful lives.” Therefore, the overall impact on the County’s infrastructure will be very low.

Population Impact

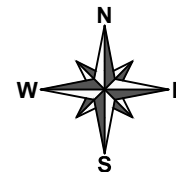
Since drought events are non-site specific, the entire County population could be affected by hot, dry conditions. The overall impact that droughts and extreme heat conditions have on the Darke County population is low, but the overall impact on the Darke County population is moderate. According to the NCDC, only 2 events of extreme droughts were recorded between 1995 and 2018. These events were in July and August of 1999.

VICINITY MAP

NO SCALE



DARKE COUNTY DROUGHT



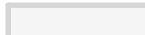
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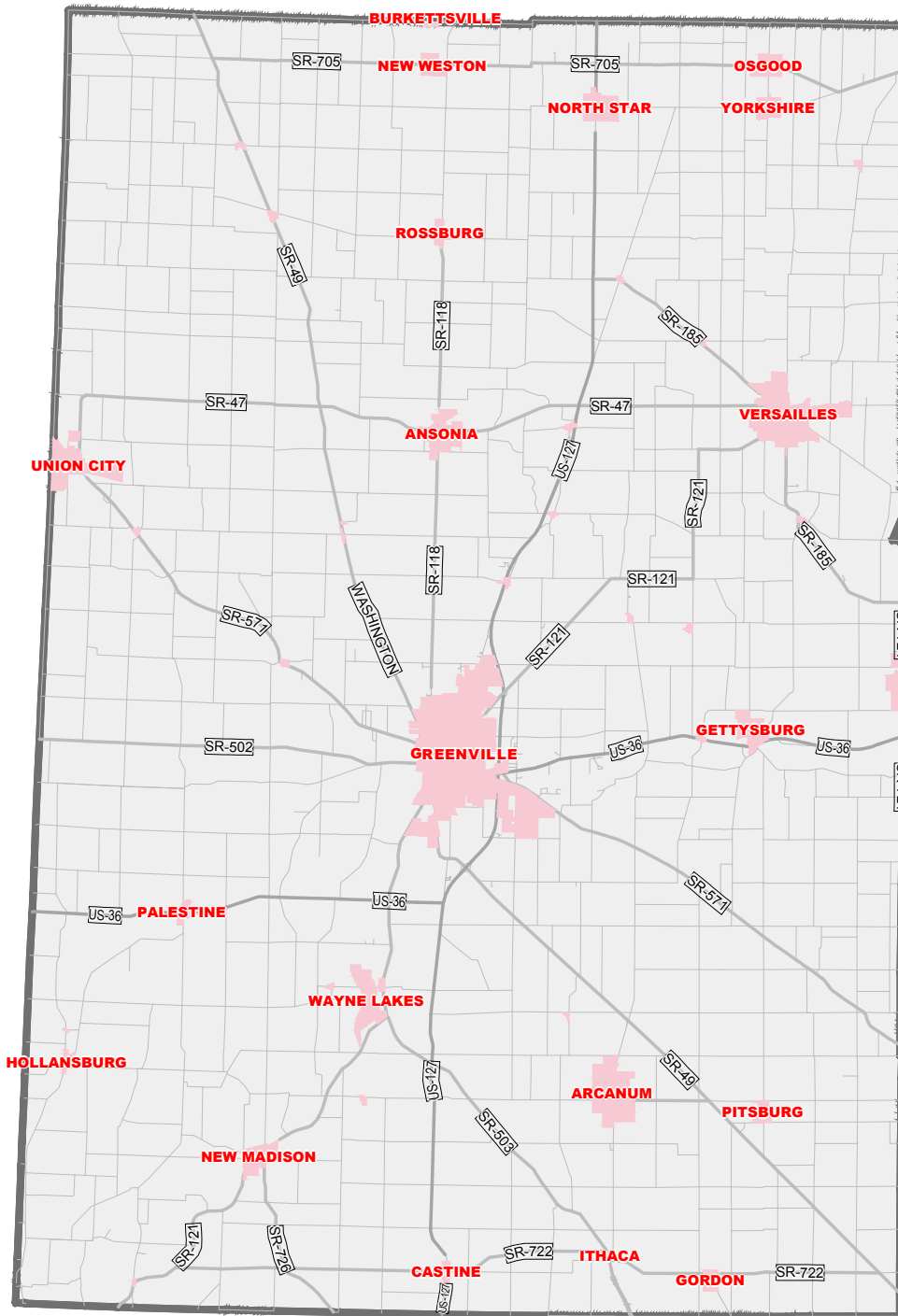
 MODERATE HAZARD

 MAJOR ROADWAY

 MINOR ROADWAY

 CITY / VILLAGE

 COUNTY



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SCALE: 1" = 22,000'



22,000 FEET 0 22,000

2.9 Invasive Species

According to a review of information provided by ODNR Wildlife Division, Darke County is subject to both insect and plant invasive species. Although there are over 3,000 species of plants known to occur in Ohio, about 75% are native or have occurred in Ohio before the time of Europeans (1750).

Some of those that have invaded Ohio displace native plants and disrupt woodlands, prairies, wetlands, and natural areas.

Those plants that typically have been the most invasive for Darke County residents include:

- Bush Honeysuckle
 - Amur Honeysuckle
 - Morrow Honeysuckle
- Garlic Mustard

These nuisance plants spread quickly and force out native spring wildflowers. Other non-native plants impact the County's wetlands. The wildlife depends on native plants for food and cover, so invasive species are problematic.

According to the ODNR Division of Forestry, one of the most prevalent invasive insect species is the Emerald Ash Borer. It is an Asian wood-boring beetle and affects all species of native ash trees found in Ohio. In 2003, it was first found in northwest Ohio feeding on ash trees. The Emerald Ash larvae were active just below the bark and feeding on the living part of the tree, preventing the tree's ability to move water and nutrients through its system.

Other invasive species include:

- The Asian Longhorned Beetle
- Gypsy Moth Caterpillars
- Hemlock Woolly Adelgid (HWA)
- Walnut Twig Beetle

Most recently found in southwest Ohio is the Asian Longhorned Beetle (AJB) which attacks broadleaf trees, particularly maples.

The Hemlock Woolly Adelgid is a small aphid-like insect that feeds on stored nutrients from young twigs of hemlocks. HWA has infested the eastern states and was found in Ohio for the first time in January 2012. According to the USDA Forest Service, it is the single greatest threat to hemlocks in eastern North America.

The Walnut Twig Beetle was found in late 2012 in Butler County. The walnut twig beetle is the vector for the fungus that causes thousand cankers disease in walnut trees. The Ohio Department of Agriculture is currently monitoring the Butler, Hamilton and Warren County area for additional infestations.

Risk Assessment

Bush Honeysuckles are shallow-rooted upright shrubs that grow in the 6 – 15' height range with dark green egg-shaped leaves. They typically grow in wooded areas, uninhabited fields, grassy areas, and marsh edges. The Amur species has dark green leaves which end in a long, pointy tip and the Morrow species have oval shaped leaves. They produce small flowers that bloom in the spring and dark-red to yellow berries in August to October. The fruit that the honeysuckle produces is attractive to birds, who help scatter the seeds over a wide area.

The Ohio Department of Natural Resources recommends carefully hand-removing the plants or repeatedly cutting or mowing them during the growing season when it is a light infestation. For larger infestations, applying herbicides such as Roundup or AquaNeat is recommended. If the plant is cut down to the ground, Garlon 4 or Pathfinder may be applied to the cut stem, which is believe to be the most effective way of elimination.

Garlic Mustard is another invasive species and is a biennial herb. It begins in the first years as a rosette consisting of kidney-shaped, garlic-smelling leaves. During the second year it grows a stem up to 4 feet tall with triangular, sharply-toothed leaves. The plant can produce large quantities of seeds that can germinate for up to seven years or more. This plant typically is found in shady areas, and on occasion, in full sun. It invades upland and floodplain forests, savannas, yards, streams, trails and roadsides. Repeated burn of large stands can be effective for management, or hand-pulled before or at flowering time. Systematic herbicides are effective in early spring or late fall during blooming season.

The Emerald Ash Borer is currently found in 50 of the 88 counties, including Darke County. As of September 8, 2010, all counties within the State have a quarantine making it illegal to move firewood across county lines. Approximately one in every ten trees in Ohio is an ash tree and are very important to the ash-elm-cottonwood forest, which covers parts of northwest Ohio. The loss of this species will be costly to the environment as well as the economy. Over the next 10 years, the potential impact to Ohio citizens could reach \$3 billion. This amount includes for property owners to have the trees removed and from the loss of ash as a managed species for Ohio's forest industry.

Past Occurrences

Invasive species have been around since the settlers of the 1750's. Movement of people and transportation has made the spread of invasive species more prevalent. The Emerald Ash Borer was introduced in the U.S. in the 1990's from wood packing material from China, first being discovered in Lower Michigan, spreading to Ohio, Maryland, Pennsylvania, northern Indiana, and Chicago.

Probability of Future Events

Invasive species will continue to affect Ohio. With the increase in worldwide trade and the fast modes of transportation, the invasive species will continue to occur.

Just as the Asian Longhorned Beetle has recently been discovered in southwest Ohio, new species of unwanted pests will come. The importance of controlling the natural environment native to our county will require local, State, nationwide, and international cooperation to avoid unwanted infestations of invasive species.

Vulnerability Analysis & Loss Estimation

The Emerald Ash Borer has already cost large amounts of dollars in attempts to identify and isolate infected trees. It is estimated in Ohio alone there are five billion ash trees that could become infected with the Emerald Ash Borer. Removal and proper handling of the trees will be costly in itself. Pesticides which have to be applied yearly are labor intensive and costly. It is estimated the treatments alone will be substantial for County residents. Labor costs and pesticide costs to remove honeysuckle will also be ongoing as it an ongoing labor-intensive procedure to remove such a species.

Some areas of Ohio are participating in a Woodland Invasive Species Program to promote healthier forests. Darke County is not currently participating in this program.

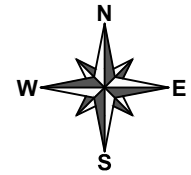
Exact financial loss in Darke County due to dead trees and invasive species is unknown at this time.

VICINITY MAP

NO SCALE



DARKE COUNTY INVASIVE SPECIES



MAP LEGEND

 MODERATE HAZARD

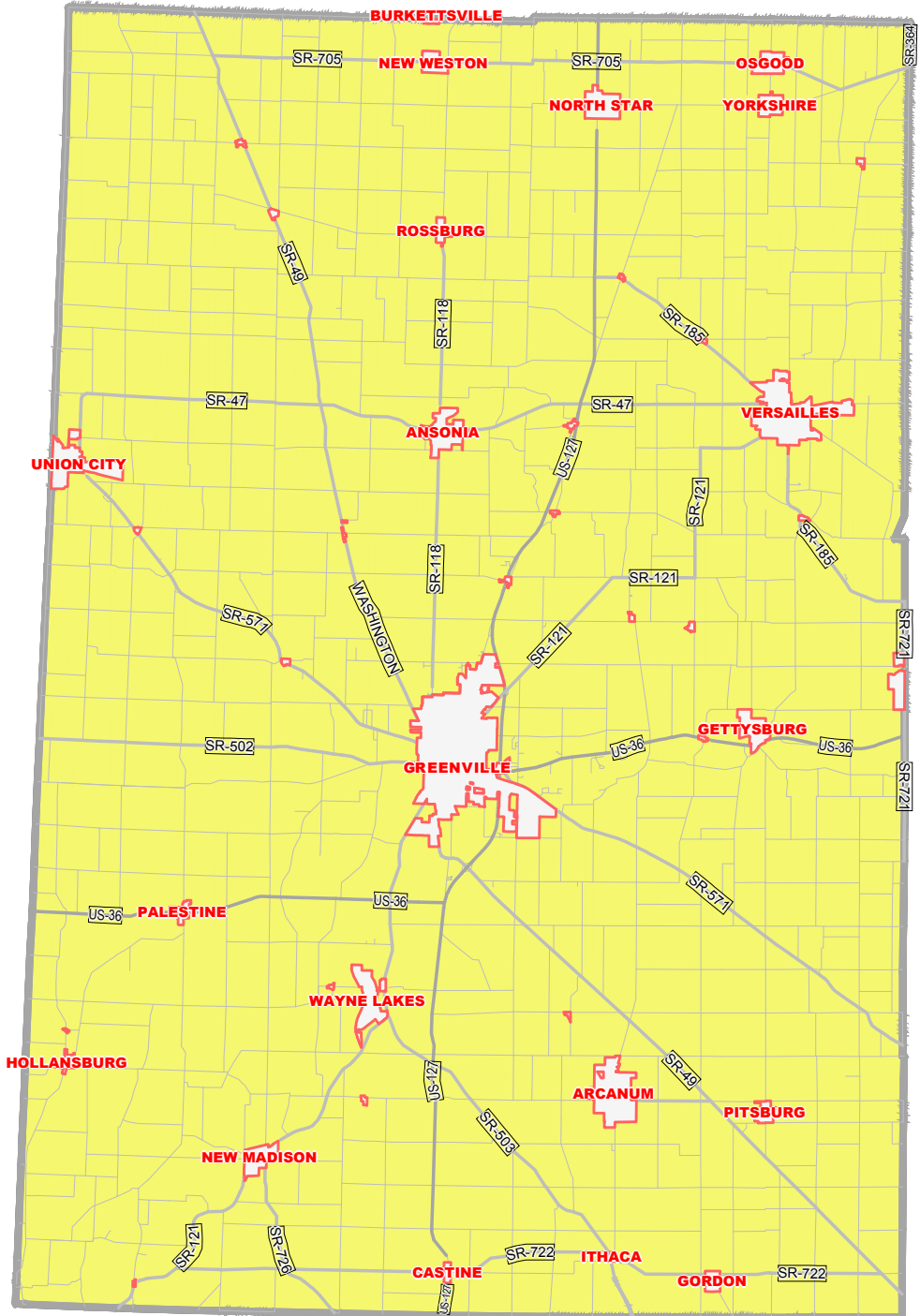
 LOW HAZARD

 MAJOR ROADWAY

 MINOR ROADWAY

 CITY / VILLAGE

 COUNTY

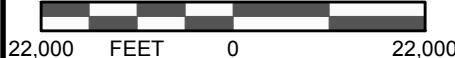


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SCALE: 1" = 22,000'



2.10 Wildfires

A wildfire is an uncontrolled fire spreading through vegetative fuels, exposing and possibly consuming structures. They often begin unnoticed, spread quickly, and are usually signaled by dense smoke that fills the area for miles around. Other names for wildfire include forest fire, grass fire, brush fire, or field fire.

Although typically Ohio wildfires are more prevalent within the Ohio forests and grasslands in southern and eastern Ohio, under certain dry and windy conditions, they can occur on a smaller scale in Darke County. The conditions that set the stage for wildfires are dry, warm, windy conditions with low humidity. Typically fall and early spring are considered the prime seasons. When you combine these weather conditions with the fall season of dry crops, and vegetation such as dry leaves and a wooded terrain, there is an unpredictable danger for wildfire.

Wildfire Urban Interface (WUI) conditions refers to the zone between unoccupied land and human development. Occasionally, homes and structures are built within or near these woodlands and grasslands.

There are no known building codes in Ohio that specifically address consideration for construction methods regarding wildfire. In Ohio, the ODNR Division of Forestry has in place “Firewise Ohio”, a statewide WUI safety initiative, in response to the growing WUI situation in Ohio. Local fire departments & Firewise Ohio collaborate to effectively implement wildfire prevention and safety programs at the community level. To date, the program has been a successful partnership.

According to the Ohio Division of Forestry, there are several factors that can contribute to the start of wildfires in Darke County, including arson, equipment fires, open burning of debris, campfires, and lightning. Approximately 10,000 forest fires are started each year by lightning. Darke County contains limited forestland, with several recreational campsites and other attractions in designated areas such as the Drew Woods Preserve, Eidson Road Preserve, Prairie Ridge Park, Routzong Preserve, Tecumseh Point, and Worth Family Preserve. Campfires, coupled with large numbers of visitors and a large proportion of trees, make wildfires a potential hazard for Darke County.

Members of the volunteer fire departments confirm that small brush fires are a common occurrence during the dry summer months, in what is typically known as the “burning season”. These small brush fires are usually handled by local fire departments and often do not cause damage to structures. However, the threat is present that these bush fires could burn out of control and consume many structures, as well as a portion of the nearly 36,787 acres of forestland that exists in Darke County. Dry croplands also are subject to fuel wildfires.

Ohio is considered to have a low fire class rating. However, this can change with climatic conditions. A large period of drought and high heat may dry up many areas of the County and add them to the amount of fuel for a potentially destructive wildfire. According to the Wildland Fire Assessment System US NFDR’s Fuel Model Map, Darke County falls into the classes of Agricultural Land and Hardwood in regard to fuel types. Both of these classes are considered to be low hazards in terms of wildfires. With

climatic changes over prolonged periods, the fuel that is not normally considered to be dangerous could become dry and increase the potential for a large-scale wildfire event. The dollar amount of damage will fluctuate according to where the fire occurs. If, for some reason, the area affected by a wildfire interfaced a municipality, the amount of damage could be greatly increased. However, most historical events have not consumed much land or property.

Location

Wildfires or “field fires” that occur in Darke County are most likely to occur in wooded areas, farm fields or grassland/pastureland of the County. These land area classifications make up 97.21% of the land area in Darke County due to being a rural county. With this being the case, the Darke County Wildfire Map shows the rural unincorporated areas of the County being at greater risk for wildfires than the incorporated areas.

Past Occurrences

According to local media reports, on September 24, 2010, windy conditions coupled with an extremely dry weather pattern caused numerous field and brush fires throughout the Miami Valley. In Darke County, over 20 fire departments from 3 Ohio counties were called out to respond to a 4-mile wide field fire that consumed a house and barn on Fourman Road on the east side of Darke County. Fifty mile per hour winds were reported. Additional field fires were reported in Clark, Champaign and Montgomery Counties.

Due to dry weather in 2015, farmers were at a higher risk of having a field fire according to a local news article in Darke Journal. In less than a week at least two field fires were reported in the county and a few in neighboring counties.

A tremendous amount of rain the past growing season produced a corn crop with a lot of fodder. When corn harvest began there had been less than half an inch of rain for most of the county. Add in high winds, a discarded cigarette or a blowing ember from a trash fire and you have the opportunity for a major field fire which can grow out of control in a matter of minutes. Adjacent homes, buildings and standing crops are all at risk.

Additionally, the conditions present during harvest season include dry plant material and grain dust that are highly combustible. Hot equipment or engine sparks are great ignition sources.

Probability of Future Events

The number of occurrences, size of wildfires, and severity of burn fluctuate annually in response to a variety of factors including:

- Weather – daily, monthly, seasonal, and long-term trends in:
 - Precipitation
 - Relative humidity
 - Temperature
 - Wind
- Fuels – condition of 1, 10, 100, 1000-hour fuels in terms of:
 - Moisture content
 - Arrangement

- Accumulation level
- Availability
- Ignitions – presence or absence of wildfire starts:
 - Human caused
 - Debris burning – compliance of ORC 1503.18, and safe debris burning techniques
 - Incendiary – arsonists at large
 - Wildfire prevention and awareness efforts
- Suppression Response – Capability and timeliness of initial attack
 - Quickness of response to the incident
 - Local / Volunteer fire department capability
 - Availability of state and local resources
 - Number of concurrent wildfires

Vulnerability Analysis & Loss Estimation

Due to 82.04% of Darke County land being crop land, it is most likely that a field fire would cause the most degree of damage to crops ready for harvest. The property damage to the house and barn in the September 2010 field fire was the only known wildfire to cause structure damage within the past 10 years.

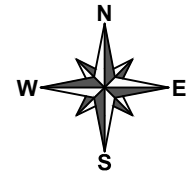
Considering the record burn area of that fire, it would be approximately 1-acre wide x 4 acres long. The amount of crop loss would be 4 acres. Based on an average yield of 160 bushels, an acre of corn at \$3.64 per bushel x 4 acres = \$2,330 crop loss. The loss for the house and barn that was destroyed is based on the average structure values per the Darke County Auditor. The average loss expected would be \$114,600 for the house and \$60,000 value for the barn. The total net loss expected for such an event at a 10-year occurrence interval would be \$174,600.

VICINITY MAP

NO SCALE



DARKE COUNTY WILDFIRES



MAP LEGEND

MODERATE HAZARD

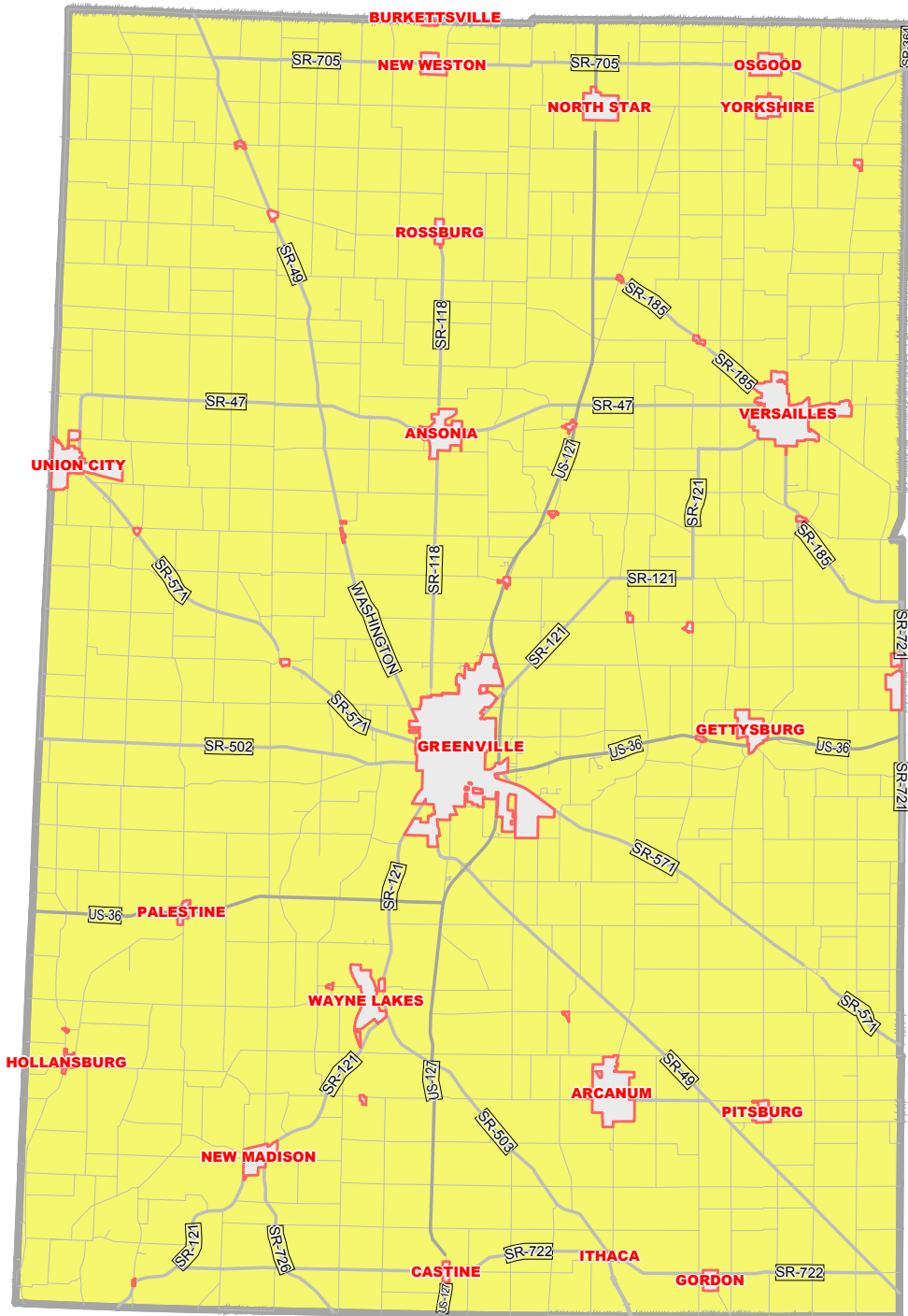
LOW HAZARD

MAJOR ROADWAY

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22,000 FEET 0 22,000

2.11 Epidemic

An epidemic is a disease, usually contagious, that recurs in a community and attacks a large number of people at the same time. The potential impacts of an epidemic are illness or fatalities, disruption or closing of schools, or the force closure of businesses and industrial operations.

Several methods of research identified epidemics as a hazard in Darke County including discussions with the local Health Department and Ohio Department of Health. Epidemic is a natural hazard risk in Darke County. The probability of an epidemic striking Darke County is relatively low. However, the risk associated with this hazard is very high.

An epidemic has the potential to affect the entire county, but is more probable to occur in densely populated areas, such as the City of Greenville, larger Villages such as Ansonia, Arcanum, Bradford, New Madison and Union City and especially at facilities containing large numbers of occupants. Many commercial and industrial sites contain many facilities at which a large work force is employed. A potential epidemic is of particular concern at these facilities.

Epidemics can develop with little or no warning and quickly erode the capacity of local medical providers. A fast developing epidemic can last several days and extend into several weeks. In some extreme cases, they can last for several months. An epidemic can occur at any time of the year, but the warm summer months when bacteria and microorganism growth are at their highest present the greatest risk.

Epidemic versus Pandemic

An **epidemic** is a classification of a disease that appears as new cases in a given human population, during a given period, at a rate that substantially exceeds what is “expected”, based on recent experience (the number of new cases in the population during a specified period of time is called the “incident rate”).

A **pandemic** is an epidemic that spreads across a large region (for example a continent), or even worldwide.

Simple put, when an epidemic gets out of hand, it is called a pandemic. This has two fine distinctions:

Geographical spread – An epidemic that is not localized to a city or a small region but spans a larger geographical area can be called a pandemic.

Incident rate – An epidemic may be localized to a small region but the number of people affected may be very, very large compared to what is “expected”. In this case, it can be called a pandemic even if its geographical spread is not very large. For example, let us say that a disease has an “expected” rate of infection of 15%. When 40% of the population of a state is infected, we have an epidemic on our hands. When 75% of the population is infected, it has reached pandemic proportions.

Location

Darke County comprises the City of Greenville (county seat), 20 other incorporated villages, and 20 townships for a total of 52,959 residents. Many of the places where large numbers of people would gather include factories, hospitals, schools, or well-attended events such as the Darke County Fair. The total area of Darke County is approximately 600 square miles. It is likely that an epidemic would impact the City of Greenville, the largest communities, or the school systems.

Past Occurrences

The history of epidemics in Darke County is as follows:

- 1914 – Quarantine imposed due to outbreak of Scarlet Fever.
- 1918 – Influenza outbreak closed schools and restricted public gatherings.
- 1949 – The Darke County Fair was ordered cancelled or postponed by the Board of Health due to a Polio Myelitis outbreak.
- 1949 – Health Department cooperated with the Darke County Tuberculosis and Health Association in sponsoring mass chest x-ray screening program.
- 2009 – H1N1 Influenza clinics were held.
- 2017 – Eighty cases of Hepatitis C which has risen from approximately 22 cases in 2008.

Probability of Future Events

Locally recorded epidemics have affected Darke County as early as 1914 (and most likely prior to that date). There is clear precedence set that Darke County will continue to experience epidemic hazard events in the future. While they may not occur frequently based on past history, an epidemic probably will occur within the next 20-25 years.

Vulnerability and Loss Estimation

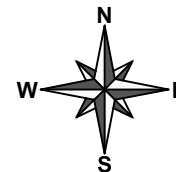
The Darke County Health Department in 2017 gave a total of 3,166 immunizations and had a total of 401 class cases of communicable disease reports. The total expenses for the 2017 Immunization Action Program were \$11,228 and expenses for Emergency Preparedness were \$102,310. It is anticipated these costs would significantly increase during an epidemic event.

