

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1386

Adopted Date October 06, 2020

ACCEPT RESIGNATION OF GREG SQUIRE, WASTEWATER TREATMENT SYSTEMS SUPERINTENDENT, WITHIN THE WARREN COUNTY WATER AND SEWER DEPARTMENT, EFFECTIVE OCTOBER 23, 2020

BE IT RESOLVED, to accept the resignation of Greg Squire, Wastewater Treatment Systems Superintendent, within the Warren County Water and Sewer Department, effective October 23, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Water/Sewer (file)
G. Squire's Personnel File
OMB – Sue Spencer
Tammy Whitaker

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1387

Adopted Date October 06, 2020

ACCEPT RESIGNATION OF JACKSON MCDONALD, WATER TREATMENT TECHNICIAN, WITHIN THE WARREN COUNTY WATER AND SEWER DEPARTMENT, EFFECTIVE SEPTEMBER 29, 2020

BE IT RESOLVED, to accept the resignation of Jackson McDonald, Water Treatment Technician, within the Warren County Water and Sewer Department, effective September 29, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Water/Sewer (file)
J. McDonald's Personnel File
OMB – Sue Spencer
Tammy Whitaker

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1388

Adopted Date October 06, 2020

DESIGNATE FAMILY AND MEDICAL LEAVE OF ABSENCE TO CHRIS WOJNICZ WITHIN THE WATER AND SEWER DEPARTMENT

WHEREAS, it is necessary to designate a Family and Medical Leave of Absence for Chris Wojnicz; and

NOW THEREFORE BE IT RESOLVED, to designate Family and Medical Leave of Absence for Chris Wojnicz not to exceed twelve (12) weeks; pending further documentation from Mr. Wojnicz's physician.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Water and Sewer (file)
C. Wojnicz's FMLA file
OMB – Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1389

Adopted Date October 06, 2020

ACCEPT RESIGNATION OF DEWAYNE GORDON, CUSTODIAL WORKER I, WITHIN THE WARREN COUNTY FACILITIES MANAGEMENT DEPARTMENT EFFECTIVE OCTOBER 31, 2020


BE IT RESOLVED, to accept the resignation, of Dewayne Gordon, Custodial Worker I, within the Warren County Facilities Management Department effective October 31, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Facilities Management (file)
D. Gordon's Personnel File
OMB – Sue Spencer
Tammy Whitaker

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1390

Adopted Date October 06, 2020

AUTHORIZE THE POSTING FOR "CUSTODIAL WORKER I" POSITION, WITHIN THE FACILITIES MANAGEMENT DEPARTMENT, IN ACCORDANCE WITH WARREN COUNTY PERSONNEL POLICY MANUAL, SECTION 2.02(A)

WHEREAS, there exists one opening for "Custodial Worker I" position within the Facilities Management Department; and

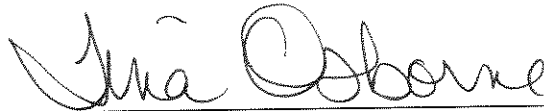
NOW THEREFORE BE IT RESOLVED, to authorize the posting of the position of "Custodial Worker I" in accordance with Warren County Personnel Policy Manual, Section 2.02(A); posting to occur for a period of at least seven (7) consecutive calendar days beginning October 1, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

HR

cc: Facilities Management (file)
OMB Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1391

Adopted Date October 06, 2020

APPROVE A PAY INCREASE FOR CORTESCIA DAVIS WITHIN THE WARREN COUNTY DEPARTMENT OF EMERGENCY SERVICES

WHEREAS, this board adopted Resolution #98-1460, October 8, 1998 adopting departmental work rules and compensation schedule for the Warren County Emergency Services and the Emergency Communications Operators; and

WHEREAS, Cortescia Davis, Emergency Communications Operator within the Warren County Emergency Services, has successfully completed three (3) years of service as a Emergency Communications Operator on October 2, 2020; and


NOW THEREFORE BE IT RESOLVED, to approve Cortescia Davis' pay increase from \$22.22 per hour to \$24.81 per hour, under the Warren County Emergency Services Schedule, effective pay period beginning October 8, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Emergency Services (File)
C. Davis' Personnel File
OMB-Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1392

Adopted Date October 06, 2020

**APPROVE A PAY INCREASE FOR SHELBY DAVIS WITHIN THE WARREN COUNTY
DEPARTMENT OF EMERGENCY SERVICES**

WHEREAS, this board adopted Resolution #98-1460, October 8, 1998 adopting departmental work rules and compensation schedule for the Warren County Emergency Services and the Emergency Communications Operators; and

WHEREAS, Shelby Davis, Emergency Communications Operator within the Warren County Emergency Services, has successfully completed three (3) years of service as a Emergency Communications Operator on October 2, 2020; and


NOW THEREFORE BE IT RESOLVED, to approve Shelby Davis' pay increase from \$22.22 per hour to \$24.81 per hour, under the Warren County Emergency Services Schedule, effective pay period beginning October 8, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Emergency Services (File)
S. Davis' Personnel File
OMB-Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1393

Adopted Date October 06, 2020

**APPROVE A PAY INCREASE FOR SARAH OLIVER WITHIN THE WARREN COUNTY
DEPARTMENT OF EMERGENCY SERVICES**

WHEREAS, this board adopted Resolution #98-1460, October 8, 1998 adopting departmental work rules and compensation schedule for the Warren County Emergency Services and the Emergency Communications Operators; and

WHEREAS, Sarah Oliver, Emergency Communications Operator within the Warren County Emergency Services, has successfully completed three (3) years of service as an Emergency Communications Operator on October 2, 2020; and

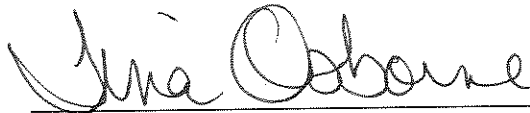
NOW THEREFORE BE IT RESOLVED, to approve Sarah Oliver's pay increase from \$22.22 per hour to \$24.81 per hour, under the Warren County Emergency Services Schedule, effective pay period beginning October 8, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Emergency Services (File)
S. Oliver's Personnel File
OMB-Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1394

Adopted Date October 06, 2020

APPOINT MICHELLE TEGTMEIER AS THE DIRECTOR OF THE BUILDING AND ZONING DEPARTMENT

WHEREAS, it is the desire of the Board of County Commissioners to appoint Michelle Tegtmeier as the director of the Building and Zoning Department; and

NOW THEREFORE BE IT RESOLVED, to appoint Michelle Tegtmeier, as the director of the Building and Zoning Department, unclassified, full-time permanent, exempt status (40 hours per week), Pay Range #C, \$2,888.47 bi-weekly, effective November 2, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Commissioners file
M. Tegtmeier's Personnel file
OMB – Sue Spencer
Building and Zoning (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1395

Adopted Date October 06, 2020

APPOINT GARY HUBBS AS THE CHIEF BUILDING OFFICIAL FOR THE BUILDING AND ZONING DEPARTMENT

WHEREAS, it is the desire of the Board of County Commissioners to appoint Gary Hubbs as the Chief Building Official, of the Building and Zoning Department; and

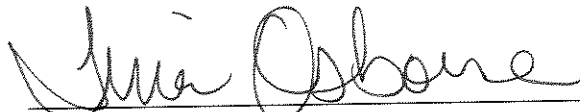
NOW THEREFORE BE IT RESOLVED, to appoint Gary Hubbs, as the Chief Building Official of the Building and Zoning Department, unclassified, full-time permanent, exempt status (40 hours per week), Pay Range #C, \$2,853.85 bi-weekly, effective November 2, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Commissioners file
G. Hubbs' Personnel file
OMB – Sue Spencer
Building and Zoning (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1396

Adopted Date October 06, 2020

APPROVE PAY INCREASE FOR RON SEMPSROTT, BUILDING AND ELECTRICAL SUPERVISOR WITHIN BUILDING AND ZONING

WHEREAS, with the new management structure established in Building and Zoning Mr. Sempsrott will be assisting with the Flood Plain Administration; and

NOW THEREFORE BE IT RESOLVED, to approve the pay increase for Ron Sempsrott, Building and Electrical Supervisor to, \$2,761.15 bi-weekly effective November 2, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

HR

cc: Building/Zoning (file)
R. Sempsrott's Personnel file
OMB – Sue Spencer

*BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO*

Resolution

Number 20-1397

Adopted Date October 06, 2020

APPROVE THE PROMOTION OF SCOTT DUNNING FROM DEPUTY DOG WARDEN I TO THE POSITION OF DEPUTY DOG WARDEN II WITHIN THE WARREN COUNTY DOG AND KENNEL

WHEREAS, Scott Dunning has completed two years of employment as a Deputy Dog Warden I; and

WHEREAS, it is the recommendation of the Dog Warden to promote Scott Dunning to Deputy Dog Warden II; and


NOW THEREFORE BE IT RESOLVED, to approve the promotion of Scott Dunning to the position of Deputy Dog Warden II within the Warren County Dog and Kennel, classified, full-time permanent, non-exempt status, Pay Range 15, at \$17.36 per hour, effective pay period beginning October 10, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Dog and Kennel (file)
S. Dunning's Personnel file
OMB – Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1398

Adopted Date October 06, 2020

AUTHORIZE THE POSTING OF "LITTER CONTROL OFFICER" POSITION, WITHIN THE SOLID WASTE DEPARTMENT

WHEREAS, there exists two openings for a "Litter Control Officer" position within the Solid Waste Department: and


NOW THEREFORE BE IT RESOLVED, to authorize the posting of the position of "Litter Control Officer" within the Solid Waste Department, in accordance with Warren County Personnel Policy Manual, Section 2.02(A); posting to occur for a period of at least seven (7) consecutive calendar days beginning October 1, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

H/R

cc: Solid Waste (file)
S. Spencer - OMB

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1399

Adopted Date October 06, 2020

APPROVE END OF 365-DAY PROBATIONARY PERIOD AND APPROVE A PAY INCREASE FOR KATHLEEN PENA WITHIN THE WARREN COUNTY DEPARTMENT OF JOB AND FAMILY SERVICES, HUMAN SERVICES DIVISION

WHEREAS, Kathleen Pena, Eligibility Referral Specialist I within the Warren County Department of Job and Family Services, Human Services Division, has successfully completed a 365-day probationary period, effective September 22, 2020; and

NOW THEREFORE BE IT RESOLVED, to approve Kathleen Pena's completion of 365-day probationary period and to approve a pay increase to end of probationary rate of \$14.90 per hour effective pay period beginning September 26, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Human Services (file)
K. Pena's Personnel File
OMB – Sue Spencer

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1400

Adopted Date October 06, 2020

CANCEL REGULARLY SCHEDULED COMMISSIONERS' MEETING OF THURSDAY
OCTOBER 8, 2020

BE IT RESOLVED, to cancel the regularly scheduled Commissioners' Meeting of Thursday,
October 8, 2020.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

/tao

cc: Auditor
Commissioners file
Press

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1401

Adopted Date October 06, 2020

**APPROVE INDEMNIFICATION AGREEMENT WITH CINCINNATI BELL TELEPHONE
RELATIVE TO USE OF POLES AND CONDUITS ON THE WARREN COUNTY
FAIRGROUNDS**

BE IT RESOLVED, to authorize the Vice President of the Board to sign and approve the indemnification agreement with Cincinnati Bell Telephone Company LLC relative to poles and conduits on the Warren County Fairgrounds; copy of said agreement attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

/tao

cc: C/A—Cincinnati Bell Telephone Company, LLC
City of Lebanon (file)
Bruce McGary

Exhibit "D"

**WARREN COUNTY
INDEMNIFICATION AGREEMENT RELATING TO USE OF
POLES AND CONDUITS ON THE WARREN COUNTY FAIRGROUNDS**

THIS INDEMNIFICATION AGREEMENT (the "Agreement"), effective on the date of execution by all parties hereto, has been entered into by WARREN COUNTY, OHIO, an Ohio political subdivision, whose contact information for all purposes herein is: Attn. Warren County Administrator, 406 Justice Drive, Lebanon, Ohio 45036, Telephone No. (513) 695-1250 (the "Indemnitee"), and Cincinnati Bell Telephone Company LLC, whose contact information for all purposes herein is Attn. Benjamin Otten, Specialist-Outside Engineer, 221 E. Fourth Street, 121-900, Cincinnati, OH 45202, Email: roadprojects@cinbell.com, Telephone No. (513) 566-8130 (the "Indemnitor").

WHEREAS, Indemnitee is the owner of several contiguous parcels of real estate that collectively total approximately 97.748 acres located at 600 N. Broadway Street, in the City of Lebanon, Warren County, Ohio, commonly known as the Warren County Fairgrounds; and,

WHEREAS, certain areas of the Warren County Fairgrounds, by virtue of certain easements or other oral or written agreements, are improved with utility poles, lines and other conduits for electric transmission and distribution to the Warren County Fairgrounds by the City of Lebanon Electric Division; and,

WHEREAS, the City of Lebanon is authorized to permit a third party utility provider, on a non-exclusive basis, to place and maintain its utility attachments to the City of Lebanon's above ground poles and underground facilities at the Warren County Fairgrounds subject to a third party utility provider entering into a City of Lebanon, Electric Division, Pole and Conduit License Agreement; and,

WHEREAS, the City of Lebanon has agreed not to approve a Pole and Conduit License Agreement for a third party utility provider to use the above ground poles and underground facilities at the Warren County Fairgrounds until the third party utility provider provides the City Director of Electric with a fully executed copy of Warren County's Indemnification Agreement Relating to Use of Poles and Conduits on the Warren County Fairgrounds.

NOW THEREFORE, as consideration for Indemnitee consenting to Indemnitor obtaining the approval of a Pole and Conduit License Agreement from the City of Lebanon, Electric Division, relating to use of poles and conduits on the Warren County Fairgrounds, Indemnitor agrees as follows:

1) Compliance

In addition to fully complying with the terms of this Agreement, Indemnitor shall fully comply with the terms of the City of Lebanon's Pole and Conduit License Agreement.

2) Indemnification

Indemnitor shall indemnify, defend and save harmless Indemnitee from and against any and all liability, loss, damage, costs, attorney fees, or expense, of whatsoever nature or character, arising out of or occasioned by any claim or any suit for damages, injunction or other relief, on account of

injury to or death of any person, or damage to any property including the loss of use thereof, or on account of interruption of Indemnitor's service to its subscribers or others, or for public charges and penalties for failure to comply with federal, state or local laws or regulations, growing out of or in connection with any act or omission, negligent or otherwise, of Indemnitor or its servants, agents or subcontractors in the attachment, operation and maintenance of Indemnitors facilities and attachment on Lebanon's poles and underground facilities at the Warren County Fairgrounds except insofar as such injury or damage is caused by the negligence of the Indemnitee and/or the City of Lebanon, or their representatives or employees.

3) Insurance

Indemnitor shall obtain and maintain at all times as Indemnitor has attachments on the City of Lebanon's above ground poles and underground facilities, a policy or policies of insurance as follows:

- (a) Commercial General liability insurance with a limit of \$3,000,000 per occurrence for bodily injury (including death) and for damage to property of any one person, and \$3,000,000 general aggregate including contractual liability for bodily injury and property damage arising out of the tort liability of another assumed in an Insured Contract.
- (b) Commercial automobile liability with a combined single limit of \$2,000,000 each accident for bodily injury and property damage covering all owned, non-owned and hired vehicles;

Indemnitor shall furnish to Indemnitee a certificate from an insurance carrier licensed, authorized or permitted to do business in the State of Ohio, evidencing that policies of insurance have been issued to Indemnitor providing for the insurance listed above and that such policies are in force and include Indemnitee as an additional insured with equivalent coverage and duty to defend as such policy or policies provide for Indemnitor with respect to liability for bodily injury or property damaged caused, in whole or in part, by Indemnitor's acts or omissions or the actors or omissions of Indemnitor's behalf. Indemnitor shall provide thirty (30) days' prior written notice to Indemnitee of any notice of cancellation of or material change to such policy or policies. Indemnitee acknowledges and agrees that the required insurance may be provided by Indemnitor being self-insured.

4) Breach

In the event Indemnitor breaches this Agreement after its effective date, Indemnitor shall promptly remove its utility line, conduit and/or all other appurtenances it placed and has been maintaining on the City's above ground or poles and underground facilities at the Warren County Fairgrounds within thirty (30) days of receipt of written notice from Indemnitee. In the event Indemnitor fails to timely comply, its utility lines, conduit and/or all other appurtenances shall be deemed a civil trespass.

5) Binding Effect

This Agreement shall inure to the benefit of and be binding upon the parties and their respective representatives, successors and assigns.

6) Counterparts

This Agreement may be executed in any number of counterparts, each of which when executed and delivered shall be an original, but all such counterparts shall constitute one and the same instrument.

7) Severability

If any provision of this Declaration is determined to be void and unenforceable by any court of competent jurisdiction, that determination shall not affect the remaining provisions of this Declaration, which shall remain in full force and effect.

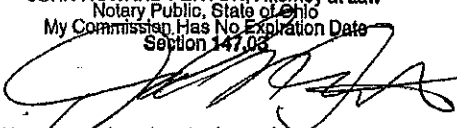
8) Interpretation, Disputes and Litigation.

This Agreement is entered into in the State of Ohio and shall be interpreted in accordance with the laws of the State of Ohio regardless of choice of law rules, and all disputes and litigation arising from this Declaration shall be brought or removed to a court of competent jurisdiction in Warren County, Ohio, unless the Parties mutually agree in writing to alternative dispute resolution.

9) Execution by Indemnitor

IN EXECUTION WHEREOF, Stephen Linde, the duly authorized agent of Indemnitor herein, has caused this Agreement to be executed on the date stated below.

JOHN HOWARD FENTON, Attorney at Law
Notary Public, State of Ohio
My Commission Has No Expiration Date
Section 147.03



SIGNATURE: _____
NAME: Stephen Linde
TITLE: Sr. Sourcing Lead
DATE: September 25, 2020

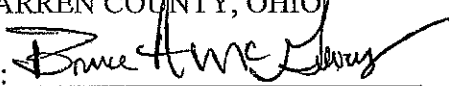
10) Execution by Indemnitee

IN EXECUTION WHEREOF, the Warren County Board of County Commissioners, the Indemnitee herein, has caused this Agreement to be executed, by Tom Grossmann, its Vice President on the date stated below, per Resolution No. 20-1401 dated 10/6/2020

SIGNATURE: _____
NAME: Tom Grossmann
TITLE: Vice President
DATE: 10/6/2020

Approved as to form by:

DAVID P. FORNSHELL
PROSECUTING ATTORNEY
WARREN COUNTY, OHIO

By: 

Assistant Prosecutor
Date: 9/29/2020

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1402

Adopted Date October 06, 2020

ACKNOWLEDGE EXECUTION BY THE COUNTY ADMINISTRATOR OF CHANGE ORDER NO 13 TO THE GUARANTEED MAXIMUM PRICE AGREEMENT WITH THE CONSTRUCTION MANAGER AT RISK GRANGER CONSTRUCTION COMPANY FOR THE NEW JAIL AND SHERIFF'S ADMINISTRATION OFFICE PROJECT ("PROJECT")

WHEREAS, pursuant to Resolution #18-0856, this Board of County Commissioners (the "Board") entered into an agreement with Granger Construction Co., Inc. (the "CMR") for preconstruction services for the Project, with the understanding that a guaranteed maximum price ("GMP") for construction of the Project was anticipated to be added to the agreement by amendment; and

WHEREAS, pursuant to Resolution #19-1094, adopted August 20, 2019, this Board authorized the County Administrator to execute the documents relative to the final Guaranteed Maximum Price; and

WHEREAS, Granger has also presented change order no13 to accommodate various changes relative to the bathroom lighting, sallyport lighting and mechanical piping; and

NOW THEREFORE BE IT RESOLVED, to acknowledge the execution of change order no 13, by the County Administrator, for an increase of \$22,572.34 to the Guaranteed Maximum Price, creating a new Guaranteed Maximum Price of \$49,411,479.00; said amendment agreement and change orders with supporting/open book pricing are attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

Tz/

cc: C/A— Granger Construction Co., Inc
Project file
Granger Construction Co. J. Woehrle

Sheriff (file)
Martin Russell/Tiffany Zindel
Facilities Management (file)



OWNER CHANGE ORDER

Granger Construction Company
1822- 00 Warren County Jail

CHANGE ORDER DATE:
09/21/2020
CHANGE ORDER #: 13

TO (CONTRACTOR): Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911

- DISTRIBUTION:
- Granger Construction Company
 - Wachtel & McAnally Architects/Planners, Inc
 - OFFICE
 - FIELD
 - OTHER

CHANGE ORDER INFORMATION

You are directed to make the following changes to this Contract:

- PCO 101 - Roof Curb Extensions
- PCO 108 - RFI 112 Bathroom Lighting Changes
- PCO 109 - RFI 137 Sallyport Lighting Changes
- PCO 110 - RFI 141 Mechanical Piping to A-17 VAV

PROJECT	ACO	DESCRIPTION	PCO TYPE	PCO	CONTRACT CHANGE
1822- 00	101	Roof Curb Extensions	PCO	101	\$6,818.04
1822- 00	108	RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms	PCO	108	\$8,060.64
1822- 00	109	RFI 137 Sallyport Lighting Changes	PCO	109	\$4,148.21
1822- 00	110	RFI 141 Mechanical Piping to VAV A-17	PCO	110	\$3,545.45

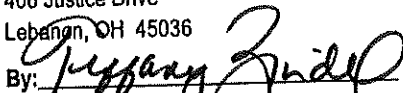
TOTAL: \$ 22,572.34

Not valid until signed by both the Owner and Architect. Signature of the Contractor indicates the Contractor's agreement herewith, including any adjustment in the Contract Sum or Contract Time.

The original Contract Sum was	\$ 49,341,225.00
The net change by previously authorized Change Orders was	\$ 47,681.66
The Contract Sum prior to this Change Order was	\$ 49,388,906.66
The Contract Sum will be increased by this Change Order	\$ 22,572.34
The new Contract Sum will be	\$ 49,411,479.00
The Contract Time will be decreased by 0 days	

AUTHORIZED BY OWNER:

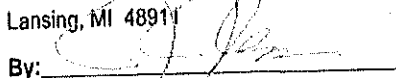
Warren County
406 Justice Drive
Lebanon, OH 45036

By: 

Date: 9-28-2020

ACCEPTED BY CONTRACTOR

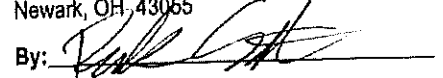
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911

By: 

Date: 09/23/2020

ARCHITECT/ENGINEER

Wachtel & McAnally Architects/Planners, Inc
35 South Park Place, Ste 350
Newark, OH, 43065

By: 

Date: 9/29/20



CHANGE ORDER REQUEST

DATE: 09/01/2020

PCO#: 101

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: Roof Curb Extensions
Proposed Scope of Work: Roof Curb Extensions

The prices below are valid until 09/10/2020.

Funding Source for Change Order:
Granger/Megen GMP: \$6,818.04
Owner Contingency: (\$6,818.04)

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : Roof Curb Extensions Bonds	New		0000610-00		\$39.17
2 : Roof Curb Extensions Sub Bond	New		0000620-00		\$65.28
Risk					
3 : Roof Curb Extensions CM Fee	New		0000092-00		\$166.29
4 : Roof Curb Extensions Insurances	New		0000620-02		\$19.58
5 : Roof Curb Extensions Triton	New		0015000-00		\$6,527.72
Total:					\$6,818.04

Submitted By:

Approved By:

Jason Woehrle

09/01/2020
Date

Tiffany Zindel
Warren County

Date



Tritonservices,inc.

8162 Duke Boulevard • Mason, OH 45040
Corporate Office: (513) 679-6800

PROJECT:
WARREN COUNTY JAIL
822 Memorial Drive
Lebanon, OH

Date: August 31, 2020

Triton Services CO No.: TBD
Re: 7" Curb Extensions for (21) Upblast Fans

Please see attached Proposed Change Order to raise the height of (21) Upblast Exhaust Fan Curbs on the roof to 20" from the prior specified height of 14" to accommodate the 11" of roofing insulation and roofing membrane.

Triton Cost: \$	6,527.72
Bond: \$	-
CO Net: \$	6,528.00

Please feel free to contact me if you have any questions, comments or concerns regarding this change order.

Cordially,

Brian Ritter
Project Manager

ESTIMATE RECAP

WARREN COUNTY JAIL				DATE: 7/17/2020	C.O.# TBD
Job Number: 194386					
DESCRIPTION OF COSTS	LABOR (Sheetmetal)			MATERIAL COSTS	
	mh's	rate	cost		
1. Equipment			\$ -		
2. Material	21	\$ 59.75	\$ 1,254.75	\$ 4,100.00	(21) Up Blast Curb Extensions Only
3. Expendables *	~	~	~	\$ 60.63	
4. Equip./tool rentals*	~	~	~		
5. Drafting/ sketching			\$ -		
6. Coordination			\$ -		
7. Foreman	2	\$ 68.95	\$ 137.90		
8. Clean-up			\$ -		
9. Warranty	~	~	\$ -		
10. Start-up / Testing			\$ -		
11. Trucking			\$ 123.00		
12. Parking / Travel	~	~	\$ -		
13. Subtotal	23 mh's		\$ 1,515.65	\$ 4,160.63	
14. Total Labor & Material:				\$ 5,676.28	
15. Subcontracts:					
16					
17					
18					
19					
20					
				Subs 5%	\$ -
22. SUBTOTAL:				\$ 5,676.28	
23. Overhead/Profit: 15%					\$ 851.44
24. Total Cost & Profits before Bonds and other cost					\$ 6,527.72
25. Bond: 0.00%					\$ -
26. Sales Tax: (* expendables and rentals taxable on public work)				private work 0.00%	public work 0.00%
				\$ -	\$ -
27. Permits:		HVAC: \$ -	Press. Piping: \$ -	Boiler: \$ -	\$ -
28. TOTAL PRICE OF CHANGE PROPOSAL:					\$ 6,528.00
29. Extension of Time due to this Change Order is:			Workdays	<input checked="" type="checkbox"/>	Deferred
30. This proposal based on:		<input checked="" type="checkbox"/> Straight Time	Overtime	<input type="checkbox"/>	Shiftwork
31. This proposal is void unless a written Change Order or written Notification to Proceed is received by: (30 calendar days if no date shown)					
32. Extended Overhead Cost:		<input type="checkbox"/> Included	<input checked="" type="checkbox"/> Deferred	<input type="checkbox"/>	N / A
COMMENTS:					

From: [Steve Forbeck](#)
To: [Brian Ritter](#)
Subject: RE: Warren County Jail: Curb Extensions for Upblast ONLY Fans
Date: Monday, August 31, 2020 3:10:38 PM
Attachments: [image001.png](#)

There are (21) upblast fans \$4,100.00

From: Brian Ritter <britter@tritonservicesinc.com>
Sent: Monday, August 31, 2020 2:59 PM
To: Steve Forbeck <steve@controlled-air.com>
Subject: Warren County Jail: Curb Extensions for Upblast ONLY Fans

Hey Steve,

Would you please break out the cost for the 25 Upblast Fans only. I have to submit back up supporting my change order.

Thanks!

BRIAN RITTER
Project Manager
Cell: 513-675-2962
Office: 513-679-6800
britter@tritonservicesinc.com





CHANGE ORDER REQUEST

DATE: 08/14/2020

PCO#: 108

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms
Proposed Scope of Work: RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms

The prices below are valid until **08/28/2020**.

Funding Source for Change Order:

Granger/Megen GMP: \$8,060.64
Owner Contingency: (\$8,060.64)

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms Bonds	New		0000610-00		\$46.30
2 : RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms Sub B	New		0000620-00		\$77.17
3 : RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms CM Fe	New		0000092-00		\$196.60
4 : RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms Insur	New		0000620-02		\$23.15
5 : RFI 112 Change R 12 to S11 Light Fixtures in Bathrooms LEE	New		0016000-00		\$7,717.42
Total:					\$8,060.64

Submitted By:

08/14/2020
Date

Approved By:

Tiffany Zindel
Warren County

Date

RFI 0112 - R12 Light Fixtures in Cell Area Bathrooms

Status: Sent to reviewer

Due Date: Apr 25, 2020

Question

Kyle Rosinski (Granger Construction) on Apr 20, 2020 at 9:20 AM EDT

Bathrooms A2-15, A6-19, B2-15, B4-07, B6-14, C2-13, C7-06, & C5-06 indicate R-12 light fixtures. These bathroom have a precast ceiling at 7' 10". Please advise what type of surface mount fixture these should be.

History

Question edited

Kyle Rosinski (Granger Construction) on Apr 20, 2020 at 11:45 AM EDT

- **Question updated:**

Bathrooms A2-15, A6-19, B2-15, B4-07, B6-14, C2-13, C7-06, & C5-06 indicate R-12 light fixtures. These bathroom have a precast ceiling at 7' 10". Please advise what type of surface mount fixture these should be.

Question drafted by manager

Kyle Rosinski (Granger Construction) on Apr 20, 2020 at 9:20 AM EDT

- **Question added:**

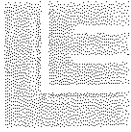
Bathrooms A2-15, A6-19, B2-15, B4-07, B6-14, C2-13, C7-06, & C5-06 indicated R-12 light fixtures. These bathroom have a precast ceiling at 7' 10". Please advise what type of surface mount fixture these should be.

- **Title added:**R12 Light Fixtures in Cell Area Bathrooms
- **Submitter added:**Kyle Rosinski (Granger Construction)
- **Manager added:**Kyle Rosinski (Granger Construction)

RFI-0112 RESPONSE:

THE HOLDING AREA TOILETS/BATHROOMS, NOT PROVIDED WITH THE METAL CEILINGS, SHOULD BE PROVIDED WITH TYPE "S11" LIGHTING FIXTURES, IN LIEU OF THE TYPE "R12" LIGHTING FIXTURES.

PRATER ENGINEERING - T. LEYKAUF - 04-28-20



Lake Erie Electric, Inc.

Contractors and Engineers • Dayton Office

OH Lic. # 26769

360 Industrial Drive, Franklin, Ohio 45005 Phone: 937-743-1220 Fax: 937-743-1227

Established 1952

Warren County Jail
LEE Job Number: 1019-1016
PO Number: 10658
Warren County
Justice Dr.
Lebanon, OH

8/7/20

Project:
Warren County Jail

LEE CO No.: TBD
Re :RFI #112

Please find attached Lake Erie Electric, Inc. - Dayton Division's quotation for the project listed above for the referenced added scope. All associated breakdown is attached.

LEE Cost: \$7,717.42

Bond

CO Net: \$7,717.42

Please do not hesitate to call me if you have any questions regarding this change order.

Respectfully,
Lake Erie Electric, Inc.

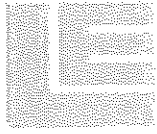
Sean M. Mondello
Project Manager

Project Name	<u>Warren County Jail</u>	Contractor's	
Name	<u>Lebanon, OH</u>	Contract No.	<u>1822-000121</u>
		Project No.	Phase Contr. No.
County	<u>Montgomery</u>	Change Order No.	<u>TBD</u> for <u>RFI#112</u>
Subcontractor Name and Address		I.D. No.	Phase Contr. No.
	<u>LAKE ERIE ELECTRIC, INC.</u>	Type of Contract	<u>ELECTRICAL</u>
	<u>360 INDUSTRIAL DRIVE</u>		
	<u>FRANKLIN, OH 45005</u>		

A. Labor Summary (exclude fringes) - GC 7.7.2.2		Premium Portion ¹		
Personnel Classification	Regular Rate			
Journeyman	hours x <u>30.00</u> /hour	<u> </u> /hour	=	<u> </u>
Foreman	hours x <u>33.00</u> /hour	<u> </u> /hour	=	<u> </u>
Gen Fore	hours x <u>35.40</u> /hour	<u> </u> /hour	=	<u> </u>
PM	hours x <u>80.00</u> /hour	<u> </u> /hour	=	<u> </u>
				Total (B) \$ <u> </u>
B. Fringes - GC 7.7.2.3				
Journeyman	hours x <u>20.19</u> /hour	<u> </u> /hour	=	<u> </u>
Foreman	hours x <u>19.84</u> /hour	<u> </u> /hour	=	<u> </u>
Gen Fore	hours x <u>19.96</u> /hour	<u> </u> /hour	=	<u> </u>
PM	hours x <u> </u> /hour	<u> </u> /hour	=	<u> </u>
				Total (C) \$ <u> </u>
C. Allowable Payroll Expenses - GC 7.7.2.4				
Journeyman	hours x <u>6.60</u> /hour	<u> </u> /hour	=	<u> </u>
Foreman	hours x <u>7.26</u> /hour	<u> </u> /hour	=	<u> </u>
Gen Fore	hours x <u>7.79</u> /hour	<u> </u> /hour	=	<u> </u>
PM	hours x <u> </u> /hour	<u> </u> /hour	=	<u> </u>
				Total (D) \$ <u> </u>
D. Equipment Rental (attach itemized quotes / invoices)				Total (D) \$ <u> </u>
E. Administrative and Processing fees				Total (E) \$ <u> </u>
F. Trucking (attach itemized supporting documentation)				Total (F) \$ <u> </u>
G. Material (attach itemized supporting documentation)				Total (G) \$ <u>6,710.80</u>
		Sub Total		\$ <u>6,710.80</u>
H. Contractor Overhead and Profit GC 7.7.2.10	x 15.00%		Total (H)	\$ <u>1,006.62</u>
I. Subcontractor Tier Cost (attach itemized supporting documentation) GC 7.7.2.10.1			Total (I)	\$ <u> </u>
J. Subcontractor Tier Markup	x 5.00%		Total (J)	\$ <u> </u>
K. Miscellaneous - GC 7.7.2.12			Total (K)	\$ <u> </u>
1. Premium portion (labor and fringes) only for approved overtime				
- attach itemized supporting documentation ²				
Grand Total (Sub Total + H + I + J + K)				\$ <u>7,717.42</u>

1. Premium portions are shown on Line (K), sub-totals are not shown. Premium portion is the difference between Overtime and Regular-time Rates

2. Not applicable to all change orders. Subject to review and acceptance of Contracting Authority.



Lake Erie Electric, Inc.