VICINITY MAP

NO SCALE

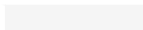


DARKE COUNTY EPIDEMIC



MAP LEGEND

 MODERATE HAZARD

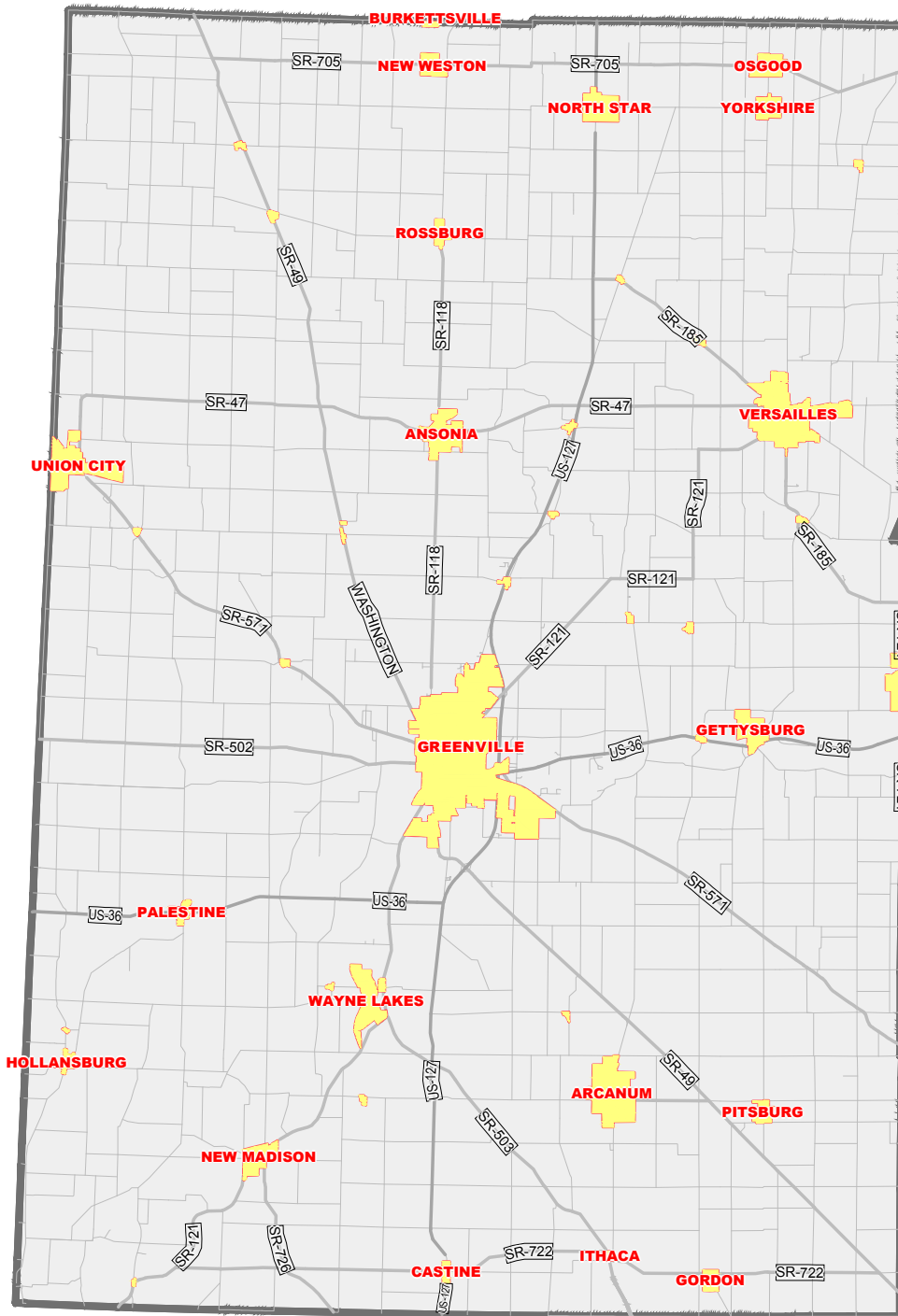
 LOW HAZARD

 MAJOR ROADWAY

 MINOR ROADWAY

 CITY / VILLAGE

 COUNTY



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SCALE: 1" = 22,000'



22,000 FEET 0 22,000

2.12 Earthquakes

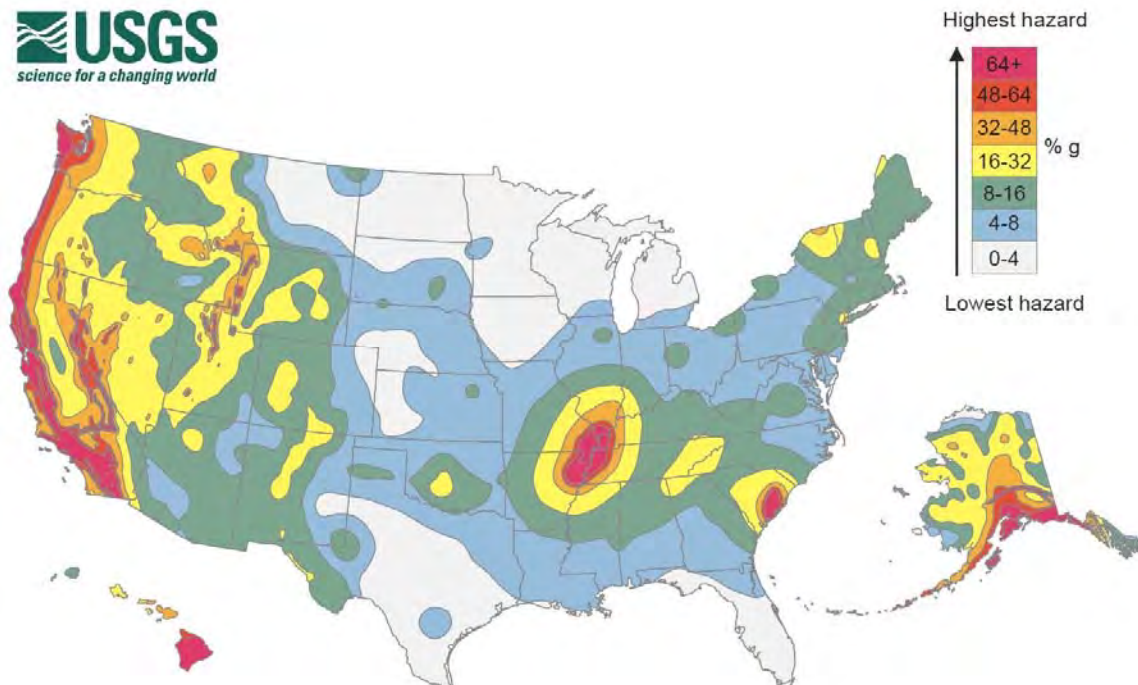
Overview

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

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

Although most people do not think of Ohio as an earthquake-prone state, at least 160 earthquakes with epicenters in Ohio have been felt since 1776. Most of these events caused no damage or injury. Fifteen earthquakes have resulted in property damage. Several methods of research identified earthquakes as a hazard in Darke County, including the USGS Hazards Earthquake Program.

According to the USGS, Darke County is listed in the 8-16% g hazard range in regards to earthquakes (see map below).



Earthquake activity in Darke County would probably stem from an event in the New Madrid Seismic Zone. Ohio is on the periphery of the New Madrid Seismic Zone. An area in Missouri and adjacent states was the site of the largest earthquake sequence to occur in historical times in the continental United States.

The table to the right is the Modified Mercalli Scale, which is the general relationship between epicentral Modified Mercalli intensities and magnitude. Intensities can be highly variable depending on local geologic conditions. The Mercalli Scale is a semi-quantitative linear scale, whereas the Richter Scale is a quantitative logarithmic scale. The Richter Magnitude Scale was developed in 1935 by Charles F. Richter of the California Institute of Technology as a mathematical device to compare the size of earthquakes. It is illustrated in the table to the right. The magnitude of an earthquake is determined from the logarithm of the amplitude of waves recorded between the various seismographs. Adjustments are located for the variation in the distance between the various seismographs and the epicenter of the earthquake. On the Richter scale, magnitude is expressed in whole numbers and decimal fractions. For example, a magnitude 5.3 might be computed for a moderate earthquake, and a strong earthquake might be rated as magnitude 6.3. Because of the logarithmic basis of the scale, each whole number increase in magnitude represents a tenfold increase in measured amplitude.

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

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

Past Occurrences and Locations

Ohio is on the periphery of the new Madrid Seismic Zone. At least 14 moderate sized earthquakes have caused minor to moderate damage in Ohio. There have been no deaths and only a few minor injuries reported. Darke County has not been the epicenter of any earthquakes since recording began in 1776. However, neighboring Shelby County, to the northeast of Darke County, and some of the other counties surrounding Shelby County have been some of the most active earthquake areas in Ohio. Numerous earthquakes in this area have occurred since 1875. Earthquakes in 1930, 1931 and 1937 caused minor to moderate damage. The March 2 and March 9, 1937 (4.5 Richter magnitude) caused significant damage in the nearby community of Anna in Shelby County. See Earthquake Epicenters in Ohio and Adjacent Areas Map on Page 129. Other recent earthquake epicenters have been in northern Mercer County in 2004, 2005, and two in Allen County in 2006. Darke County has experienced, since 1950, only a few periodic earthquake tremors that are of a magnitude to be felt.

Vulnerability Analysis & Loss Estimation

Since all but a few buildings in Darke County are three stories or less, the damage experienced here would most likely be significantly less than a larger, metropolitan area. Most of the houses in Darke County are wood or wood frame and brick veneer. A few of the older houses are of solid brick masonry which would be more susceptible to damage.

Several of the older downtown districts such as found in Arcanum, Ansonia, Bradford, Gettysburg, Greenville, New Madison, Versailles, and Union City have non-reinforced brick structures and would be considerably more vulnerable to damage.

Other vulnerable facilities would be some of the underground gas, water piping, and sewerage systems. During the July 27, 1980 earthquake, it was reported the Village of Versailles experienced some change in their village well field performance.

Most of the industrial buildings in the county are of pre-engineered steel design with braced steel frames and would be less vulnerable to damage. All of the school districts in Darke County have newly constructed schools within the past ten years and are designed to current earthquake standards.

Darke County has approximately 520 miles of county roadways and 550 miles of township roadways with approximately 529 county bridges. Infrastructure can be very vulnerable to earthquake damage. Fortunately for the Darke County residents, the county engineers, for the last 33 years, have reconstructed 398 of these bridge structures to the most current applicable bridge standards.

The current Ohio Building Code requires building to be designed to comply and meet certain earthquake requirements.

The most risk to the county from an earthquake is the non-reinforced brick masonry structures, the hazardous materials facilities, water, sewer, and natural gas pipelines,

public and private property structures, the Wabash earthen dam in Allen Township, railroads, roadways, bridges, and communication towers.

A moderate to severe earthquake in the county would disrupt critical services which are essential to the lifeline of the community. Disruption of county transportation, industry, and business when stopped could have a tremendous economic impact on the county.

The impact would be that possible death and injury could occur from falling equipment, buildings, downed power lines, and impaired natural gas lines. Fire threats and debris costs would also be factors to be considered.

Probability of Future Events

Because at least 170 earthquake events have affected Ohio since 1776, it is anticipated one can expect future earthquake events. The probability of a future event has been developed per the USGS map (see map on Page 138). The measurement used in this estimation is based on the chance of ground shaking over time. In this analysis the extreme southwestern portion of Ohio has one in ten chance of experiencing an earthquake equal in force to three percent of the earth's gravity in the next 50 years due to its proximity to the New Madrid seismic zone.

From past history, future earthquake events are highly likely to occur in Ohio. The brief historic record of earthquakes in Ohio would suggest that a magnitude 5 earthquake is about the maximum event for the state. However, there is some concern that an earthquake in the magnitude 6 range could occur. On the basis of available data, it is difficult to accurately predict the maximum size earthquake that could occur in the state and impossible to predict when it would occur. On the basis of historic seismic activity, it is likely that large earthquakes with epicenters in the state would occur in the western Ohio seismic zone or in northeast Ohio. To date the state has not experienced any loss of life due to earthquakes. Damages are commonly limited to older structures that have not been built to earthquake design standards which have been incorporated into the building codes over the past 20 years.

Vulnerability Analysis & Loss Estimation

<u>Structure Type</u>	<u>Value</u>	<u>Percent of Potential Damage</u>	<u>Amount of Potential Damage</u>
Residential	\$ 374,055,208*	1.0% ** =	\$ 14,230,457
Commercial	\$ 59,077,152*	4.3% ** =	\$ 8,108,738
Industrial	\$ 22,241,224*	3.0% ** =	\$ 2,452,989
Agricultural	\$ 292,623,340**	1.0% ** =	\$ 1,391,673
Public Utilities	\$ 132,340,450*	1.0%** =	\$ <u>1,323,404</u>
			\$27,507,261

Sources:

* Based on Darke County Taxable Value (without land value)

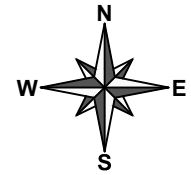
** "Understanding Your Risks" FEMA State and Local Mitigation Planning Guide 386-2 per Loss Estimation Tables.

VICINITY MAP

NO SCALE



DARKE COUNTY EARTHQUAKES



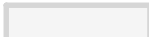
MAP LEGEND

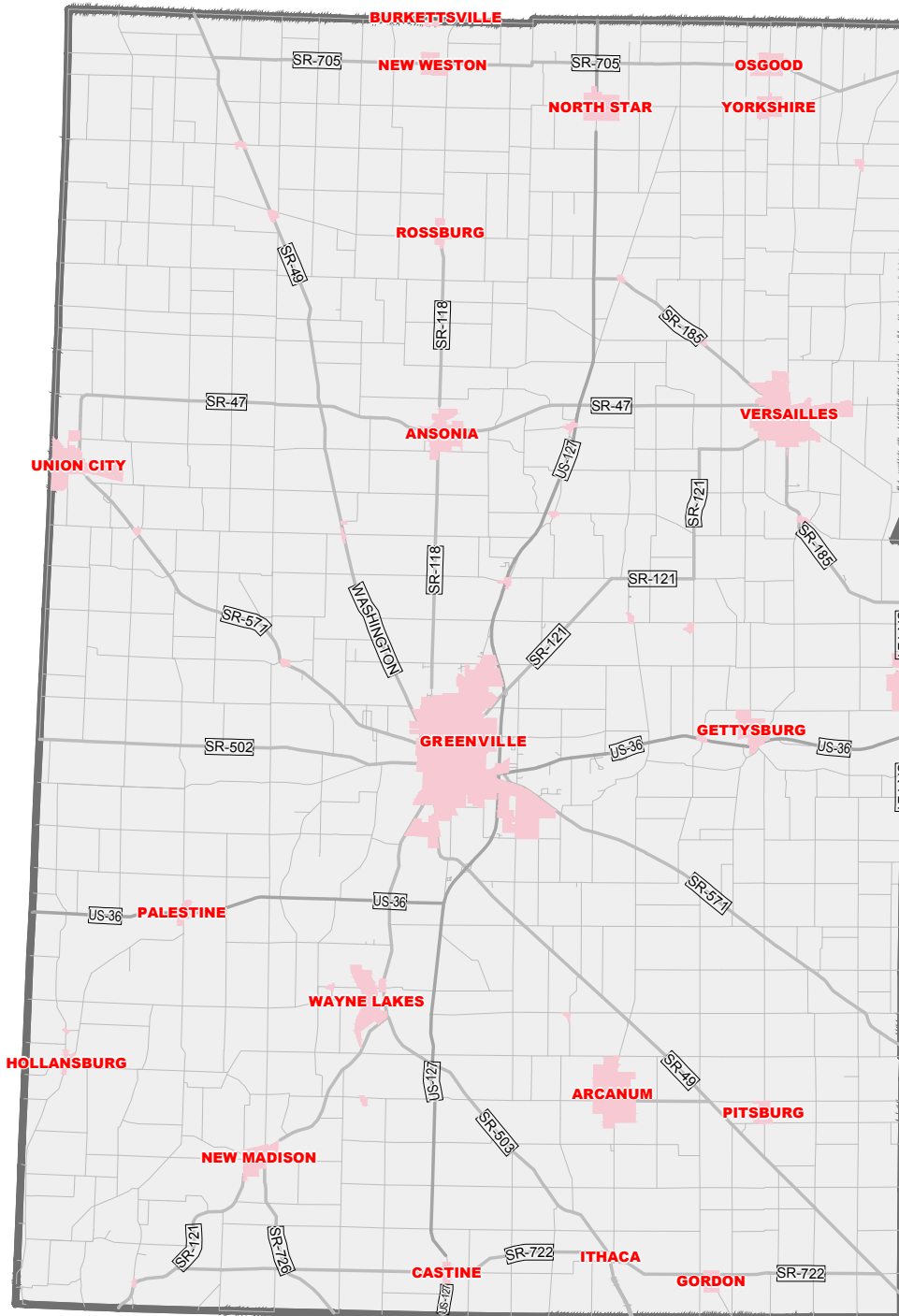
 MODERATE HAZARD

 MAJOR ROADWAY

 MINOR ROADWAY

 CITY / VILLAGE


 COUNTY



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DRAWN BY: CMB DATE: 6/15/18

SCALE: 1" = 22,000'

22,000 FEET 0 22,000

2.13 Development Trends

Darke County is located in west central Ohio and is bounded on the west by the Indiana border. Darke County residents have the unique opportunity to enjoy small town community life within easy access to major metropolitan areas. Darke County is within a 90-minute air market for 55% of the population of the United States. While largely rural and one of the leading agricultural counties in the state, Darke County is home to a diversified industrial base including Whirlpool Corporation, BASF, FRAM, and Greenville Technology, Inc. in the Greenville area, and Midmark in the Versailles area. Recent industries that have located to the County include The Anderson's Ethanol Plant and Continental Carbonics – dry ice facility. Whirlpool, Greenville Technology, Inc. and Midmark all have made improvements or expanded their facilities in the past five years. In the past 5 years work force development has been stepped up to train workers and due to the advanced manufacturing technology and address shortage of available work force.

Darke County also has a strong historical background and has generated an interest in tourism. Greenville, the County seat, is in the center of the County in which the scenic Greenville Creek passes through. Versailles and Ansonia are to the northern part of the county where the state scenic Stillwater River is located.

It is anticipated that the majority of the residential growth will be adjacent to the City of Greenville and villages that have public water and wastewater treatment facilities. Over the past 25 years residential growth in Greenville has been to the north and east sides of town as the topography and utilities tend to encourage this growth. However, the City of Greenville growth has been stagnant the last 5 years. It has been a recent trend in the past 20 years for the City of Greenville, Village of Versailles, and the Village of Ansonia to promote and maintain greenspace along the scenic river and creek waterways. The City of Greenville and Darke County Parks have, in the past, planned for the future to maintain a greenspace corridor of walking and bike paths along the Greenville Creek. Three new segments of this trail are to be constructed to the southeast of Greenville and through Greenville City Park. The County Planning & Zoning, as well as the individual cities, townships and villages have put into place zoning measures to prohibit the change of farmland to commercial/residential development in the agricultural areas. Only six of the twenty townships remain without adopted zoning regulations.

A new wastewater treatment plant is under construction in the Village of Arcanum and a new joint wastewater plant is being designed to serve the Hollansburg Palestine area as no central sewage system serves that part of the county. A new elevated water storage tank is planned for the Village of New Madison. A central sewage wastewater collection system and wastewater treatment plant is also in the planning stages for Wayne Lakes.

The City of Greenville and Village of Versailles have comprehensive development plans. In municipalities such as Greenville and Versailles their comprehensive plans indicate reserve greenspace along the creeks and rivers to preserve and keep development out of flood plains. The 1997 upper and lower Stillwater River Watershed Plan and Environmental Assessment was a joint Darke and Miami County effort to preserve and

protect the Stillwater River Valley with extensive grassed waterways, agricultural management plans, soil conservation practices, and control of erosion. Recent improvements to the Village of Arcanum and Village of Ansonia Wastewater Treatment Facilities will allow for development in these two County Villages. In addition, new Wastewater Treatment Plants have been completed in the past ten years in numerous small Villages such as Burkettsville, New Weston, Osgood, Yorkshire, North Star, Gettysburg, and Pittsburg. Versailles recently installed a new solar system at their water treatment plant.

The 1990, 2000, and 2010 Census Data, as well as the estimated 2016 population data, indicates that Darke County has maintained about the same or decreased slightly in population throughout the past 20 years. The largest population growth occurred between 1970 and 1980 when the County grew by approximately 6,000 people.

The current county total population for 2016 is estimated at 51,778. The projected decrease in population by 2020 is 51,270 and 48,280 in 2030 which is a projected continued slight loss in population. This may be in part due to the fact that farms are tending to get larger in size but are decreasing in number. The number of farms decreased from 2,010 in 2000 to 1,780 in 2010. However, the average size of the farms increased from 173 acres to 198 acres from 2000 to 2010. As with the previous years, the number of farms has decreased in 2016 to 1,693 and the average size has increased to 201 acres.

Most of the development has been smaller residential subdivisions within the City of Greenville, Village of Versailles, and the Village of Arcanum; small industrial companies in Greenville, Versailles, and Union City; growth of several of the community and Darke County park systems located in Greenville, Versailles, and Union City. It is anticipated this will be the trend for development due to the utility availability and because most of the rural county areas are zoned agricultural.

Darke County currently has a large number of retirement and assisted living centers. They are located in Greenville, Union City and Versailles. The Brethren Retirement Community is expanding to include 18 new single-family independent living cottages. In addition, within the past 5 years, a new assisted living center, The Village Green, has been constructed in the north end of Greenville. In addition, the county, with its numerous mobile home parks, campgrounds, and tourist attractions, has, at times, a temporary influx of population. It is anticipated the growth will be north and east of Greenville, around Versailles, and the larger Villages. Arcanum has added residence areas on the north end of the Village due to the close proximity of the Dayton job market.

There is not a recent countywide comprehensive planning document available for the county. As mentioned previously, the City of Greenville and Versailles are the largest population centers and they do not have recent comprehensive plans.

2.14 Multi-Jurisdiction Risk Assessment

In evaluating the countywide risk assessment to determine where jurisdiction risks may vary from the entire planning area, the following were noted:

1. Underground natural gas pipelines affect only certain townships.
2. The Wabash Structure #1 Dam is a Class II structure which is owned by the Wabash Conservancy District. It is located in Allen Township. The dam was constructed in 1964. It has a drainage area of 13 square miles and a height of 37'. It has two emergency spillways (320' and 325') separated by a levy which carries St. Rt. 118. At normal pool, it has 57 acres of surface area. It has a top of dam average area of 300 acres. The top of dam storage volume is 3,183 acre feet. The dam file is classified by the Ohio Department of Natural Resources Dam Safety Division (File 0245-001). This Class II dam, as per the Division of Water, has a potential to cause flood water to homes, farms, and roadways with no loss of life envisioned. Since it's construction, the flooding immediately downstream of the dam within Darke County has been limited to water coverage of McFeeley-Petry Road which creates emergency access to farms and residences.
3. Railroads affect only some townships, cities, and villages.
4. Hazardous chemical facilities affect only certain townships, cities, and villages.
5. Only certain villages and cities have public water and wastewater treatment plant facilities and related piping infrastructure, however the county continues to add more central sewage collection systems for its smaller, rural villages.
6. Only certain cities and villages are considered to have a portion of the city or village within a 100-year flood plain.
7. Large mobile home parks and campgrounds are located in certain cities, villages, and townships.
8. Several townships do not have critical facilities located within their jurisdiction.
9. Updated maps identify the areas that may be more vulnerable such as critical facilities, mobile home parks, residential care facilities, schools, medical facilities, etc.
10. With its large agricultural base, wind and hail storms can affect different areas of the county and cause significant spotty damage to crops.
11. Larger community events and festivals, such as Eldora Speedway and The Darke County Fair, temporarily increase population for these areas and can have a variation in short term risks during adverse weather conditions for these outdoor activities.

Comment

In reviewing the multi-jurisdiction risk assessment for the 2011 update, the DCHMC concluded there has not been a significant change in where the jurisdictional risks will vary.

Mitigation Strategy

- 3.1 Successfully Completed Hazard Mitigation Projects
- 3.2 Mitigation Strategy – Goals – 2018
- 3.3 Re-Evaluating Darke County’s Problems
- 3.4 Implementation of Priority Action Items
- 3.5 Priority Action Items

3.1 Successfully Completed Hazard Mitigation Projects

The Darke County communities have benefited from past Mitigation Planning Sessions that occurred as a part of the 2006 and 2012 Hazard Mitigation Plan Activities as well as the 2018 Planning Sessions covered within this plan update. Numerous problems and issues were brought forth to the Darke County Hazard Mitigation Committee to review and discuss. Problem statements were developed, goals and objectives were set, and a list of action items were developed. These Action items were identified and handed off to a responsible coordinator from these organizations to address. In reviewing and updating the Darke County Natural Hazards Mitigation Action Items, approximately 19 action items were successfully completed from 2012 to 2018. All prior Action Items were reviewed by the Hazard Mitigation Committee and identified as completed, deleted, deferred, new, no changes, or ongoing. Although the initial Darke County Hazard Mitigation Committee didn't meet on an annual basis, the participating organizations continued their mitigation efforts to achieve success. Under implementation of Priority Action Items found on page 135 of the 2012 FEMA Approved Plan, the action items on the following pages were identified as high priority and were tasked out. The County has had much mitigation success with the implementation and completion with many of these priority action items. In addition, many supporting mitigation activities occurred that were not identified and are also listed on page

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Action Item Addressed
CW1	1						X	Countywide	Tornadoes	Complete tornado warning siren program for all incorporated Villages. Provide battery backups.	Darke County EMA Village Mayor/Administrator	Ongoing	High	YES
CW2	2					X		Countywide	Tornadoes	Encourage construction of safe rooms at community parks, large mobile home parks, campgrounds, fairgrounds.	Darke County EMA Local Park Boards Private Park Owners	2 - 5 Years	High	NO
CW3	3						X	Countywide	Tornadoes	Continue yearly tornado drill program at all schools.	Darke County EMA Darke County Schools	Ongoing	High	YES
CW4	4						X	Countywide	Tornadoes	Continue NOAA Weather Radio program for large industries, residential care homes, day care centers, schools.	Darke County EMA	Ongoing	High	YES
CW18	18						X	Countywide	Multi-	Increase communication, coordination and collaboration between community leaders, property owners, local and county building regulations and zoning authorities to address risk and to provide uniformity and consistency in implementing sound mitigation practices.	Local Village Officials Township Zoning & Planning Officials Darke County Natural Hazards Mitigation Planning Committee	Ongoing	High	YES
GR1	19	X						City of Greenville	Tornadoes	Safe room for Greenville Boys Baseball Park Complex.	Baseball Association Board Chairperson	Completed 2012	High	YES
GR2	20	X						City of Greenville	Tornadoes	Safe room for Greenville Girls Softball Association.	Softball Association Board Chairperson	Completed 2008	High	YES
GR3	21					X		City of Greenville	Tornadoes	Safe room for Olwine's Mobile Home Park.	Mobile Home Park Owner	5 Years	High	NO
GR6	85	X						City of Greenville	Flooding	Remove Winchester Avenue residence from flood plain - property acquisition	Darke County Park District	Completed	High	YES
AN1	24	X						Village of Ansonia	Flooding	Provide floodproofing of Village sanitary lift station along Stillwater River.	Village Administrator	Completed 2012	High	NO
BR1	27	X						Village of Bradford	Tornadoes	Install tornado warning siren.	Darke County EMA Village Administrator	Completed	High	YES
BU1	28	X						Village of Burkettsville	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed	High	YES
CA1	29					X		Village of Castine	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Ongoing	High	NO
GO1	32					X		Village of Gordon	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Ongoing	High	NO
HO1	33	X						Village of Hollansburg	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed	High	NO
IT1	34	X						Village of Ithaca	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed	High	YES
NW1	36					X		Village of New Weston	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	NO

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Action Item Addressed
OS1	38					X		Village of Osgood	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	NO
PA1	39					X		Village of Palestine	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	NO
PI1	40					X		Village of Pitsburg	Tornadoes	Install tornado warning siren. The Village has an old fire siren.	Darke County EMA Village Mayor	2 Years	High	NO
PI3	42					X		Village of Pitsburg	Tornadoes	Safe Room at Community Park	Village Mayor	2 Years	High	NO
VE1	45	X						Village of Versailles	Flooding	Complete plans and pursue funding for new water treatment plant.	Village Administrator	Completed	High	YES
VE2	78	X						Village of Versailles	Flooding	Swamp Creek channel modification project	FEMA/Army Corps/Village Administrator	Completed	High	YES
VE3	79	X						Village of Versailles	Flooding	Property Acquisition	FEMA/Village Administrator	Completed	High	YES
VE4	80						X	Village of Versailles	Flooding	Swamp Creek maintenance	Village Administrator	Ongoing	High	YES
VE5	81	X						Village of Versailles	Flooding	Update Flood Maps and Flood Damages	FEMA/ODNR/Village Administrator	Completed	High	YES
VE6	82	X						Village of Versailles	Tornados	Install tornado Warning Siren	Darke County EMA/Village Administrator	Completed	High	YES
VE7	83	X						Village of Versailles	Tornados	Implement One-Call Messaging system	Village Administrator	Completed	High	YES
VE8	84	X						Village of Versailles	Flooding	Construct new Water Plant outside of Flood Zone Area	OEPA/Village Administrator	Completed	High	YES
WL1	46	X						Village of Wayne Lakes	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed 2012	High	NO
YO1	47					X		Village of Yorkshire	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	NO
BU Twp2	53A						X	Butler Township	Flooding	Crawl space flooding multiple residences - Hollansburg-Sampson Road, Section 31	Butler Township Trustees Darke County Engineer	2 Years	High	NO
GR Twp1	55	X						Greenville Township	Tornadoes	Safe room for Greenville Girls Softball Recreation Complex.	Darke County EMA	Completed	High	YES
GR Twp6	60	X						Greenville Township	Flooding	Evaluate and develop flood mitigation plan for flooding of properties and roadways at White Springs and Seiler Road.	Greenville Township Trustees Darke County Engineer	Completed	High	YES
MO Twp1	66	X						Monroe Township	Flooding	Flooding around residences - State Route 49 south of Oaks Road	Monroe Township Trustees Darke County Engineer	Completed 2013	High	NO

In addition to those high priority action items listed above that were within the Plan, the following activities were completed that support mitigation.

- Red Cross training on emergency preparedness to various community organizations throughout the county by the Northern Miami Valley Red Cross Unit.
- The Village of Versailles has adopted an ongoing maintenance plan for Swamp Creek.
- A new bridge has been constructed on North Center Street in Versailles.
- The North Star Community Fire Department built a new facility.
- Levy work has been completed at the Greenville Wastewater Treatment Plant.
- The Darke County Sheriff's Office K-9 patrol and the Village of Union City Police Department have established active K-9 Patrols.
- Active shooter drills and lock down training has been completed by the Darke County Sheriff's Office.
- Yearly tornado drills have been completed at all Darke County schools by the Darke County EMA.
- Fire drills have been completed at all Darke County Schools by School Administrators in conjunction with local fire authorities.
- The Villages of Castine, Hollansburg, and Osgood have installed new tornado sirens. The Village of Versailles has installed an additional siren at the industrial park.
- The NOAA weather radio program (parks, manufacturing facilities, nursing and assisted living facilities).
- The Village of Ansonia completed flood proofing of their village sanitary lift station and added a generator to the main lift station.
- The Village of Versailles demolished a structure that was located in the flood plain.
- Several flooding issues continue to be addressed in Darke County.
- The MARCS Radio system has been installed in the City of Greenville 911 Center and the Darke County 911 Center is moving forward with the implementation.
- The Village of Union City is installing a new MARCS radio tower.
- Plans completed for new County 911 dispatch center completed. Construction start planned for late summer 2018.

- Plans completed for a new green space trail southwest City of Greenville and through the Greenville City Park along the Greenville Creek corridor.
- The City of Greenville and Darke County Soil & Water Conservation District held collaborative forum to educate city residents about storm water related issues and impacts.
- The Villages of Hollansburg/Palestine are in the planning stages of a joint sewer system.
- The Village of New Madison is in the planning stage for a new water tower.
- Erwin Brothers installed a private wastewater system for their business on State Route 49.
- County Highway Department Action Items completed as follows:
 - Continual maintenance and replacement of signs, maintaining drainage along and through the roads, repairs due to weather and accidents, trimming and removal of trees and brush, sealing of cracks and pavement painting.
 - 2013 – One new bridge constructed, one large culvert replaced, and 6 bridges rehabilitated.
 - 2014 – Replace six county road culverts, two new bridges constructed, and seven bridges rehabilitated.
 - 2015 – County Highway Department replaced five roadway culverts and seven subsurface tile replacements.
 - 2016 – Five new bridges, one large culvert, five rehabilitated bridges, and rehabilitated two existing bridges.
 - 2017 – Six new bridges on township roads were completed by the Darke County Highway Department.
- The Village of Osgood has made improvements to their wastewater collection system and to their fire department.
- The Village of Union City completed the relining of the sanitary sewer system to reduce the inflow of storm water.
- Monroe Township demolished the former Franklin Township school and completed a new elementary school. Improvements to the sanitary sewer were also completed.
- The Village of Versailles has made upgrades to the water plant, electrical substations and electrical transmission system.
- The Village of Bradford constructed a new wastewater plant in 2013 and a new water treatment plan in 2017. Updates were made to the fire department in 2018.

Darke County, Ohio Hazard Mitigation Plan

- The Village of New Madison made upgrades to the electrical system at the water plant and also added a generator.
- The Village of Gordon has made some repairs to storm drain tiles as needed. Also, due to record breaking rainfall in the spring of 2018, which caused many streets to flood, the storm drains were cleaned out.
- Dayton Power & Light has completed new tree removal and maintenance plans to reduce power outages.