Contractors and Engineers • Dayton Office

OH Lic. # 2

360 Industrial Drive, Franklin, Ohio 45005 Phone: 937-743-1220 Fax: 937-743-

Established 1952

WARREN COUNTY JAIL MATERIAL COMPILATION

FROM TAKEOFF

\$ -

Kendall

\$ 6,710.80

NET MATERIAL TOTAL \$ 6,710.80



KENDALL ELECTRIC
11310 MOSTELLER ROAD
CINCINNATI, OHIO 45241

CUSTOMER

LAKE ERIE

JOB NAME

WAREN COUNTY JAIL

DATE

5/1/2020

CHANGE

RFI 112

ADD/DEDUCT

QUANTITY

TYPE

TOTAL

ADD

10

TYPE S11

\$ 671.08 \$ 6,710.80

DEDUCT

0

TYPE R10

ALREADY PRODUCED UNABLE TO BE RETURNED

\$ 6,710.80

ZACH DUNCAN



CHANGE ORDER REQUEST

DATE: 08/14/2020

PCO#: 109

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: RFI 137 Sallyport Lighting Changes
Proposed Scope of Work: RFI 137 Sallyport Lighting Changes

The prices below are valid until 08/28/2020.

Funding Source for Change Order:
Granger/Megen GMP: \$4,148.21
Owner Contingency: (\$4,148.21)

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : RFI 137 Sallyport Lighting Changes Bonds	New		0000610-00		\$23.83
2 : RFI 137 Sallyport Lighting Changes Sub Bond Risk	New		0000620-00		\$39.72
3 : RFI 137 Sallyport Lighting Changes CM Fee	New		0000092-00		\$101.18
4 : RFI 137 Sallyport Lighting Changes Insurances	New		0000620-02		\$11.91
5 : RFI 137 Sallyport Lighting Changes LEE	New		0016000-00		\$3,971.57
Total:					\$4,148.21

Submitted By:

08/14/2020
Date

Jason Woehrle

Approved By:

Tiffany Zindel
Warren County

Date

RFI 0137 - Sally Port Ceiling Clarification

Status: Sent to reviewer

Due Date: Jul 11, 2020

Question

Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:44 PM EDT

The RCP indicates a 2x2 lay-in ceiling at 9'-4" in sally ports A2-21, B1-07, B4-02, C1-07, C5-11, and C8-07 (highlighted in attached plans). The attic framing plans for these areas shows there is precast above these rooms, with the bottom at 7'-10".

Please advise on the ceilings in these rooms.

A177 (See page 2)

A178 (See page 3)

A179 (See page 4)

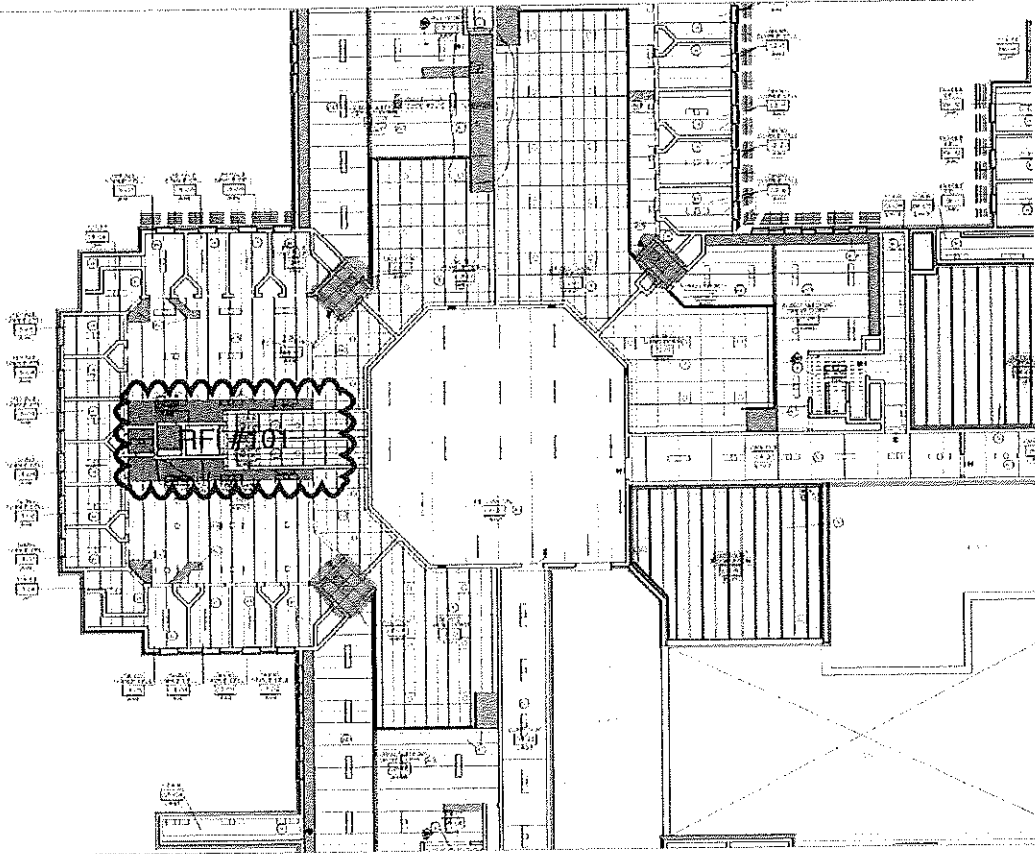
OBC Section 1208.2 states minimum ceiling height allowable is 7'-6".

RFI-137 - RESPONSE (Prater)

We are assuming with the bottom of the precast being at 7'-10", there will be no ceiling (exposed precast) in these Sally Ports between the holding areas including; A2-21 (A2-20, on Sheet E107), B1-07, B4-02, C1-07, C5-11, AND C8-07).

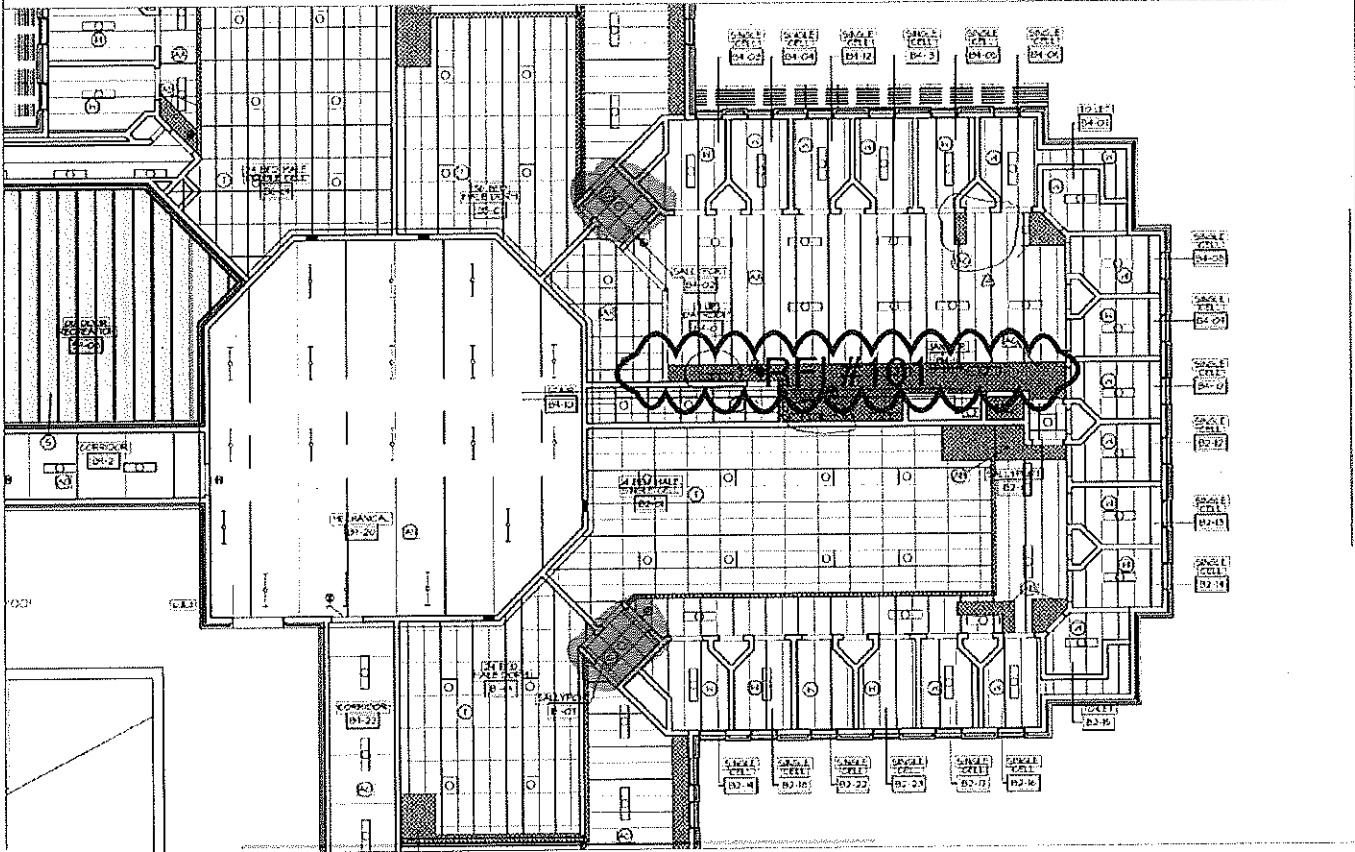
To stay with the lighting fixture manufacturer already being used; we recommend providing the CERTOLUX #VRIS-3525 2x2 B/B-LED 8 35K 052L UNV-P00/P43-T6 - mounted tightly to the underside of the exposed precast.

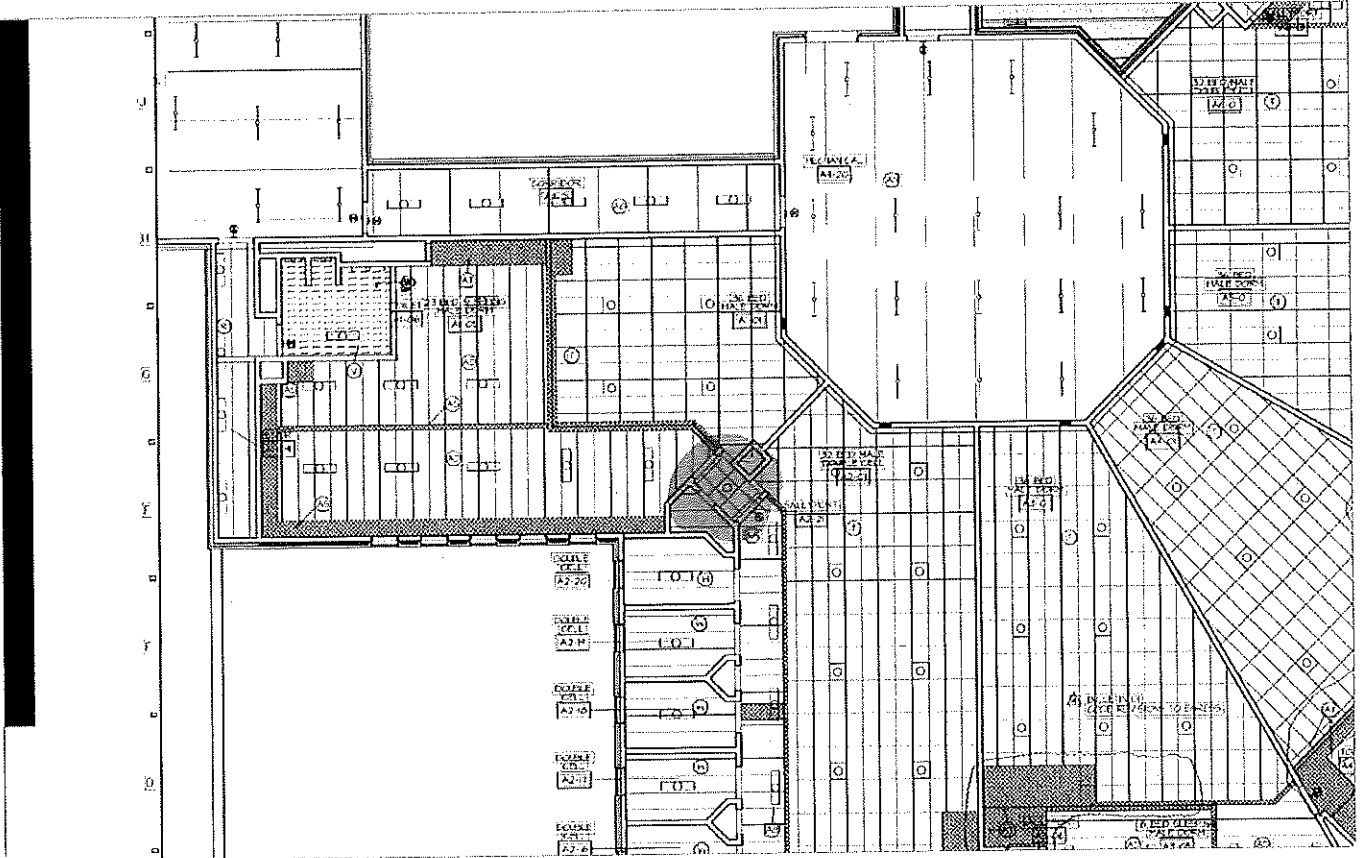
Prater Engineering - T. Leykauf - 07-17-20








A178

Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:44 PM EDT





History	
Question sent to reviewer	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 1:09 PM EDT
Question edited <ul style="list-style-type: none"> References added: 	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 1:08 PM EDT
<ul style="list-style-type: none"> References added:  A179	
Question edited <ul style="list-style-type: none"> References removed: 	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 1:08 PM EDT
<ul style="list-style-type: none"> References removed:  A179	
Question edited <ul style="list-style-type: none"> Question updated: <p>The RCP indicates a 2x2 lay-in ceiling at 9'-4" in sally ports A2-21, B1-07, B4-02, C1-07, C5-11, and C8-07 (highlighted in attached plans). The attic framing plans for these areas shows there is precast above these rooms, with the bottom at 7'-10".</p> <p>Please advise on the ceilings in these rooms.</p>	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 1:08 PM EDT
Question returned to manager  <ul style="list-style-type: none"> Message:Revisions 	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 1:07 PM EDT
Question sent to reviewer	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:50 PM EDT
Question edited <ul style="list-style-type: none"> References added: 	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:50 PM EDT
<ul style="list-style-type: none"> References added:  A179	
Question edited <ul style="list-style-type: none"> References removed: 	Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:49 PM EDT
<ul style="list-style-type: none"> References removed:  A179	

Question edited

Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:49 PM EDT

- **Question updated:**

The RCP indicates a 2x2 lay-in ceiling at 9'-4" in sally ports B1-07, B4-02, C1-07, C5-11, and C8-07 (highlighted in attached plans). The attic framing plans for these areas shows there is precast above these rooms, with the bottom at 7'-10".

Sally port A2-21 and A3-06 shows the same lay-in ceiling, but is not coded. The attic framing for that room shows precast similarly.

Please advise on the ceilings in these rooms.

Question returned to manager ↩

Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:48 PM EDT

- **Message:**Need to add additional room

Question drafted and sent to reviewer

Jeffrey Wegrzynowski (Granger Construction) on Jul 6, 2020 at 12:44 PM EDT

- **Question added:**

The RCP indicates a 2x2 lay-in ceiling at 9'-4" in sally ports B1-07, B4-02, C1-07, C5-11, and C8-07 (highlighted in attached plans). The attic framing plans for these areas shows there is precast above these rooms, with the bottom at 7'-10".

Sally port A2-21 shows the same lay-in ceiling, but is not coded. The attic framing for that room shows precast similarly.

Please advise on the ceilings in these rooms.

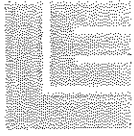
- **Title added:**Sally Port Ceiling Clarification
- **Submitter added:**Jeffrey Wegrzynowski (Granger Construction)
- **Manager added:**Kyle Rosinski (Granger Construction)
- **References added:**

 A177

 A178

 A179

- **Number added:**0137
- **Reviewer added:**Rick Smith (Wachtel & McAnally Architects)
- **Due date added:**Jul 11, 2020



Lake Erie Electric, Inc.