While Darke County has made progress in completing the above mitigation actions, many items listed in the Action Item list still remain to be completed. The reasons for not completing all the identified action items include:

- Other priorities that have come to the forefront.
- Lack of funding resources.
- Lack of adequate staff members on various coordinating agencies and stakeholders.

3.2 Mitigation Strategy – Goals – 2018

I. Mission

It is the intent of the Darke County Hazard Mitigation Committee to provide hazard reduction goals as reflected in this plan, along with their corresponding objectives to guide the development within Darke County. The process is necessary to reduce loss of life, property damage, and risk to the citizens of Darke County by implementing these goals.

Comment: The plan mission remains the same as per the 2006 and 2012 plan with minor wording modification.

II. Public Participation

The overall goals of the Darke County Natural Mitigation Planning Committee have been established from input from the general public from five open public planning meetings, a collaboration of those persons attending the Darke County Hazard Mitigation Committee meetings, and from recommendations of the members of the Darke County Hazard Mitigation Planning Committee.

The Darke County Hazard Mitigation Committee has examined the issues of the general public, public agencies, and their representatives, private organizations, community planning organizations, and private residents.

Comment: Revised to reflect a number of 2018 Planning Sessions.

III. Establish Goals

A. Preventative

- To reduce risk and loss of life by implementing activities to give Darke County citizens as much advance warning as possible of impending natural hazards
- Coordinate existing plans and strategies already in place to put them to more effective use
- Strengthen communication between various communities and agencies throughout the County to make them aware of good, sound mitigation activities and practices
- Continue to coordinate policies and plans for the protection of critical facilities, services, and infrastructure

B. Property Protection

To develop practices and implement activities to protect lives and reduce damages to homes, businesses, industries, and agricultural areas of Darke County

C. Emergency Services

Continue to support and coordinate emergency services efforts throughout the County and continue to strengthen emergency operation plans at the various Darke County communities

D. Structural Projects

- Continued maintenance of existing Wabash Dam, river, stream, and storm detention facilities
- Continued Mitigation of Structures located within the 100-Year Floodplain
- Continued maintenance of county roadways, streets, bridges, and drainage structures

E. Natural Resource Protection

Continue to rehabilitate, protect, and enhance the natural systems already in place in order to preserve the rich, historical and agricultural environment found in Darke County

F. Public Information

Continue to educate the citizens of Darke County and promote public awareness of the risks associated with natural hazard events

Comment: The 2012 goals and objectives remain as 2018 plan goals and objectives with minor modifications.

Darke County's Problem Statements Identified in 2018 Plan

The committee reviewed the county problems outlined in the 2012 plan. The committee concluded the following about the statements:

1. There continues to be a lack of financial resources to fund improvements and action items.
 - *The Darke County Hazard Mitigation Committee agreed this prior problem statement is still valid, however, additional revenue such as the recently enacted County Permissive License Tax helps provide additional revenue for County projects which can have a positive affect on mitigation activities.*

2. During intense storms when a lot of precipitation over a short duration of time flooding still occurs in the county due to:
 - Old, undersized field drainage tile.
 - Log jams on rivers and creeks.
 - *Farm field agricultural residue such as corn and bean stalks clog drainage ways and grates. (The agricultural community has been educated about baling and chopping corn and bean stalks with some positive results).*
 - Plat houses exist in low lying areas. *Measures have been taken to help address plat housing flooding by installing large county tiles in some locations.*
 - Older city and village sanitary sewer systems that have not been rehabilitated.
 - *The Darke County Hazard Mitigation Committee agreed these prior problems are still valid.*

3. Some structures built years ago still exist in the 100-year flood plain including critical facilities such as community water and wastewater treatment plants.
 - The Darke County Hazard Mitigation Committee agreed this is still applicable, but progress is being made to replace/rehabilitate in many Darke County communities.

4. Darke County has many festivals, events, and recreation areas which attract many visitors and participants. At many of these locations, there is no safe place for attendees during a severe storm or tornado event.
 - *Darke County Hazard Mitigation Committee agreed this is still valid. In addition, there is an extreme need for additional resource officers – volunteer law enforcement officers are now fewer because of the vast*

amount of training required. It is difficult for volunteers to find time for training.

- *A Darke County evacuation plan for the fairgrounds has been implemented and tornado sire has been installed at Eldora Speedway.*
5. With Darke County being located along the Ohio/Indiana border, most of the violent weather enters Darke County from Indiana. It has been the county residents' experiences that many of the storm warnings are not received until the storms are in progress or after they have passed through much of the county.
 - *With advanced technology and electronic warnings, cell phones and social media, this statement is being addressed.*
 6. Due to the number of public entities (21 cities and villages, 20 townships), Darke County has many different agencies and authorities to communicate and coordinate with in regards to implementing and standardizing comprehensive planning, zoning, building code, and economic planning tools and emergency response.
 - *The Darke County Hazard Mitigation Committee agreed this is still valid, although countywide Darke County EMS Board and Fire Association, Mayor and Township Trustees meetings along with Darke County Partnering for Progress initiative have improved channels of communication.*
 7. Darke County is a rural county large in geographical area with many elderly residents. Darke County has more miles of roadway than any other county in the State of Ohio. The many miles of rural, state, county and township roadways create greater challenges during periods of severe storms, flooding, ice events, snow and blizzards for the First Responders and county resident.
 - *The Darke County Hazard Mitigation Committee realizes geographic area will not change and improvements such as new MARCS radio and updated 911 Centers for the City of Greenville and Darke County will improve communications.*
 8. Due to the centralization of many public utilities there is an increase in response time during storm events. This has created extra manpower issues for first responders and communities to stand by downed power lines until the utility companies arrive. Longer utility outages can also increase the need for shelters with emergency backup power. Many residents are utilizing their own emergency generators which prompt the need for more public awareness on the safe use of emergency generators.
 - *The Darke County Hazard Mitigation Committee agrees this is still a large issue with deregulation and the fact that most utilities no longer have local service departments but utilize private contractors. This problem still needs further resolve.*

New problem statements added for 2018:

9. The CSX Railroad has significantly increased rail traffic and length of train cars. This is to the extent that CSX has posted signages indicating this at most all roadway crossings. The towns of Union City, Ansonia and Versailles have been affected.
 - Railroad crossing grade build-up over the years have caused safety issues for tractor trailer low boys. There was an incident in the Village of Versailles with a low boy tractor trailer being hit.
 - Posting signage for low boy tractor trailers at the crossing is another potential way to address the issue.
 - Contact PUCO.
10. Active shooter and opioid drug issues affects available manpower for emergency responders.
11. Flash flooding seems to be increasing with more frequent heavy rainstorms as witnessed by the July 2017 Arcanum area flooding and the July 2015 Ansonia and Greenville area flash flooding (worst flash flood in over 40 years in some areas).

3.3 Re-Evaluating Darke County's Problems

During the four Planning Meetings from, December 2017 – April 2018, the Darke County Hazard Mitigation Committee re-evaluated the vulnerability analysis and estimate of losses, redefined problem statements, re-examined goals, identified additional mitigation activities, and developed action plans necessary for the multi-jurisdictional plan of Darke County.

The Darke County Hazard Mitigation Committee decided to continue to utilize the current goals with minor wording changes, which coincide with other goals of the Darke County community. The Committee focused on the main tools available which included the Darke County Emergency Operations Plan, Darke County Zoning and Subdivision Regulations, Local Township and Village Zoning Regulations, Darke County Economic Development Planning, Darke County Partnering for Progress Initiative, county accepted stormwater practices, and supporting the Darke County Park District's open space goals and objectives. Also, highly considered was the agricultural influence in the county and available watershed studies.

The Darke County Emergency Management Agency is pleased that the Darke County community and its leaders have taken a proactive role with the completion of many of the 2012 high priority mitigation activities. Over recent years all of the county school systems have had new schools built or existing schools renovated to meet correct building code standards. Since the 2011 plan update, Greenville City Schools has built a new K-8 school and renovated its high school. The former elementary and junior high schools have been razed. In addition, two of the former Ansonia buildings were removed from the 100-Year Floodplain and is now open green space.

The Darke County Engineer's Office in the past year alone has constructed 6 new bridges and replaced 60 road culverts, one large culvert, and 29 subsurface tile crossings.

The Village of Arcanum is constructing a new wastewater treatment plan and the Village of Hollansburg and Palestine are in the planning stage of a new sanitary collection system and joint wastewater treatment plant with construction starting in 2019. The Village of New Madison is in the planning stages for a new elevated water storage tower for the community and secured grant funds.

Over the last 40 years, the Darke County Engineer has replaced in excess of 400 of its 529 county bridges, constructing them to the latest bridge design standards. As a result, the impact of the road flooding issues has lessened. A new county wide permissive tax fee was enacted by the Darke County Commissioners which will help fund additional county highway infrastructure projects.

As a result of flooding problems brought forth in the initial 1999 Flood Mitigation Planning, several countywide drainage problems have been addressed. These include Butler Township on Otterbein-Ithaca Road, where several homes had field flooding problems and a new drainage culvert was installed. In Franklin Township, the County

Engineer also provided assistance to the Village of Pittsburg to install a county storm drain that has reduced flooding to the village.

The City of Greenville and the county's larger Villages, including Versailles and Arcanum have strict storm water design standards and regulations so that pre-development runoff will not exceed post-development runoff. Darke County unincorporated areas, the City of Greenville, Villages of Ansonia, Arcanum, Gettysburg, New Madison, Union City, and Versailles are all participating members of the National Flood Insurance Program (NFIP) and have recently updated floodplain ordinances.

Some flash flooding issues still exist due to poor planning, rapid development, and limited inspections for homes built in the 1960's and 1970's. As a result of these problems, several countywide flash flooding areas have been identified on miscellaneous flood maps (see pages 162-170). The Darke County Hazard Mitigation Committee implemented a special task force made up of township trustees and county agencies which resulted in the reduction of flooding issues and other river line and field flooding caused by log jams and corn fodder residue blocking drainage grates.

From evaluation of current regulations and as brought forth by the Darke County Planning Commission, Building Regulations Department, and local township and zoning officials, many of the tools are in place to curb development within the established 100-Year Floodplains. The Darke County Review Board also visits unincorporated county building sites to ascertain regulation criteria have been met. The Darke County Scenic River Association and Darke County Park District also takes an active role to help protect our natural resources along the scenic county river and stream corridors.

Darke County also has several watershed organizations established, along with adjacent counties to study, monitor and make recommendations to improve the water quality of the Stillwater Rivers and its tributaries. One of these, the Stillwater River Watershed Protection Project, serves Darke and Miami Counties and has the cooperation of approximately 30 organizations including a regional planning commission, park districts, local planning and zoning commissions, scenic river associations, villages and cities, Ohio Department of Natural Resources, Ohio Department of Agriculture, farm organizations, Ohio Environmental Protection Agency, U.S. Farm Service Agency, county officials, soil and water conservation officials, and various other organizations.

The Darke County Emergency Management Agency (EMA) continues to provide yearly tornado drills and public information for all of the Darke County schools and counties to do so. The Darke County EMA also currently has a program to place NOAA weather radios in the local hospital, schools, nursing homes, daycare centers, and industries with a large number of employees. This is an ongoing project and they hope to expand the program to include other locations that will benefit from advance weather warnings. Darke County has four villages out of 21 that do not have tornado or warning sirens in place. This is an ongoing action item with the EMA's goal to successfully complete installation of tornado warning sirens in all of Darke County's incorporated cities and villages. Placement is dependent on available finances and the villages desire to install

these warning devices. With the advancement of electronic technology, weather and emergency messaging has also enhanced capabilities to getting warnings out to more county residents prior to impending storms and emergency situations.

The Darke County EMA has a good identification system and emergency procedures for the known hazardous chemical facilities in the County. Darke County has a very well-trained First Responders group of individuals, many of whom are unpaid volunteers dedicated to serving the residents of Darke County.

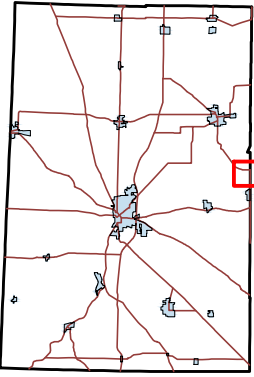
While many positive mitigation activities have successfully been completed and are in process, the Darke County Hazard Mitigation Committee was made aware of several new problems, as well as past issues, still exist.

The Darke County Hazard Mitigation Committee reviewed the past problem statements and commented on how they were perceived in 2018. After discussions, existing problem statements were validated and new problem statements were drafted for the 2018 plan.

MISC. FLOODING - ADAMS TOWNSHIP






VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

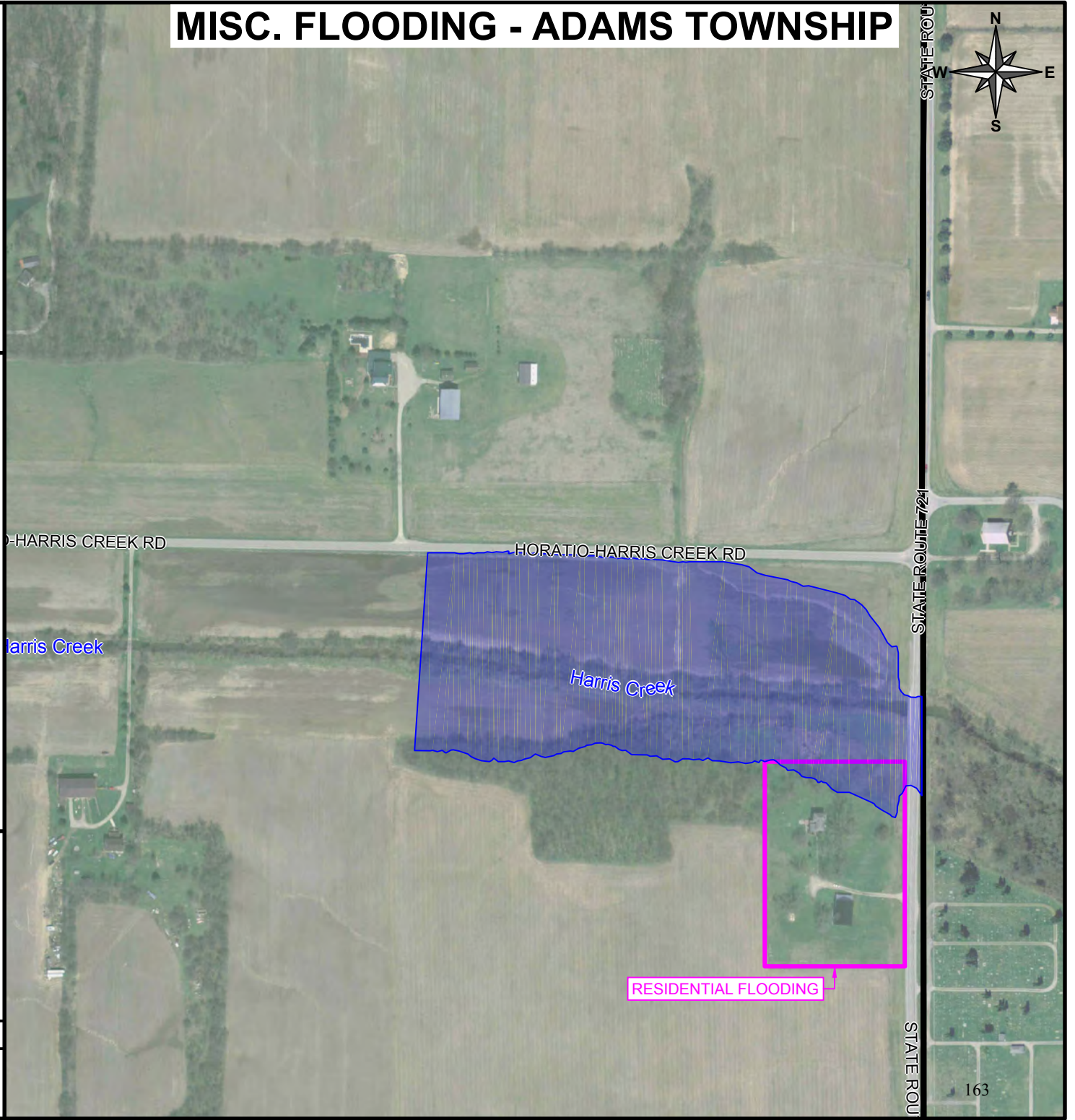
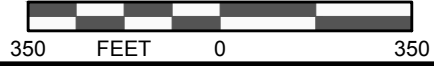
-  FLOODWAY
-  FLOODPLAIN
-  DARKE COUNTY LINE
-  APPROXIMATE MISC. FLOODING EXTENTS
-  CITY / VILLAGE CORPORATION LIMITS

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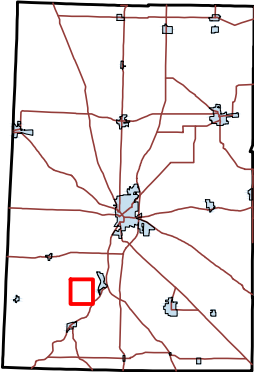
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VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN

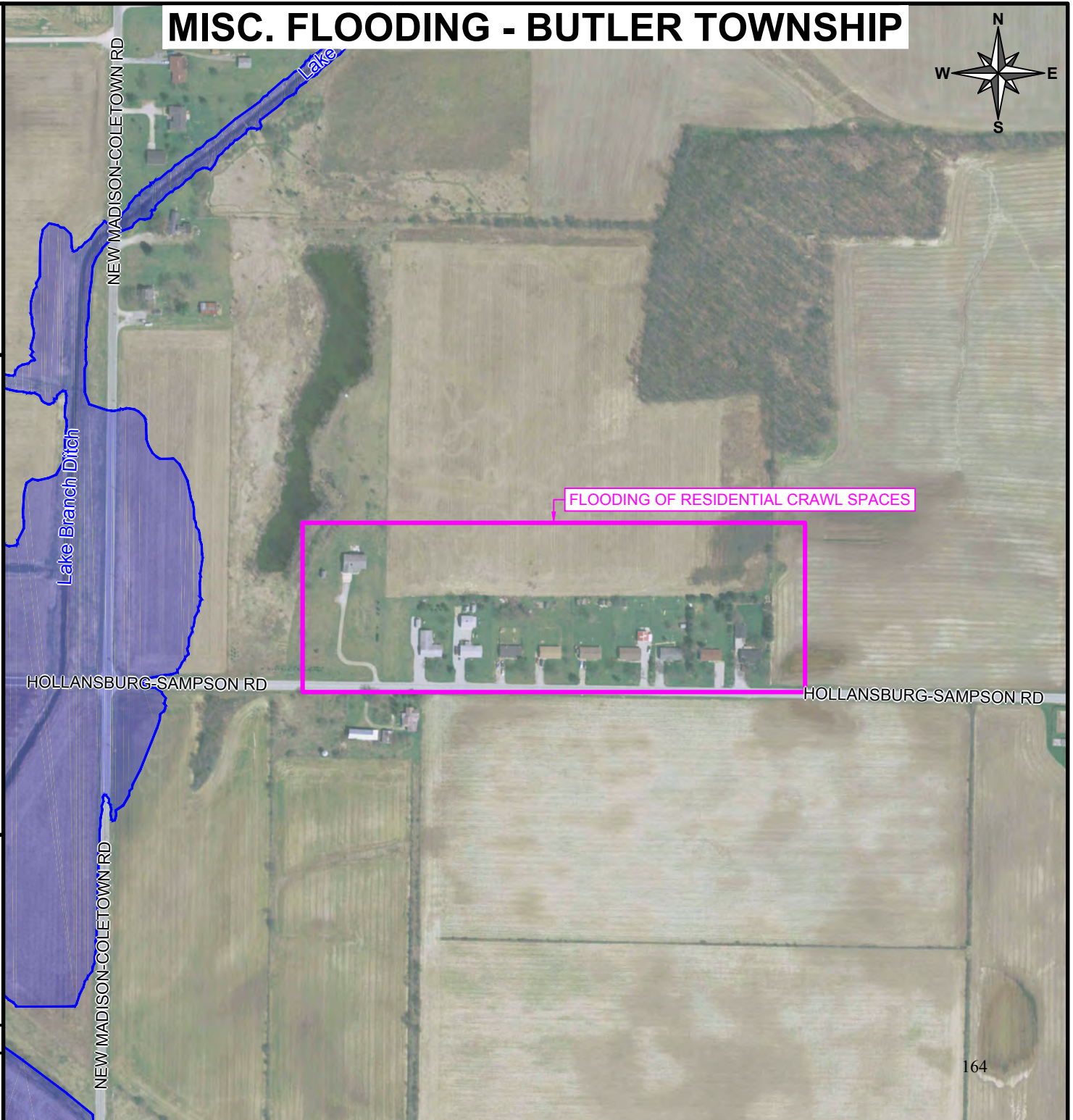


APPROXIMATE MISC.
FLOODING EXTENTS



CITY / VILLAGE
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MISC. FLOODING - BUTLER TOWNSHIP



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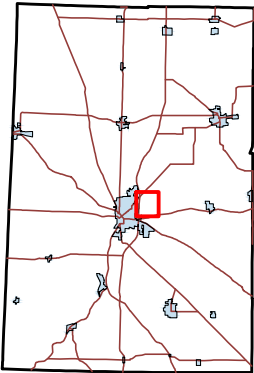
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VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN

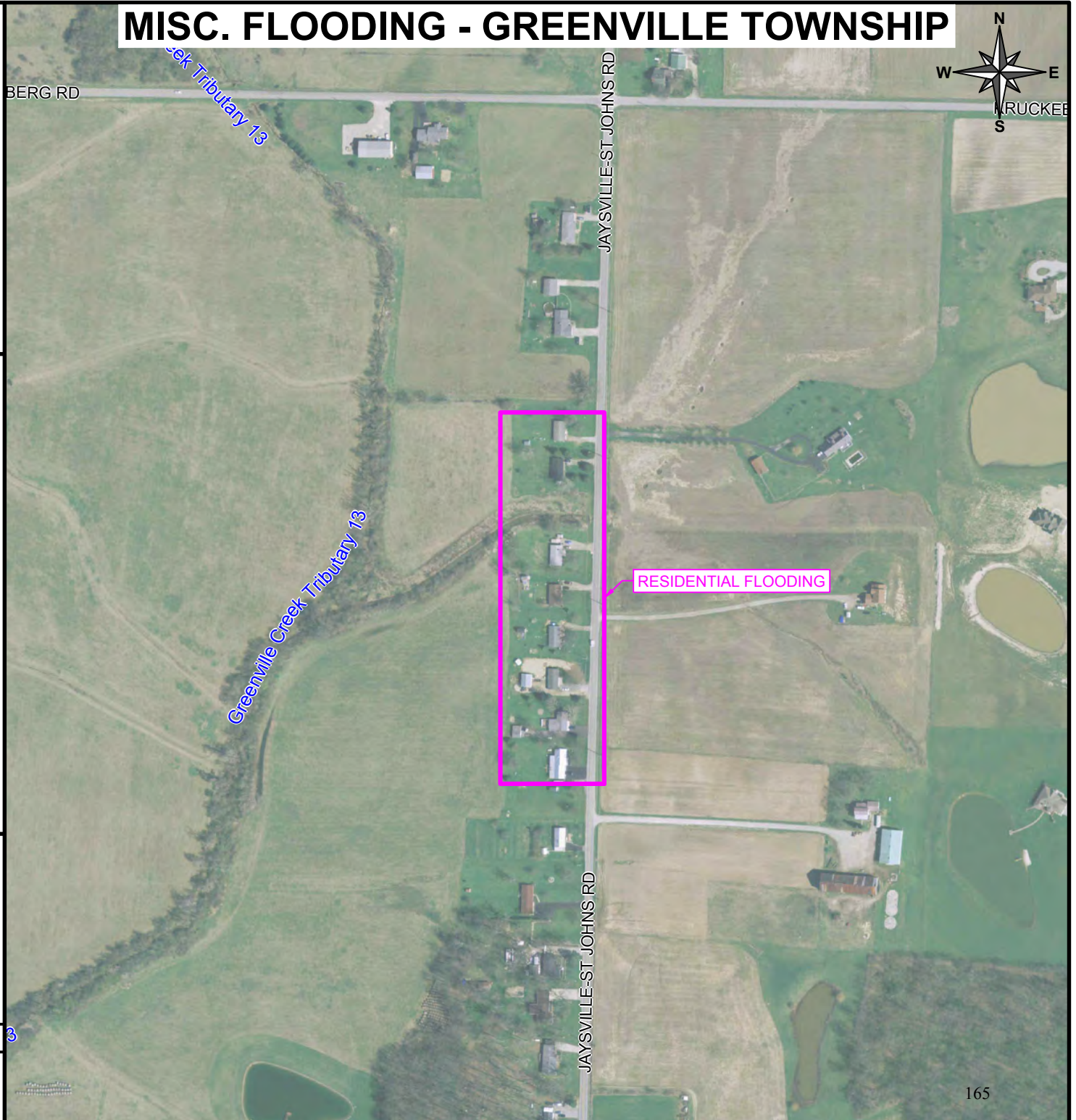


APPROXIMATE MISC. FLOODING EXTENTS



CITY / VILLAGE CORPORATION LIMITS

MISC. FLOODING - GREENVILLE TOWNSHIP

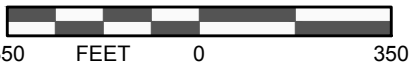


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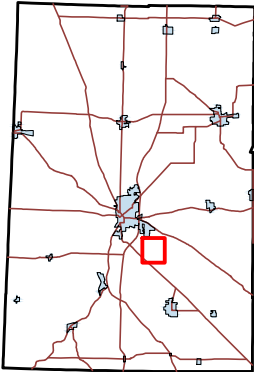


MISC. FLOODING - GREENVILLE TOWNSHIP



VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

-  APPROXIMATE MISC. FLOODING EXTENTS
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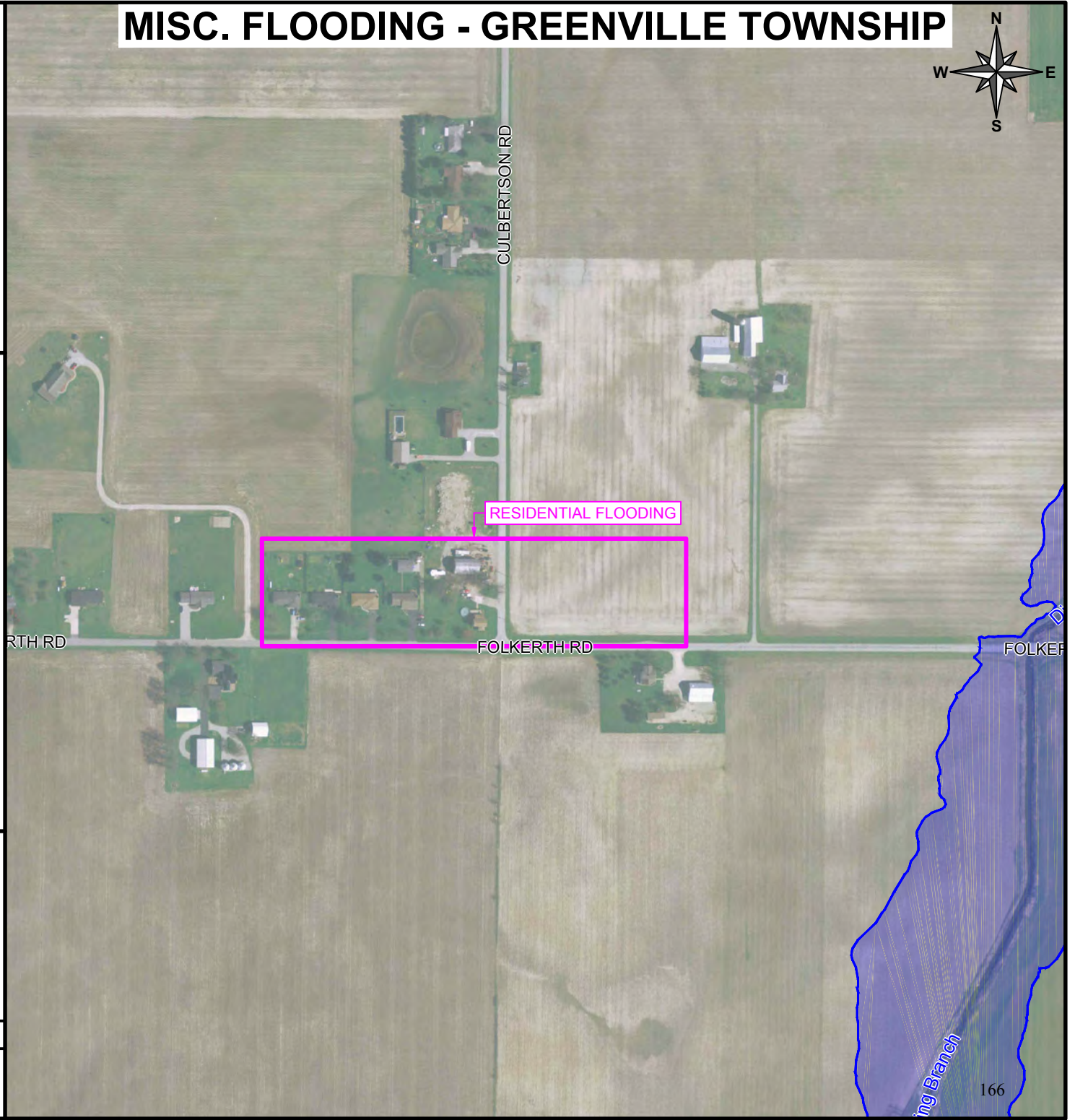
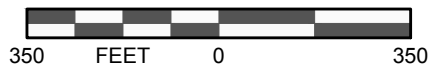
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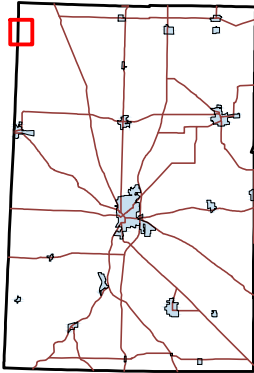
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VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND



FLOODWAY



FLOODPLAIN



APPROXIMATE MISC. FLOODING EXTENTS



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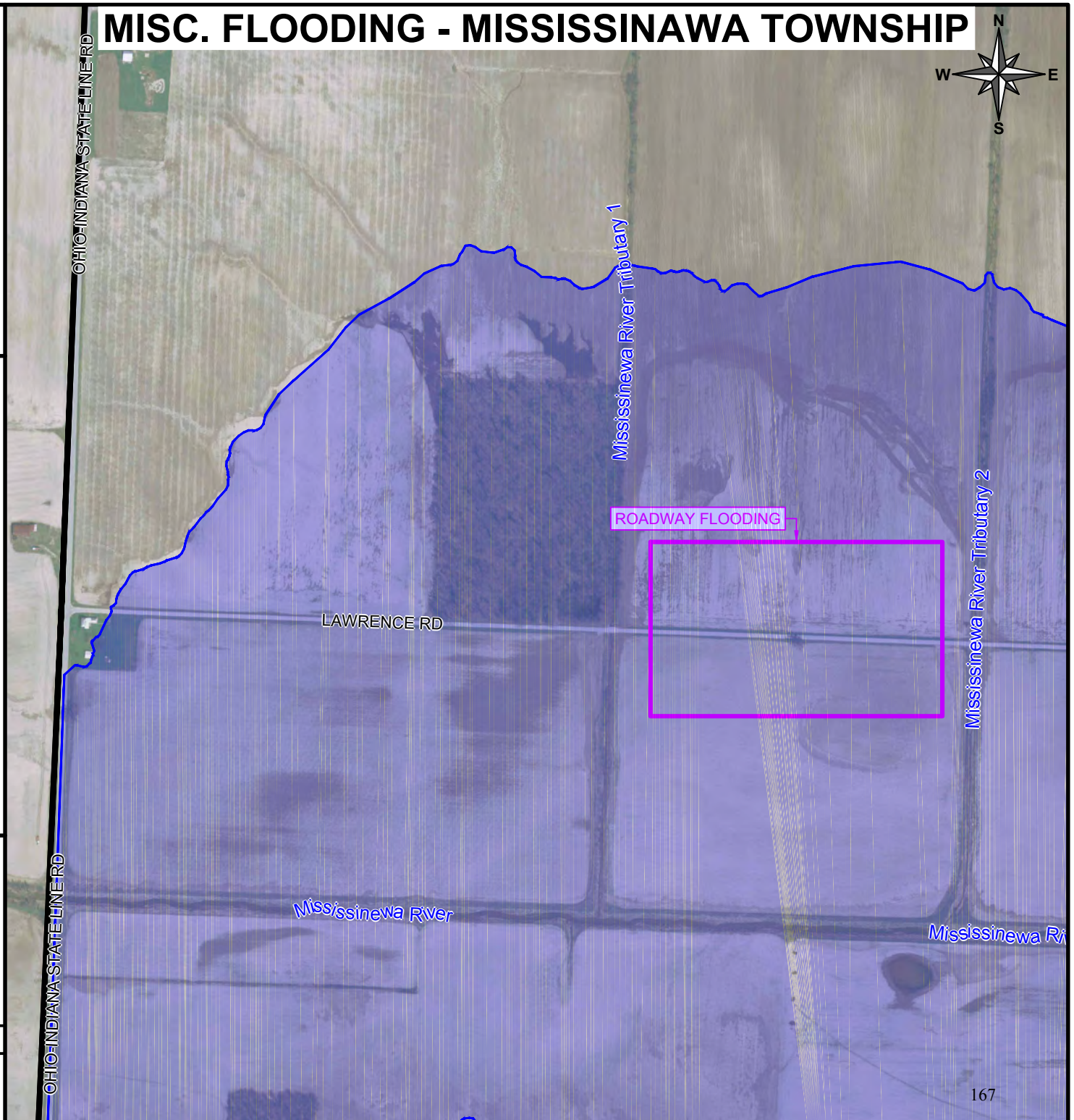
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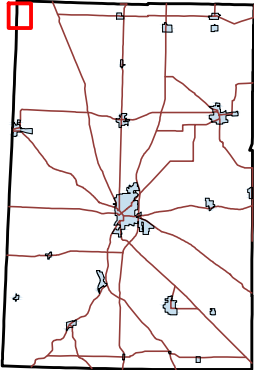
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MISC. FLOODING - MISSISSINAWA TOWNSHIP





VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

-  APPROXIMATE MISC. FLOODING EXTENTS
-  CITY / VILLAGE CORPORATION LIMITS

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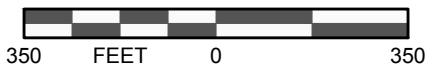
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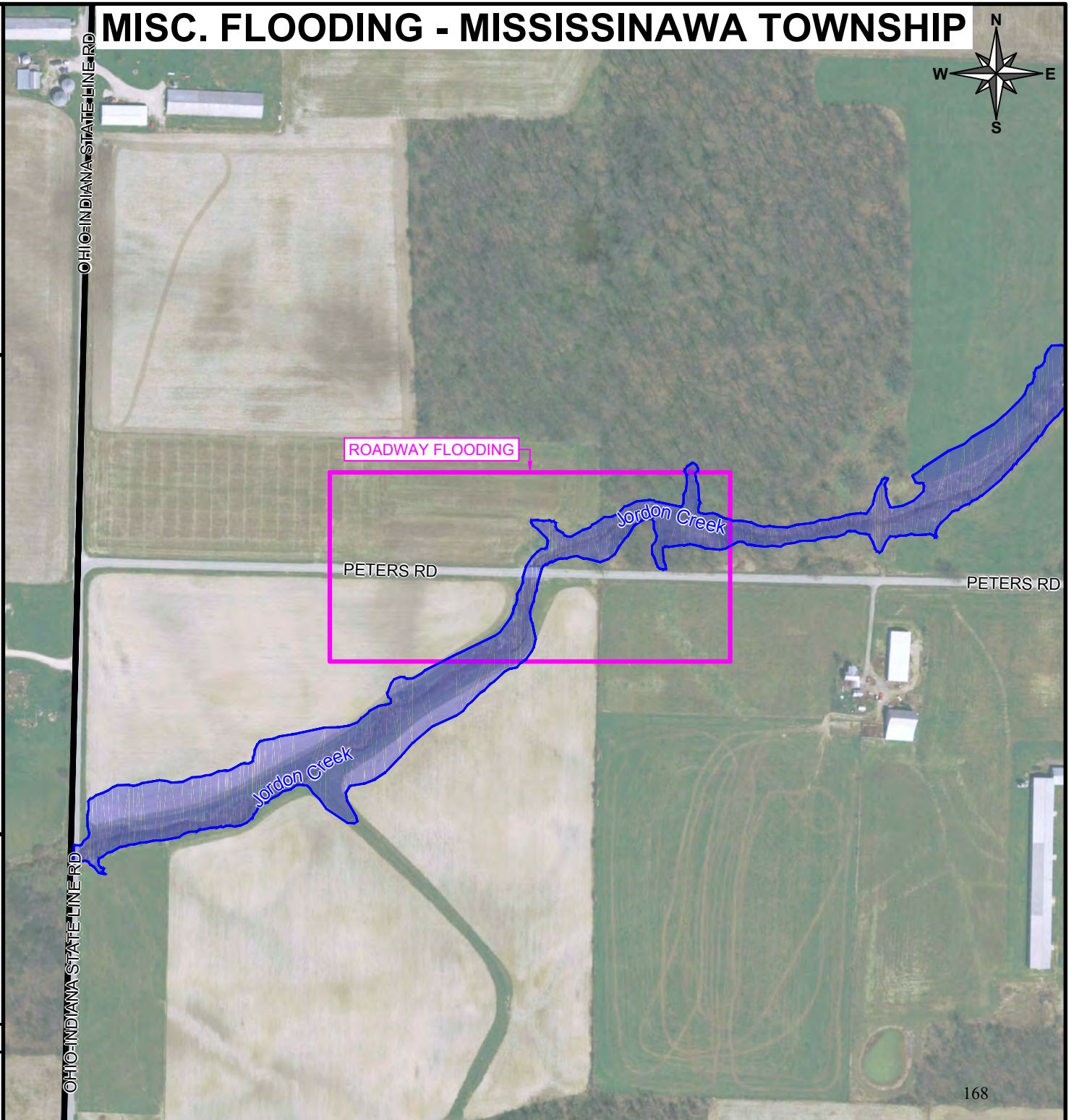
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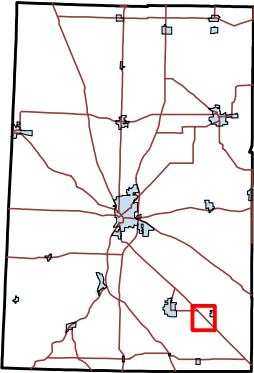


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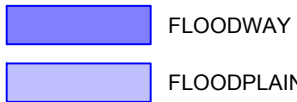
VICINITY MAP

NO SCALE



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MAP LEGEND



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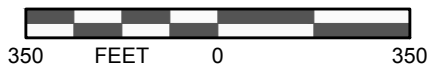
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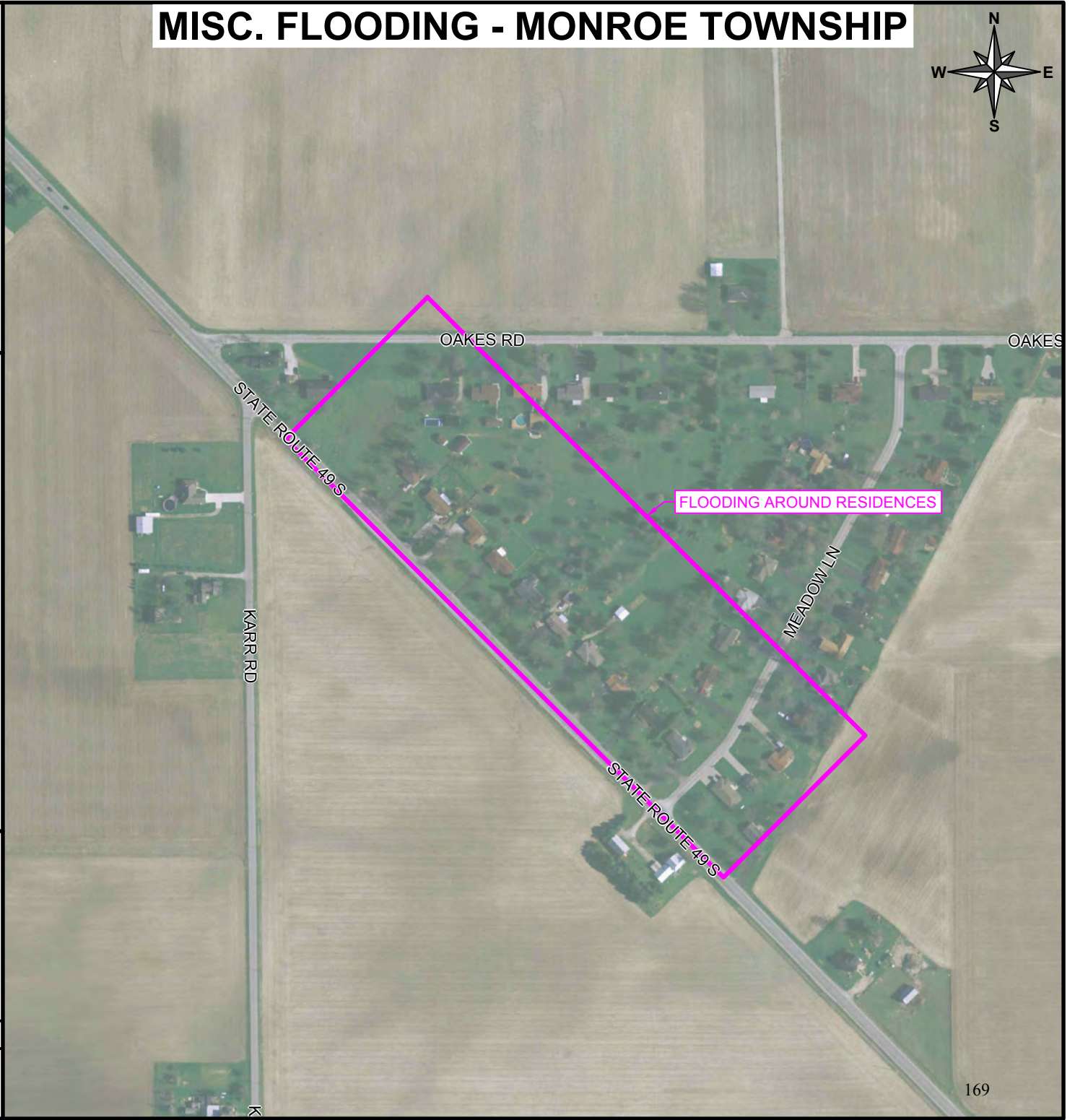
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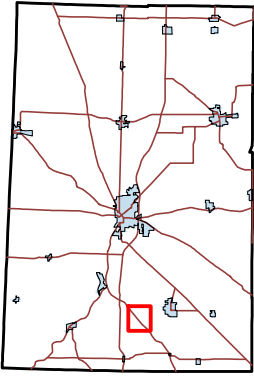


MISC. FLOODING - TWIN TOWNSHIP





VICINITY MAP



NO SCALE

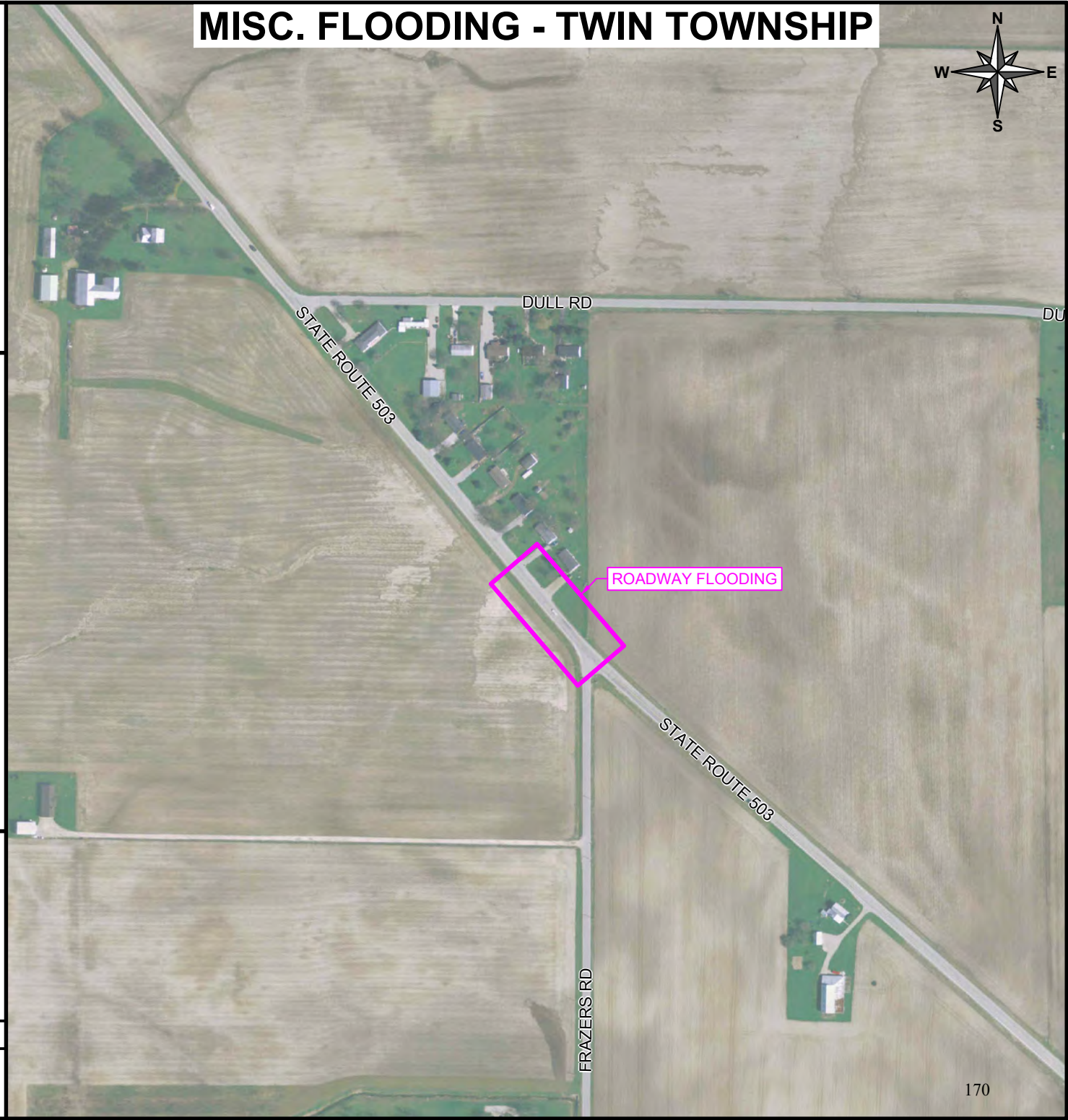


DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

-  APPROXIMATE MISC. FLOODING EXTENTS
-  CITY / VILLAGE CORPORATION LIMITS



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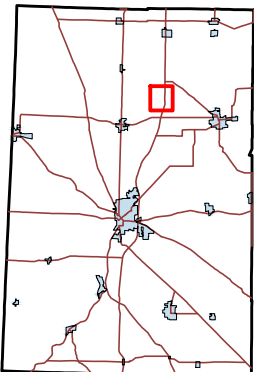
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MISC. FLOODING - YORK TOWNSHIP


VICINITY MAP

NO SCALE



DARKE COUNTY, OH

MAP LEGEND

-  FLOODWAY
-  FLOODPLAIN

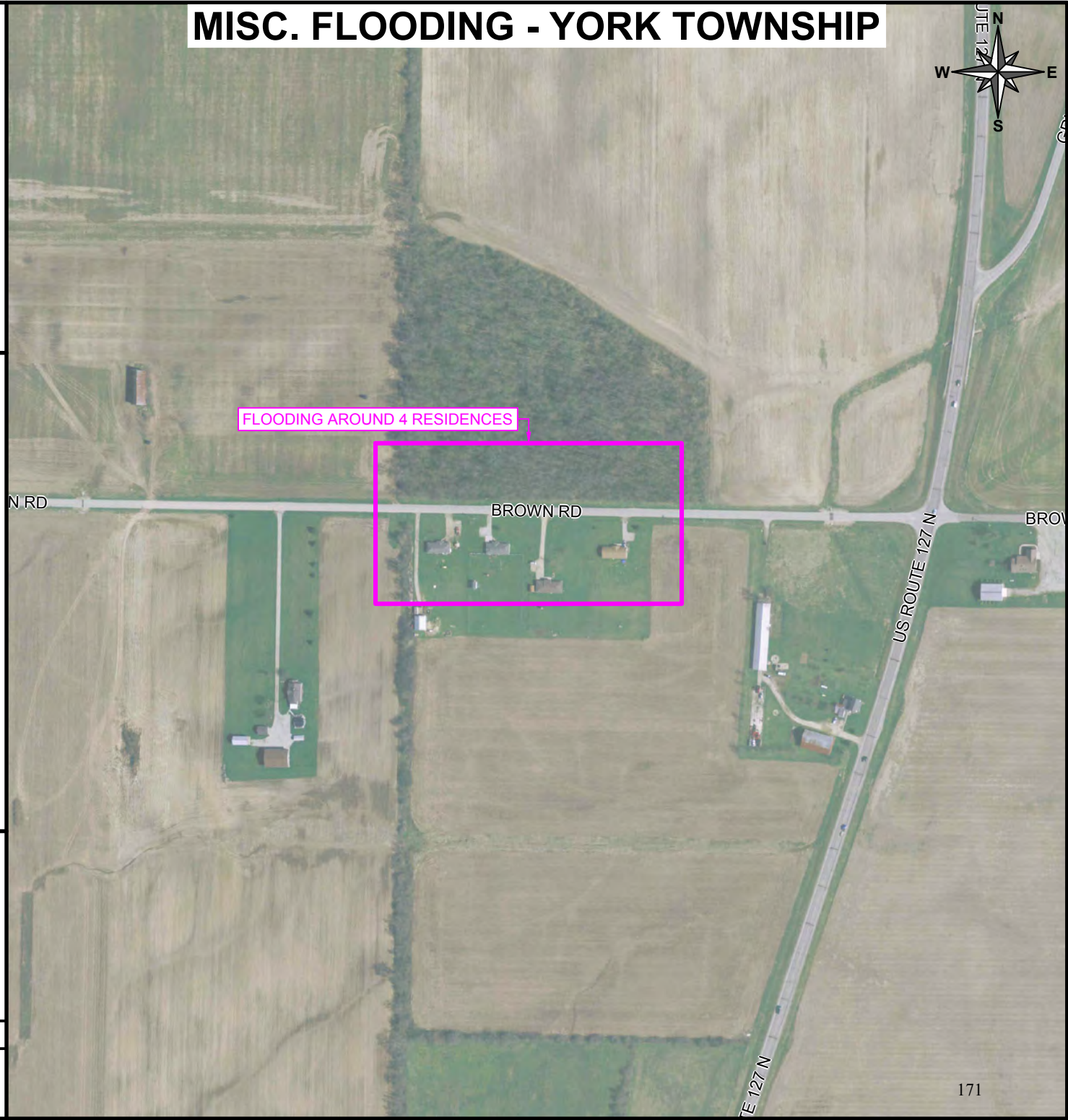
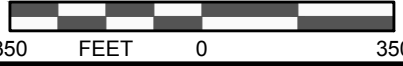
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3.4 Implementation of Priority Action Items

As the history and vulnerability analysis indicates, the potential for loss of life and destruction during hazards events is very real for Darke County.

For hazard events, advance warning and a safe place to be is essential in reducing the number of injuries or loss of life. The continuing of the Darke county Emergency Management's Tornado Drill Safety Programs, NOAA Weather Radio Programs, technological advances with 911 one call local alert systems, cell phones and social media, construction of safe rooms and improved building codes all were determined to be of high priority.

In accordance with the history and vulnerability analysis, flooding of various types continue to create problems for many of the townships, cities, and villages throughout Darke County. Several of these problems are ongoing and need resolve. Many have been identified in other existing county, city, and village planning documents. Since the Darke County Hazards Mitigation Planning Committee has seen the successful completion of many of the high priority items identified in the 2006 and 2012 plans, the Darke County Hazard Mitigation Committee re-evaluated all of the action items in the 2012 plan as well as added new action items to the 2018 plan.

The Darke County Hazards Mitigation Planning Committee used the same criteria for evaluating each set of activities based on grouping by hazard. The ranking criteria is the same method and approach used in the 2012 Plan Process as follows:

Cost Effective	1-5 points	<u>Rating Scale</u>
Technically Feasible	1-5 points	5 – Excellent
Environmentally Sound	1-5 points	4 – Good
Social Impacts	1-5 points	3 – Fair
		2 – Bad
		1 - Unacceptable

**Darke County Natural Hazards Mitigation Action Items
2018 Plan**

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Potential Funding Sources	Plan Goals Addressed							Action Item Addressed	Reference Note*
															Preventative	Property Protection	Emergency Service Measures	Structural Projects	Natural Resource Protection	Public Information			
CW1	1						X	Countywide	Tornadoes	Complete tornado warning siren program for all incorporated Villages. Provide battery backups.	Darke County EMA Village Mayor/Administrator	Ongoing	High	1,2	X		X			X	YES	A	
CW2	2					X		Countywide	Tornadoes	Encourage construction of safe rooms at community parks, large mobile home parks, campgrounds, fairgrounds and for residential properties.	Darke County EMA Local Park Boards Private Park Owners	2 - 5 Years	High	3	X	X					NO	A	
CW3	3						X	Countywide	Tornadoes	Continue yearly tornado drill program at all schools.	Darke County EMA Darke County Schools	Ongoing	High	4			X			X	YES		
CW4	4						X	Countywide	Tornadoes	Continue NOAA Weather Radio program for large industries, residential care homes, day care centers, schools.	Darke County EMA	Ongoing	High	4,5			X			X	YES		
CW5	5	X						Countywide	Tornadoes	Establish NOAA Weather Radio program for festivals, fairgrounds, campgrounds, parks, and recreation areas.	Darke County EMA Festival Coordinators	Completed	-	4,5			X			X	YES		
CW6	6						X	Countywide	Flooding	Identify surface water/county tile drainage obstructions for unincorporated areas of Darke County.	Darke County Engineer Township Trustees	2 Years	Moderate	4	X	X			X		YES		
CW7	7	X						Countywide	Flooding	Investigate and record repetitive flooding areas in City and Villages.	Village Officials / City Engineer	Completed	Low	4,6,7	X	X					YES		
CW8	8						X	Countywide	Flooding	Encourage development of strategies to preserve scenic waterways and open space in and around flood plains. Address tree damage caused by beaver population.	Scenic River Association Darke County Park District	Ongoing	Moderate	4	X	X			X		YES		
CW9	9						X	Countywide	Flooding	Pursue mitigation activities and funding for existing designated flood prone areas.	Darke County EMA Darke County Grants Coordinator Village Officials	2 - 3 Years	Moderate	4,6,7	X	X					YES		
Funding Options:		1. USDA Rural Development 4. Local Funds 7. HMPG Hazard Mitigation Grant Program 10. US EPA Funding 13. CDBG 16. OPWC			2. EMPG Emergency Management Performance Grant 5. NWR Grant Program 8. Red Cross Emergency Preparedness 11. PSIC Funding 14. Clean Ohio Funds			3. Ohio Saferoom Rebate Program / HMA Grant 6. SLR Grant (Severe Repetitive Loss) 9. USDA Funding 12. Homeland Security Grant Funding 15. OWDA															