Contractors and Engineers • Dayton Office

OH Lic. # 26769

360 Industrial Drive, Franklin, Ohio 45005 Phone: 937-743-1220 Fax: 937-743-1227

Established 1952

Warren County Jail

8/7/20

LEE Job Number: 1019-1016

PO Number: 10658

Warren County

Justice Dr.

Lebanon, OH

Project:

Warren County Jail

LEE CO No.:TBD

Re :RFI #137

Please find attached Lake Erie Electric, Inc. - Dayton Division's quotation for the project listed above for the referenced added scope. All associated breakdown is attached.

LEE Cost: \$3,971.57

Bond

CO Net: \$3,971.57

Please do not hesitate to call me if you have any questions regarding this change order.

Respectfully,

Lake Erie Electric, Inc.

Sean M. Mondello

Project Manager

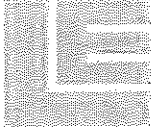
CORPORATE OFFICE: 25730 First Street, PO Box 450859, Westlake, Ohio 44145 Phone: 440-835-5565 Fax: 440-835-5688

Project Warren County Jail
 Name Lebanon, OH
 County Montgomery
 Subcontractor Name and Address
LAKE ERIE ELECTRIC, INC.
360 INDUSTRIAL DRIVE
FRANKLIN, OH 45005

Contractor's
 Contract No. 1822-000121
 Project No. _____ Phase Contr. No. _____
 Change Order No. TBD for RFI#112
 I.D. No. _____ Phase Contr. No. _____
 Type of Contract ELECTRICAL

A. Labor Summary (exclude fringes) - GC 7.7.2.2		Premium Portion ¹	
Personnel Classification	Regular Rate		
Journeyman _____ hours x <u>30.00</u> /hour		_____ /hour	= _____
Foreman _____ hours x <u>33.00</u> /hour		_____ /hour	= _____
Gen Fore _____ hours x <u>35.40</u> /hour		_____ /hour	= _____
PM _____ hours x <u>80.00</u> /hour		_____ /hour	= _____
			Total (B) \$ _____
B. Fringes - GC 7.7.2.3			
Journeyman _____ hours x <u>20.19</u> /hour		_____ /hour	= _____
Foreman _____ hours x <u>19.84</u> /hour		_____ /hour	= _____
Gen Fore _____ hours x <u>19.96</u> /hour		_____ /hour	= _____
PM _____ hours x _____ /hour		_____ /hour	= _____
			Total (C) \$ _____
C. Allowable Payroll Expenses - GC 7.7.2.4			
Journeyman _____ hours x <u>6.60</u> /hour		_____ /hour	= _____
Foreman _____ hours x <u>7.26</u> /hour		_____ /hour	= _____
Gen Fore _____ hours x <u>7.79</u> /hour		_____ /hour	= _____
PM _____ hours x _____ /hour		_____ /hour	= _____
			Total (D) \$ _____
D. Equipment Rental (attach itemized quotes / invoices)			Total (D) \$ _____
E. Administrative and Processing fees			Total (E) \$ _____
F. Trucking (attach itemized supporting documentation)			Total (F) \$ _____
G. Material (attach itemized supporting documentation)			Total (G) \$ <u>3,453.54</u>
Sub Total			\$ <u>3,453.54</u>
H. Contractor Overhead and Profit GC 7.7.2.10 x 15.00%			Total (H) \$ <u>518.03</u>
I. Subcontractor Tier Cost (attach itemized supporting documentation) GC 7.7.2.10.1			Total (I) \$ _____
J. Subcontractor Tier Markup x 5.00%			Total (J) \$ _____
K. Miscellaneous - GC 7.7.2.12			Total (K) \$ _____
1. Premium portion (labor and fringes) only for approved overtime - attach itemized supporting documentation ²			
Grand Total (Sub Total + H + I + J + K)			\$ <u>3,971.57</u>

1. Premium portions are shown on Line (K), sub-totals are not shown. Premium portion is the difference between Overtime and Regular-time Rates
 2. Not applicable to all change orders. Subject to review and acceptance of Contracting Authority.



Lake Erie Electric, Inc.

Contractors and Engineers • Dayton Office

OH Lic. # 2

360 Industrial Drive, Franklin, Ohio 45005 Phone: 937-743-1220 Fax: 937-743-

Established 1952

WARREN COUNTY JAIL MATERIAL COMPILATION

FROM TAKEOFF	\$	-
Kendall	\$	3,453.54

NET MATERIAL TOTAL \$ 3,453.54

VRIS-3525

LED Vandal Resistant Surface Mount Inset Door

VANDAL RESISTANT



CERTOLUX

by VISCOR

Project: WARREN COUNTY JAIL	Catalogue #: (NEXT PAGE)	Type:
Notes:		

Product Description

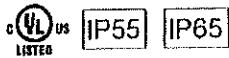
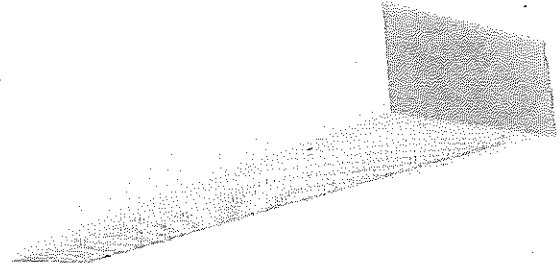
The VRIS series by Certolux is a specification-grade LED luminaire for maximum security and vandal resistant applications. The design incorporates a concealed hinge, tamper resistant fasteners and security lenses. This maximizes impact resistance and unauthorized fixture tampering/penetration. The luminaire can be ceiling surface mounted and is available in 1x4 configurations.

Approvals

Approved to CSA and UL standards.

Featured Options

- Emergency LED Battery Pack



Housing

Precision die formed 14, 16, or 18 gauge premium grade material as specified (see product ordering key) with continuously welded corners.

Door Frame

Single piece precision die formed with specified material (see product ordering key). Corners are seam welded. Tamper resistant TORX® Head with center pin fasteners secure door frame to housing.

Hinge

Full length concealed piano style hinge with .500" knuckle and .125" pin (Pin is secured to knuckle) welded to door frame and fastened to backplate.

Lens & Lens Retention

Multiple lens choices for both fixture side and room facing side (see product ordering key for options). Lens maximum thickness .500". The lens is secured with adjustable Z style brackets with through studs on housing faceplate.

Finish

White, polyester powder painted housing.

Electrical

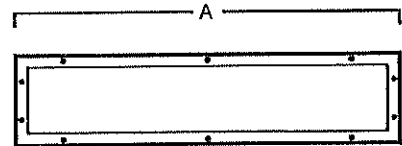
Long life LED's coupled with high efficiency drivers provide quality illumination. Rated to deliver an L80 performance >60,000 hours. The standard driver has a THD of <20%. Standard low-voltage dimming (0-10v, 1%). All electrical components are CSA or UL approved.

Warranty

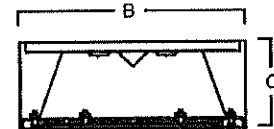
5 year limited warranty. For complete warranty terms visit: http://viscor.com/assets/Viscor_LED_Warranty.pdf

Dimensions

Top View



End View



	A	B	C
1x4	47.7"	12"	4.6"
2x2	23.7"	22"	4.6"
2x4	47.7"	22"	4.6"

Consult installation guide for exact dimensions.

VRIS-3525

LED Vandal Resistant Surface Mount Inset Door



VANDAL RESISTANT



CERTOLUX

by VISCOR

Project:	Catalogue #:	Type:
Notes:		

Order Key

VRIS	-	3525	2x2	B	1	B	LED	8	800	052L	UNV	-	P00	1	P43	T6
Series		Type	Size (Width x Length)				CRI			Voltage			Options			
			1x4 2x2 2x4				8 - (80-89)			UNV - 120-277V 347 - 347V			Driver Options B02 Dimming Addressable Digital (DALI) B39 Emergency Lighting Battery Pack - LED Packaging Options K0 Bulk Pack/Pallet Packed and/or Wrapped Fusing and Breaker Options T6 Fuseholder, In-line Single Pole Wiring Options V25 Radio Frequency Filter V39 Night Light - White LED Reflector Options VF1 Full (95% Reflectance) Specular Approvals Options X8 IP65 Rated X12 IP55 Rated			
		Door/Housing Gauge					CCT			Nominal Lumens						
		A - 18 Ga. CRS - Painted E - 18 Ga. SS #304 - Painted B - 16 Ga. CRS - Painted F - 16 Ga. SS #304 - Painted J - 16 Ga. SS #304 - #4 Brushed* C - 14 Ga. CRS - Painted G - 14 Ga. SS #304 Door - Painted K - 14 Ga. SS #304 - #4 Brushed*					30K - 3000 K 35K - 3500 K 40K - 4000 K 60K - 5000 K			1x4 2x2 2x4	026L - 2600 052L - 5200 078L - 7800 104L - 10400 026L - 2600 035L - 3500 052L - 5200 052L - 5200 078L - 7800 104L - 10400 150L - 15000					
		*Not available as housing material														
							Internal/ External Lens**									
							P00 - None P13 - .125 Prismatic Acrylic P45 - .125 Clear Polycarbonate P42 - .156 Prismatic Polycarbonate P43 - .187 Prismatic Polycarbonate P46 - .187 Clear Polycarbonate P49 - .187 Clear Tempered Glass P08 - .250 Clear Polycarbonate P50 - .250 Clear Tempered Glass P47 - .375 Clear Polycarbonate P51 - .375 Clear Tempered Glass P48 - .500 Clear Polycarbonate P52 - .500 Clear Tempered Glass P74 - .005 UV Overlay P82 - .080 White Translucent Acrylic									

Other options may be available, consult factory. Specifications and data subject to change without notice.

Lumen & Watts

Size	Delivered Lumens	Watts
1x4	2600	25
	5200	47
	7800	75
	10400	98
2x2	2600	25
	3500	33
	5200	47
2x4	5200	47
	7800	75
	10400	98
	15000	147

**Maximum lens thickness combined is .625"





KENDALL ELECTRIC
11310 MOSTELLER ROAD
CINCINNATI, OHIO 45241

CUSTOMER

LAKE ERIE

JOB NAME

WAREN COUNTY JAIL

DATE

7/20/2020

CHANGE

RFI - 137

ADD/DEDUCT

QUANTITY

TYPE

TOTAL

ADD

6

VRIS-3525-2X2-B/B-LED835K052LUNV-P00/P43-T6 \$ 575.59

\$ 3,453.54

\$ 3,453.54

ZACH DUNCAN



CHANGE ORDER REQUEST

DATE: 09/01/2020
PCO#: 110

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: RFI 141 Mechanical Piping to VAV A-17
Proposed Scope of Work: RFI 141 Mechanical Piping to VAV A-17

The prices below are valid until **09/10/2020**.

Funding Source for Change Order:
Granger/Megen GMP: \$3,545.45
Owner Contingency: (\$3,545.45)

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : RFI 141 Mechanical Piping to VAV A-17 Bonds	New		0000610-00		\$20.37
2 : RFI 141 Mechanical Piping to VAV A-17 Sub Bond Risk	New		0000620-00		\$33.94
3 : RFI 141 Mechanical Piping to VAV A-17 CM Fee	New		0000092-00		\$86.47
4 : RFI 141 Mechanical Piping to VAV A-17 Insurances	New		0000620-02		\$10.18
5 : RFI 141 Mechanical Piping to VAV A-17 Triton	New		0015000-00		\$3,394.49
Total:					\$3,545.45

Submitted By:

Jason Woehrle

09/01/2020
Date

Approved By:

Tiffany Zindel
Warren County

Date



Tritonservices,inc.

8162 Duke Boulevard • Mason, OH 45040
Corporate Office: (513) 679-6800

PROJECT:
WARREN COUNTY JAIL
822 Memorial Drive
Lebanon, OH

Date: September 1, 2020

Triton Services CO No.: TBD
Re: RFI 141 - Mechanical Piping Revised

Please see attached Proposed Change Order to install the HWS and HWR mechanical piping for VAV A-17 per RFI 141 Response in Area A - Floor 3 and shown bubbled on H110.

Triton Cost: \$	3,394.49
Bond: \$	-
CO Net: \$	3,394.00

Please feel free to contact me if you have any questions, comments or concerns regarding this change order.

Cordially,

Brian Ritter
Project Manager

ESTIMATE RECAP

WARREN COUNTY JAIL				DATE: 9/1/2020	C.O.# TBD
Job Number:		194386			
DESCRIPTION OF COSTS	LABOR (Sheetmetal)			MATERIAL COSTS	
	mh's	rate	cost		
1. Equipment			\$ -		
2. Material	27	\$ 63.57	\$ 1,716.39	\$ 984.60	
3. Expendables *	~	~	~	\$ 75.66	
4. Equip./tool rentals*	~	~	~		
5. Drafting/ sketching			\$ -		
6. Coordination			\$ -		
7. Foreman	2	\$ 72.77	\$ 145.54		
8. Clean-up			\$ -		
9. Warranty	~	~	\$ -		
10. Start-up / Testing			\$ -		
11. Trucking			\$ 29.54		
12. Parking / Travel	~	~	\$ -		
13. Subtotal	29 mh's		\$ 1,891.47	\$ 1,060.26	
14. Total Labor & Material:				\$ 2,951.73	
15. Subcontracts:					
16					
17					
18					
19					
20					
				\$ -	
22. SUBTOTAL:				\$ 2,951.73	
23. Profit:		15%		\$ 442.76	
24. Total Cost & Profits before Bonds and other cost				\$ 3,394.49	
25. Bond:		0.00%		\$ -	
26. Sales Tax: (* expendables and rentals taxable on public work)				\$ -	
		private work 0.00%	public work 0.00%		
27. Permits:	HVAC: \$ -	Press. Piping: \$ -	Boiler: \$ -	\$ -	
28. TOTAL PRICE OF CHANGE PROPOSAL:				\$ 3,394.00	
29. Extension of Time due to this Change Order is:			Workdays	<input checked="" type="checkbox"/>	Deferred
30. This proposal based on:		<input checked="" type="checkbox"/> Straight Time	Overtime	<input type="checkbox"/>	Shiftwork
31. This proposal is void unless a written Change Order or written Notification to Proceed is received by: _____ (30 calendar days if no date shown)					
32. Extended Overhead Cost:		<input type="checkbox"/> Included	<input checked="" type="checkbox"/> Deferred	<input type="checkbox"/>	N / A
COMMENTS:					

Material Detail [All Groups]

Company: Triton Services Inc
 JobName: warren
 Disc Set: Bid

Qty	Size	Description	Code	Gross Weight	List Price	Matl Disc	Net Price	Net Total
86	3/4	Type L Hard Copper Tube	coptub	40.01	4.18	0.428	1.79	153.68
6	1	Type L Hard Copper Tube	coptub	4.62	5.93	0.428	2.54	15.21
1	3/4	Type L Hard Copper Tube	coptub	0.91	4.18	0.428	1.79	1.79
8	3/4	Wrot Copper 90 Ell	copfit	0.80	4.20	0.210	0.88	7.06
2	1	Wrot Copper 90 Ell	copfit	0.36	10.31	0.210	2.17	4.33
2	1 x 3/4 x 3/4	Wrot Copper Reducing Tee	copfit	0.44	28.16	0.210	5.91	11.83
2	1	600 Thd Ball Valve	apball	0.00	36.00	0.480	17.28	34.56
44	3/8	Hex Nuts	bolts	0.00	0.06	0.880	0.05	2.32
21	3	Plain Standard Clevis Hanger	hanger	27.93	7.84	1.000	7.84	164.64
1	3	Plain Standard Clevis Hanger	hanger	1.33	7.84	1.000	7.84	7.84
22	3/8	Plain Wide Jaw Top C-Clamp	hanger	11.88	5.45	1.000	5.45	119.90
88	3/8	Plain Threaded Rod	hanger	0.00	0.00		0.00	0.00
22	3x12	Galv Insulation Prot Shield	hanger	20.24	18.05	1.000	18.05	397.10
2	1x3	3000# Threaded Outlet	fsolet	0.80	14.12	1.000	14.12	28.24
2	1	FIPT x Swt Dielectric Union	wtspec	0.00	26.50	0.550	14.58	29.15
44	3/8	Plain Washer	misc	0.00	0.03	1.000	0.03	1.32
20	3/4	95/5 Solder Joints	misc	0.00	0.12	1.000	0.12	2.40
8	1	95/5 Solder Joints	misc	0.00	0.18	1.000	0.18	1.44
6	1	Female Iron Pipe Thread Joints	misc	0.00	0.10	1.000	0.10	0.60
2	1	Std Branch Weld on Pipe	misc	0.00	0.60	1.000	0.60	1.20
Total:								\$984.60

Labor Hours

Company: Triton Services Inc
JobName: warren
Source: PHCC
Set: Hospital

Spec/Zone-Blueprint #	Mult	Base Hours	Adjust Hours	Job Factor	Job Hours
CHW4/change-	1	26.9	20.8	1.00	20.8
	Totals:	26.9	20.8	1.00	20.8

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1403

Adopted Date October 06, 2020

ACKNOWLEDGE EXECUTION BY THE COUNTY ADMINISTRATOR OF CHANGE ORDER NO 14 TO THE GUARANTEED MAXIMUM PRICE AGREEMENT WITH THE CONSTRUCTION MANAGER AT RISK GRANGER CONSTRUCTION COMPANY FOR THE NEW JAIL AND SHERIFF'S ADMINISTRATION OFFICE PROJECT ("PROJECT")

WHEREAS, pursuant to Resolution #18-0856, this Board of County Commissioners (the "Board") entered into an agreement with Granger Construction Co., Inc. (the "CMR") for preconstruction services for the Project, with the understanding that a guaranteed maximum price ("GMP") for construction of the Project was anticipated to be added to the agreement by amendment; and

WHEREAS, pursuant to Resolution #19-1094, adopted August 20, 2019, this Board authorized the County Administrator to execute the documents relative to the final Guaranteed Maximum Price; and

WHEREAS, Granger has also presented change order number 14 to accommodate various credit changes relative to the transaction window device, transmitter & holsters, toilet accessories, projector lift and dorm lighting; and

NOW THEREFORE BE IT RESOLVED, to acknowledge the execution of change order number 14, by the County Administrator, for a decrease of \$40,964.06 to the Guaranteed Maximum Price, creating a new Guaranteed Maximum Price of \$49,370,514.94; said amendment agreement and change orders with supporting/open book pricing are attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

Tz/

cc: C/A— Granger Construction Co., Inc
Project file
Granger Construction Co. J. Woehrl

Sheriff (file)
Martin Russell/Tiffany Zindel
Facilities Management (file)



OWNER CHANGE ORDER

Granger Construction Company
1822- 00 Warren County Jail

CHANGE ORDER DATE:
09/28/2020
CHANGE ORDER #: 14

TO (CONTRACTOR): Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911

- DISTRIBUTION:
- Granger Construction Company
 - Wachtel & McAnally Architects/Planners, Inc
 - OFFICE
 - FIELD
 - OTHER

CHANGE ORDER INFORMATION

You are directed to make the following changes to this Contract:

- PCO 119 - Norcon Transaction Window Device Credit
- PCO 120 - Senstar Transmitter & Holster Credit
- PCO 121 - Toilet Accessories Submittal Credit
- PCO 122 - Projector Lift Credit
- PCO 123 - RFI 146 Dorm Lighting Changes

PROJECT	ACO	DESCRIPTION	PCO TYPE	PCO	CONTRACT CHANGE
1822- 00	119	Norcon Transaction Window Device Credit	PCO	119	(\$1,022.63)
1822- 00	120	Senstar Transmitter & Holster Credit	PCO	120	(\$37,143.29)
1822- 00	121	Toilet Accessories Submittal Credit	PCO	121	(\$2,001.91)
1822- 00	122	Projector Lift Credit	PCO	122	(\$3,214.43)
1822- 00	123	RFI 146 Dorm Lighting Changes	PCO	123	\$2,418.20

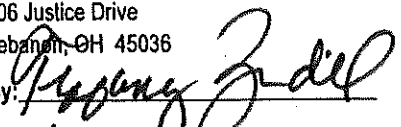
TOTAL: (\$ 40,964.06)

Not valid until signed by both the Owner and Architect. Signature of the Contractor indicates the Contractor's agreement herewith, including any adjustment in the Contract Sum or Contract Time.

The original Contract Sum was	\$ 49,341,225.00
The net change by previously authorized Change Orders was	\$ 70,254.00
The Contract Sum prior to this Change Order was	\$ 49,411,479.00
The Contract Sum will be decreased by this Change Order	(\$ 40,964.06)
The new Contract Sum will be	\$ 49,370,514.94
The Contract Time will be unchanged	

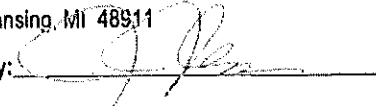
AUTHORIZED BY OWNER:

Warren County
406 Justice Drive
Lebanon, OH 45036

By: 
Date: 10-1-2020

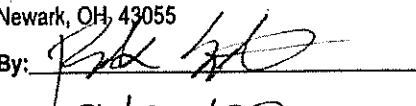
ACCEPTED BY CONTRACTOR

Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911

By: 
Date: 09/30/2020

ARCHITECT/ENGINEER

Wachtel & McAnally Architects/Planners, Inc
35 South Park Place, Ste 350
Newark, OH 43055

By: 
Date: 9/30/20



CHANGE ORDER REQUEST

DATE: 09/22/2020

PCO#: 119

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: Norcon Transaction Window Device Credit
Proposed Scope of Work: Norcon Transaction Window Device Credit

The prices below are valid until 10/06/2020.

Funding Source for Change Order:
Granger/Megen GMP: (\$1,022.63)
Owner Contingency: \$1,022.63

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : Norcon Transaction Window Device Credit Bonds	New		0000610-00		(\$5.87)
2 : Norcon Transaction Window Device Credit Sub Bond Risk	New		0000620-00		(\$9.79)
3 : Norcon Transaction Window Device Credit CM Fee	New		0000092-00		(\$24.94)
4 : Norcon Transaction Window Device Credit Insurances	New		0000620-02		(\$2.94)
5 : Norcon Transaction Window Device Credit Pauly Jail	New		0011190-00		(\$979.09)
Total:					(\$1,022.63)

Submitted By:

Jason Woehrle

09/22/2020

Date

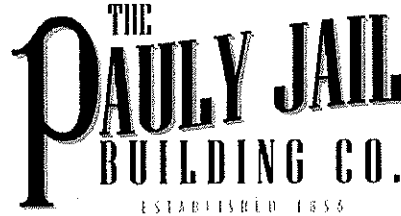
Approved By:

Tiffany Zindel
Warren County

Date

Warren County Jail & Sheriff's Admin. Office
Norcon Credit

Date: 9/1/2020
To: Megen Construction
Co: Jason Kaminski
Fax: via email
Pgs: 3
Re: Norcon Credit



Please find the following summary of changes to the contract for this project: Credit one (1)
Norcon Intercom Unit

Subcontractor	\$ (900.30)
Subcontractor Mark-up	\$ (45.02)
Subtotal (Subcontractor Portion)	\$ (945.32)
Net Material Cost	\$ -
Tax (on Material)	\$ -
Subtotal (Subcontractor & Material)	\$ (945.32)
Labor & General Conditions	\$ (29.37)
Overhead/Profit	\$ (4.41)
Bond	\$ -
Total Requested Change Order - DEDUCT Amount	\$ (979.09)

Notice - Pauly Jail Building Co. respectfully declines to proceed with material procurement and or installations without receipt of change order or change directive per contract documents. Please note: Pricing is valid for 30 days.

Thank you,

Colin Eacret

Main Office
Pauly Jail Building Co., Inc.
17515 Bataan Court
Noblesville, IN 46062
PH: 317-580-0833
FX: 317-705-2093

Missouri Office
Pauly Jail Building Co., Inc.
1530 S. Big Bend Blvd, 1st Fl
St. Louis, MO 63117
PH: 614-240-5655
FX: 314-240-5567

Missouri Office #2
Pauly Jail Building Co., Inc.
500 Huber Park Ct, Suite 206
Weldon Springs, MO 63304
PH: 636-329-8036
FX: 636-329-8056

Where EXCELLENCE in Jail Building is the TRADITION



CHANGE ORDER PROPOSAL

Project: Warren County Jail & Sheriff's Admin. Office

Date: 9/1/2020

PJBC#: 554 PR# 012

SUMMARY OF DETAILED BREAKDOWN	ADDITIONS	DELETIONS	NET TOTAL
A. MATERIAL (Including Taxes)	\$ -	\$ -	\$ -
B. LABOR	\$ -	\$ -	\$ -
C. OTHER COSTS	\$ (29.37)	\$ -	\$ (29.37)
D. SUBCONTRACTOR COSTS (Including Markup)	\$ (945.32)	\$ -	\$ (945.32)
E. NET TOTAL (A+B+C)			\$ (29.37)
F. OVERHEAD & PROFIT			\$ (4.41)
G. BOND			\$ -
			TOTAL PROPOSAL
			\$ (979.09)

CONTRACTOR'S MARK-UP ON WORK OF SUBCONTRACTORS

SUBCONTRACTOR:	CONTRACT WORK DESCRIPTION	PROPOSAL
Accurate	Norcon Credit	\$ (900.30)
		\$ -
		\$ -
H. SUBTOTAL OF ALL WORK PERFORMED BY SUBCONTRACTORS		\$ (900.30)
I. CONTRACTOR'S MARK-UP		\$ (45.02)
		MARKUP COST
		\$ (945.32)

MATERIALS/ADD

	\$ -	ROUGH MAT./ADD	\$ -	
	\$ -			
	\$ -			
	\$ -	SALES TAX	\$ -	
	\$ -			
			MATERIAL COST	\$ -

MATERIALS/DELETE

	\$ -	ROUGH MAT./DELETE	\$ -	
	\$ -	SALES TAX	\$ -	
	\$ -			
			MATERIAL COST	\$ -

LABOR

Trade	Labor	Journeyman	0	x	\$ 86.48	RATE	TOTAL	
		Foreman	0	x	\$ 105.94		\$ -	
		Superintendent	0	x			\$ -	
		Project Manager	0	x			\$ -	
Trade	Travel	Foreman	0	x	\$ -		\$ -	
		Superintendent	0	x	\$ -		\$ -	
		Project Manager	0	x	\$ -		\$ -	
							LABOR COST	\$ -

Wage Breakdown

	Journeyman	Foreman	Superintendent	Other
Tax/Wages	0.00	0.00	0.00	
Benefits	0.00	0.00	0.00	
Payroll Taxes	0.00	0.00	0.00	
Workers Comp	0.00	0.00	0.00	

GENERAL CONDITIONS

GENERAL CONDITIONS	AMOUNT	OTHER COSTS	AMOUNT
1. MISC COST (Vehicle/Travel)	\$ -		
2. GEN. LIA. INS./INST FLTR	\$ (1.01)	6. COORD/JOB INC'L	\$ (28.36)
3. GEN. LIA.	\$ -	7. PER DIEM	\$ -
4. EQUIPMENT	\$ -		
			G/C COST
			\$ (29.37)

CONTRACT: _____

CONTRACTOR: _____
 (PRINT)

 (SIGNATURE)

TITLE: _____

DATE: _____



ACCURATE CONTROLS, INC.

326 BLACKBURN ST. - RIPON, WISCONSIN - 54971

PHONE: 920-748-6603 FAX: 920-748-9397

August 17, 2020

Description: Norcon TTU3 talk thru credit

This credit is for removing the Norcon TTU-3 in D5-01 from our scope of work. The speak thru will not be controlled, monitored, or powered by Accurate Controls. Rough in and electrical wiring by others. Accurate Controls credits back installation and testing. Not integrated with security electronics.

Qty	Description	Rate	Ext
-0.5	Field Tech Labor and testing (head end)	\$94.00	-\$47.00
-1.0	Norcon talk thru unit	\$742.00	-\$742.00
15%	overhead and profit		-\$111.30
Total			-\$900.30

Respectfully,

Bob Nelson

Bob Nelson

Project Manager

Accurate Controls, Inc.

bnelson@accuratecontrols.com

(920) 748-6603 ext 262



CHANGE ORDER REQUEST

DATE: 09/22/2020

PCO#: 120

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: Senstar Transmitter & Holster Credit
Proposed Scope of Work: Senstar Transmitter & Holster Credit

The prices below are valid until 10/06/2020.

Funding Source for Change Order:
Granger/Megen GMP: (\$37,143.29)
Owner Contingency: \$37,143.29

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : Senstar Transmitter & Holster Credit Bonds	New		0000610-00		(\$213.37)
2 : Senstar Transmitter & Holster Credit Sub Bond Risk	New		0000620-00		(\$355.62)
3 : Senstar Transmitter & Holster Credit CM Fee	New		0000092-00		(\$905.93)
4 : Senstar Transmitter & Holster Credit Insurances	New		0000620-02		(\$106.69)
5 : Senstar Transmitter & Holster Credit Pauly Jail	New		0011190-00		(\$35,561.68)
Total:					(\$37,143.29)

Submitted By:

Approved By:

Jason Woehrle

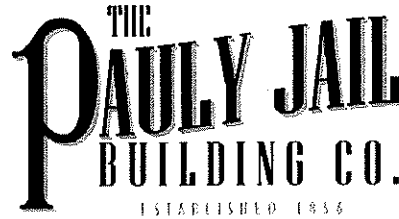
09/22/2020
Date

Tiffany Zindel
Warren County

Date

**Warren County Jail & Sheriff's Admin. Office
Senstar Credit**

Date: 9/11/2020
 To: Megen Construction
 Co: Jason Kaminski
 Fax: via email
 Pgs: 3
 Re: Senstar Credit



Please find the following summary of changes to the contract for this project: Accurate Controls to credit back 70 PAT-MD transmitters and 80 holsters. This means Accurate Controls will be providing 30 transmitters and 20 holsters total for the project. All existing transmitters will be tested to verify they work with the new system.

Subcontractor	\$ (32,700.00)
Subcontractor Mark-up	\$ (1,635.00)
Subtotal (Subcontractor Portion)	\$ (34,335.00)
Net Material Cost	\$ -
Tax (on Material)	\$ -
Subtotal (Subcontractor & Material)	\$ (34,335.00)
Labor & General Conditions	\$ (1,066.67)
Overhead/Profit	\$ (160.00)
Bond	\$ -
Total Requested Change Order - DEDUCT Amount	\$ (35,561.68)

Notice - Pauly Jail Building Co. respectfully declines to proceed with material procurement and or installations without receipt of change order or change directive per contract documents. Please note: Pricing is valid for 30 days.

Thank you,

Colin Eacret

Main Office
Pauly Jail Building Co., Inc.
 17515 Bataan Court
 Noblesville, IN 46062
 PH: 317-580-0833
 FX: 317-705-2093

Missouri Office
 Pauly Jail Building Co., Inc.
 1530 S. Big Bend Blvd, 1st Fl
 St. Louis, MO 63117
 PH: 614-240-5655
 FX: 314-240-5567

Missouri Office #2
 Pauly Jail Building Co., Inc.
 500 Huber Park Ct, Suite 206
 Weldon Springs, MO 63304
 PH: 636-329-8036
 FX: 636-329-8056

Where EXCELLENCE in Jail Building is the TRADITION



CHANGE ORDER PROPOSAL

Project: Warren County Jail & Sheriff's Admin. Office

Date: 9/11/2020

PJBC#: 554 PR# 013

SUMMARY OF DETAILED BREAKDOWN	ADDITIONS	DELETIONS	NET TOTAL
A. MATERIAL (Including Taxes)	\$ -	\$ -	\$ -
B. LABOR	\$ -	\$ -	\$ -
C. OTHER COSTS	\$ (1,066.67)	\$ -	\$ (1,066.67)
D. SUBCONTRACTOR COSTS (Including Markup)	\$ (34,335.00)	\$ -	\$ (34,335.00)
E. NET TOTAL (A+B+C)			\$ (1,066.67)
F. OVERHEAD & PROFIT			\$ (160.00)
G. BOND			\$ -
TOTAL PROPOSAL			\$ (35,561.68)

CONTRACTOR'S MARK-UP ON WORK OF SUBCONTRACTORS		PROPOSAL
SUBCONTRACTOR:	CONTRACT WORK DESCRIPTION	
Accurate Controls	Senstar Credit	\$ (32,700.00)
		\$ -
		\$ -
H. SUBTOTAL OF ALL WORK PERFORMED BY SUBCONTRACTORS		\$ (32,700.00)
I. CONTRACTOR'S MARK-UP		\$ (1,635.00)
MARKUP COST		\$ (34,335.00)

MATERIALS/ADD			
	\$ -	ROUGH MAT./ADD	\$ -
	\$ -		
	\$ -		
	\$ -	SALES TAX	\$ -
	\$ -		
MATERIAL COST			\$ -

MATERIALS/DELETE			
	\$ -	ROUGH MAT./DELETE	\$ -
	\$ -	SALES TAX	\$ -
	\$ -		
MATERIAL COST			\$ -

LABOR		RATE	TOTAL
Trade	Labor	Journeyman	0 x \$ 86.48
		Foreman	0 x \$ 105.94
		Superintendent	0 x
		Project Manager	0 x
Trade	Travel	Foreman	0 x \$ -
		Superintendent	0 x \$ -
		Project Manager	0 x \$ -
		LABOR COST	

Wage Breakdown	Journeyman	Foreman	Superintendent	Other
Tax/Wages	0.00	0.00	0.00	
Benefits	0.00	0.00	0.00	
Payroll Taxes	0.00	0.00	0.00	
Workers Comp	0.00	0.00	0.00	

GENERAL CONDITIONS	AMOUNT	OTHER COSTS	AMOUNT
1. MISC COST (Vehicle/Travel)	\$ -		
2. GEN. LIA. INS./INST FLTR	\$ (36.62)	6. COORD/JOB INC'L	\$ (1,030.05)
3. GEN. LIA.	\$ -	7. PER DIEM	\$ -
4. EQUIPMENT	\$ -	G/C COST \$ (1,066.67)	

CONTRACT: _____

CONTRACTOR: _____ TITLE: _____

(PRINT)

(SIGNATURE)

DATE: _____



ACCURATE CONTROLS, INC.