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CW10	10	X						Countywide	Winter Storms	Increase public awareness of severe winter storms.	Darke County EMA	Ongoing	Moderate	4,8							X	YES		
CW11	11						X	Countywide	Droughts	Provide education opportunities to Darke County farmers on reducing adverse effects of drought.	Darke County Soil and Water Conservation Darke County Extension Office	2 Years	High	4,9	X						X	YES		
CW12	12					X		Countywide	Droughts	Local City and Villages to adopt water conservation measures and standards.	City and Village Water Departments	5 years	Low	10	X						X	NO	B	
CW13	13						X	Countywide	Earthquakes	Provide public awareness and safety procedures during and following an earthquake event.	Darke County EMA Darke County Red Cross Chapter	5 Years	Low	4,8	X	X					X	YES		
CW14	14	X						Countywide	Multi-	Implement recommendations of feasibility study for upgrading countywide safety service communications.	Darke County Fire Association Darke County Rescue Association Darke County Sheriff	Completed	-	4,11	X		X				X	YES		
CW15	15						X	Countywide	Multi-	Identify and pursue funding options and opportunities to develop and implement local and county natural hazard mitigation activities.	City/Village Grant Darke County Grants Coordinator Darke County Economic	Ongoing	Moderate	4,7		X				X	X	YES		
CW16	16						X	Countywide	Multi-	Encourage underground utility placement and tree maintenance programs in public right of ways.	Local Utility Co. Representatives Darke County Maintenance Dept.	5 Years	Low	4	X						X	YES		
CW17	For Future Use																							
CW18	18						X	Countywide	Multi-	Increase communication, coordination and collaboration between community leaders, property owners, local and county building regulations and zoning authorities to address risk and to provide uniformity and consistency in implementing sound mitigation practices.	Local Village Officials Township Zoning & Planning Officials Darke County Natural Hazards Mitigation Planning Committee	Ongoing	Moderate	4	X							X	YES	
CW19					X			Countywide	Multi-	Assess issues with CSX Train increased rail traffic and the potential for blocked crossing. (Areas most affected are the Villages of Ansonia, Union City and Versailles).	Village of Ansonia & Village of Versailles, Administrators	1 Year	High	4	X	X	X			X	X	YES		
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CW20					X			Countywide	Multi-	Develop ways to address law enforcement personnel shortages due to increased demand from opioid epidemic and active shooter events	Darke County Sheriff	2 Years	High	4, 12	X	X							NO	
CW21					X			Countywide	Multi-	Establish One-call to serve county and individual needs for various public information purposes	Village Administrators	2 - 3 Years	Moderate	4, 12	X	X							NO	
CW22					X			Countywide	Flooding	Promote acquisition/demolition of flood prone properties throughout Darke County	Darke County EMA Director City/Village Administrators	1-5 Years	Moderate	4, 6, 7	X	X		X					YES	
GR1	19	X						City of Greenville	Tornadoes	Safe room for Greenville Boys Baseball Park Complex.	Baseball Association Board Chairperson	Completed 2012	-	4	X	X							YES	
GR2	20	X						City of Greenville	Tornadoes	Safe room for Greenville Girls Softball Association.	Softball Association Board Chairperson	Completed 2008	-	4	X	X							YES	
GR3	21					X		City of Greenville	Tornadoes	Safe room for Olwine's Mobile Home Park.	Mobile Home Park Owner	5 Years	High	3, 4	X	X							NO	A
GR4	22	X						City of Greenville	Flooding	Analyze and establish floodproofing measures to protect Greenville Wastewater Treatment Plant.	City Planner	2 - 3 Years	Moderate	4, 6, 7	X	X		X	X				NO	A
GR5	23						X	City of Greenville	Flooding	Pursue funding for purchases of flood plain property/residences along Greenville Creek with Greenville corporation limits for park and open space area (ref: land west of North Broadway at Spring Street, west side of Greenville Creek, Fourth Street to River Street).	City Planner City Park Board Darke County Park Board	2 - 3 Years	Moderate	4, 6, 7	X	X			X	X			NO	A
GR6	85	X						City of Greenville	Flooding	Remove Winchester Avenue residence from flood plain - property acquisition	Darke County Park District	Completed	-	4	X			X	X				YES	
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GR7		New - Under Construction						City of Greenville	Flooding	Construct recreational trail to preserve flood plain green space.	Darke County Park District City Planner	2 - 3 Years	Moderate	4	X	X				X		YES																	
GR8					X			City of Greenville	Flooding	Replace back flow preventors to eliminate flooding within Greenville City Park.	City Planner City Park Board	2-4 Years	Moderate	4	X	X					NO																		
AN1	24	X						Village of Ansonia	Flooding	Provide floodproofing of Village sanitary lift station along Stillwater River.	Village Administrator	Completed 2012	-	4	X				X		NO	C																	
AN2	77					X		Village of Ansonia	Flooding	Place check valves on Storm Sewer outlets to Stillwater Creek	Village Administrator	3-5 Years	Moderate	4, 10	X	X					NO	A																	
AN3					X			Village of Ansonia	Flooding	Clean out of the Stillwater River that runs through town to create better flow for high water.	Village Administrator	3-5 Years	Moderate	4	X	X					NO																		
AR1	25	X						Village of Arcanum	Flooding	Assess and map problem drainage areas.	Village Administrator	Completed 2013	-	4	X						YES																		
AR2	26	X						Village of Arcanum	Flooding	Complete EPA storm/sanitary separation system.	Village Administrator	Completed	-	4, 10	X				X		YES																		
AR3		New - Under Construction						Village of Arcanum	Flooding	Complete EPA wastewater system	Village Administrator	1 Year	Moderate	1, 4, 10	X				X		YES																		
AR4					X			Village of Arcanum	Flooding	Reduce effects of flash flooding of Harvest Field Subdivision and various Village streets.	Village Administrator	2-4 Years	Moderate	4, 13	X	X					NO																		
BR1	27	X						Village of Bradford	Tornadoes	Install tornado warning siren.	Darke County EMA Village Administrator	Completed	-	1, 2, 12			X			X	YES																		
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															Preventative	Property Protection	Emergency Service Measures	Structural Projects	Natural Resource Protection	Public Information				
BU1	28	X						Village of Burkettsville	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed	-	1, 2, 12, 14			X				X	YES		
CA1	29					X		Village of Castine	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Ongoing	High	1, 2, 12, 14			X					X	NO	A
CA2	30	X						Village of Castine	Flooding	Main Street storm sewer and catch basin project.	Darke County EMA Village Mayor	Completed 2014	-	4	X		X						NO	A
CA3					X			Village of Castine	Flooding	Address flooding issues from the creek. The flooding is getting close to houses.	Darke County EMA Village Mayor	2-4 Years	Moderate	4, 7	X	X							NO	
GE1	31					X		Village of Gettysburg	Flooding	Assess storm drainage problems.	Village Administrator	3 Years	Moderate	4, 13	X								YES	A
GO1	32					X		Village of Gordon	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Ongoing	High	1, 2, 12			X					X	NO	A
HO1	33	X						Village of Hollansburg	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed	-	1, 2, 12			X					X	NO	A
IT1	34	X						Village of Ithaca	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed	-	1, 2, 12			X					X	YES	
NM1	35	X						Village of New Madison	Flooding	Assess storm drainage problems north and east on S.R. 121 and Rush Road, West Washington Street.	Village Mayor	Completed	-	4	X								YES	
NW1	36					X		Village of New Weston	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	1, 2, 12			X					X	NO	A
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NS1	37	X						Village of North Star	Flooding	Assess drainage problems at Fire Dept. located along drainage ditch.	Village Mayor	Completed - New Fire Dept. Constructed approx. 2013 in new location.			X							YES										
NS2					X			Village of North Star	Flooding	Flooding at the North end along US Rt. 127 south of Davis Camper Sales. Tile to the creek drains this area but serious debris has built up in the creek and the tile outlet is now way below the water level. The creek needs dredged and sludge removed to eliminate water problem in the north end of the Village.	Village Mayor	2-4 Years	Moderate	4, 6, 7	X	X							NO									
OS1	38					X		Village of Osgood	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	1, 2, 12			X				X	NO	A									
PA1	39					X		Village of Palestine	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	1, 2, 12			X				X	NO	A									
PI1	40					X		Village of Pittsburg	Tornadoes	Install tornado warning siren. The Village has an old fire siren.	Darke County EMA Village Mayor	2 Years	High	1, 2, 12			X				X	NO	A									
PI2	41	X						Village of Pittsburg	Flooding	Assess field flooding of Merrie Lane.	Village Mayor	Completed	Moderate	4	X							YES										
PI3	42					X		Village of Pittsburg	Tornadoes	Safe Room at Community Park	Village Mayor	2 Years	Moderate	3, 4	X	X						NO	A									
PI4					X			Village of Pittsburg	Flooding	Reduce impact of flooding of various streets and at the Village Park. Merrie Lane flooding issues with flood water going into garages.	Village Mayor	2-4 Years	Moderate	4, 13, 15, 16	X	X						NO										
RO1	For Future Use																															
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UC1	44					X		Village of Union City	Flooding	Assess flooding past Market Street, middle of 200 block to past 300 block from State Line to alley east of Old Market.	Union City Mayor	2 Years	Moderate	4, 13, 15, 16	X	X							NO	
VE1	45	X						Village of Versailles	Flooding	Complete plans and pursue funding for new water treatment plant.	Village Administrator	Completed	-	4	X	X				X			YES	
VE2	78	X						Village of Versailles	Flooding	Swamp Creek channel modification project	FEMA/Army Corps/Village Administrator	Completed	-	4	X	X							YES	
VE3	79	X						Village of Versailles	Flooding	Property Acquisition	FEMA/Village Administrator	Completed	-	4, 7	X	X							YES	
VE4	80						X	Village of Versailles	Flooding	Swamp Creek maintenance	Village Administrator	Ongoing	High	4	X	X				X			YES	
VE5	81	X						Village of Versailles	Flooding	Update Flood Maps and Flood Damages	FEMA/ODNR/Village Administrator	Completed	-	4	X	X					X		YES	
VE6	82	X						Village of Versailles	Tornados	Install tornado Warning Siren	Darke County EMA/Village Administrator	Completed	-	1, 2, 12	X	X					X		YES	
VE7	83	X						Village of Versailles	Tornados	Implement One-Call Messaging system	Village Administrator	Completed	-	4, 7	X		X				X		YES	
VE8	84	X						Village of Versailles	Flooding	Construct new Water Plant outside of Flood Zone Area	OEPA/Village Administrator	Completed	-	4	X	X		X					YES	
WL1	46	X						Village of Wayne Lakes	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	Completed 2012	-	1, 2, 12			X				X		NO	C
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WL2					X			Village of Wayne Lakes	Flooding	Flooding at the end of Cucumber Lane into ESS Lake. Poorly constructed drainage tile under street needs replaced	Village Mayor	2-4 Years	Moderate	4	X	X					NO	
YO1	47					X		Village of Yorkshire	Tornadoes	Install tornado warning siren.	Darke County EMA Village Mayor	1-3 Years	High	1, 2, 12			X			X	NO	A
AD Twp1	48	X						Adams Township	Flooding	Evaluate flood mitigation activities for flooding of wellfield for Village of Gettysburg.	Adams Township Trustees	Completed	-	1, 4, 9, 13, 16	X	X			X		YES	
AD Twp2	48A						X	Adams Township	Flooding	Flooding around residence - Horatio-Harris Creek Road - West of 721	Adams Township Trustees	3 Years	Moderate	4, 6, 7, 13, 16		X		X			YES	
AD Twp3	49						X	Adams Township	Flooding	Protection of Scenic River Corridor.	Scenic River Committee	5 Years	Low	4, 14				X			YES	
AL Twp1	50						X	Allen Township	Flooding	Ongoing maintenance of the Wabash Conservancy Lake and Dam.	Wabash Conservancy District Board	Ongoing	Low	4, 14	X	X		X	X		YES	
BR Twp1	51					X		Brown Township	Flooding	Develop flood mitigation activities to relieve flooding of Duvall Road and Ansonia-Elroy Road east of Beam Road.	Brown Township Trustees Darke County Trustees	3 Years	Moderate	4, 7, 13, 16	X	X			X		NO	A
BR Twp2	52						X	Brown Township	Flooding	Protection of Scenic River Corridor.	Scenic River Committee	5 Years	Low	4, 14	X	X					YES	
BR Twp3					X			Brown Township	Flooding	Reduce impact of flooding at Ansonia Elroy Rd. between Beam Rd. and St. Rt. 118, Duvall Rd., Wood Rd., and White Coppess Rd. between St. Rt. 118 and Duncan Rd.	Brown Township Trustees Darke County Trustees	2-4 Years	Moderate	1, 4, 9, 13, 15, 16	X	X			X		NO	
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BU Twp1	53	X						Butler Township	Flooding	Develop mitigation plan to eliminate flooding of Railroad Street residence in hamlet of Savona.	Butler Township Trustees Darke County Engineer	Completed	-	4	X	X						YES										
BU Twp2	53A						X	Butler Township	Flooding	Eliminate crawl space flooding multiple residences - Hollansburg-Sampson Road, Section 31	Butler Township Trustees Darke County Engineer	2 Years	High	4	X	X						NO										
BU Twp3					X			Butler Township	Flooding	Identify areas of repetitive County road flooding.	Butler Township Trustees Darke County Engineer	2-4 Years	Moderate	4, 7, 13, 16	X	X						NO										
FR Twp1	54					X		Franklin Township	Flooding	Identify and analyze repetitive flood properties in Franklin Township.	Franklin Township Trustees Darke County Engineer	4 Years	Moderate	4, 7, 13, 16	X	X						NO										
GR Twp1	55	X						Greenville Township	Tornadoes	Safe room for Greenville Girls Softball Recreation Complex.	Darke County EMA	Completed	-	3	X							YES										
GR Twp2	56					X		Greenville Township	Flooding	Evaluate and develop flood mitigation plan for flooding of properties and roadways at Folkerth at Culberson Road.	Greenville Township Trustees Darke County Engineer	3 - 5 Years	Moderate	4, 7, 13, 16	X	X			X			NO	A									
GR Twp3	57					X		Greenville Township	Flooding	Evaluate and develop flood mitigation plan for flooding of properties and roadways at Jaysville-St. John & Kruckenber Road (Menke Ditch).	Greenville Township Trustees Darke County Engineer	2 - 4 Years	Moderate	4, 7, 13, 16	X	X			X			NO	A									
GR Twp4	58					X		Greenville Township	Flooding	Evaluate and develop flood mitigation plan for flooding of properties and roadways at Requarth Rd. between Westfall and Stahl Roads.	Greenville Township Trustees Darke County Engineer	5 Years	Low	4, 7, 13, 16	X	X			X			NO	A									
GR Twp5	59					X		Greenville Township	Flooding	Evaluate and develop flood mitigation plan for flooding of properties and roadways at Hunter Road between S.R. 118 and S.R. 127.	Greenville Township Trustees Darke County Engineer	5 Years	Low	4, 7, 13, 16	X	X			X			NO	A									
Funding Options: 1. USDA Rural Development 4. Local Funds 7. HMPG Hazard Mitigation Grant Program 10. US EPA Funding 13. CDBG 16. OPWC 2. EMPG Emergency Management Performance Grant 5. NWR Grant Program 8. Red Cross Emergency Preparedness 11. PSIC Funding 14. Clean Ohio Funds 3. Ohio Saferoom Rebate Program / HMA Grant 6. SLR Grant (Severe Repetitive Loss) 9. USDA Funding 12. Homeland Security Grant Funding 15. OWDA																																

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**Darke County Natural Hazards Mitigation Action Items
2018 Plan**

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Potential Funding Sources	Plan Goals Addressed							Action Item Addressed	Reference Note*
															Preventative	Property Protection	Emergency Service Measures	Structural Projects	Natural Resource Protection	Public Information			
GR Twp6	60	X						Greenville Township	Flooding	Evaluate and develop flood mitigation plan for flooding of properties and roadways at White Springs and Seiler Road.	Greenville Township Trustees Darke County Engineer	Completed	-	4, 7	X	X			X		YES		
GR Twp7	61				X			Greenville Township	Flooding	Evaluate and develop flood mitigation plan for protection of Greenville Creek Corridor.	Greenville Township Trustees Darke County Engineer	Ongoing	Moderate	4, 7, 14	X	X				X		YES	
GR Twp8					X			Greenville Township	Flooding	Develop bike trail along Greenville Creek Corridor.	Greenville Township Trustees Darke County Engineer	Ongoing	Moderate	4, 7, 14	X	X				X		YES	D
HA Twp1	62					X		Harrison Township	Flooding	Flood mitigation activity to relieve flooding at 3 mobile homes on Braffetsville North Road where east fork of the Whitewater River intersects the road.	Harrison Township Trustees/Darke County Engineer	3 Years	Moderate	4, 7, 13, 16	X	X						NO	
HA Twp2					X			Harrison Township	Flooding	Mitigate flash flooding of property along Billman Road, Section 25, 26.	Harrison Township Trustees	2 Years	High	4, 7, 13, 16	X	X						YES	
JA Twp1	63					X		Jackson Township	Flooding	Identify tile and surface water drainage obstructions.	Jackson Township Trustees Darke County Engineer	4 Years	Low	4, 7, 13, 16	X	X						NO	
LI Twp1	64					X		Liberty Township	Flooding	Identify tile and surface water drainage obstructions.	Liberty Township Trustees Darke County Engineer	4 Years	Low	4, 7, 13, 16	X	X						NO	
MI Twp1	65					X		Mississinawa Township	Flooding	Evaluate & identify cause of flooding on Lawrence Road from State Line Road to Ft. Recovery Road.	Mississinawa Township Trustees Darke County Engineer	2 - 4 Years	Moderate	4, 7, 13, 16	X	X						NO	A
MI Twp2	65A						X	Mississinawa Township	Flooding	Evaluate & identify cause of Peters Road flooding - east of state line	Mississinawa Township Trustees Darke County Engineer	2 - 4 Years	Moderate	4, 7, 13, 16		X		X				YES	
MO Twp1	66	X						Monroe Township	Flooding	Flooding around residences - State Route 49 south of Oaks Road	Monroe Township Trustees Darke County Engineer	Completed 2013	-	4		X		X				NO	A
Funding Options:		1. USDA Rural Development 4. Local Funds 7. HMPG Hazard Mitigation Grant Program 10. US EPA Funding 13. CDBG 16. OPWC 2. EMPG Emergency Management Performance Grant 5. NWR Grant Program 8. Red Cross Emergency Preparedness 11. PSIC Funding 14. Clean Ohio Funds 3. Ohio Saferoom Rebate Program / HMA Grant 6. SLR Grant (Severe Repetitive Loss) 9. USDA Funding 12. Homeland Security Grant Funding 15. OWDA																					

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**Darke County Natural Hazards Mitigation Action Items
2018 Plan**

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Potential Funding Sources	Preventative	Property Protection	Emergency Service Measures	Structural Projects	Natural Resource Protection	Public Information	Action Item Addressed	Reference Note*	Plan Goals Addressed																
NE Twp1	67					X		Neave Township	Flooding	Identify surface water and drainage tile obstructions.	Neave Township Trustees Darke County Engineer	5 Years	Moderate	4, 7	X	X			X		NO	A																	
PA Twp1	68					X		Patterson Township	Flooding	Identify surface water and drainage tile obstructions.	Patterson Township Trustees/Darke County Engineer	5 Years	Low	4, 7	X	X					NO	A																	
RI Twp1	69	X						Richland Township	Flooding	Reserve Scenic River Corridor along Stillwater River.	Richland Township Trustees/Darke County Engineer	Completed	-	4	X	X			X		YES																		
TW Twp1	70	X						Twin Township	Flooding	Flooding Frazier Road; Flooding around residences Arcanum-Ithaca Road and Dull Road	Twin Township Trustees Darke County Engineer	Completed	-	4	X	X					YES																		
VB Twp1	71	X						Van Buren Township	Flooding	Identify surface water and drainage tile obstructions.	Van Buren Township Trustees/Darke County Engineer	Completed	-	4	X	X					YES																		
VB Twp2					X			Van Buren Township	Flooding	Frequent flooding due to larger county tiles are older and need replaced.	Van Buren Township Trustees/Darke County Engineer	2-4 Years	Moderate	4, 7	X	X			X		NO																		
WA Twp1	72	X						Wabash Township	Flooding	Continued maintenance on Wabash Conservancy Lake and Dam.	Wabash Conservancy District Board	Completed	-	4	X	X		X	X		YES																		
WS Twp1	73	X						Washington Township	Flooding	Identify surface water and drainage tile obstructions.	Washington Township Trustees/Darke County Engineer	Completed	-	4	X	X					YES																		
WY Twp1	74					X		Wayne Township	Flooding	Remove structures within the 100 year Swamp Creek flood plain.	Wayne Township Trustees	3 Years	Moderate	4, 7	X	X			X		NO	A																	
Funding Options: <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">1. USDA Rural Development</td> <td style="width: 33%;">2. EMPG Emergency Management Performance Grant</td> <td style="width: 33%;">3. Ohio Saferoom Rebate Program / HMA Grant</td> </tr> <tr> <td>4. Local Funds</td> <td>5. NWR Grant Program</td> <td>6. SLR Grant (Severe Repetitive Loss)</td> </tr> <tr> <td>7. HMPG Hazard Mitigation Grant Program</td> <td>8. Red Cross Emergency Preparedness</td> <td>9. USDA Funding</td> </tr> <tr> <td>10. US EPA Funding</td> <td>11. PSIC Funding</td> <td>12. Homeland Security Grant Funding</td> </tr> <tr> <td>13. CDBG</td> <td>14. Clean Ohio Funds</td> <td>15. OWDA</td> </tr> <tr> <td>16. OPWC</td> <td></td> <td></td> </tr> </table>																						1. USDA Rural Development	2. EMPG Emergency Management Performance Grant	3. Ohio Saferoom Rebate Program / HMA Grant	4. Local Funds	5. NWR Grant Program	6. SLR Grant (Severe Repetitive Loss)	7. HMPG Hazard Mitigation Grant Program	8. Red Cross Emergency Preparedness	9. USDA Funding	10. US EPA Funding	11. PSIC Funding	12. Homeland Security Grant Funding	13. CDBG	14. Clean Ohio Funds	15. OWDA	16. OPWC		
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**Darke County Natural Hazards Mitigation Action Items
2018 Plan**

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Potential Funding Sources	Preventative	Property Protection	Emergency Service Measures	Structural Projects	Natural Resource Protection	Public Information	Action Item Addressed	Reference Note*	
							X	Wayne Township	Flooding	Continued maintenance of Scenic River Corridor.	Wayne Township Trustees	5 Years	Low	4, 7	X	X			X			YES	
					X			Wayne Township	Flooding	Swamp Creek goes out of its banks after heavy rains and affects Long Road, Murphy Road and Pitsenbarger Road	Wayne Township Trustees	3-5 Years	Moderate	4, 7	X	X						NO	
						X		York Township	Flooding	Identify surface water and drainage tile obstructions.	York Township Trustees Darke County Engineer	5 Years	Low	4, 7	X	X			X			NO	A
ELD 1	28A	X			X			Eldora Speedway	Tornadoes	Install tornado warning siren	Owner of Track	Completed 2013	-	4	X		X					YES	

Funding Options:	1. USDA Rural Development 4. Local Funds 7. HMPG Hazard Mitigation Grant Program 10. US EPA Funding 13. CDBG 16. OPWC	2. EMPG Emergency Management Performance Grant 5. NWR Grant Program 8. Red Cross Emergency Preparedness 11. PSIC Funding 14. Clean Ohio Funds	3. Ohio Saferoom Rebate Program / HMA Grant 6. SLR Grant (Severe Repetitive Loss) 9. USDA Funding 12. Homeland Security Grant Funding 15. OWDA
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**Darke County Natural Hazards Mitigation Action Items
2018 Plan**

**Amendment to Current Action Item List
as of March 15, 2019**

Action Item # (New)	Previous Action Item #	Completed	Deferred	Deleted	New	No Change	Ongoing	City Village Township	Natural Hazard	Action Item	Coordinating Organization	Timeline	Priority Level	Potential Funding Sources	Preventative	Property Protection	Emergency Service Measures	Structural Projects	Natural Resource Protection	Public Information	Action Item Addressed	Reference Note*
															Plan Goals Addressed							
AR5					X			Village of Arcanum	Flooding	Address flooding issues being caused by poor drainage with existing feed drains to the creek and the west retention pond not being unrestricted on W. South St., W. North St., Harvest Field Way and S. Main Street.	Village Administrator	2-4 Years	Moderate	4, 13	X	X						YES
Funding Options:		1. USDA Rural Development 4. Local Funds 7. HMPG Hazard Mitigation Grant Program 10. US EPA Funding 13. CDBG 16. OPWC			2. EMPG Emergency Management Performance Grant 5. NWR Grant Program 8. Red Cross Emergency Preparedness 11. PSIC Funding 14. Clean Ohio Funds			3. Ohio Saferoom Rebate Program / HMA Grant 6. SLR Grant (Severe Repetitive Loss) 9. USDA Funding 12. Homeland Security Grant Funding 15. OWDA														

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3.5 Priority Action Items

The selected project activities are intended to successfully eliminate the problem and meet the goals the Committee has outlined.

The proposed activities receiving the highest rating by the Committee for each group were as follows:

Reference Activity #CA1, CW1, GO1, NW1, OS1, PA1, and PI1

- Goal #1: Reduce risk and loss of life by implementing activities to give Darke County citizens as much advance warning as possible of impending tornadoes.
- Activity: Provide tornado warning sirens or additional warning sirens for the following communities:
- Village of Castine (initial warning siren)
 - Village of Gordon (initial warning siren)
 - Village of New Weston (initial warning siren)
 - Village of Osgood
 - Village of Palestine
 - Village of Yorkshire
- Lead Person: Darke County EMA Director
Village Mayor or Administrator
- Time Line: 5 Years (ongoing)
- Task 1: Determine size, number and locations needed
- Task 2: Determine and secure method of funding source
- Task 3: Secure village participation
- Task 4: Determine power source

Referenced Activity #CW2 & GR3

- Goal #2: Reduce risk and loss of life by implementing activities to give Darke County and its citizens as much advance warning as possible of impending natural hazards.
- Activity: Implement construction of safe rooms for the following city and village parks, and mobile home facilities:
- Mobile home parks
 - Community parks and similar outdoor facilities
- Lead Person: Darke County EMA Director (Mobile Home Parks)
Park Board Chairperson (Community Parks)

Time Line: Start Date: June 2019
 Completion Date: June 2024

- Task 1: Identify structure needs
- Task 2: Establish damage and frequency relationship for tornadoes
- Task 3: Perform a cost/benefit analysis
- Task 4: Identify funding sources
- Task 5: Design and construct structure

Reference Activity #CW3

Goal #3: Continue to promote public awareness of the risks associated with natural hazards.

Activity: Continue and maintain yearly tornado drills at schools

Lead Person: Darke County EMA Director

Time Line: Ongoing (Yearly)

- Task 1: Determine schedule
- Task 2: Provide information to schools
- Task 3: Implement training

Referenced Activity #CW4

Goal #4: Reduce risk and loss of life by implementing activities to give Darke County and its citizens as much advance warning as possible of impending natural hazards.

Activity: Continue NOAA Weather Radio Program for large industries, residential care facilities, day care centers, schools, outdoor events, and community pools

Lead Person: Darke County EMA Director

Time Line: Ongoing (Yearly)

- Task 1: Identify users
- Task 2: Secure funding
- Task 3: Place monitor in service

Referenced Activity #CW11

Goal #5: Provide education opportunities to Darke County Agricultural Community on reducing adverse effects of drought.

Activity: Hold informative session that aligns with the National Integrated Drought Information System (NIDIS) strategic plan to create local partnership with the National Drought Early Warning System (DEWS)

Lead Persons: Darke County Extension Agent

Time Line: Start Date: March 2019
Completion Date: March 2021

Task 1: Set agenda and location event date

Task 2: Identify participants to invite

Task 3: Hold informative workshops and educational opportunities

Task 4: Provide follow-up report of successes

Task 5: Develop strategy and protocol to improve communication and notifications

Referenced Activity #CW19

Goal #6: Address safety concerns due to increased rail traffic and increased length of trains along CSX Railroad through Northern Darke County including the Villages of Ansonia, Union City and Versailles

Activity: Create steering committee to evaluate ways to address safety concerns associated with the recent increase in railway usage and blocked crossings

Lead Persons: Co-Chairpersons – Village of Ansonia, Village of Versailles, and Village of Union City, Village Administrators

Time Line: Start Date: March 2019
Completion Date: March 2020

Task 1: Establish railway safety committee

Task 2: Hold public meetings – invite stakeholders including CSX officials

- Task 3: Identify safety concerns
- Task 4: Issue report of findings
- Task 5: Implement corrective actions

Referenced Activity #CW20

Goal #7: Provide for public safety during well attended community events and festivals

Activity: Develop ways to address law enforcement personnel shortages due to increased demand from opioid epidemic and active shooter events

Lead Persons: Darke County Sheriff

Time Line: Start Date: May 2019
 Completion Date: May 2021

- Task 1: Establish task force committee
- Task 2: Establish meeting date, times and locations
- Task 3: Prepare agenda
- Task 4: Invite stakeholders
- Task 5: Problem solve
- Task 6: Develop strategy and protocol to address law enforcement manpower shortage

Referenced Activity #VE4

Goal #8: To develop practices and implement activities to protect lives and reduce damages to homes, businesses, industries and agricultural areas of Darke County.

Activity: Provide continuing creek maintenance within the Village of Versailles along Swamp Creek

Lead Person: Village Administrator

Time Line: Start Date: March 2019
 Completion Date: March 2024

- Task 1: Appropriate Village funding
- Task 2: Schedule ongoing maintenance

Task 3: Implement maintenance process with Village personnel

Referenced Activity #BU Twp2

Goal #9: Continue to rehabilitate, protect, and enhance the natural systems already in place in order to preserve the rich historical and agricultural environment found in Darke County.

Activity: Mitigate various flash flooding issues in Darke County
 • Multiple residences flooding on Hollansburg-Sampson Road

Lead Person: Darke County EMA Director

Time Line: Start Date: April 2019
 Completion Date: April 2021

Task 1: Create flooding task force committee

Task 2: Hold public meetings and seek public input

Task 3: Complete engineering/environmental study and make recommendations.

Task 4: Determine possible funding sources

Task 5: Prioritize project activities

Task 6: Establish construction timeline

Referenced Activity #HA Twp2

Goal #10: Mitigate flash flooding of property along Billman Road in Harrison Township, Section 25, 26.

Activity: Investigate and correct flooding issues of residence due to drainage ditch being overgrown and causing water backup along Billman Road.

Lead Person: Harrison Township Trustee

Time Line: Start Date: March 2019
 Completion Date: March 2021

Task 1: Identify issue for appropriate ditch maintenance crew

Task 2: Secure approvals for participating owners

Task 3: Provide ditch maintenance

Plan Maintenance Process

- 4.1 Overview
- 4.2 Monitoring The Plan
- 4.3 Evaluating The Plan
- 4.4 Updating The Plan
- 4.5 Incorporating Darke County's Plan Into Existing Planning Mechanisms
- 4.6 Continued Public Involvement

4.1 Overview

This Multi-Jurisdictional County Hazard Mitigation Plan is a prerequisite for receipt of Hazard Mitigation Assistance Grant Project Funds under the Disaster Mitigation Act of 2000 (DMA 2000). FEMA has established mitigation planning requirements for local jurisdictions to meet. Each plan must demonstrate that the proposed mitigation actions are the result of a thorough planning process that describes the inherent risk and the capabilities of Darke County and its communities. All incorporated municipalities participated in the current planning process and all municipalities adopted the previously approved 2012 Darke County Hazard Mitigation Plan.

It is anticipated over time through good planning efforts and coordination between State and County Emergency Management Agencies and communities that all mitigation plans will become more enhanced and refined. It is the intention of the Darke County Hazard Mitigation Planning Committee to support pre-disaster planning and project activities that can help reduce risk and mitigate future disaster costs for Darke County.

4.2 Monitoring The Plan

The Darke County Emergency Management (EMA) under the direction of the Darke County Board of Commissioners shall monitor the Plan. The Darke County EMA shall at the end of each year collect and update reports from each coordinating organization indicating the status and progress on each action item or activities that occurred during the preceding year.

The Darke County EMA shall obtain information on each project activity as to whether the activity is completed, deleted, ongoing, unchanged, deferred or new. If the activity is deleted or unchanged, the County EMA should report the reasoning as to why the action item was deleted or unchanged. The Darke County EMA shall also request consideration for new activities. This information will be requested from the coordinating organizations at the beginning of each year so that the Darke County EMA can prepare a report to be provided to the Darke County Hazard Mitigation Committee (DCHMC) and distributed to DCHMC members along with the yearly meeting agenda at the annual Hazard Mitigation Committee meeting to be held in February of each year.

The Darke County Hazard Mitigation Committee shall then utilize the report to assist in evaluating the Plan each year.

Table 4.2A

Plan Monitoring Schedule		
Timeline	Action	Responsible Party
December 31st	Year's activity reporting, cycle ends	Coordinating organizations Lead person
January 15th	Coordinating organizations' status reports due to Darke County EMA	Coordinating organizations Lead person
February 1st	Darke County EMA yearly reports due to Chairman of Darke County Hazard Mitigation Committee (DCHMC)	Darke County EMA Director
February 15th	Chairman of DCHMC distributes agenda and reports to DCHMC and stakeholders	Chairperson of DCHMC
Last week of February	DCHMC holds annual mitigation meeting	DCHMC (Full committee)
March 15th	Minutes of annual meeting distributed to DCHMC members and stakeholders	Chairperson and Secretary of DCHMC
April 15th	Plan amendments/updates shall be added to Plan	Darke County EMA Director

4.3 Evaluating The Plan

The Darke County Hazard Mitigation Committee (DCHMC) will be the lead organization to evaluate the Plan. The DCHMC will meet yearly at an annual public meeting to evaluate the mitigation strategies of the Plan. The yearly meeting shall be scheduled in February of each year by the Chairperson of the DCHMC prior to the meeting. The Darke County Emergency Management Agency shall prepare a yearly progress report indicating the status for all the mitigation activities outlined in the Plan. The meeting shall be open to the public with all DCHMC members invited. An agenda shall be prepared and the meeting shall include the following:

- Review of past years mitigation activities.
- Evaluating if past years conditions warrant any changes to the Plan.
- Determination if any action items need added, deleted, deferred or if actions are ongoing or completed.
- Consideration if other stakeholders or organizations need to be invited to be represented on the committee.
- Review of project funding sources.

Minutes of the meeting shall be prepared and distributed to all DCHMC members and stakeholders. Special meetings of the Darke County Hazard Mitigation Committee may be held any time throughout the year as conditions warrant and when requested by the Chairperson of the Darke County Hazard Mitigation Committee.

4.4 Updating The Plan

The Darke County Board of Commissioners shall be the responsible party for updating the Darke County Hazard Mitigation Plan. It shall be updated by addendum on an annual basis. The schedule for monitoring, evaluating, and updating the Plan is shown in Table 4.2A under Section 4.2 of this Plan.

The Plan updates will include a summary of changes including:

- Status of mitigation/activity items.
- Changes in prioritization of mitigation activity items.
- New mitigation activities/items to be added and the priority of the activities/items.
- The Plan updates shall identify the new, completed, deleted, ongoing, deferred or unchanged action items from the prior year's activities; and, if not according to the benchmark schedule, a description of why activities have been deleted or changed.
- One year prior to the expiration of the 5-year FEMA plan approval date, the Darke County Hazard Mitigation Plan shall be reevaluated and reviewed per the 5-year Planning Update Process required by law.

4.5 Incorporating Darke County's Plan Into Existing Planning Mechanisms

Summary

Darke County has one city, 20 incorporated villages, and 20 township governments that are located within the boundary of the County (two villages are partially located in Darke County - Burkettsville is partially located in Mercer County and Bradford is partially in Miami County; and one village, Union City is located in Ohio and in Indiana). The population of the 20 villages range from under 100 residents in Yorkshire to over 2,600 in Versailles. With such a large number of public entities located in a rural county, 100% participation of all public entities incorporating the mitigation goals and objectives into their planning mechanisms can be a difficult task.

Since writing the initial 2006 FEMA approved Plan, the Darke County Board of Commissioners have set up a countywide certified Building Department to issue building permits for both residential and commercial building improvements. All 20 of the townships and most all municipalities participate in this effort (commercial exceptions: Gordon, Hollansburg and Palestine; residential exceptions: Burkettsville, Gordon, Hollansburg, North Star, Osgood, Palestine and Rossburg).