326 BLACKBURN ST. - RIPON, WISCONSIN - 54971

PHONE: 920-748-6603 FAX: 920-748-9397

September 3, 2020

Description: Senstar Credit

General:

Accurate Controls to credit back 70 PAT-MD transmitters and 80 holsters. This means Accurate Controls will be providing 30 transmitters and 20 holsters total for the project.

All existing transmitters will be tested to verify they work with the new system.

Qty	Description	Rate	Ext
-70.0	Transmitter	\$275.00	-\$19,250.00
-80.0	holster	\$100.00	-\$8,000.00
5%	shipping	-\$27,250.00	-\$1,362.50
15%	Overhead & Profit	-\$27,250.00	(\$4,087.50)
Total			-\$32,700.00

Exclusions:

Our quotation assumes that the following will be supplied by others:

- Existing PAT-MD transmitters do not fall under warranty.

Accurate Controls, Inc. shall guarantee our equipment to be free from defects for a minimum period of one year. We shall send replacements of defective equipment in a timely fashion after diagnosis by our technical assistance department and a purchase order is issued. If it is determined that the equipment replaced is determined to be defective, no invoice will be sent. Accurate Controls, Inc. does not warrant equipment, which is damaged due to negligence, acts of god or vandalism; if the equipment is so damaged, an invoice for the purchase order will be sent.

Summary:

I trust that this gives you a good indication as to what Accurate Controls, Inc. will provide to you. If you have any questions, comments or suggestions, please feel free to call me at 920-748-6603 ext 262.

Respectfully,

Bob Nelson

Bob Nelson

Project Manager

Accurate Controls, Inc.

bnelson@accuratecontrols.com

(920) 748-6603 ext 262



CHANGE ORDER REQUEST

DATE: 09/25/2020

PCO#: 121

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: Toilet Accessories Submittal Credit
Proposed Scope of Work: Toilet Accessories Submittal Credit

The prices below are valid until 10/09/2020.

Funding Source for Change Order:
Granger/Megen GMP: (\$2,001.91)
Owner Contingency: \$2,001.91

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : Toilet Accessories Submittal Credit	New		0000610-00		(\$11.50)
Bonds					
2 : Toilet Accessories Submittal Credit	New		0000620-00		(\$19.17)
Sub Bond Risk					
3 : Toilet Accessories Submittal Credit	New		0000092-00		(\$48.83)
CM Fee					
4 : Toilet Accessories Submittal Credit	New		0000620-02		(\$5.75)
Insurances					
5 : Toilet Accessories Submittal Credit	New		0006300-00		(\$1,916.66)
Greybach					
Total:					(\$2,001.91)

Submitted By:

Jason Woehrle

09/25/2020
Date

Approved By:

Tiffany Zindel
Warren County

Date

COST SUMMARY
PROJECT CHANGE ORDER REQUEST



Project: **Warren County Jail**
RFC No: **14**

LABOR	Hours	Rate	Burden	Fringes	Total
Accessories Install Credit	-8	58.51	0.00	0.00	-468.08
SUBTOTAL					-468.08

SUBCONTRACT	Number	SUB RFC	Total
Accessories Material Credit			-1,357.31
SUBTOTAL			-1,357.31

SUMMARY	AMOUNT
Labor	\$-468.08
Subcontracts	\$-1,357.31
CHANGE ORDER COSTS	\$-1,825.39
Profit	5% \$-91.27
REVISED CONTRACT AMOUNT	\$-1,916.66

ERCo

— BUILDING SPECIALTIES —

EVAN RAGOUZIS CO.

4 Standen Dr., • Hamilton, OH 45015
ph: (513) 242-5900 • fax: (513) 242-5906

To: Graybach Const.
Attn: Robbie Klein

Quotation

Date: 8-4-20

Subject: Spec. Section 102800 Toilet Accessories - Submittal

We propose to: See below

For the sum of: See below

Credit for deletion of toilet accessories per approved submittal.

Total Deduct;.....(\$ 1,357.31)

Includes following deductions:

25- soap dispenser @ \$ 6.05ea
28- toil. tiss. dispenser @ \$ 7.77ea.
17- towel dispenser @ \$ 30.78ea.
4- baby seats @ \$ 48.00ea.
4- device holders @ \$ 68.31ea

- Quotations dated over 30 days subject to review.
- No tax included unless noted above.
- Additional costs may apply for project / contractor specific liability insurance endorsements.

Purchaser

Date Accepted

Quoted By Evan Ragouzis

Date 8-4-20

>

>



CHANGE ORDER REQUEST

DATE: 09/25/2020
PCO#: 122

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

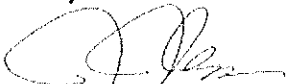
Default for PCO: Projector Lift Credit
Proposed Scope of Work: Projector Lift Credit

The prices below are valid until **10/09/2020**.

Funding Source for Change Order:
Granger/Megen GMP: (\$3,214.43)
Owner Contingency: \$3,214.43

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : Projector Lift Credit Bonds	New		0000610-00		(\$18.47)
2 : Projector Lift Credit Sub Bond Risk	New		0000620-00		(\$30.78)
3 : Projector Lift Credit CM Fee	New		0000092-00		(\$78.40)
4 : Projector Lift Credit Insurances	New		0000620-02		(\$9.23)
5 : Projector Lift Credit Greybach	New		0006300-00		(\$3,077.55)
Total:					(\$3,214.43)

Submitted By:



Jason Woehrle

09/25/2020
Date

Approved By:

Tiffany Zindel
Warren County

Date

COST SUMMARY
PROJECT CHANGE ORDER REQUEST



Project: **Warren County Jail**
RFC No: **15**

MATERIAL	Qty	Cost	Tax	Total
Projector Lift Credit	1	-2931.00	0.00	-2,931.00
			SUBTOTAL	-2,931.00

SUMMARY	AMOUNT
Material	\$-2,931.00
CHANGE ORDER COSTS	\$-2,931.00
Profit 5%	\$-146.55
REVISED CONTRACT AMOUNT	\$-3,077.55



CHANGE ORDER REQUEST

DATE: 09/25/2020
PCO#: 123

Granger Construction Company
1822- 00 - Warren County Jail

To: Tiffany Zindel
Warren County
406 Justice Drive
Lebanon, OH 45036
Phone: 513-695-1241
Fax:
Email: Tiffany.Zindel@co.warren.oh.us
CC:

From: Jason Woehrle
Granger Construction Company
6267 Aurelius Road
Lansing, MI 48911
Phone:
Fax:
Email: jwoehrle@grangerconstruction.com

Below is the detail for our proposal to complete the following changes in contract work:

Default for PCO: RFI 146 Dorm Lighting Changes
Proposed Scope of Work: RFI 146 Dorm Lighting Changes

The prices below are valid until 10/09/2020.

Funding Source for Change Order:
Granger/Megen GMP: \$2,418.20
Owner Contingency: (\$2,418.20)

PCO Item	Status	Change (in Days)	Contract Line	Notes	Amount
1 : RFI 146 Dorm Lighting Changes	New		0000610-00		\$13.89
Bonds					
2 : RFI 146 Dorm Lighting Changes	New		0000620-00		\$23.15
Sub Bond Risk					
3 : RFI 146 Dorm Lighting Changes	New		0000092-00		\$58.98
CM Fee					
4 : RFI 146 Dorm Lighting Changes	New		0000620-02		\$6.95
Insurances					
5 : RFI 146 Dorm Lighting Changes	New		0016000-00		\$2,315.23
LEE					
Total:					\$2,418.20

Submitted By:

Jason Woehrle

09/25/2020
Date

Approved By:

Tiffany Zindel
Warren County

Date

RFI 0146 - R12 Light Fixtures in Dorm Areas

Status: Distributed

Due Date: Aug 10, 2020

Question

Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:49 AM EDT

A4-05, B5-04, and C8-05 have an R12 light fixture indicated on the attached drawings. These areas have precast ceilings at 11'-10". Please confirm if these are to be S11 fixtures instead.

E109 (See page 2)

E108 (See page 3)

E107 (See page 4)

Linked to sheets: E109, E108, E107

Answer

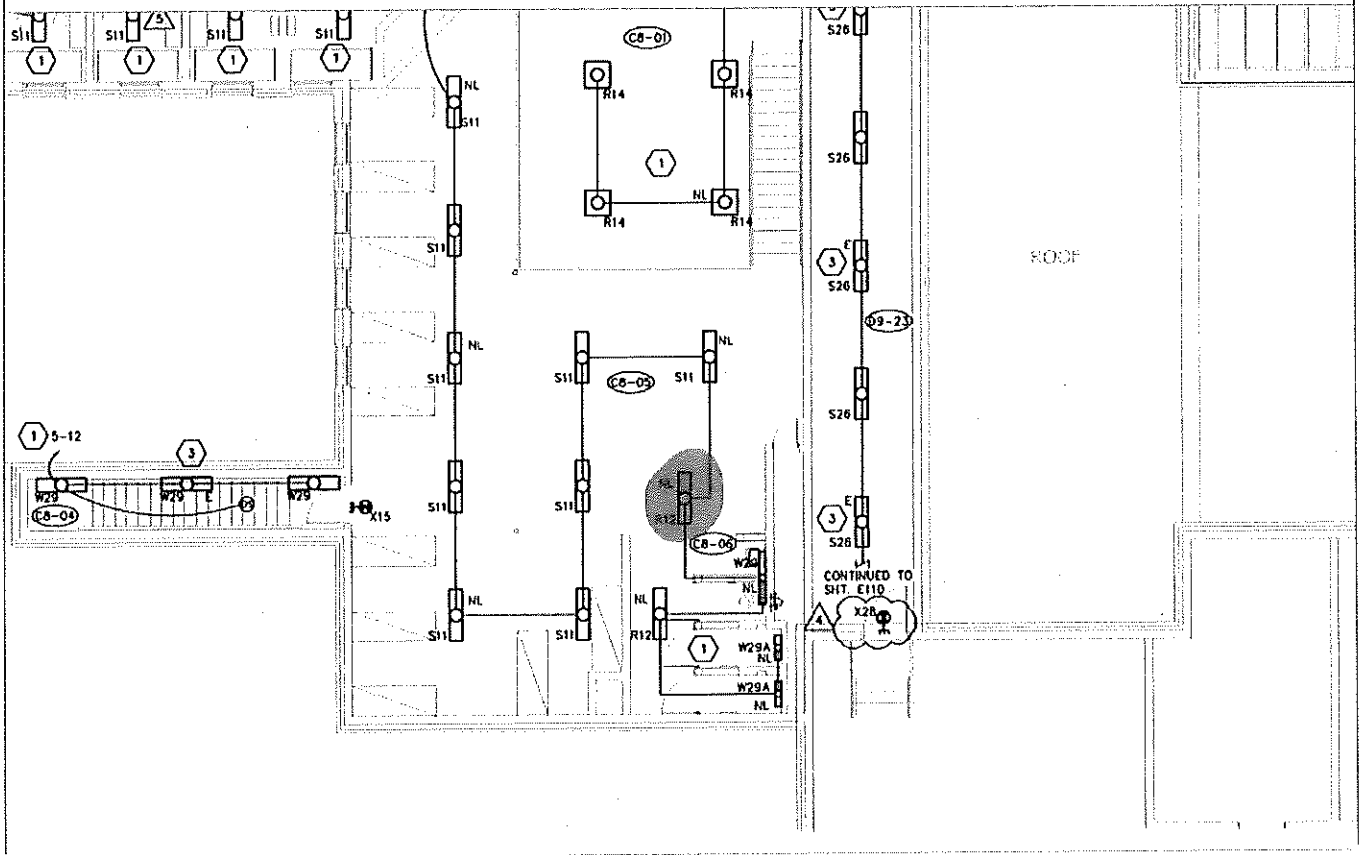
Jeffrey Wegrzynowski (Granger Construction) on Aug 14, 2020 at 8:22 AM EDT

In the inmate holding areas - the areas that have precast ceilings should use the Type S11 lighting fixtures.

The highlighted "R12" lighting fixture in room/area A4-05 should be changed to a "S11". The highlighted "R12" lighting fixture in room/area B5-05 should be changed to a "S11"; and be rotated and centered in the precast ceiling area between the two ceiling/soffit areas. The highlighted "R12" lighting fixture in room/area C8-05 should be changed to a "S11".

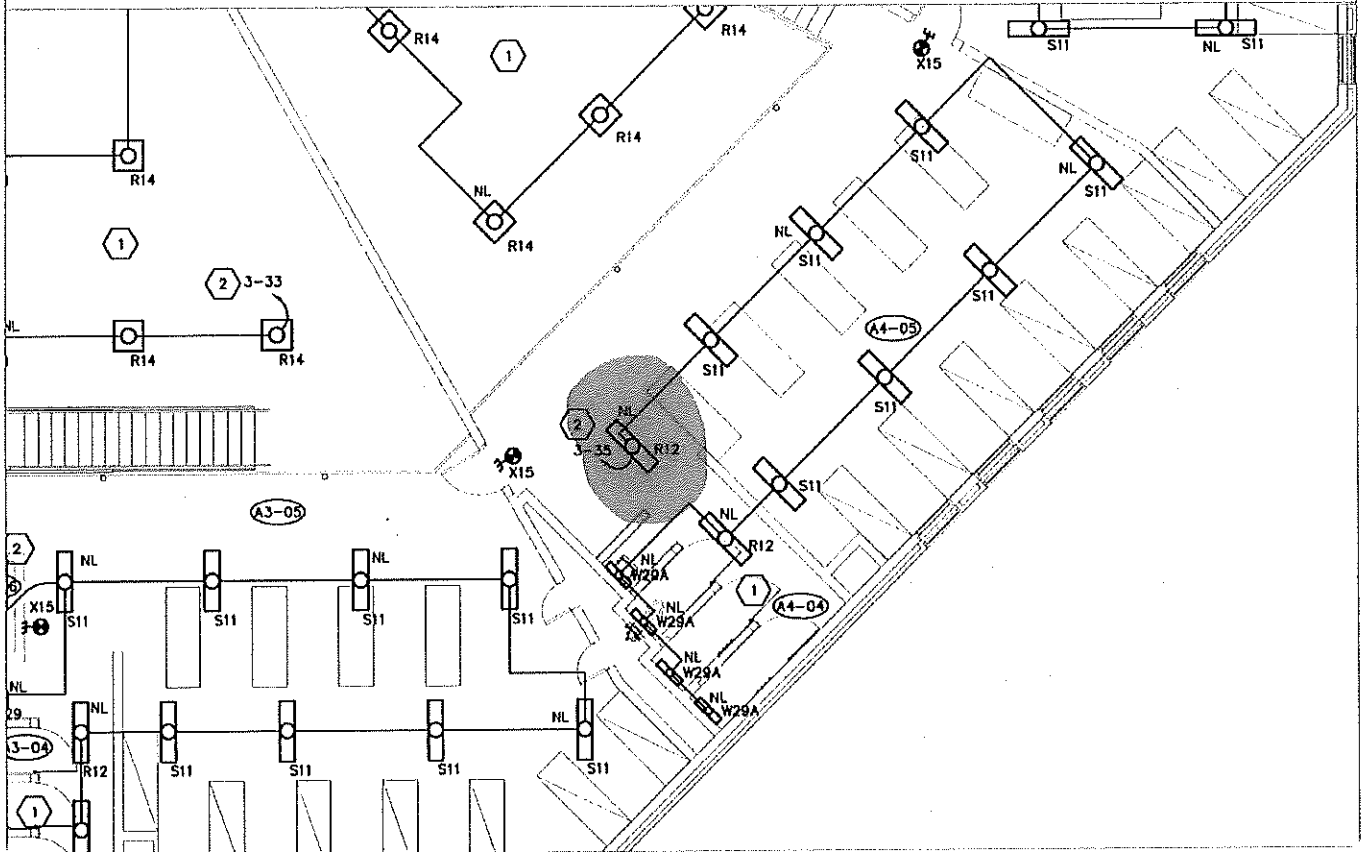
E109




Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:49 AM EDT



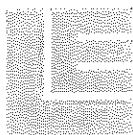
E107

Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:49 AM EDT



History	
Distributed	Jeffrey Wegrzynowski (Granger Construction) on Aug 14, 2020 at 8:23 AM EDT
<ul style="list-style-type: none"> Sent to: Kyle Rosinski (Granger Construction), Jeffrey Wegrzynowski (Granger Construction) 	
Answered and sent to manager	Jeffrey Wegrzynowski (Granger Construction) on Aug 14, 2020 at 8:22 AM EDT
<ul style="list-style-type: none"> Answer added: In the inmate holding areas - the areas that have precast ceilings should use the Type S11 lighting fixtures. The highlighted "R12" lighting fixture in room/area A4-05 should be changed to a "S11". The highlighted "R12" lighting fixture in room/area B5-05 should be changed to a "S11"; and be rotated and centered in the precast ceiling area between the two ceiling/soffit areas. The highlighted "R12" lighting fixture in room/area C8-05 should be changed to a "S11". 	
Linked to sheet	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 11:57 AM EDT
<ul style="list-style-type: none">  E109 	
Linked to sheet	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 11:57 AM EDT
<ul style="list-style-type: none">  E108 	
Linked to sheet	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 11:54 AM EDT
<ul style="list-style-type: none">  E107 	
Question sent to reviewer	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:54 AM EDT
Question edited	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:51 AM EDT
<ul style="list-style-type: none"> Question updated: A4-05, B5-04, and C8-05 have an R12 light fixture indicated on the attached drawings. These areas have precast ceilings at 11'-10". Please confirm if these are to be S11 fixtures instead. 	
Question returned to manager	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:50 AM EDT
<ul style="list-style-type: none"> Message: detail 	
Question drafted and sent to reviewer	Jeffrey Wegrzynowski (Granger Construction) on Aug 5, 2020 at 10:49 AM EDT