In addition, the County Zoning Inspector and Floodplain Coordinator oversee zoning for 12 townships. Two townships have their own zoning inspector and six rural townships are not zoned. All of the larger villages have local zoning and good land use practices. The Darke County Building Department requires copies of proper zoning certification prior to issuing any permits. All local and township zoning documents prohibit residential and commercial construction within designated flood zones. All of the communities that participate in the National Flood Insurance Program have completed or are in the process of updating their floodplain ordinances.

The City of Greenville and the Village of Versailles also have Comprehensive Plans which address future land use. In addition to the City of Greenville and the Village of Versailles, the county's largest municipalities have Five-Year Capital Improvements Plans which include future funding for mitigation activities. The City of Greenville also has a Stormwater Management Program in force. Almost all of the County EMS and Fire Departments have mutual aid agreements with other EMS and Fire Departments. The County Emergency Management also has an Emergency Operations Plan which addresses evacuation situations and partnerships with the Darke County Solid Waste for debris removal and temporary animal relocation programs.

Other programs that incorporate county mitigation programs and address preservation of green space along river corridors also include Darke County Parks and their recreation, green space and trails programs with land they own throughout the County; the local Soil and Water; and the OSU Extension also share in administering programs that play a role coordinating with Hazard Mitigation Activities. The National Conservation Resources, which includes land preservation, wetland development, and grassed waterway programs.

There also has been an upper Watershed Protection Project Plan developed by the Miami Valley Regional Planning Commission for the Stillwater River in Northern Darke County. This study, in addition to a Lower Stillwater Plan Study, incorporates and supports mitigation actions within that watershed district. Since 1975, major portion of the Stillwater River and Greenville Creek are also both designated scenic rivers that are part of the Ohio Scenic River Program that supports preserving and maintaining our waterways and river line corridors.

Darke County currently has a County Review Board made up of County Health Department Officials, County Engineer, and Darke County Planning Commission members which provide site reviews and approvals of land prior to new construction on new building sites. This helps to mitigate construction activities occurring within flood plains.

Future Actions

The Darke County Mitigation Planning Committee will oversee and regularly monitor the progress of the Plan. The Darke County Hazard Mitigation Committee will strive to create sustainable communities that are resistant to human and economic costs of disasters. The local planning collaborative will include:

- Elected officials and local administrators including:
 - County Commissioners and City Service/Safety Director
 - Mayors, Village Administrators, and Council Members
 - Township Trustees, City and Village Council Members
- Planning expertise:
 - Darke County Building Regulations & Floodplain Manager
 - County Engineer
 - Greenville City Planning Administrator
 - Private Consulting Engineers
- Local Boards and Services
 - Darke County Department of Health
 - Darke County Park District
 - Darke County Economic Development-Partnering For Progress
 - Darke County Grants Department
 - Area Chamber of Commerce Organizations
 - Wabash Conservancy District
- Non-Profit Partners and Business Organizations
 - Northern Miami Valley Red Cross Chapter
 - Darke County Foundation
- Citizens
 - Local volunteers
- State Agencies
 - Ohio Emergency Management Agency
 - Ohio Department of Natural Resources
 - Ohio Department of Development
 - Ohio Environmental Protection Agency

- Ohio Department of Transportation
- Academic Institutes
 - Miami Valley Career Technology Program
 - Greenville Career Tech Program
 - Edison State Community College

The Darke County Hazard Mitigation Committee will work through the above-referenced administrative officials and collaborative to begin to integrate the goals of the Darke County Hazard Mitigation Committee into the countywide general operations. By working within these established community leaders, this Plan will more efficiently implement and finance the hazard mitigation projects and programs. The goal is to update the work plans, policies, and procedures to include sound mitigation concepts into the daily operations of all administration programs.

Instead of relying solely on funding from hazard mitigation programs or external sources, the Darke County Hazard Mitigation Committee recommends that all Darke County communities including the County, Cities, Villages, Townships, and independent Boards consider including the addition of a line item and budget solely for mitigation type projects.

The County, Cities, Villages, and Townships will include directives to require departments and agencies to evaluate and carry out mitigation activities and initiatives. The Darke County Building and Zoning Departments will be encouraged to provide, as a part of its latest Plan, revised, effective up-to-date mechanisms for integrating mitigation practices into its comprehensive planning. A primary benefit of combining these processes is that they both influence the location, type, and characteristics of physical growth, specifically buildings and infrastructure.

The Darke County Hazard Mitigation Committee further recommends that incentive programs be developed to stimulate momentum to undertake mitigation initiatives. Public/private partnerships and the use of community volunteers and community public awareness are ways to help further the County's mitigation goals.

The Darke County Hazard Mitigation Committee will recommend that the Board of County Commissioners adopt a procedure on how to identify who would be involved in implementation of the mitigation actions. It is recommended by the Darke County Hazard Mitigation Committee to develop a written statement of mutual agreement for the various agencies and organizations that:

- A. Defines the duties and specific responsibilities among the different agencies and organizations.
- B. Provides a clear statement of values, principles, and community hazard mitigation goals and establishes an organization structure to assist in measuring and evaluating the Plan process.

The written statement of mutual agreement between various entities and partners shall include:

- The organization lead.
- The timeline.
- How the mutual agreement statement process is to be reviewed or revised.
- A statement on how decisions will be made.
- A statement on describing the circumstances under which each partner should consult each other.
- A statement requiring each partner or organization to submit periodic or annual reports on the progress or program.
- A statement on responsibility for actions.
- A statement on how each partner or organization with staff, provide technical resources and funding that the department, agency, or organization is expected to provide.

Upon commitment from all partners and organizations involved for each mitigation activity or process, the partner or organization shall provide yearly reports to the Darke County Hazard Mitigation Committee which detail the following information:

- The hazard mitigation action's objectives.
- Who the lead and supporting agencies responsible for implementation are.
- How long the project should take, including a delineation of the various states of work along with timelines (milestones should be included).
- Whether the resources needed for implementation, funding, staff time, and technical assistance are available, or if other arrangements must be made to obtain them.
- The types of permits or approvals necessary to implement the action.
- Details on the ways the actions will be accomplished within the organization, and whether the duties will be assigned to agency staff or contracted out.
- Current status of the project, identifying any issues that may hinder implementation.

It is the goal of the Darke County Hazard Mitigation Committee to break down the mitigation projects into smaller, more manageable tasks. This way the responsible agency, department, or organization can determine the particular details in order to incorporate these additional considerations into the routine of their daily operations.

4.6 Continued Public Involvement

Darke County has had past success in promoting and keeping the public involved in mitigation activities and has had an exception 100% participation level from county, city and village entities. It is the Darke County Hazard Mitigation Committee's desire to achieve continued improvement in involving the public and be forward thinking in accomplishing mitigation activities for the benefit of the entire county. To involve the public, the DCHMC will incorporate the following public involvement to future planning efforts:

1. Invite the public by posting the hazard mitigation annual public meeting notices on the Darke County EMA website and Facebook, Commissioner's website, and in the local newspaper. In addition, the National Hazard Mitigation Committee will incorporate an action item into this Plan update that will promote public input and keep the county residents informed as to the benefits of mitigation activities. Some of the action steps could include such items as published quarterly articles on mitigation success stories or articles posted on the County EMA website.
2. Encourage local media to share mitigation success stories and promote mitigation activities and opportunities.
3. Encourage county wide collaboration of mitigation activities through organizations such as county wide Economic Development "Partnering for Progress", County Mayor Association, Township Trustee Association, Darke County Foundation, Versailles Chamber of Commerce and Darke County Chamber of Commerce.

A-1

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2017 5-Year Planning Update
Agenda – Kick-Off Meeting

Date: Tuesday, December 5, 2017 – 10:00 A.M.
Darke County Emergency Management Agency
5183 County Home Rd.
Greenville, OH 45331

- Welcome & Introductions
- Darke Co. EMA Comments
- State Hazard Mitigation 5-Year Plan Review Process (Power Point)
- In Kind Service Records
- Review FEMA comments from 2011-2012 Plan Approval
- Community Participation
- Other Comments
- Schedule Future Work Shop Meetings and Public Meetings
- Adjourn

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2017 5-Year Planning Update
Minutes – Kick-Off Meeting

Date: Tuesday, December 5, 2017 – 10:00 A.M.
Darke County Emergency Management Agency
5183 County Home Rd.
Greenville, OH 45331

Handouts: 2012 FEMA Comments on Plan Strengths and Weaknesses
Looking Ahead
Tentative Draft Schedule
Darke County Mitigation Action Items

▪ Welcome

➤ Mike Henderson, Mitigation Consultant:

- Welcomed all present and thanked everyone for attending.
- Informed those present all meetings are open to the public and the public is invited to attend and participate.
- Explained the purpose of updating the plan and that mitigation is the effort to reduce loss of life and property by lessening the impact of disasters.

• Darke Co. EMA Comments

- Mindy Saylor thanked all members for volunteering their time for the 5-year update.
- Members present introduced themselves and told what organization they were representing. (attached is a roster of attendees)

• State Hazard Mitigation 5-Year Plan Review Process (Power Point)

- Mike Henderson presented a Power Point explaining the State Hazard Mitigation 5-Year Plan Review Process.
- Mike Henderson explained the four parts of the mitigation planning:
 - People and Planning Process
 - Hazard Identification and Risk Assessment Vulnerability
 - Mitigation Strategy

- Plan Maintenance
 - A link was shared for the current plan: www.darkecountymema.org – Go to Links (right hand side of web page) – “Darke County Mitigation 5-Year Plan Update Draft”. Team members were encouraged to review the existing plan.
- Review FEMA comments from 2011-2012 Plan Approval
 - Mike Henderson reviewed the FEMA comments and addressed the strengths and weaknesses.
- Community Participation
 - Mike Henderson indicated each community must participate in the planning process and discussed preparing a questionnaire and invitations to future workshops for all communities to seek their input and participation.
- Other Comments
 - One of the questions to be discussed in our mitigation planning is “What has Changed in the Last 5 Years?”
 - Chief Deputy Mark Whittaker indicated larger special events are very hard to cover from the law enforcement side without the communities or organizations being willing to pay for extra security.
 - Committee members also brought forth there is increased concern about cyber-attacks, terrorism and active shooters.
 - Items Mike Henderson asked the committee to review to be prepared for 2018 workshop meetings:
 - Share knowledge of any severe weather events over the past 5 years.
 - List new developments, critical infrastructure changes (i.e., EMS, fire stations, schools, medical facilities, water/wastewater, power stations, etc.) in the last 5 years.
 - List any problem areas you are aware of that may have developed over the past 5 years. (i.e., reoccurring flooding issues, utility outages, invasive species, storm safety issues, elderly care during power outages, etc.)
 - Review current plan goals and objectives. Do they need modified or changed? Are they still valid?

- Review the current action item list and update this list to reflect present conditions.
- Are you aware of any new or updated planning documents in the county, city or villages?
- Schedule Future Work Shop Meetings and Public Meetings
 - The committee discussed the Tentative Draft Schedule and the decision was made to change workshops to the 2nd Wednesday of the month at 10:00 AM due to another county meeting conflict.
- Adjourn
 - The meeting was adjourned at 11:15 AM.

The next meeting is Wednesday, January 10, 2018, 10:00 AM at EMA.

**DARKE COUNTY OHIO 5-YEAR MITIGATION
PLAN UPDATE
FUTURE WORKSHOP SCHEDULE**
Revised December 5, 2017

December 5, 2017 – Planning Kickoff Meeting #1

Planning Meeting #2 – January 10, 2018 @ 10:00 A. M.

Planning Meeting #3 – February 14, 2018 @ 10:00 A.M.

Planning Meeting #4 – March 14, 2018 @ 10:00 A.M.

Draft Plan Update Release for Distribution & Review – Week of April 23, 2018

Public Comment Period – Month of May 2018

Public Hearing – Second or third week of May 2018

Month of June 2018 – Release Final Draft based on Public comments & Committee recommendations

Submission to Ohio EMA – By end of June 2018

Darke County Hazard Mitigation Kick-Off Meeting - Sign-in Sheet
 Tuesday, December 05, 2017

NAME	Representing	Phone Number	Email	Signature
Alan Davis	ODOT	548-3015	robert.davis5@dot.ohio.gov	<i>[Signature]</i>
Ben Vollrath	DP & L	937-331-3370	benjamin.vollrath@dplinc.com	Phone
Beth Davenport	Darke Rural Electric	548-4114	bethd@darkarec.com	<i>[Signature]</i>
Chad Beamblossom	Edison State - Greenville	937-77-7891	cbeamblossom@edisonohio.edu	<i>[Signature]</i>
Chad Henry	Greenville City Planning & Zoning	548-4930	chenry@cityofgreenville.org	<i>[Signature]</i>
Chief Deputy Mark Whittaker	DCSO	548-3399	mwhittaker@darkecountysheriff.org	<i>[Signature]</i>
Chief Kurt Troutwine	Darke County Fire Chiefs	692-8310/459-6405	kurt@troutwine-llcs.com	<i>[Signature]</i>
Chief Russell Thompson	Greenville FD	548-3040	rthomson@cityofgreenville.org	<i>[Signature]</i>
Christina Chalmers	Daily Advocate	569-4312	cchalmers@aimmedia.com	<i>[Signature]</i>
Curtis Young	Building/Flood	547-7381	cyoung@co.darke.oh.us	<i>[Signature]</i>
Dave Brewer	Township Trustee	447-3295	foxopen1@gmail.com	<i>[Signature]</i>
Dave Keiser	Littman-Thomas Ins	548-2131	dkeiser@littmanthomas.com	<i>[Signature]</i>
Dennis Wein	Darke County Health Dept	548-4196 ext. 202	dennis.wein@darkecountyhealth.org	<i>[Signature]</i>
Jeff Stribler	Wayne Healthcare	547-5919	jeffrey.stribler@waynehealthcare.org	<i>[Signature]</i>
Jim Schaar	LEPC	548-5233	linwood2011@roadrunner.com	<i>[Signature]</i>
Jim Surber	Darke County Engineer	547-7375	dce@earthlink.net	<i>[Signature]</i>
John Keller	Public Sector	548-8112/564-1020	keller@kellergrain.com	<i>[Signature]</i>
Josh Haney	Darke County EMA	548-1444	losh@darkecountyema.org	<i>[Signature]</i>
Justin Hines	Township Trustee	459-7963	hinesjustin@hotmail.com	<i>[Signature]</i>
Krista Fourman	Solid Waste	547-0827	kfourman@co.darke.oh.us	<i>[Signature]</i>
Kyle Francis	Village of Versailles	526-3294	kylfrancis@versaillesohio.cc	<i>[Signature]</i>
Lynne Gump	Darke County Red Cross	548-1002	gump@darkecountyredcross.org	<i>[Signature]</i>
Matt Harrison	Hollansburg Mayor	459-7279	firem73@yahoo.com	<i>[Signature]</i>
Mike Henderson	Mote & Associates	548-7511	mhenderson@moteassociates.com	Mike Henderson
Mike Rhoades	County Commissioner	547-7370	mhrhoades@co.darke.oh.us	Mike Rhoades
Mindy Saylor	Darke County EMA	548-1444	mindy@darkecountyema.org	<i>[Signature]</i>
Rodd Hale	Versailles City Mgr	526-3294	RoddHale@versaillesohio.cc	<i>[Signature]</i>
Roger VanFrank	Darke County Parks	548-0165	rvf@darkecountyparks.org	<i>[Signature]</i>
Ryan Berry	Early Bird			<i>[Signature]</i>
Sam Custer	County Extension Office	548-5215	custer.2@osu.edu	<i>[Signature]</i>
Steve Wenning	Darke County EMS	548-9339	swenning@wohrr.com	<i>[Signature]</i>
Ted Holapple	Darke Rural Electric	437-5718	tholapple@darkarec.com	<i>[Signature]</i>
Tom Welbaum	Village of Ansonia	337-6781	admin@ansoniohio.us	<i>[Signature]</i>
Michelle Cain	Wayne County EMA	715-973-9377	mcaine@wayne.in.us	<i>[Signature]</i>
Randy S. Pugh	Am. Red Cross	937-232-1100	Randy.Pugh@RedCross.org	<i>[Signature]</i>
James Doseck	ODOT	548-3015		<i>[Signature]</i>
Rhonda Williams	OSU	548-5215	williams.48@osu.edu	<i>[Signature]</i>

Eric Martin Daily Advocate 569-4314 emartin@dailyadvocate.com *[Signature]*

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Agenda-Meeting #2

Date: Wednesday, January 10, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

- Welcome

- Public Comments

- Prior Plan Review – What has changed in the last 5 years?
 - A. Community Profile & Development Trends
 - B. Review of Referenced Plans
 - C. Discussion of New Planning Documents
 - D. Review of Risk Assessment Strategy
 - E. Review of Natural Hazards
 - F. Review of Other Hazards
 - G. Reassessment of Hazard Vulnerability

- Open Discussion – Comments & Questions

- Looking Ahead – Reviewing Goals & Objectives and Updating Mitigation Action Item List

- Adjourn

Next meeting Wednesday, February 14, 2018

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Minutes-Meeting #2

Date: Wednesday, January 10, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

- Welcome

- Public Comments

Lonnie Miller of Billman Road, South of New Madison spoke regarding flooding concerns at his residence.

His home was constructed in 1993 and he has kept drainage ditch on his property clean of debris and has installed three 8” drainage tiles. Approximately 20 years ago the drainage ditch on the adjacent property was also cleared. However, it is now filled in again. The neighboring owner lives out of state and the ditch is no longer clear and drainage backs up onto his property. He has experienced ± 4 ” of water in his residence several times over the past year. Local authorities have not assisted in any relief. Mike Henderson, Consultant indicated his flooding concerns could be added into the 2018 Mitigation Plan updates along with other county flooding problems. Several of the members of the Committee offered the following suggestions:

- Take pictures and make contact with the adjacent property owner to make sure they are aware of his storm drainage concerns.
 - Discuss with Township Trustees the possibility of upsizing the culvert beneath Billman Road.
 - Make public officials aware of issues in writing to have increased opportunity for assistance and remedy.
-
- Prior Plan Review – What has changed in the last 5 years?
 - A. Community Profile & Development Trends
 - County Population Change – Projected to decrease slightly per State of Ohio Office of Research.
 - Committee was not aware of any industrial plant closings in the county.
 - Larger Businesses/Employers that have Closed Operations – Retail operators such as JC Penney, Kmart, Staples and Odd Lots in Greenville.
 - New Industry – Whirlpool Distribution Center, BASF expansion, Spartek,

- Continental Carbonics, Kings Command, Versailles, \$40 Million Midmark expansion (2018/2019) and GTI expansion.
- Residential Construction – Harvest Fields Subdivision in Arcanum – Curtis Yount, County Zoning Director, indicated 10-12 permits for new residences have been issued each year.
- Commercial Construction –
 - Ansonia – Dollar General and Casey’s Market.
 - Arcanum Commercial Park is in the planning stages.
 - County Commercial Park – Includes ODOT and Erwin Brothers Convenience Store.
 - Greenville - Koenig Equipment, Dollar General Store, Harbor Freight, Dominos, Rollin Trucking, Snap Fitness Center, and Ohio Signs.
 - New Madison – Dollar General.
 - Union City – Casey’s Market.
 - Versailles – Bowlerstore.com, ~~Dollar General~~, Voisard Tool Service, **Kamp’s Pallets Expansion (Subler Dr. location)**, **BNSF Expansion**, **Weaver Bros. Truck Wash**, and Books by the Bushel.
- Agricultural – Weavers cage free, 3-story building in Versailles, ±20 new hog facilities in Darke County, two new dairy farms (Schmitmeyer & Brunswick).
- Health Care Facilities – Premier Building, Wayne Health Care expansion, Reid Facility and Urgent Care on Wagner Avenue in Greenville, Arcanum and New Madison Family Health, Family Health eye doctor facility, and new optometry center in Versailles.
- Schools – Greenville – New K-8 in 2017.
- EMS/Fire – North Star Fire Department.
- Wastewater/Water – Hollansburg/Palestine sewer system is in the planning stages, New Madison water tower is in the planning stage, and Erwin Brothers private wastewater system.
- Assisted Living / Elderly Care – Village Green Facility and Brethren Retirement Community Expansion, renovation of the former Gade Nursing Home on Chestnut Street is in process.
- Utility Infrastructure / Emergency Communications – Numerous county cell towers, Whirlpool in Greenville is planning to put up wind turbines, **Versailles has installed a 1.75 MW solar power facility**, New Madison is planning a new water tower, and Union City is installing a new MARCS radio tower.
- Roadway Changes – Closure and elimination of the former State Route 242 behind the Darke County Airport, Re-establish State Route 242 as a county road, improvements are planned for State Route 571 at Arcanum Bears Mill Road intersection, and Kruckeburg/US Route 127 improvements.

B. Review of Referenced Plans

- C. Discussion of New Planning Documents
 - Darke County Emergency Response Plan Updates.
 - Dangerous Wild Animal Plan (Darke County Health).
 - Township Co-Op Plan.
 - Newer Health Department – Plans include: Eboli, special pathogens and 2014-2015 Bird Flu Plan.

- D. Review of Risk Assessment Strategy
 - Mike Henderson indicated the county risk assessment will be updated as a part of the 5-year plan revisions.

- E. Review of Natural Hazards
 - The Committee confirmed past natural hazards were still relevant.

- F. Review of Other Hazards
 - The Committee mentioned the review of special event concerns and how the County may be better prepared for large special events such as: Darke County Fair weather notification, Eldora Speedway, and Whistle Stop Queen of Hearts.

- G. Reassessment of Hazard Vulnerability
 - Mike Henderson indicated we would go through the process of updating the hazard vulnerability and risk assessment for the county.

- Open Discussion – Comments & Questions
Time did not allow for additional open discussion for this session.

- Looking Ahead – Reviewing Goals & Objectives and Updating Mitigation Action Item List

- Adjourn

Next meeting Wednesday, February 14, 2018

Darke County Hazard Mitigation Meeting #2 - Sign-In Sheet
 Wednesday, January 10, 2018

Name	Representing	Phone Number	Email	Signature
Beanblossom, Chad	Edison State - Greenville	937-77-7891	cbeanblossom@edisonohio.edu	
Berry, Ryan	Early Bird			
Brewer, Dave	Township Trustee	447-3295	foxpen1@gmail.com	
Cain, Matthew	Wayne Co., IN EMA	765-973-9399	mcain@co.wayne.in.us	
Chalmers, Christina	Daily Advocate	569-4312	cchalmers@aimmediawest.com	
Custer, Sam	County Extension Office	548-5215	custer.2@osu.edu	
Davenport, Beth	Darke Rural Electric	548-4114	bethid@darkerec.com	
Davis, Alan	ODOT	548-3015	robert.davis@dot.ohio.gov	
Doseck, James	ODOT	548-3015		
Earl, Randy	American Red Cross	937-232-1065	randy.earl@redcross.org	
Fourman, Krista	Solid Waste	547-0827	kfourman@co.darke.oh.us	
Francis, Kyle	Village of Versailles	526-3294	kylefrancis@versaillesohio.cc	
Gump, Lynne	Darke County Red Cross	548-1002	gump@darkecounty.redcross.org	
Hale, Rodd	Versailles City Mgr.	526-3294	RoddHale@versaillesohio.cc	
Haney, Josh	Darke County EMA	548-1444	josh@darkecountyma.org	
Harrison, Matt	Hollansburg Mayor	459-7279	firem73@yahoo.com	
Henderson, Mike	Mote & Associates	548-7511	mhenderson@moteassociates.com	
Henry, Chad	Greenville City Planning & Zoning	548-4930	chenry@cityofgreenville.org	
Hines, Justin	Township Trustee	459-7963	hinesjustin@hotmail.com	
Holsapple, Ted	Darke Rural Electric	417-5718	tholsapple@darkerec.com	
Keiser, Dave	Littman-Thomas Ins	548-2131	dkeiser@littmantomas.com	
Keller, John	Public Sector	548-8112/564-1020	jkeller@kellergrain.com	
Martin, Erik	Daily Advocate	937-569-4314	emartin@dailyadvocate.com	
Rhoades, Mike	County Commissioner	547-7370	mrhoades@co.darke.oh.us	
Robbins, Mike	Mercer Co. EMA	419-586-4468	ema@mercercountyohio.org	
Saylor, Mindy	Darke County EMA	548-1444	mindy@darkecountyma.org	
Schaar, Jim	LEPC	548-5233	linwood2011@roadrunner.com	
Subler, Jeff	Wayne HealthCare	547-5919	jeffrey.subler@waynehealthcare.org	
Surber, Jim	Darke County Engineer	547-7375	dce@earthlink.net	
Thompson, Chief Russell	Greenville FD	548-3040	rthompson@cityofgreenville.org	
Troutwine, Chief Kurt	Darke County Fire Chiefs	602-8310/459-6405	kurt@troutwine-ins.com	
VanFrank, Roger	Darke County Parks	548-0165	rvf@darkecountyparks.org	
Vollrath, Ben	DP & L	937-331-3370	benjamin.vollrath@dplinc.com	
Wein, Dennis	Darke County Health Dept.	548-4196 ext. 202	dennis.wein@darkecountyhealth.org	
Welbaum, Tom	Village of Ansonia	337-6781	admin@ansoniahio.us	
Wenning, Steve	Darke County EMS	548-9339	swenning@woh.rfr.com	
Whittaker, Chief Deputy Mark	DCSO	548-3399	mwhittaker@darkecountysheriff.org	
Williams, Rhonda	OSU Extension Office	548-5215	williams.418@osu.edu	
Yount, Curtis	Building/Flood	547-7381	cyount@co.darke.oh.us	
COOK, ERIC	WAYNE HEALTHCARE	569-6955	eric.cook@waynehealthcare.org	
LONNIE MILLER	Village of Arcadium	417-5216		
Gregg Bauble	Hollansburg Mayor	692-6121		
MAH HARRISON		459 2279	firem73@yahoo.com	

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Agenda-Meeting #3

Date: Wednesday, February 14, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

- A. Welcome
- B. Public Comments
- C. Plan Update Information
 - Critical Infrastructure Values
 - Residential, Commercial Industrial & Agricultural Tax Evaluation Information
- D. 2012 Plan Review
 - Major loss events since 2012 Update
 - Repetitive Flood Loss Update
 - Other Hazards to Consider
 - Terrorism
 - Utility Communication Failures
 - Hazardous Material Incidents
 - Transportation Accidents
 - Dam Levee Failure
- E. Special Hazard Discussions
 - Potential Agricultural Losses
 - Special Event Hazards.
- F. Asset Inventory
- G. Goals & Objectives
- H. Review of Current Action Item List
- I. Open Discussion – Comments & Questions
- J. Adjourn

Next meeting Wednesday, March 21, 2018 at 10:00 AM

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Minutes – Meeting #3

Date: Wednesday, February 14, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

Attendees – See attached sign in sheet

- A. Welcome
- B. Public Comments – No public comments
- C. Plan Update Information
 - The critical infrastructure spreadsheet for the City of Greenville, all villages and townships was shared with the committee. Several changes noted included: change of local police departments to Sheriff coverage (Bradford to Miami County Sheriff, New Madison to Darke County Sheriff), demolition of four Greenville Schools and replacement with new K-8.
 - The Critical Infrastructure Values will be updated based on the 2017 Darke County Tax Evaluation for residential, commercial, agricultural, industrial and utilities.
 - Residential, Commercial Industrial & Agricultural Tax Evaluation Information.
 - The current 2017 total values were shared with the Committee.
- D. 2012 Plan Review
 - Major loss events since 2012 Update
 - 88 NCDC Storm Event days with total reported damages of 408.25K.
 - 4 Tornado events reported.
 - Additional localized flooding events that were not shown in NCDC Report.
 - Repetitive Flood Loss Update – No new repetitive losses were reported through The National Flood Insurance Program.
 - Other Hazards to Consider – The Committee discussed other potential hazards of:
 - Terrorism
 - Utility Communication Failures
 - Hazardous Material Incidents
 - Transportation Accidents
 - Dam Levee Failure

E. Special Hazard Discussions

- Potential Agricultural Losses – Invasive species, animal diseases, freezes, droughts, winds, and flooding have adverse effect and cause substantial losses to the agricultural base in Darke County.
- Special Event Hazards –
 - First Response Challenges – The Committee discussed other responder issues with different events and situations that were not as prevalent in the past. These topics included:
 - First responder roles have increased dramatically due to school safety issues.
 - Enforcement officers added to schools.
 - Lack of voluntary auxiliary patrol assistance due to additional training requirements and complexity of first responder situations.
 - Attendance at county events has increased.
 - Increased terrorism in general across the United States.
 - Increased time spent by first responders on planning, preparing and training for terrorism events.
 - Crowd control and specialized use of bomb sniffing dogs, checking personal items for larger public events such as Eldora Speedway, Darke County Fair attractions, community festivals and more recently Queen of Hearts drawings at the Whistle Stop in Ansonia.
 - Increased drug enforcement and safety concerns with greater drug use.
 - Change in weather events:
 - More frequent intense rainfall which causes greater localized flooding and significant crop losses. Some cited events included Gettysburg tornado which caused significant crop damage. Localized flooding on July 14, 2015, in the county whereby many homes outside of designated flood planes were flooded and damaged.
 - Damages from more frequent localized storm events generally are not tracked within the NCDC System, even though these storm events can cause greater damage within Darke County than those reported through the NCDC System.
 - Communication Issues:
 - While use of cell phones and text messages has been a large improvement in getting earlier warnings of impending storms, instant communication can also be problematic. Social media can produce misinformation and panic situations at large events.
 - The Committee expressed need to get additional tools where by one call systems can be implemented to specific neighborhoods, communities or only parts of the county.
 - Noted Improvements for Events
 - There is a traffic plan now in place to assist in handling of fair traffic in case the need arises for accelerated departure of the fairground events.
 - Bomb sniffing dogs are available for use at events.
 - Good cooperation between local law enforcement agencies.

- County Problems
 - 2012 County Problems Listed – Committee Confirmed:
 - Items 1-4 are still valid.
 - Item 5 – Eliminate – Advanced technology is improved to provide us with earlier warnings.
 - Items 6-8 are still valid.

- F. Asset Inventory – The inventory will be updated for the 2018 Plan.

- G. Goals & Objectives – Still relevant.

- H. Review of Current Action Item List – Time did not allow to review the current list.

- I. Open Discussion – Comments & Questions

- J. Adjourn

Next meeting Wednesday, March 21, 2018 at 10:00 AM

Darke County Hazard Mitigation Meeting #3 - Sign-In Sheet
Date: February 14, 2018

Name	Representing	Phone Number	Email	Signature
Beanblossom, Chad	Edison State - Greenville	937-77-7891	cbeanblossom@edisonohio.edu	
Berry, Ryan	Early Bird			
Brewer, Dave	Township Trustee	447-3295	foxpen1@gmail.com	
Cain, Matthew	Wayne Co. IN EMA	765-973-9399	mcain@co.wayne.in.us	
Chalmers, Christina	Daily Advocate	569-4312	cchalmers@aimmediawest.com	
Custer, Sam	County Extension Office	548-5215	custer.2@osu.edu	
Davenport, Beth	Darke Rural Electric	548-4114	bethd@darkeec.com	
Davis, Alan	ODOT	548-3015	robert.davis@dot.ohio.gov	
Doseck, James	ODOT	548-3015		
Earl, Randy	American Red Cross	937-232-1065	randy.earl@redcross.org	
Fourman, Krista	Solid Waste	547-0827	kfourman@co.darke.oh.us	
Francis, Kyle	Village of Versailles	526-3294	kylefrancis@versaillesohio.cc	
Gump, Lynne	Darke County Red Cross	548-1002	gump@darkecounty.redcross.org	
Hale, Rodd	Versailles City Mgr.	526-3294	RoddHale@versaillesohio.cc	
Haney, Josh	Darke County EMA	548-1444	josh@darkecountyma.org	
Harrison, Matt	Hollansburg Mayor	459-7279	firem73@yahoo.com	
Henderson, Mike	Mote & Associates	548-7511	mhenderson@moteassociates.com	
Henry, Chad	Greenville City Planning & Zoning	548-4930	chenry@cityofgreenville.org	
Hines, Justin	Township Trustee	459-7963	hinesjustin@hotmail.com	
Holsapple, Ted	Darke Rural Electric	417-5718	tholsapple@darkeec.com	
Keiser, Dave	Littman-Thomas Ins	548-2131	dkeiser@littmantomas.com	
Keller, John	Public Sector	548-8112/564-1020	jkeller@kellergrain.com	
Martin, Erik	Daily Advocate	937-569-4314	emartin@daillyadvocate.com	
Rhoades, Mike	County Commissioner	547-7370	mrhoades@co.darke.oh.us	
Robbins, Mike	Mercer Co. EMA	419-586-4468	ema@mercercountyohio.org	
Saylor, Mindy	Darke County EMA	548-1444	mindy@darkecountyma.org	
Schaar, Jim	LEPC	548-5233	linwood2011@roadrunner.com	
Subler, Jeff	Wayne HealthCare	547-5919	jeffrey.subler@waynehealthcare.org	
Surber, Jim	Darke County Engineer	547-7375	dce@earthlink.net	
Thompson, Chief Russell	Greenville FD	548-3040	rthompson@cityofgreenville.org	
Troutwine, Chief Kurt	Darke County Fire Chiefs	692-8310/459-6405	kurt@troutwine-ins.com	
VanFrank, Roger	Darke County Parks	548-0165	ruf@darkecountyparks.org	
Vollrath, Ben	DP & L	937-331-3370	benjamin.vollrath@dpilinc.com	
Wein, Dennis	Darke County Health Dept.	548-4196 ext. 202	dennis.wein@darkecountyhealth.org	
Welbaum, Tom	Village of Ansonia	337-6781	admin@ansoniahio.us	
Wenning, Steve	Darke County EMS	548-9339	swenning@wvoh.rr.com	
Whittaker, Chief Deputy Mark	DCSO	548-3399	mwhittaker@darkecountysheriff.org	
Williams, Rhonda	OSU Extension Office	548-5215	williams.418@osu.edu	
Yount, Curtis	Building/Flood	547-7381	cyount@co.darke.oh.us	
Cook, ERIC	Wayne Healthcare	569-6958	eric.cook@Waynehealthcare.org	

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Agenda-Meeting #4

Date: Wednesday, March 21, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

- A. Welcome
- B. Public Comments
- C. Schedule Review
- D. Set Public meeting date(s) – Mid May
- E. Questionnaire sent to communities
- F. Review and discuss mitigation successes since 2012 Plan
- G. Review and Discussion – Current Action Plan
- H. Potential community projects or activities to add to Action Plan
- I. Open Discussion
- J. Adjourn

Next meeting Wednesday, April 25, 2018 at 10:00 AM

**DARKE COUNTY OHIO 5-YEAR MITIGATION
PLAN UPDATE
FUTURE WORKSHOP SCHEDULE**

Revised December 5, 2017 – Revised March 20, 2018

December 5, 2017 – Planning Kickoff Meeting #1

Planning Meeting #2 – January 10, 2018 @ 10:00 A. M.

Planning Meeting #3 – February 14, 2018 @ 10:00 A.M.

Planning Meeting #4 – March 21, 2018 @ 10:00 A.M.

Planning Meeting #5 – April 25, 2018 @ 10:00 A.M.

Draft Plan Update Release for Distribution & Review – Early May, 2018

Public Comment Period – Month of May 2018

Public Hearing – Second or third week of May 2018

Month of June 2018 – Release Final Draft based on Public comments & Committee recommendations

Submission to Ohio EMA – By end of June 2018

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Agenda-Meeting #5

Date: Wednesday, April 25, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

- A. Welcome
- B. Public Comments
- C. Schedule Review
- D. Set Public meeting date(s) – Mid May
- E. Questionnaire sent to communities
- F. Review and discuss mitigation successes since 2012 Plan
- G. Review and Discussion – Current Action Plan
- H. Potential community projects or activities to add to Action Plan
- I. Open Discussion
- J. Adjourn

Next meeting: Public Hearing – Date to be determined

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Minutes – Meeting #5

Date: Wednesday, April 25, 2018 – 10:00 A.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

Attendees – See attached sign-in sheet

- A. Welcome
- B. Public Comments – None
- C. Schedule Review –
 - Planning Meeting #4 – March 21, 2018 @ 10:00 A.M. (Weather Cancellation)
 - Planning Meeting #5 – April 25, 2018 @ 10:00 A.M.
 - Draft Plan Update Release for Distribution & Review – Mid May, 2018
 - Public Comment Period – Mid May 2018 – Mid June 2018
 - Public Hearing – Week of May 28, 2018
 - Month of June 2018 – Release Final Draft based on Public comments & Committee recommendations
 - Submission to Ohio EMA – By end of June 2018
- D. Set Public meeting date(s) – Mid May – To Be Determined
- E. Questionnaire sent to communities – As of April 25, 2018, the Village of Versailles and Hollansburg have been the only ones to provide a questionnaire.
- F. Review and discuss mitigation successes since 2012 Plan –
 - The Village of Versailles has an ongoing maintenance plan for Swamp Creek.
 - A new bridge has been constructed on North Center Street in Versailles.
 - The Village of North Star built a new fire department.
 - Levy work has been completed at the Greenville Wastewater Treatment Plant.
 - The sheriff's office K-9 patrol and the Village of Union City have active K-9 Patrols.

- Active shooter drills and lock down training has been completed by the Darke County Sheriff's Office.
 - Tornado drills have been completed at all Darke County schools.
 - Fire drills have been completed at all Darke County schools.
 - The Villages of Castine, Hollansburg, and Osgood have installed new tornado sirens. The Village of Versailles has installed an additional siren at the industrial park.
 - The NOAA weather radio program (parks, manufacturing facilities, nursing and assisted living facilities).
 - The Village of Ansonia s completed flood proofing of their village sanitary lift station.
 - The Village of Versailles demolished a structure that was located in the flood plain.
 - Several flooding issues continue to be addressed in Darke County.
 - The MARCS Radio system has been installed in the City of Greenville 911 Center and the Darke County 911 Center is moving forward with the implementation.
- G. Review and Discussion – Current Action Plan – The current mitigation action item list will be updated as Completed, Deferred, Deleted, New, Unchanged or Ongoing.
- H. Potential community projects or activities to add to Action Plan –
- The CSX Railway issues in the Villages of Union City, Ansonia and Versailles.
 - Railroad crossing grade build-up over the years have caused safety issues for tractor trailer low boys. There was an incident in the Village Versailles with a low boy tractor trailer being hit.
 - Posting signage for low boy tractor trailers at the crossing is another potential way to address the issue.
 - Contact PUCO.
 - New flooding issues due to storm intensity have occurred over the past 5 years.
 - Active shooter and drug issue affect available manpower for emergency responders.

I. Open Discussion

J. Adjourn

Next meeting: Public Hearing – Date to be determined

Darke County Hazard Mitigation Meeting #5 - Sign-In Sheet
Wednesday, April 25, 2018

Name	Representing	Phone Number	Email	Signature
Beanblossom, Chad	Edison State - Greenville	937-77-7891	cbeanblossom@edisonohio.edu	
Berry, Ryan	Early Bird			
Brewer, Dave	Township Trustee	447-3295	foxgen1@gmail.com	
Cain, Matthew	Wayne Co., IN EMA	765-973-9399	mcain@co.wayne.in.us	
Chalmers, Christina	Daily Advocate	569-4312	cchalmers@aimmediamidwest.com	
Custer, Sam	County Extension Office	548-5215	custer.2@osu.edu	
Davenport, Beth	Darke Rural Electric	548-4114	bethd@darkerec.com	
Davis, Alan	ODOT	548-3015	robert.davis5@dot.ohio.gov	
Doseck, James	ODOT	548-3015		
Earl, Randy	American Red Cross	937-232-1065	randy.earl@redcross.org	
Fourman, Krista	Solid Waste	547-0827	kfourman@co.darke.oh.us	
Francis, Kyle	Village of Versailles	526-3294	kylefrancis@versaillesohio.cc	<i>Kyle Francis</i>
Gump, Lynne	Darke County Red Cross	548-1002	gump1@darkecounty.redcross.org	
Hale, Rodd	Versailles City Mgr.	526-3294	RoddHale@versaillesohio.cc	
Haney, Josh	Darke County EMA	548-1444	josh@darkecountyema.org	<i>Josh Haney</i>
Harrison, Matt	Hollansburg Mayor	459-7279	firem73@yahoo.com	<i>Matt Harrison</i>
Henderson, Mike	Mote & Associates	548-7511	mhenderson@moteassociates.com	<i>Mike Henderson</i>
Henry, Chad	Greenville City Planning & Zoning	548-4930	chenry@cityofgreenville.org	<i>Chad Henry</i>
Hines, Justin	Township Trustee	459-7963	hinesjustin@hotmail.com	
Holsapple, Ted	Darke Rural Electric	417-5718	tholsapple@darkerec.com	
Keiser, Dave	Littman-Thomas Ins	548-2131	dkeiser@littmanthomas.com	
Keller, John	Public Sector	548-8112/564-1020	jkeller@kellergrain.com	
Martin, Erik	Daily Advocate	937-569-4314	emartin@dailyadvocate.com	
Rhoades, Mike	County Commissioner	547-7370	mrhoades@co.darke.oh.us	<i>Mike Rhoades</i>
Robbins, Mike	Mercer Co. EMA	419-586-4468	ema@mercercountyohio.org	
Saylor, Mindy	Darke County EMA	548-1444	mindy@darkecountyema.org	
Schaar, Jim	LEPC	548-5233	linwood2011@roadrunner.com	
Subler, Jeff	Wayne HealthCare	547-5919	jeffrey.subler@waynehealthcare.org	
Surber, Jim	Darke County Engineer	547-7375	dce@earthlink.net	
Thompson, Chief Russell	Greenville FD	548-3040	rthompson@cityofgreenville.org	
Troutwine, Chief Kurt	Darke County Fire Chiefs	692-8310/459-6405	kurt@troutwine-ins.com	
VanFrank, Roger	Darke County Parks	548-0165	rvt@darkecountyparks.org	
Vollrath, Ben	DP & L	937-331-3370	benjamin.vollrath@dpinc.com	<i>Ben Vollrath</i>
Wein, Dennis	Darke County Health Dept.	548-4196 ext. 202	dennis.wein@darkecountyhealth.org	<i>Dennis Wein</i>
Welbaum, Tom	Village of Ansonia	337-6781	admin@ansoniahio.us	<i>Tom Welbaum</i>
Wenning, Steve	Darke County EMS	548-9339	swenning@woh.rr.com	
Whittaker, Chief Deputy Mark	DCSO	548-3399	mwhittaker@darkecountysheriff.org	
Williams, Rhonda	OSU Extension Office	548-5215	williams.418@osu.edu	
Yount, Curtis	Building/Flood	547-7381	cypunt@co.darke.oh.us	
Holman, Terrence	D.C. Health	548-4196 208	terrence.holman@darkecountyhealth.org	<i>Terrence Holman</i>

**DARKE COUNTY OHIO 5-YEAR MITIGATION
PLAN UPDATE
FUTURE WORKSHOP SCHEDULE**
Revised April 25, 2018

December 5, 2017 – Planning Kickoff Meeting #1

Planning Meeting #2 – January 10, 2018 @ 10:00 A. M.

Planning Meeting #3 – February 14, 2018 @ 10:00 A.M.

Planning Meeting #4 – March 21, 2018 @ 10:00 A.M. (Weather Cancellation)

Planning Meeting #5 – April 25, 2018 @ 10:00 A.M.

Draft Plan Update Release for Distribution & Review – Mid May, 2018

Public Comment Period – Mid May 2018 – Mid June 2018

Public Hearing – Week of May 28, 2018

Month of June 2018 – Release Final Draft based on Public comments & Committee recommendations

Submission to Ohio EMA – By end of June 2018

DARKE COUNTY HAZARD MITIGATION COMMITTEE
2018 5-Year Planning Update
Minutes – Public Meeting

Date: Thursday, October 4, 2018 – 6:30 P.M.
Darke County EMA
5183 County Home Rd.
Greenville, Ohio 45331

Attendees – See attached sign-in sheet

- A. Mike Henderson explained the purpose of hazard mitigation activities to those that attended and thanked them for coming.
- B. Mike Henderson reviewed where the Darke County Hazard Mitigation 5-Year Planning Update was at in the process and explained the next steps after the comment period is to send the Plan to Ohio EMA and FEMA for their review and comments. He also discussed the countywide resolution adoption process once the plan is approved by FEMA.
- C. Mike Henderson encouraged those attending to review the Plan on the county webpage as it would be open for public comment for several weeks.
- D. Mike Henderson opened up the meeting for questions –
- Ellen Brown, Village of Wayne Lakes Mayor, asked the following questions:
 - Could street flooding be listed as an action item?
 - Answer: Yes. Other villages, such as the Village of Arcanum have done so.

 - Could the removal of dead ash trees in the right-of-way be listed as an action item?
 - Answer: Yes. Mike Henderson indicated that Miami County had such an action item in their Plan.

Mike Henderson noted that it is better to have action items and needs listed in the Plan, especially if there is a federal declaration as it could open up funding opportunities for local mitigation projects. He referred to the damaging ice storm several years back where funding became available for tree branch and debris removal for communities.

- Monyca Schlechty, Village of New Madison Mayor, asked if it was too late to add action items regarding their villages recent south end flooding issues.
- Answer: No. Mike Henderson recommended that a description of any issues/items that communities wanted listed could be emailed to Mindy Saylor, Director, Josh Haney, EMA Specialist, or Mike Henderson, Mote & Associates.

E. All the attendees were thanked for their attendance and input.
Meeting adjourned at 6:55 P.M.

Mary Kester

From: Matthew Cain <mcaain@co.wayne.in.us>
Sent: Monday, October 15, 2018 1:49 PM
To: 'Josh Haney'
Cc: 'Mindy Saylor'; 'Ken Johnson'; Mike Henderson; Mary Kester
Subject: RE: 2018 Mitigation Plan Update Review

Josh,

Thank you for allowing us the opportunity to view and review Darke County's Hazard Mitigation Plan. After reviewing the document, on behalf of Wayne County and Wayne County Emergency Management Agency, we have no questions and offer no further comments or suggestions. It appears extremely thorough and comprehensive. Thank you again, and as always, we look forward to working with you in the future.

Matthew Cain

Matthew B. Cain, ENP

Director
Wayne County Emergency Communications
Wayne County Emergency Management
401 E. Main Street
Richmond, IN 47374
Office: (765) 973-9268
Cell: (765) 969-3354

From: Josh Haney [mailto:josh@darkecountyema.org]
Sent: Wednesday, October 10, 2018 13:09
To: 'Mike Stegall' <mstegall@co.darke.oh.us>; 'Mike Rhoades' <mrhoades@co.darke.oh.us>; 'Matt Aultman' <maultman@co.darke.oh.us>; psclayton@dps.ohio.gov; Mike Robbins <EMA@mercercountyohio.org>; Troy Anderson <tanderson@auglaizecounty.org>; Cheri Drinkwine <shelbycountyema@gmail.com>; Kenny Artz <KArtz@MiamiCountyEMA.org>; Dave Anderson <danderson@prebleema.org>; 'Matthew Cain' <mcaain@co.wayne.in.us>; 'Jordan, Jeff' <JordanJ@mcoho.org>; Chris Shaneyfelt <ccshaneyfelt@randolph.in.gov>; rfrazee@co.jay.in.us; Adams Township (Brewer, David) <foxpen1@gmail.com>; Ansonia (Welbaum, Tom) <Admin@ansoniahio.us>; Ben Vollrath <benjamin.vollrath@aes.com>; Beth Davenport <bethd@darkerec.com>; Chad Beanblossom <cbeanblossom@edisonohio.edu>; Chad Henry <chenry@cityofgreenville.org>; Christina Chalmers <cchalmers@aimmediamidwest.com>; Darke County/Butler Twp (Yount, Curtis) <cyount@co.darke.oh.us>; Dave Keiser <dkeiser@littmanthomas.com>; Dennis Wein <dennis.wein@darkecountyhealth.org>; Gary Evans <gevans@cityofgreenville.org>; Greenville Township (Hines, Justin) <hinesjustin@hotmail.com>; Hollansburg (Harrison, Matt) <firem73@yahoo.com>; James A. Schaar <linwood2011@roadrunner.com>; Jeff Subler <Jeffrey.Subler@waynehealthcare.org>; Jim Surber <dce@earthlink.net>; John Keller <jkeller@kellergrain.com>; Krista Fourman <kfourman@co.darke.oh.us>; Kurt Troutwine <ktroutwine@woh.rr.com>; Kurt Troutwine <kurt@troutwine-ins.com>; Kyle Francis <kylefrancis@versaillesohio.cc>; Lynne Gump <Lynne.Gump@redcross.org>; Mark Whittaker <mwhittaker@darkecountysheriff.org>; Robert Davis <robert.davis@dot.ohio.gov>; Roger Van Frank <rvmf@darkecountyparks.org>; Russ Thompson <rthompson@cityofgreenville.org>; Sam Custer <custer.2@osu.edu>; Steve Wenning <swenning@woh.rr.com>; Ted Holsapple <tholsapple@darkerec.com>; Versailles (Hale, Rodd) <roddhale@versaillesohio.cc>

Cc: Mindy Saylor <mindy@darkecountyema.org>; Ken Johnson <lepc@darkecountyema.org>; 'Mike Henderson' <mhenderson@moteassociates.com>; Mary Kester <mkester@moteassociates.com>

Subject: 2018 Mitigation Plan Update Review

Good Afternoon,

The Darke County Hazard Mitigation Committee has completed the Hazard Mitigation 5 Year Planning Process. A series of four planning meetings were held between December 2017 and April 2018. Darke County is required by the Federal Emergency Management Agency to review and revise its plan to reflect progress in local mitigation efforts and changes in priorities in order to continue to be eligible for mitigation project grant funding. The purpose of hazard mitigation planning is to reduce or eliminate the long-term risk to human life and property from hazards. It has been demonstrated that hazard mitigation is most effective when based on an inclusive, comprehensive, long-term plan that is developed before a disaster occurs.

The initial draft of the 2018 Plan Updates can be reviewed online after October 4, 2018. The draft is posted under the news tab on the mydarkecounty.com website at <http://mydarkecounty.com/hazard-mitigation-plan-darke-county/> or can be viewed at the Darke County Emergency Management office located at 5183 County Home Road. Please call 937-548-1444 to schedule an appointment to review the initial draft of the 2018 Plan Updates. Comments, suggestions or questions regarding the plan updates are encouraged. Comments or questions can be submitted or emailed to the Darke County EMA at the following email addresses: mindy@darkecountyema.org or josh@darkecountyema.org. Comments, suggestions or questions will be accepted by the Darke County Hazard Mitigation Committee through October 19, 2018.

Thanks,

Josh Haney

**Emergency Management Specialist
Darke County Office of Homeland Security & Emergency Management
5183 County Home Road
Greenville, OH 45331
(937)548-1444 - Office
(937)547-4617 - Fax
(937)533-8181 - Cell**

Total Control Panel

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To: mcain@co.wayne.in.us

Message Score: 55

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My Spam Blocking Level: Medium

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A-2



Darke County Ohio
Office of Homeland Security & Emergency Management

5183 County Home Road
Greenville Ohio 45331
937-548-1444
937-547-4617 (fax)
24 hr Emergency # 937-548-2020
www.darkecountyema.org

Mindy Saylor, Director
Josh Haney, EM Specialist

RE: Darke County Hazard Mitigation Planning

To: Hazard Mitigation Team Members and Invitees:

We invite you to participate in serving on the Darke County Hazard Mitigation Team to help facilitate the process of updating Darke County's Hazard Mitigation Plan. Should you not be able to participate we encourage another representative from your community or agency to join us. Darke County was awarded a Planning Grant through the Ohio EMA and FEMA for the purpose of updating Darke County's current mitigation plan. The Darke County EMA has contracted with Mote & Associates, Inc. to assist with the 5-year plan updates. Mike Henderson of Mote & Associates, Inc. will be our project coordinator.

Our initial kick-off meeting is scheduled for **10:00 A.M., Tuesday, December 5, 2017**, to be held at the Darke County EMA Training Room located at 5183 County Home Road. This meeting will last approximately one hour and will outline the mitigation planning steps required to complete our plan updates. At that time, we will determine future meeting dates and times. Our goal is to have the updates completed and submitted to the Ohio EMA by June 2018.

We look forward to seeing you on December 5, 2017 at 10:00 A.M.

Mindy Saylor, Director
Darke County Office of Homeland Security and Emergency Management

T. E. A. M.
"Together Everyone Accomplishes More"



Darke County Ohio
Office of Homeland Security & Emergency Management

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Mindy Saylor, Director
Josh Haney, EM Specialist

November 17, 2017

Mr. Troy Anderson, Director
Auglaize County Emergency Management
209 S. Blackhoof Street, Room 206
Wapakoneta, Ohio 45895

Dear Mr. Anderson:

The Darke County Hazard Mitigation Committee is preparing the 5-year plan updates for the Darke County Hazard Mitigation Plan. We invite neighboring counties, communities, and agencies involved in hazard mitigation activities the opportunity to be involved in the Darke County Hazard Mitigation planning process. You are welcome to attend the Planning Updates Kickoff meeting to be held on Tuesday, December 5, 2017, at 10:00 A.M. at the EMA Office. Future planning dates will be determined at that meeting. Your input and comments are appreciated. When the plan is completed it can be viewed by going to the Darke County EMA website – www.darkecountyema.org. It is anticipated the draft plan will be posted on the website sometime during the month of May 2018. If you have any questions or comments, please do not hesitate to contact me. My contact information is below.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



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Mindy Saylor, Director
Josh Haney, EM Specialist

November 17, 2017

Mr. Mike Robbins, Director
Mercer County Emergency Management
321 Riley Street
Celina, Ohio 45822

Dear Mr. Robbins:

The Darke County Hazard Mitigation Committee is preparing the 5-year plan updates for the Darke County Hazard Mitigation Plan. We invite neighboring counties, communities, and agencies involved in hazard mitigation activities the opportunity to be involved in the Darke County Hazard Mitigation planning process. You are welcome to attend the Planning Updates Kickoff meeting to be held on Tuesday, December 5, 2017, at 10:00 A.M. at the EMA Office. Future planning dates will be determined at that meeting. Your input and comments are appreciated. When the plan is completed it can be viewed by going to the Darke County EMA website – www.darkecountyema.org. It is anticipated the draft plan will be posted on the website sometime during the month of May 2018. If you have any questions or comments, please do not hesitate to contact me. My contact information is below.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



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Mindy Saylor, Director
Josh Haney, EM Specialist

November 17, 2017

Mr. Kenneth Artz, Director
Miami County Emergency Management
510 W. Water St.
Troy, Ohio 45373

Dear Mr. Artz:

The Darke County Hazard Mitigation Committee is preparing the 5-year plan updates for the Darke County Hazard Mitigation Plan. We invite neighboring counties, communities, and agencies involved in hazard mitigation activities the opportunity to be involved in the Darke County Hazard Mitigation planning process. You are welcome to attend the Planning Updates Kickoff meeting to be held on Tuesday, December 5, 2017, at 10:00 A.M. at the EMA Office. Future planning dates will be determined at that meeting. Your input and comments are appreciated. When the plan is completed it can be viewed by going to the Darke County EMA website – www.darkecountyema.org. It is anticipated the draft plan will be posted on the website sometime during the month of May 2018. If you have any questions or comments, please do not hesitate to contact me. My contact information is below.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



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Mindy Saylor, Director
Josh Haney, EM Specialist

November 17, 2017

Mr. Jeffrey Jordan, Director
Montgomery County Office of Emergency Management
117 South Main Street, Suite 721
Dayton, Ohio 45422

Dear Mr. Jordan:

The Darke County Hazard Mitigation Committee is preparing the 5-year plan updates for the Darke County Hazard Mitigation Plan. We invite neighboring counties, communities, and agencies involved in hazard mitigation activities the opportunity to be involved in the Darke County Hazard Mitigation planning process. You are welcome to attend the Planning Updates Kickoff meeting to be held on Tuesday, December 5, 2017, at 10:00 A.M. at the EMA Office. Future planning dates will be determined at that meeting. Your input and comments are appreciated. When the plan is completed it can be viewed by going to the Darke County EMA website – www.darkecountyema.org. It is anticipated the draft plan will be posted on the website sometime during the month of May 2018. If you have any questions or comments, please do not hesitate to contact me. My contact information is below.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



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Mindy Saylor, Director
Josh Haney, EM Specialist

November 17, 2017

Mr. David Anderson, Director
Preble County Office of Homeland
Security & Emergency Management
6818 U.S. 127 North
Eaton, Ohio 45320

Dear Mr. Anderson:

The Darke County Hazard Mitigation Committee is preparing the 5-year plan updates for the Darke County Hazard Mitigation Plan. We invite neighboring counties, communities, and agencies involved in hazard mitigation activities the opportunity to be involved in the Darke County Hazard Mitigation planning process. You are welcome to attend the Planning Updates Kickoff meeting to be held on Tuesday, December 5, 2017, at 10:00 A.M. at the EMA Office. Future planning dates will be determined at that meeting. Your input and comments are appreciated. When the plan is completed it can be viewed by going to the Darke County EMA website – www.darkecountyema.org. It is anticipated the draft plan will be posted on the website sometime during the month of May 2018. If you have any questions or comments, please do not hesitate to contact me. My contact information is below.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



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Mindy Saylor, Director
Josh Haney, EM Specialist

November 17, 2017

Ms. Cheri Drinkwine, Director
Shelby County Emergency Management
800 Fair Road
Sidney, Ohio 45365

Dear Ms. Drinkwine:

The Darke County Hazard Mitigation Committee is preparing the 5-year plan updates for the Darke County Hazard Mitigation Plan. We invite neighboring counties, communities, and agencies involved in hazard mitigation activities the opportunity to be involved in the Darke County Hazard Mitigation planning process. You are welcome to attend the Planning Updates Kickoff meeting to be held on Tuesday, December 5, 2017, at 10:00 A.M. at the EMA Office. Future planning dates will be determined at that meeting. Your input and comments are appreciated. When the plan is completed it can be viewed by going to the Darke County EMA website – www.darkecountyema.org. It is anticipated the draft plan will be posted on the website sometime during the month of May 2018. If you have any questions or comments, please do not hesitate to contact me. My contact information is below.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org

A-3



Darke County Ohio
Office of Homeland Security & Emergency Management

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Rick Lee
Village of Ansonia
202 North Main Street
P.O. Box 607
Ansonia, Ohio 45303

Dear Mayor Lee:

The Darke County Emergency Management Agency is in the process of completing the 5-year update to the Darke County Multi-Jurisdictional Hazard Mitigation Plan.

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Please respond no later than Friday, April 27, 2018.

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Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



Darke County Ohio
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5183 County Home Road
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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mr. Bill Kessler
Village Administrator
Village of Arcanum
1 Pop Rite Dr., PO Box 398
Arcanum, Ohio 45304

Dear Mr. Kessler:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Judith Foureman
Village of Arcanum
1 Pop Rite Dr., PO Box 398
Arcanum, Ohio 45304

Dear Mayor Foureman:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Donald Stump
Village of Bradford
115 North Miami Avenue
Bradford, Ohio 45308

Dear Mayor Stump:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mr. Rick Looker
Village Administrator
Village of Bradford
115 North Miami Avenue
Bradford, Ohio 45308

Dear Mr. Looker:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Joe Stammen
Village of Burkettsville
PO Box 53
Burkettsville, Ohio 45310

Dear Mayor Stammen:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor William Collins
Village of Castine
133 South Main Street
Castine, Ohio 45304

Dear Mayor Collins:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Jason Lance
Village of Gettysburg
216 High Street
P.O. Box 345
Gettysburg, Ohio 45328

Dear Mayor Lance:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor John Gross
Village of Gordon
300 Center Street
Arcanum, Ohio 45304

Dear Mayor Gross:

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Date & Time: Wednesday, March 21, 2018, 10:00 a.m. - Regular Monthly Meeting
Location: Darke County EMA, 5183 County Home Road, Greenville, OH 45331

Date & Time: Wednesday, April 25, 2018, 10:00 a.m. – Special Meeting
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Please do not hesitate to contact me at the Darke County Emergency Management Agency should you have any questions or would like additional information. We look forward to serving Darke County in preparing these Plan updates and we encourage your community's participation.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



Darke County Ohio
Office of Homeland Security & Emergency Management

5183 County Home Road
Greenville Ohio 45331
937-548-1444
937-547-4617 (fax)
24 hr Emergency # 937-548-2020
www.darkecountyema.org

Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mr. Curt Garrison
Service Director
City of Greenville
Municipal Building
100 Public Square
Greenville, Ohio 45331

Dear Mr. Garrison:

The Darke County Emergency Management Agency is in the process of completing the 5-year update to the Darke County Multi-Jurisdictional Hazard Mitigation Plan.