- **Question added:**
A4-05, B5-04, and C8-05 have an R12 light fixture indicated on the attached drawings. These areas have precast ceilings at 11'-10". Please confirm if these should be S11 fixtures instead.
- **Title added:**R12 Light Fixtures in Dorm Areas
- **Submitter added:**Jeffrey Wegrzynowski (Granger Construction)
- **Manager added:**Kyle Rosinski (Granger Construction)
- **References added:**
 - E109
 - E108
 - E107
- **Number added:**0146
- **Reviewer added:**Rick Smith (Wachtel & McAnally Architects)
- **Due date added:**Aug 10, 2020



Lake Erie Electric, Inc.

Contractors and Engineers • Dayton Office

OH Lic. # 26769

360 Industrial Drive, Franklin, Ohio 45005 Phone: 937-743-1220 Fax: 937-743-1227

Established 1952

Warren County Jail

9/2/20

LEE Job Number: 1019-1016

PO Number: 10658

Warren County

Justice Dr.

Lebanon, OH

Project:

Warren County Jail

LEE CO No.:TBD

Re :RFI #146 Dorm Area Lighting Changes

Please find attached Lake Erie Electric, Inc. - Dayton Division's quotation for the project listed above for the referenced added scope. All associated breakdown is attached.

LEE Cost: \$2,315.23

Bond

CO Net: \$2,315.23

Please do not hesitate to call me if you have any questions regarding this change order.

Respectfully,

Lake Erie Electric, Inc.

Sean M. Mondello

Project Manager

CORPORATE OFFICE: 25730 First Street, PO Box 450859, Westlake, Ohio 44145 Phone: 440-835-5565 Fax: 440-835-5688

Project Warren County Jail
 Name Lebanon, OH

Contractor's
 Contract No. 1822-000121

County Montgomery

Project No. _____ Phase Contr. No. _____
 Change Order No. TBD for RFI#112

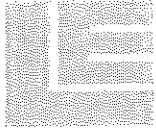
Subcontractor Name and Address
LAKE ERIE ELECTRIC, INC.
360 INDUSTRIAL DRIVE
FRANKLIN, OH 45005

I.D. No. _____ Phase Contr. No. _____
 Type of Contract ELECTRICAL

A. Labor Summary (exclude fringes) - GC 7.7.2.2		Premium Portion ¹		
<u>Journeyman</u>	_____ hours x <u>30.00</u> /hour	_____ /hour	=	_____
<u>Foreman</u>	_____ hours x <u>33.00</u> /hour	_____ /hour	=	_____
<u>Gen Fore</u>	_____ hours x <u>35.40</u> /hour	_____ /hour	=	_____
<u>PM</u>	_____ hours x <u>80.00</u> /hour	_____ /hour	=	_____
				Total (B) \$ _____
B. Fringes - GC 7.7.2.3				
<u>Journeyman</u>	_____ hours x <u>20.19</u> /hour	_____ /hour	=	_____
<u>Foreman</u>	_____ hours x <u>19.84</u> /hour	_____ /hour	=	_____
<u>Gen Fore</u>	_____ hours x <u>19.96</u> /hour	_____ /hour	=	_____
<u>PM</u>	_____ hours x _____ /hour	_____ /hour	=	_____
				Total (C) \$ _____
C. Allowable Payroll Expenses - GC 7.7.2.4				
<u>Journeyman</u>	_____ hours x <u>6.60</u> /hour	_____ /hour	=	_____
<u>Foreman</u>	_____ hours x <u>7.26</u> /hour	_____ /hour	=	_____
<u>Gen Fore</u>	_____ hours x <u>7.79</u> /hour	_____ /hour	=	_____
<u>PM</u>	_____ hours x _____ /hour	_____ /hour	=	_____
				Total (D) \$ _____
D. Equipment Rental (attach itemized quotes / invoices)				Total (D) \$ _____
E. Administrative and Processing fees				Total (E) \$ _____
F. Trucking (attach itemized supporting documentation)				Total (F) \$ _____
G. Material (attach itemized supporting documentation)				Total (G) \$ <u>2,013.24</u>

	Sub Total		\$ 2,013.24
H. Contractor Overhead and Profit GC 7.7.2.10	x 15.00%	Total (H)	\$ 301.99
I. Subcontractor Tier Cost (attach itemized supporting documentation) GC 7.7.2.10.1		Total (I)	\$ _____
J. Subcontractor Tier Markup	x 5.00%	Total (J)	\$ _____
K. Miscellaneous - GC 7.7.2.12		Total (K)	\$ _____
1. Premium portion (labor and fringes) only for approved overtime - attach itemized supporting documentation ²			
Grand Total (Sub Total + H + I + J + K)			\$ 2,315.23

1. Premium portions are shown on Line (K), sub-totals are not shown. Premium portion is the difference between Overtime and Regular-time Rates
 2. Not applicable to all change orders. Subject to review and acceptance of Contracting Authority.



Lake Erie Electric, Inc.

Contractors and Engineers • Dayton Office

OH Lic. # 2

360 Industrial Drive, Franklin, Ohio 45005 Phone: 937-743-1220 Fax: 937-743-

Established 1952

WARREN COUNTY JAIL MATERIAL COMPILATION

FROM TAKEOFF	\$	-
Kendall	\$	2,013.24

NET MATERIAL TOTAL \$ 2,013.24



KENDALL ELECTRIC
11310 MOSTELLER ROAD
CINCINNATI, OHIO 45241

CUSTOMER

LAKE ERIE

JOB NAME

WAREN COUNTY JAIL

DATE

8/27/2020

CHANGE

RFI 146

ADD/DEDUCT QUANTITY

TYPE

TOTAL

ADD

3

TYPE S11

\$ 671.08 \$ 2,013.24

R12 NON-RETURNABLE

\$ 2,013.24

ZACH DUNCAN

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1404

Adopted Date October 06, 2020

ASSIGN AUTHORITY TO TIFFANY ZINDEL, COUNTY ADMINISTRATOR TO ACT AS THE WARREN COUNTY BOARD OF COMMISSIONERS' DESIGNEE FOR APPROVING INTER-COUNTY ADJUSTMENTS OF UNSPENT ALLOCATED FUNDS

WHEREAS, Ohio Administrative Code Section 5101:9-6-82 provides for the inter-county adjustment of any state or federal county family services agency allocation; and

WHEREAS, counties have requested such adjustments to best meet the needs of their constituents, due to the limited allowable uses of each fund and nuances of the random moment sampling process on a county's funding stream; and

WHEREAS, any unspent allocations within a county at the end of a fiscal year revert back to the state for use by the State Department of Job and Family Services; and

WHEREAS, a county family services agency must make such inter-county adjustment request to the Ohio Department of Job and Family Services, and include with such request a resolution authorizing such that county's board of county commissioners; and

WHEREAS, in accordance with Ohio Administrative Code Section 101:9-6-82 (G)(2)(a), a Board of County Commissioners may adopt a resolution assigning authority to the CDJFS Director or County Administrator to serve as their designee and therefore grant that party authority to sign the inter-county adjustment agreement on behalf of the county for a specific period of time; and

NOW THEREFORE BE IT RESOLVED, that the Warren County Board of Commissioners does hereby assign authority to Tiffany Zindel, County Administrator, to serve as the Warren County Board of Commissioners' designee and thereby grants Tiffany Zindel the authority to approve inter-county adjustments on behalf of Warren County until December 2021.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Human Services (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1405

Adopted Date October 06, 2020

APPROVE AND ENTER INTO A TANF SUBGRANT AGREEMENT BETWEEN THE WARREN COUNTY COMMISSIONERS ON BEHALF OF THE WARREN COUNTY DEPARTMENT OF HUMAN SERVICES AND WARREN COUNTY CHILDREN SERVICES

BE IT RESOLVED, to approve and authorize County Administrator to enter into a Contract with Warren County Department of Human Services and Warren County Children Services in the total amount of \$500,000.00 Title XX TANF Transfer funds for 10/01/20, ending 09/30/21; contract attached hereto and made a part hereof:

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: c/a—Warren County Children Services
Children Services (file)
Human Services (file)

**WARREN COUNTY DEPARTMENT OF JOB AND FAMILY SERVICES
TITLE XX TANF SUBGRANT AGREEMENT**

WITNESSETH THAT;

WHEREAS, it is the purpose of the Warren County Department of Job and Family Services to provide a variety of social services to Title XX TANF Transfer-eligible individuals in the community as a way to improve and enhance the quality of life of the county citizenry;

And

WHEREAS, one method the Department utilizes to fulfill this objective is through the issuance of Title XX TANF Transfer sub-grant to various community agencies that provide direct services to the target population in order to remediate socio-economic barriers;

And

WHEREAS, the Warren County Children Services is one such agency with which the Warren County Department of Job and Family Services desires to enter into contract for delivery of services;

NOW, THEREFORE, in consideration of the promises and the mutual covenants and obligations herein contained, and subject to the terms and conditions hereinafter stated, the parties hereto understand and agree as follows:

ARTICLE I DEFINITIONS, PURPOSE, OBLIGATIONS

A. Definitions

“State” means the Governor of the State of Ohio, or any agency, department, person or persons authorized in his behalf.

“Sub-recipient” means Warren County Children Services; 416 S East Street Lebanon OH 45036.

"Department" means the Warren County Department of Job and Family Services, 416 S East Street Lebanon OH 45036

B. Purpose of Sub-grant

The purpose of the sub-grant is to state the covenants and conditions under which the Sub-recipient will provide services for the purpose of promoting economic self-sufficiency and meeting the social service needs of low income individuals and families in Warren County.

C. Obligations of the Sub-recipient

The Sub-recipient agrees to operate a program, described in detail in Exhibit I hereafter, in accordance with Federal, State, and local laws, ordinances, regulations, and/or guidelines and any additions, deletions or amendments thereto.

The Sub-recipient shall not perform in any way inconsistent with the terms of this sub-grant except as approved, in writing, by the Department. Adjustments in the services to be provided per the attached Exhibits may not be made without prior approval of the Department.

The Sub-recipient agrees to accept responsibility for reconciling and/or complying with any audit finding rendered by an appropriate state or federal audit entity when the finding relates directly to the provisions of this sub-grant. The Sub-recipient agrees to reimburse the Department the full amount of payment received due to duplicate billing, erroneous billings, deceptive claims or falsification.

D. Client Eligibility

The Sub-recipient will determine client eligibility for those who will be serviced through the Sub-recipient's program, pursuant to Title XX of the Social Security Act, Chapter 5101 of the Ohio Revised Code, and any rules promulgated by the Ohio Department of Job and Family Services. The accuracy and legitimacy of the Sub-recipient's eligibility determination process will be subject to periodic monitoring by the Department.

ARTICLE II CONTENT OF PROGRAM PROPOSAL

Refer to Exhibits A, and incorporated herein by this reference.

ARTICLE III COMPENSATION AND METHOD OF PAYMENT

A. Reimbursement

The Department agrees that reimbursement of all costs will be dependent upon Sub-recipient performance in the delivery of services specified in Exhibit A, attached, which includes intake and investigations, case management services, casework counseling, parent education, diagnostic assessments and homemaker services for children and families with open cases. Payment shall be made by the Warren County Auditor upon proper presentation of request, when approved by the Department and the Sub-recipient, within 30 days from receipt of the approved invoice.

Reimbursement of Sub-recipient's cost shall be based on the costs billed through the Certification of Funds Process.

B. Availability of Funds

Payments for all services provided in accordance with the provisions of this Sub-Grant Agreement are contingent upon the availability of (and will not exceed the total of) local, state, and federal funds as follows:

TITLE XX/TANF TRANSFER FUNDS	\$ 500,000.00	CFDA NUMBER 93.667
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Funds available under this agreement may not be used for food. Mileage cannot exceed the county's established mileage reimbursement rate, currently \$0.50.

C. Maximum Compensation

The Sub-recipient agrees to accept as payment in full, for services rendered in a manner satisfactory to the Department, the compensation stipulated in Exhibit I of this sub-grant, but not to exceed \$500,000.00 during the term of this sub-grant.

D. Provision of Funding

If funds anticipated to be received by the Department are suspended, not forthcoming, or terminated in whole or in part, funding for this sub-grant shall terminate, and the sub-recipient shall receive payments for services rendered up to the date of notification of non-funding.

Unearned payments under this sub-grant may be suspended or terminated upon refusal to accept any additional conditions that may be imposed by ODJFS at any time.

ARTICLE IV ACCESS TO RECORDS

At any time, during regular business hours, with reasonable notice, and as often as the Department, the Comptroller General of the United States, the State, or other agency or individual authorized by the Department may deem necessary, Sub-recipient shall make available to any or all the above named parties or their authorized representatives, all sub-grantees, invoices, receipts, payrolls, personnel records, enrollees records, reports, documents and all other data relating to all matters covered by this Sub-grant. The Department and the above named parties shall be permitted by the Sub-recipient to inspect, audit, make excerpts, photo-static copies and/or transcripts of any and all documents relating to all matters covered by this contract. Sub-recipient must maintain all required records for three years after final payment is made and all other pending matters are closed.

Except as noted above, the Sub-recipient agrees that the use or disclosure by any party of any information concerning eligible individuals for any purpose not directly related to the performance of this sub-grant is prohibited, except upon written consent of the eligible individual or that individual's parent or guardian.

ARTICLE V TIME OF PERFORMANCE

This Sub-grant Agreement shall be effective **October 1, 2020** and shall terminate on **September 30, 2021**. The services of the Sub-recipient are to commence immediately upon execution of the sub-grant agreement and all costs allowable under the sub-grant agreement shall be incurred and the final invoice received by the Department no later than close of business **November 1, 2021**.

ARTICLE VI BONDING AND INSURANCE

The Sub-recipient shall maintain during the term of this Sub-grant agreement, the applicable insurance and bonds specified below:

- a. Worker's Compensation Insurance as required by Ohio law.
- b. Public Liability Insurance on comprehensive basis, including Contingent Liability, in amounts not less than \$100,000 per person, \$300,000 per occurrence for bodily injury, and \$25,000 per occurrence for property damage.
- c. Automobile Liability Insurance covering all owned, non-owned and hired vehicles used in performance of this sub-grant agreement, in amounts as indicated in b, above.

ARTICLE VIII INDEPENDENT SUB-RECIPIENT RELATIONSHIP

It is the intent of the Sub-recipient and the Department to create an independent Sub-recipient relationship. The Sub-recipient will determine eligibility for services based upon the guidelines or direction set forth by the Department, but the Sub-recipient shall determine the legal means by which this work is accomplished. The Department is not responsible for withholding, and shall not withhold, FICA or taxes of any kind from any compensation paid or owed to the Sub-recipient. Neither the Sub-recipient nor Sub-recipient's employees shall be entitled to receive from the Department any benefits which the officers and employees of the Department are entitled to receive and shall not be entitled to receive from the Department workers' compensation, unemployment compensation, medical insurance, life insurance, paid vacations, paid holidays, sick leave,

pension benefits, profit sharing, Social Security, Ohio Public Employees Retirement, or any and all other benefits on account of their work for the Department.