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Steve Willman
City of Greenville
Municipal Building
100 Public Square
Greenville, Ohio 45331

Dear Mayor Willman:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Matt Harrison
Village of Hollansburg
112 E. Union St., PO Box 73
Hollansburg, Ohio 45332

Dear Mayor Harrison:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Tamara R. Wilcox
Clerk/Treasurer
Village of Hollansburg
112 E. Union Street
P.O. Box 73
Hollansburg, Ohio 45332

Dear Ms. Wilcox:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor David Peterson
Village of Ithaca
611 Main Street
P.O. Box 131
Arcanum, Ohio 45304

Dear Mayor Peterson:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Lisa Garland
Village of New Madison
124 S. Harrison Street
P.O. Box 15
New Madison, Ohio 45346

Dear Mayor Garland:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Brad Birt
Village of New Weston
411 Main Street
P.O. Box 2-A
New Weston, Ohio 45348

Dear Mayor Birt:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Carolyn Wilker
Fiscal Officer
Village of North Star
P.O. Box 87
North Star, Ohio 45350

Dear Ms. Wilker:

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24 hr Emergency # 937-548-2020
www.darkecountyema.org

Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Travis Wilker
Village of North Star
P.O. Box 87
North Star, Ohio 45350

Dear Mayor Wilker:

The Darke County Emergency Management Agency is in the process of completing the 5-year update to the Darke County Multi-Jurisdictional Hazard Mitigation Plan.

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Please respond with your community's action item updates by mailing, faxing, or e-mailing to the Darke County Emergency Management Agency, Attn: Ms. Mindy Saylor, 5183 County Home Road, Greenville, Ohio 45331; Fax: 937-547-4617; E-mail: mindy@darkecountyema.org.

Please respond no later than Friday, April 27, 2018.

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Public Hazard Mitigation Planning Meeting:

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Location: Darke County EMA, 5183 County Home Road, Greenville, OH 45331

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Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Mary Albers
Clerk/Treasurer
Village of Osgood
P.O. Box 177
Osgood, Ohio 45351

Dear Ms. Albers:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Steven Winner
Village of Osgood
P.O. Box 177
Osgood, Ohio 45351

Dear Mayor Winner:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor David A. Brewer
Village of Palestine
P.O. Box B
Palestine, Ohio 45352

Dear Mayor Brewer:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Karen Stubbs
Fiscal Officer
Village of Pittsburg
Town Hall
100 Lumber St., P.O. Box 247
Pittsburg, Ohio 45358

Dear Ms. Stubbs:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Michael Wolf
Village of Pittsburg
Town Hall
100 Lumber St., P.O. Box 247
Pittsburg, Ohio 45358

Dear Mayor Wolf:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Julie Kimmel
Fiscal Officer
Village of Rossburg
200 West Main Street
P.O. Box 94
Rossburg, Ohio 45362

Dear Ms. Kimmel:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Danny Howe
Village of Rossburg
200 West Main Street
P.O. Box 94
Rossburg, Ohio 45362

Dear Mayor Howe:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Karen Stubbs
Fiscal Officer
Village of Union City, Ohio
401 East Elm Street
Union City, Ohio 45390

Dear Ms. Stubbs:

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Please respond with your community's action item updates by mailing, faxing, or e-mailing to the Darke County Emergency Management Agency, Attn: Ms. Mindy Saylor, 5183 County Home Road, Greenville, Ohio 45331; Fax: 937-547-4617; E-mail: mindy@darkecountyema.org.

Please respond no later than Friday, April 27, 2018.

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Please do not hesitate to contact me at the Darke County Emergency Management Agency should you have any questions or would like additional information. We look forward to serving Darke County in preparing these Plan updates and we encourage your community's participation.

Sincerely,

Mindy Saylor

Mindy Saylor, Director
Darke County Office of Emergency Management
5183 County Home Road
Greenville, OH 45331
937-548-1444
email: mindy@darkecountyema.org
website: www.darkecountyema.org



Darke County Ohio
Office of Homeland Security & Emergency Management

5183 County Home Road
Greenville Ohio 45331
937-548-1444
937-547-4617 (fax)
24 hr Emergency # 937-548-2020
www.darkecountyema.org

Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Zachary Pruitt
Village of Union City, Ohio
401 East Elm Street
Union City, Ohio 45390

Dear Mayor Pruitt:

The Darke County Emergency Management Agency is in the process of completing the 5-year update to the Darke County Multi-Jurisdictional Hazard Mitigation Plan.

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www.darkecountyema.org

Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Jeffrey A. Subler
Village of Versailles
P.O. Box 288
Versailles, Ohio 45380

Dear Mayor Subler:

The Darke County Emergency Management Agency is in the process of completing the 5-year update to the Darke County Multi-Jurisdictional Hazard Mitigation Plan.

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mr. Rodd Hale
Village Administrator
Village of Versailles
P.O. Box 288
Versailles, Ohio 45380

Dear Mr. Hale:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Ms. Deborah Gehle
Clerk/Treasurer
Village of Yorkshire
116 W. Main Street
Yorkshire, Ohio 45388

Dear Ms. Gehle:

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Mindy Saylor, Director
Josh Haney, EM Specialist

March 14, 2018

Mayor Kenneth Subler
Village of Yorkshire
116 W. Main Street
Yorkshire, Ohio 45388

Dear Mayor Subler:

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Darke County Office of Emergency Management
5183 County Home Road
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website: www.darkecountyema.org

**Darke County Hazards Mitigation
Risk Assessment Update
Essential Facilities/Infrastructure Reporting Form**

Please complete the following form for any new critical facility added to your community after 2011. (Critical facilities include water/wastewater treatment plants, hospitals, communication facilities, emergency operations centers, or other facilities deemed critical for the well being of the community). Please make additional copies of this form as needed.

Name of Critical Facility or Essential Infrastructure: _____

Address of Facility: _____

Type of Facility: _____

Size of Facility: _____
(square footage/acreage)

Population of the Facility: _____

Property Replacement Cost: _____

Does this facility have emergency generator backup power? Yes _____ No _____

If yes, capacity: _____ (kilowatts)

Facility Contact Person: _____

Phone: _____ **Email:** _____

Mitigation Needs:

Identify any other public infrastructure needs or drainage or flooding issues that could benefit from mitigation activities:

(Example: occupancies that could have persons with limited mobility or language barriers such as a health care facility)

Additional Comments: _____

Note: Vital infrastructure without specific addresses such as critical highways, pipelines, railroads, etc. may be highlighted and identified on a county or community map.

A-4

DAKOTA HAZARD MITIGATION PLANNING

2012

Red River Valley Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2012 Hazard Mitigation Plan Updates.

Does your community have any projects and/or future concerns that need addressing?

NO

Has your community made any improvements to any critical facilities since 2012 such as schools, fire stations, water/wastewater facilities, food, or power substations, etc?

NO

Name of community: _____
Address: _____
City: _____
State: _____
Zip: _____

For more information, please contact the committee at info@darkco.intvma.org.

Name: PALESTINE
Title: Assistant Mayor
Address: _____

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes No

Explanation: WHEN WE GET HEAVY RAIN, WE HAVE HAD ISSUES WITH
RECEIVER BACKING UP @ US 127 (SOUTH OF DAVIS CAMPER SALES) SEE PHOTO 1.
BOTH SIDES BACK UP TO FIELD and HAVE STANDING WATER in YARDS
ON BOTH EAST and WEST SIDE OF US 127. ALSO ATTACHED ROBER WINNER
THEORY on WHY THIS IS HAPPENING

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes No

Explanation: WE HAVE ADDED the NEW FIREHOUSE. THIS IS NOT OWNED
OR OPERATED BY the VILLAGE.

Please return to: Darke County EMA
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5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

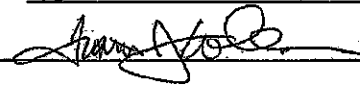
Village of NORTH STAR
Signed 
Title MAYOR

PHOTO 1

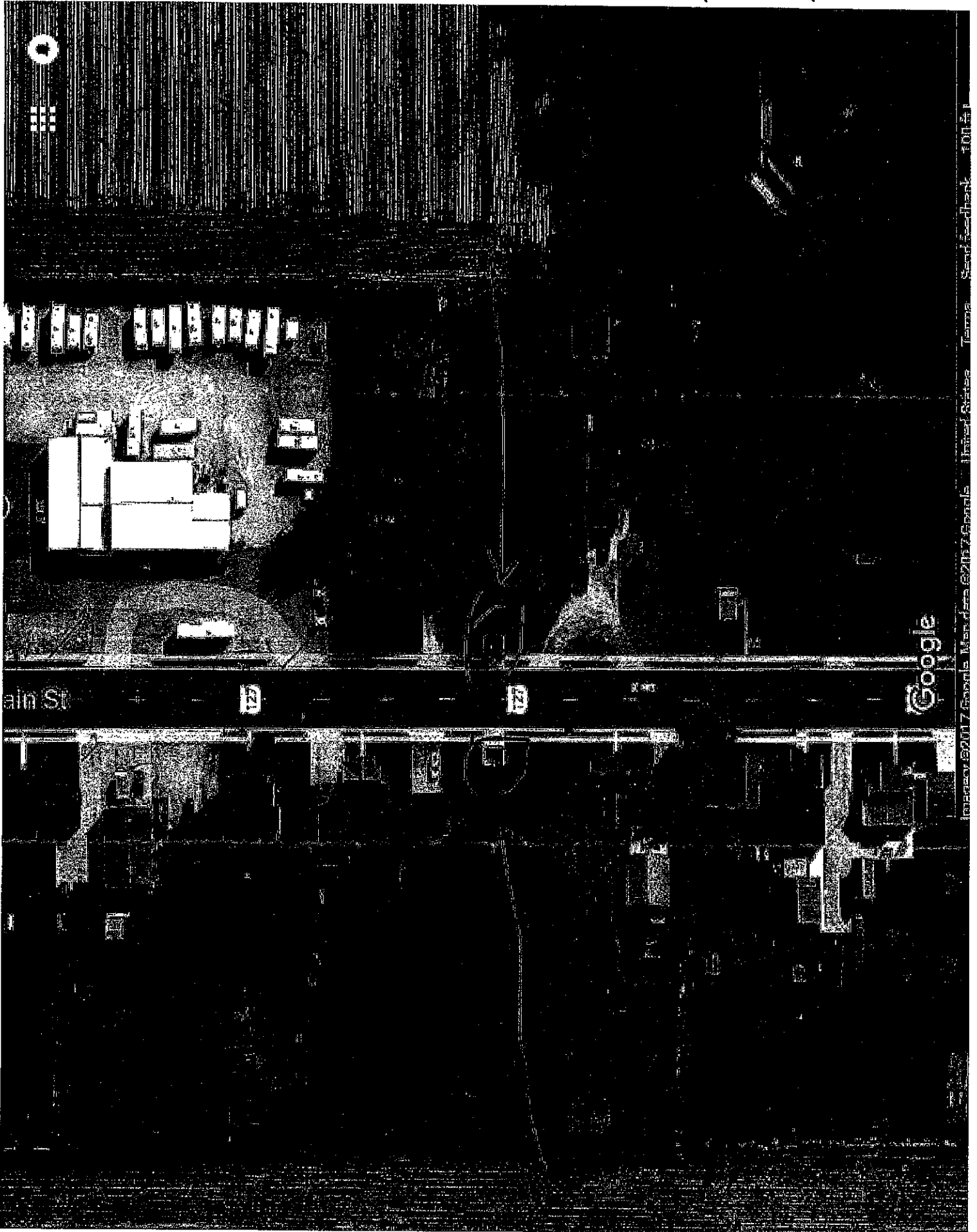


Image 19017 Google Maps 2007 © Google, United States, Terra Sat, Earth 1014

ROGER WINNER THEORY

Attached is Google Earth pdf of North Star, and also a printed one with a water way shown in black sharpie.

Roger Winner was just here at the store, and asked to discuss with the town to have a ditch cleaned out. Wasn't sure what he meant, so he showed me on Google Earth. In my print of the waterway, I have the ditch in question circled. According to him, the water thru the 24" tile that was installed is not getting into the creek and is getting backed up, all the way to town, because it can't get into the creek. He said there is serious debris built up in the creek, and the tile is way below the water level. Over time, debris has built up in this area of the creek, and he believes this is where the whole problems lies. He thinks that creek ditch needs dredged out and the sludge removed, and then the water will flow freely out the tile in the ditch and eliminate the water problem in town.

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes X No _____

Explanation: Greenville City Park - City needs to replace
various back-flap preventers

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes X No _____

Explanation: K-8 facility on Ohio

Please return to: Darke County EMA
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5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

City
Village of Greenville
Signed [Signature]
Title Director of Safety & Service

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes

No _____

Explanation: sewage - also always
making improvements to Fire Dept.

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyma.org or Josh Haney at josh@darkecountyma.org.

Village of Osgood
Signed Steve Wynn
Title Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes No

Explanation: HARVEST FIELD

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes No

Explanation: WWT P

FINISH SEWER SEPARATION

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyma.org or Josh Haney at josh@darkecountyma.org.

Village of ARCADIA
Signed Bill West
Title V.A.

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes

No

Explanation: AT THE END OF CUCUMBER LAKE GOING INTO ESS LAKE THE WATER WON'T DRAIN PROPERLY BECAUSE OF A POORLY CONSTRUCTED DRAIN UNDER THE ROAD

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes

No

Explanation: WE HAVE A PER BEING MADE FOR A SPWER SYSTEM PROJECT TO START ASAP

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5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyma.org or Josh Haney at josh@darkecountyma.org.

Village of WAYNE LAKES
Signed Glen Bann
Title MAYOR

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes X No _____

Explanation: STORM DRAINS BACKUP CAUSING SOME
STREETS TO FLOOD, PARKS AND THE PARK, A FEW
HOUSES ON MIDDLE LANE TO GET WATER INTO THE GARAGES

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____ No X

Explanation: _____

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5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of PITTSBURG
Signed [Signature]
Title Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes No

Explanation: The Stillwater river running thru town needs to be cleaned out. This would create better flow for high waters.

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes No

Explanation: _____

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Village of Ansonia
Signed Tom Welbourn
Title Village Administrator

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes

No _____

Explanation: sewer lines - relined

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Union City

Signed Karen Stubbs

Title VA/Fiscal Officer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes

No _____

Explanation: Upgrades to water plant, electric substations, and electric system in general

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Versailles

Signed David Hale

Title Village Administrator

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes X

No _____

Explanation: New Wastewater Plant in 2013, New Water Treatment Plant constructed in 2017, Updates Fire Department 2018.

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Bradford
Signed Don Stuy
Title Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Yorkshire
Signed Kenneth A. Saylor
Title Mayer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes

No

Explanation: Some Flooding Issues.

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes

No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Rossburg

Signed Don Howe

Title Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes No

Explanation: The Stillwater river running thru town needs to be cleaned out. This would create better flow for high waters.

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes No

Explanation: Added a generator to main lift station.

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Ansonia
Signed Tom Welbourn
Title Village Administrator

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____ No No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____ No No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyma.org or Josh Haney at josh@darkecountyma.org.

Village of New Weston
Signed Brad Birt
Title Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation:

n/a

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes

No _____

Explanation:

Upgrade to the electrical system at the water plant. Also added a generator.

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of

New Madison

Signed

Morgan L. Sulliboy

Title

Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Ithaca

Signed David Peterson

Title Mayor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Gettysburg

Signed Jesse J. Berry

Title Fiscal Officer/Village Administrator

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No _____

Explanation: Every year the creek floods more and more to the point where it is almost to houses.

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No _____

Explanation: We have a 1 mil levy (around \$800) that goes to New Madison Fire dept.

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyma.org or Josh Haney at josh@darkecountyma.org.

Village of
_____ Castine _____

Signed _____

Title _____ President _____

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X _____

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X _____

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Buckettsville, Ohio
Signed [Signature]
Title Clerk/Treasurer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes ___

No ___

Explanation: The answer to your question is not as clear cut as you might think. In the spring we did deal with many of our streets flooding. We cleaned out all of the storm drains and this seem to mitigate the issue. It was in fact record breaking rainfall at that time and we have had no other issues of consequence since.

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes ___

No ___

Explanation: We have made some repairs to storm drain tiles as needed. _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Gordon
Signed Jeffery A. Yantis
Title Council Member

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your ^{TOWNSHIP} Community have any ongoing flooding issues or concerns that need addressed?

Yes X No _____

Explanation: AFTER HEAVY RAINS SWAMP CREEK GOES
OUT OF BANKS AND AFFECTS LONG RD,
MURPHY RD AND PITSENBERGER RD

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____ No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

~~Village of~~ WAYNE TOWNSHIP
Signed Dennis Molar
Title PRESIDENT

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Neave Twp.

Signed Keith D. Dodson

Title Chairman

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Sup. Patterson
village of _____
Signed Kathleen Bishop
Title Fiscal officer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Harrison Township, Darke
Signed Cathy McKee
Title Fiscal Officer

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes No

Explanation: Current excessive rain events have caused localized flooding on roads, but we are dealing with the issues.

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountvema.org or Josh Haney at josh@darkecountvema.org.

Village of Butter Township Darke Co.
Signed Carter Young
Title Trustee

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes X No _____

Explanation: Farm land seems to be flooding more frequently do to a couple of issues, seems to be heavier rain events and a lot of older Main tiles to drain land are breaking down. With the high cost of fixing & replacing a lot of them are not being replaced thus creating more flooding & ponding within the community

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____ No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountvema.org or Josh Haney at josh@darkecountvema.org.

Twp. _____
Village of Vaa Buren
Signed Kent Thompson
Title Fiscal Officer

Josh Haney

From: Mindy Saylor <mindy@darkecountyema.org>
Sent: Wednesday, June 27, 2018 11:52 AM
To: Joshua Haney
Subject: FW: Emailing: Darke County Hazard Mitigation Planning
Attachments: Darke County Hazard Mitigation Planning.pdf

Mindy Saylor, Director
Darke County Office of Homeland Security & Emergency Management
937-548-1444

From: Kent [mailto:ketsat9@gmail.com]
Sent: Wednesday, June 27, 2018 11:15 AM
To: Mindy Saylor <mindy@darkecountyema.org>
Subject: Emailing: Darke County Hazard Mitigation Planning

Mindy,

The issue I have addressed in above email is a long range problem that will continue to compound as time goes on. The cost to replace our(private, county & state) aging tile drainage systems will have to be addressed at some point in time.

The cost will be and is "HUGE" to replace older systems. Some type of assistance to property owners will be needed. Years ago the USDA had some programs to assist farmers with tile drainage but no longer assist. The cost to put in 4" laterals is expensive enough but to put in 18", 20", 24", 30", etc. mains are very costly but without the main tile to the creeks and rivers to laterals don't do much good.

Also flooding is becoming more prevalent because our creeks, tributaries, and rivers are filling in with silt from area land that washes away with the flooding. No till farming has helped the erosion of soil but now we have more erosion of crop residue that plugs are outlets in creeks, tributaries and rivers. More dredging of creeks, tributaries and rivers is needed.

Needless to say this is and will be an ongoing "PROBLEM".

I've bent your ear long enough.

Thanks,
Kent Thompson
Van Buren Twp.
Fiscal Officer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

TWP
Village of LIBERTY
Signed [Signature]
Title FISCAL OFFICER

Josh Haney

From: Dawn Oswalt <doswalt77@yahoo.com>
Sent: Friday, June 29, 2018 1:11 PM
To: mindy@darkecountyema.org
Cc: Josh Haney
Subject: Hazard Mitigation Plan Update

Monroe Township / Darke County

Question 1 -flooding issues
Answer 1 - No

Question 2 - improvements to critical facilities since 2012
Answer 2 - Yes - Village of Pitsburg Sewer
Yes - the new Franklin Monroe School Building

Thanks, Dawn Oswalt



Virus-free. www.avg.com

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No _____

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No _____

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of _____

Signed _____

Title _____

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____ No

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____ No

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Allen Twp.
Signed Patricia Kaiser
Title Fiscal Officer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountvema.org or Josh Haney at josh@darkecountvema.org.

Village of Richland Township
Signed Joshua Lee Goodpastor, P.E.
Title Township Councilor

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes No

Explanation: ¹⁾ Ansonia-Eloy Rd. BETWEEN BEAM & St. Rt. 119 ²⁾ DuVal Rd.
³⁾ Wood Rd. ⁴⁾ White Coppers BETWEEN St Rt. 118 and DUNCAN

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes No

Explanation: WE HAVE NONE

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Township Brown
Village of Brown
Signed: Eel Hugg Jr.
Title Chairman FOR BOARD OF TRUSTEES
Brown Twp.

Thank you
EAM

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No _____

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No _____

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyema.org or Josh Haney at josh@darkecountyema.org.

Village of Lwin Township
Signed Deborah Depner
Title Fiscal Officer

DARKE CO. HAZARD MITIGATION PLANNING

2018

The Darke County Hazard Mitigation Planning Committee requests your assistance in providing the following information to finalize the 2018 Hazard Mitigation Plan Updates.

1.) Does your Community have any ongoing flooding issues or concerns that need addressed?

Yes _____

No X _____

Explanation: _____

2.) Has your Community added or made improvements to any critical facilities since 2012 such as police, fire or rescue stations, water or wastewater facilities, schools, or power substations, etc.?

Yes _____

No X _____

Explanation: _____

Please return to: Darke County EMA
Attn: Mindy Saylor/Josh Haney
5183 County Home Rd.
Greenville, OH 45331

Or email to Mindy Saylor at mindy@darkecountyma.org or Josh Haney at josh@darkecountyma.org.

Village of Adams Township

Signed Chanty Hutt

Title Fiscal officer

A-5

Committee meets again to discuss county 5-year hazard plan

35°

1:25 pm EDT

Mostly sunny

NEWS ([HTTP://WWW.DAILYADVOCATE.COM/CATEGORY/NEWS](http://www.dailyadvocate.com/category/news))

(<http://dailyadvocate.com/weather>)

By Erik Martin - emartin@dailyadvocate.com

Francis FURNITURE 1419 Wagner Ave.
Granville, Ohio 43031
Visit us at www.francisfurniture.net 937-547-0205

DARKE COUNTY — On Wednesday, the Darke

County Emergency Management Agency's (EMA) Hazard Mitigation Committee conducted its second meeting, with the purpose of reviewing and updating the county's 5-year plan for submission to state and federal agencies in order to obtain grants.

The focus of Wednesday's meeting was to answer the question: "What has changed in the last five years?"

Mike Henderson of Mote and Associates scrolled through elements of the existing plan, which was last revised by the committee in 2011. He presented to committee members a current profile of Darke County, including its population, its agriculture, and its industries.

Darke County Commissioner Mike Rhoades took issue with the estimated county population figures, which showed a declining number of people, saying that people were not fully participating in the federal census.

"There's old guys saying 'I'm not going to let [the government] know what I'm doing,'" he said.

"They're not filling out the census reports. That needs to be made public as it has a bearing on what kind of revenue we get back in for disaster plans."

Participants largely agreed the county's industrial and business bases have expanded since the last 5-year plan was written, pointing out both the establishment of new businesses and preexisting industries within the county which have expanded or have announced expansion plans.

As well, the committee provided examples of improved and new infrastructure, including road, water and sewer construction in the county since implementation of the past plan.

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Flooding is one of the most serious natural disasters which occur in the county, a fact brought home by Lonnie Miller, a New Madison farmer, whose home and fields have suffered from a series of floods. While told the committee itself has no power to provide direct relief, Henderson said it helps to have this information in hand and it may be used to gain help through disaster grants from the state and the federal government.

"We've identified similar problems out in the county," Henderson said. "Our mission here is to know about these issues so we can put them in the plan, document them, so everyone is aware there's an issue out there."

During the period from September 2012 to September 2017, Henderson said the county had 74 days in which the county suffered from some type of weather event, resulting in approximately \$386,000 in damages.

The committee's next meeting is February 14 at 10 a.m. at the Darke County EMA building. Sessions are open to the public.

 Facebook <https://www.facebook.com/darkecountyadvocate/>

The writer may be reached at 937-569-4314. Join the conversation and get updates on Facebook search Darke County Sports or Advocate 360. For more features online go to dailyadvocate.com

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WINDSHIELD REPAIR & REPLACEMENT

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Planning for catastrophe

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([HTTP://WWW.DAILYADVOCATE.COM/CATEGORY/NEWS](http://www.dailyadvocate.com/category/news)), TOP STORIES

([HTTP://WWW.DAILYADVOCATE.COM/CATEGORY/TOP-STORIES](http://www.dailyadvocate.com/category/top-stories))

County continues Hazard Mitigation Plan upgrades

By Erik Martin - emartin@dailyadvocate.com



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The Darke County Hazard Mitigation Committee continues to meet monthly, assessing natural and manmade threats to the area and their aftereffects.

Erik Martin | The Daily Advocate

DARKE COUNTY — Floods. Tornadoes. Violence. Drought. Epidemics.

While not issues we would often like to think about, they all could happen right here, and in some cases have happened, in our portion of Western Ohio.

To best prepare for the proverbial "worst case scenario," the Darke County Hazard Mitigation Committee has been gathering once a month at the Darke County Emergency Management Agency (EMA) building since December 2017, working to revise the county's existing 5-year Hazard Mitigation Plan to reflect today's threats, natural or manmade.

The plan was last updated in 2011 and will be subsequently reviewed and approved by the State of Ohio EMA and by FEMA (Federal Emergency Management Agency). The plan is aimed not only to help identify potential hazards for responding agencies, but will aid the county in obtaining state and federal grant money for recovery in the event a disaster does occur.

42°

1:26 pm EDT

Partly sunny

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According to Mike Henderson of Mote and Associates, who is heading the meetings, the committee hopes to wrap up its work within the next few months.

"The goal is to write the plan in March or April, then there will be a public comment period where we let people look at it and if there's any comments, we have them add changes before we send it on to the Ohio EMA. Then once the Ohio EMA looks at it, they may have some comments for us to cover, then it gets sent over to FEMA, then they will approve the final plan," he said.

Henderson said once the final plan has received FEMA approval, each municipality in the county, including the City of Greenville, all villages and all townships, will be asked to pass resolutions to adopt the plan.

"Without them adopting the plan, they are officially not in the plan," he said. "Once we get the final approval from FEMA, we have a year to gather up all the resolutions."

Henderson showed that from 2012 to 2017, properties within the county suffered more than \$408,000 in losses due to wind, tornadoes or floods. Yet while floods and tornadoes are the most likely disasters to strike the county's homes and businesses, the plan must also take into account potential agricultural losses from natural disasters.

Henderson showed the county's 1,693 farms have more than \$550 million in value, and a serious drought, late freeze, insect infestation or crop or animal disease could wreak havoc financially.

The increased threat of violence is also an issue being addressed in the new plan.

Darke County Sheriff's Office Chief Deputy Mark Whittaker discussed the issues his agency faces from potential acts of terrorism, primarily at large events held at places like Eldora Speedway or the Darke County Fair. He pointed to the increase in the number of attendees at such events since the

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plan was last revised.

"It takes more resources to manage and those resources are on a lot of levels," he said. "Due to increased threats of violence across the United States, it has become mandatory for first responders to spend more time planning for larger special events. We spend hours developing communications plans, evaluating, assessing."


Whittaker said deputies have begun using bomb-sniffing dogs at such heavily attended events.

"The things that have happened in the last 10 years or more in society, caused us to do a lot more things that we'd never done before," he said. "It's making us better first responders, though, I'll tell you that."

Henderson said input from the county's agencies, leaders, businesses, and especially the public is vital to making the plan as comprehensive as possible.

"The more detail we capture, the more accurate it is, not only for us in Darke County, but it is for the State of Ohio, for their plan as well," he said. "We have a role to play, not only locally, but as a state, too."

The Darke County Hazard Mitigation Plan Committee will next meet at 10 a.m. Wednesday, March 21 at the EMA building. The meetings are open to the public, and their input on this topic is encouraged.

 Facebook (<https://www.facebook.com/sharer/sharer.php?u=http://www.dailyadvocate.com/nr>)

The writer may be reached at 937-569-4314. Join the conversation and get updates on Facebook search Darke County Sports or Advocate 360. For more features online go to dailyadvocate.com



**Greenville, OH: This Unbelievable, Tiny Com
Disrupting A \$200 Billion Industry**

RECOMMENDED FOR YOU

Which is better: Showering at night or showering in the morning?

- Showering at night
- Showering in the morning
- No strong take

Oct 1 2018

Darke Co. Hazard Committee drafts plan

Public meeting scheduled Oct. 4

Staff report

DARKE COUNTY — The Darke County Hazard Mitigation Committee has completed the Hazard Mitigation Five Year Planning Process.

A series of four planning meetings were held between December 2017 and April 2018. Darke County is required by the Federal Emergency Management Agency to review and revise its plan to reflect progress in local mitigation efforts and changes in priorities in

order to continue to be eligible for mitigation project grant funding.

The purpose of hazard mitigation planning is to reduce or eliminate the long-term risk to human life and property from hazards. It has been demonstrated that hazard mitigation is most effective when based on an inclusive, comprehensive, long-term plan that is developed before a disaster occurs.

The initial draft of the 2018 Plan Updates can be reviewed online

after Oct. 4 at the Darke County Emergency Management Agency website at <https://www.darkecountyema.org/links.html> or can be viewed at the Darke County Emergency Management office located at 5183 County Home Road. Individuals can call 937-548-1444 to schedule an appointment to review the initial draft of the 2018 plan updates.

Comments, suggestions or questions regarding the plan updates are encouraged. Comments or questions can be sub-

mitted or emailed to the Darke County EMA at the following email addresses: mindy@darkecountyema.org or josh@darkecountyema.org. Comments, suggestions or questions will be accepted by the Darke County Hazard Mitigation Committee through Oct. 19.

A public meeting will be held to answer questions regarding the updated plan at 6:30 p.m. Oct. 4 at the Darke County EMA Room, 5183 County Home Road, Greenville. The public is invited to participate and attend.

5-Year Mitigation Plan meeting set

GREENVILLE — The Darke County Hazard Mitigation Committee has completed the Hazard Mitigation 5-Year Planning Process. A series of four planning meetings were held between December 2017 and April 2018. Darke County is required by the Federal Emergency Management Agency to review and revise its plan to reflect progress in local mitigation efforts and changes in priorities in order to continue to be eligible for mitigation project grant funding.

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PUBLIC NOTICE

The Village of Gettysburg is accepting bids for trash pick up for 2019.

Specifics will be detailed in bid packets.

Bid packets can be picked up at the Village Council House, 216 High St., Gettysburg, OH Monday thru Friday 8 am to 12 noon.

Sealed bids will be accepted thru Oct. 5, 2018 @ 12 noon.

Mayor, Jason Lance

LEGAL NOTICE

CITY OF GREENVILLE

On September 18, 2018, the City of Greenville, Ohio, adopted the following legislation:

- Resolution #18-91 authorize the S/S Dir. to enter into a contract with Bansal Construction, Inc.
- Ordinance #18-92 supplemental appropriations.

This legislation can be read and examined in its entirety at the office of the City Auditor, Room 200, Municipal Building, Greenville, Ohio, between the hours of 8:00 A.M. and 4:30 P.M. Monday through Thursday and 8:00 A.M. and 1:00 P.M. on Friday.

Approved:
Eric Brand, Law Director
Vicki Harris, Clerk of Council
City of Greenville
9/23, 9:30: 27

For Sale by Owner
OPEN HOUSE
Sept. 29 & 30 1pm-3pm

Check it out!