This Sub-grant Agreement does not create an agency relationship, or partnership between the Sub-recipient and the Department. The Sub-recipient has no authority to enter into agreements on behalf of the Department, to bind the Department to any obligation, or to incur any liability in behalf of the Department.

ARTICLE IX MAINTENANCE OF EFFORT

It is understood and agreed that the level of services, activities, and expenditures by the Sub-recipient, in existence prior to the initiation of services hereunder shall be continued and not be reduced in any way as a result of this sub-grant agreement except for reduction unrelated to the provisions of purposes herein stated. The Sub-recipient shall certify that any costs incurred pursuant to this Sub-grant agreement will not be included as a cost of any other federally financed program in either the current or a prior period.

ARTICLE X CONFLICT OF INTEREST

The Sub-recipient covenants that no person, under its employ, who presently exercises any functions or responsibilities in connection with the Department or projects or programs funded by the Department, has any personal financial interest, direct or indirect, in this Sub-grant agreement. The Sub-recipient further covenants that in the performance of this Sub-grant agreement, no person having such conflict shall be employed. Any such interest, on the part of the Sub-recipient or its employees, must be disclosed in writing to the Department.

ARTICLE XI MODIFICATIONS

Modifications of this Sub-grant agreement may be made by the written mutual consent of the parties hereto.

ARTICLE XII TERMINATIONS

This agreement may be terminated by:

- A. Either party, upon the provision of thirty (30) days written notice.
- B. Mutual Agreement of the parties.
- C. Death or some other incapacity that prevents the Sub-recipient from fulfilling Sub-recipient's duties as set out in this Sub-grant agreement.

ARTICLE XIII BREACH BY SUB-RECIPIENT

In the event that the Sub-recipient breaches the terms and conditions of this Sub-recipient, the Department may, at its discretion, immediately terminate the Agreement, withhold payment for services not rendered by the Sub-recipient or both.

ARTICLE XIV ADDITIONAL OBLIGATIONS AND ASSURANCES OF SUBRECIPIENT

1. The Sub-recipient certifies that it possesses legal authority to enter into this Sub-grant agreement and that a resolution, a motion or similar action has been duly adopted as an official act of the Sub-recipient's governing body which authorizes the negotiation and execution of this Sub-grant agreement by the representative who signed the Sub-grant agreement below on behalf of the Sub-recipient.
2. Subgrantee hereby agrees that it will comply with Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d et seq.); Title IX of the Education Amendments of 1972 (20 U.S.C. 1681 et seq.); Section 504 of

the Rehabilitation Act of 1973 (29 U.S.C. 794.); the Age Discrimination Act of 1975 (42 U.S.C. 6101 et seq.) all provisions required by the implementing regulations of the Department of Agriculture; Department of Justice Enforcement Guidelines (28 CFR Part 50.3 and Part 42); and FNS directives and guidelines, to the effect that, no person shall on the grounds of race, color, national origin, sex, religious creed, age, political beliefs, disability, or reprisal or retaliation for prior civil rights activity, be excluded from participation in, be denied benefits of, or otherwise be subject to discrimination under any program or activity for which Subgrantee received Federal financial assistance from FNS; and hereby gives assurances that it will immediately take measures necessary to effectuate this agreement.

3. The Sub-recipient shall have safeguards to prohibit employees from using their positions for a purpose that is, or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business or other ties.
4. The Sub-recipient shall maintain appropriate standards of health and safety in work and training situations.
5. The Sub-recipient may not hold the Department responsible for payment of funds if those same funds have not been received by, or from the State.
6. All reports, brochures, literature and pamphlets developed by the Sub-recipient for its work under this Sub-grant agreement shall acknowledge the Department and its role as the funding source for activities, and programs conducted by the Sub-recipient pursuant to this Sub-grant agreement.
7. The Sub-recipient shall maintain easily accessible and auditable financial records.
8. The Sub-recipient, as a Sub-recipient of federal funds, shall provide a copy of their A-133 state audit. An A-133 audit is required if an organization is a non-profit, or a state or local government agency, and expends \$750,000.00 or more per year in federal awards.
9. The Sub-recipient assumes full financial liability for any subsequent questioned or disallowed costs associated with activities conducted by the Sub-recipient pursuant to this Sub-grant agreement.
10. The Sub-recipient will submit periodic reports, showing progress towards achieving the outcomes which are specified in Exhibit II, attached.
11. The Sub-recipient shall not discriminate against any employee or applicant for employment because of race, color, religion, gender, or national origin. The Sub-recipient will take affirmative action to insure that applicants are employed, and employees are treated during employment without regard to their race, color, religion, gender, or national origin.
12. The Sub-recipient shall, in all of Sub-recipient's solicitation or advertisements for employees, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, gender, or national origin.
13. The Sub-recipient shall comply with provisions of the Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by the Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations, 41 C.F.R. Chapter 60.
14. The Sub-recipient warrants that neither it nor any party with whom it may subcontract for the performance of this Sub-grant agreement are listed on the debarred list due to violations of Titles VI, or VII of the Civil Rights Act of 1964, nor is the Sub-recipient aware of any pending action which might result in such debarment..
15. The Sub-recipient shall provide workers' compensation or other insurance coverage for injuries which

may be suffered by its employees in accord with 20 CFR 692.22.

16. The Sub-recipient shall comply with any applicable minimum wage and maximum hour provisions of the Fair Labor Standards Act, and the Ohio Revised Code.
17. The Sub-recipient shall not make claims for payment from the Department for services rendered to eligible individuals when such claims would duplicate claims made from other sources of public funds available for the same service. The services being contracted for hereunder are not available on a non-reimbursable basis.
18. The Sub-recipient shall not discriminate against applicants for, and participants in the Ohio Works First Program established under Chapter 5107 of the Revised Code, and the Prevention, Retention, and Contingency Program established under Chapter 5108 of the Ohio Revised Code. The Sub-recipient further certifies that it will include a provision in any agreement, contract, grant or procedure requiring the other party to include a similar provision in any subcontract, agreement or grant issued by that entity for the performance of duties related to such agreement, contract, grant or procedure.
19. The Sub-recipient shall cooperate with the Ohio Department of Job and Family Services, and any Ohio Child Support Enforcement Agency in ensuring that its employees meet child support obligations established under state law. The Sub-recipient also agrees that it will include a like provision in any agreement, contract, grant, or procedure related to this Sub-grant agreement which require any subcontractor, or other party to cooperate with the Ohio Department of Job and Family Services, and any Ohio Child Support Enforcement Agency in ensuring that its employees meet child support obligations established under state law.
20. The Sub-recipient agrees to be bound by the disclosure rules of the Ohio Department of Job and Family Services. Disclosure of information in a manner inconsistent with said rules is a breach of this Sub-grant agreement, and a violation of Ohio Revised Code Sections 5101.27, and 5101.99.
21. The Sub-recipient agrees that the services it delivers pursuant to this Sub-grant agreement will be delivered in a manner consistent with the Department's Title XX Policy.
22. The Sub-recipient agrees to comply with the Copeland "Anti-Kick Back" Act, 18 U.S.C. § 874, as supplemented by Department of Labor Regulations, 29 C.F.R. Part 3.
23. The Sub-recipient agrees to comply with the Davis-Bacon Act, 40 U.S.C. § 276a through 276a-7, as supplemented by the Department of Labor Regulations, 29 C.F.R. Part 5.
24. The Sub-recipient agrees to comply with Sections 103, and 107 of the Contract Work Hours and Safety Standards Act, 40 U.S. C. § 327 through 330, as supplemented by Department of Labor Regulations, 29 C.F.R. Part 5.
25. The Sub-recipient agrees to comply with all applicable standards, orders, or requirements issued under Section 306 of the Clean Air Act, 42 U.S.C. § 1875(h); Section 508 of the Clean Water Act, 33 U.S.C. § 1368; Executive Order 11738; and, environmental protection agency regulations, 40 C.F.R. Part 15.
26. The Sub-recipient agrees to comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy policy and Conservation Act, Pub.L. 94-136, 89 Stat.871.
27. The Sub-recipient agrees that the copyright to any copyrightable material created pursuant to this Sub-grant agreement, and that any discovery or invention which arises or is developed pursuant to the Sub-recipient's obligations under this Sub-grant agreement is the property of the Department.

28. The Sub-recipient agrees to adhere to the Records Retention Schedule for all documentation related to this agreement.

ARTICLE XV NOTICES

Any and all notices required by this Agreement, unless otherwise specified herein, shall be delivered as follows:

To the Department:	To the Sub-recipient:
416 S East Street, Lebanon OH 45036	416 S East Street, Lebanon OH 45036

ARTICLE XVI MERGER

This Agreement is the complete understanding between the parties. No prior or contemporaneous agreements, whether written or oral, may modify, enlarge or alter this written agreement except as incorporated by reference herein.

ARTICLE XVII SEPARABILITY

If any portion of this Sub-grant agreement is deemed to be illegal due to conflict with state or local law, the remainder of the Sub-grant agreement shall remain in full force and effect.

ARTICLE XVIII FORCE MAJUERE

Should the subject matter of this Sub-grant agreement be made illegal, abolished by the legislature or destroyed by an Act of God, or civil unrest then the agreement shall be terminated.

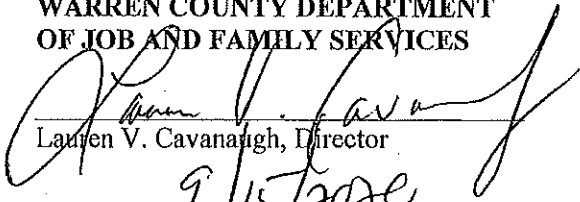
ARTICLE XIX HEADINGS

The paragraph headings contained in this Sub-grant agreement are solely for organizational purposes, and are of no substantive effect.

ARTICLE XX GOVERNING LAW


The parties agree that this Agreement shall be governed by, construed, and enforced in accord with the laws of the State of Ohio.

**WARREN COUNTY DEPARTMENT
OF JOB AND FAMILY SERVICES**




Lauren V. Cavanaugh, Director
Date 9/15/2020

**WARRENCOUNTY
CHILDREN SERVICES**



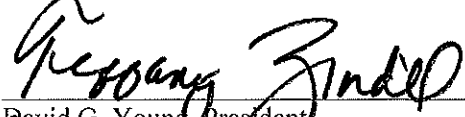
Susan Walther, Director
Date 9/18/2020

WARREN COUNTY PROSECUTOR
Approved as to Form Only

By: 

Adam M. Nice 9/11/20

**BOARD OF WARREN COUNTY
COMMISSIONERS**



~~David G. Young, President~~
Tiffany Zindel, County Administrator

~~Tom Grossmann, Vice President~~

~~Shannon Jones, Member~~
Date 10-6-2020

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1406

Adopted Date October 06, 2020

APPROVE AND ENTER INTO A TANF SUBGRANT AGREEMENT BETWEEN THE WARREN COUNTY COMMISSIONERS ON BEHALF OF THE WARREN COUNTY DEPARTMENT OF HUMAN SERVICES AND WARREN COUNTY CHILDREN SERVICES

BE IT RESOLVED, to approve and an authorize County Administrator to enter into a Contract with Warren County Department of Human Services and Warren County Children Services in the total amount of \$125,000.00 TANF/TANF Admin/PRC funds for 10/01/20, ending 09/30/21; contract attached hereto and made a part hereof:

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: c/a—Warren County Children Services
Human Services (file)
Children Services (file)

**WARREN COUNTY DEPARTMENT OF JOB AND FAMILY SERVICES
TANF/PRC CHILD WELFARE SUBGRANT AGREEMENT**

WITNESSETH THAT;

WHEREAS, it is the purpose of the Warren County Department of Job and Family Services, Division of Human Services to provide a variety of Social Services to TANF/PRC eligible individuals in the community as a way to improve and enhance the quality of life of the county citizens;

And

WHEREAS, one method the Department utilizes to fulfill this objective is through the issuance of TANF funding through the Prevent Retention and Contingency Program for both direct and indirect services and benefits;

And

WHEREAS, Warren County Division of Human Services desires to enter into a Sub-grant agreement with Warren County Division of Children Services for delivery of both direct and indirect services and benefits;

NOW, THEREFORE, in consideration of the promises and the mutual covenants and obligations herein contained, and subject to the terms and conditions hereinafter stated, the parties hereto understand and agree as follows:

ARTICLE I DEFINITIONS, PURPOSE, OBLIGATIONS

A. Definitions

"State" means the Governor of the State of Ohio, or any agency, department, person or persons authorized in his behalf.

"Sub-recipient" means Warren County Job and Family Services, Division of Children Services; 416 S East Street Lebanon OH 45036.

"Department" means the Warren County Department of Job and Family Services, Division of Human Services, 416 S East Street Lebanon OH 45036

B. Purpose of Sub-grant

The purpose of the sub-grant is to state the covenants and conditions under which the Sub-recipient will provide services and benefits for the purpose of promoting economic self-sufficiency and meeting the social service needs of low income individuals and families and to provide assistance to needy families so that children may be cared for in their own homes or in the homes of relatives.

C. Obligations of the Sub-recipient

The Sub-recipient agrees to operate a program, described in the Warren County Job and Family Services Prevention Retention and Contingency Plan as found in Exhibit A, in accordance with Federal, State, and local laws, ordinances, regulations, and/or guidelines and any additions, deletions or amendments thereto.

The Sub-recipient shall not perform in any way inconsistent with the terms of this sub-grant except as approved, in writing, by the Department. Adjustments in the services to be provided per the attached Exhibits may not be made without prior approval of the Department.

The Sub-recipient agrees to accept responsibility for reconciling and/or complying with any audit finding rendered by an appropriate state or federal audit entity when the finding relates directly to the provisions of this sub-grant. The Sub-recipient agrees to reimburse the Department the full amount of payment received due to duplicate billing, erroneous billings, deceptive claims or falsification.

D. Client Eligibility

The Sub-recipient will determine client eligibility for those who will be served through the Sub-recipient's program, pursuant to Chapter 5101 of the Ohio Revised Code, and any rules promulgated by the Ohio Department of Job and Family Services. The accuracy and legitimacy of the Sub-recipient's eligibility determination process will be subject to periodic monitoring by the Department.

ARTICLE II CONTENT OF PROGRAM PROPOSAL

Refer to Exhibits A, and incorporated herein by this reference.

ARTICLE III COMPENSATION AND METHOD OF PAYMENT

A. Reimbursement

The Department agrees that reimbursement of all costs will be dependent upon Sub-recipient performance in the delivery of services and benefits specified in Exhibit A, attached, which includes; Kinship Navigator and Outreach Services, KPIP/KCCP Administration, Kinship Caregiver Payments, Child Welfare Case Management, Child Welfare Services and Benefits as described in the Warren County PRC Plan, Exhibit A. Payment shall be made by the Warren County Auditor upon proper presentation of request, when approved by the Department and the Sub-recipient, within 30 days from receipt of the approved invoice.

Reimbursement of Sub-recipient's cost shall be both through Social Services Random Moment Study and Direct Services expense reimbursement. The Sub-recipient agrees to bill on either a monthly or quarterly basis.

The Sub-recipient will bill the Department based on Program/Activity hits- 760/760, 760/762, 760/776, 760/777, 760/785, 760/786 and any direct services provided. Below is a description of the invoicing process for RMS and Direct Service Expenditures;

B. Random Moment Sample Code Descriptions

760- PRC Child Welfare Eligibility: Activities related to the determination of eligibility of the child or the child's caretakers for Prevention, Retention, and Contingency (PRC) services: includes case file review, verification of documentation, approval or denial of application and preparation of notice of decision in the office; field, by mail or telephone.

762-PRC Child Welfare Family Preservation Activities: Includes activities performed on behalf of a child and their family if all of the following apply: there is not an in-home case or a custody case established, the child and family's income meets the income eligibility criteria for the county's PRC plan, and the county has included these service in its PRC plan. Activities include: screening and assessment of needed services, providing program information and referral and linking to services such as family preservation services, domestic violence services, parenting training, substance abuse treatment, and counseling.

776- Kinship Navigator Outreach: general information and referral: website, public service announcements, brochures, bill boards, phone banks, and other services.

785- Child Welfare PRC Custody Case Management: A custody case has been established, a reunification plan is in place and the child is expected to be reunified with the family within six months of placement; the child and family's income meets the income eligibility criteria for the county's PRC plan; and the county has included these child protective services in their PRC Plan. Activities include: those related to family preservation to reunite a child with the child's family. If there is a custody case, but any one of the following applies: no reunification plan, placement exceeds six months, if the family's income exceeds the PRC income eligibility limit, or the county agency has not included these services its PRC plan; then use code 769.

786- Child Welfare Non-Custody Case Management: An in-home case is established; the child and family's income meets the income eligibility criteria for the county's PRC Plan and the county has included these services in its PRC Plan. Activities include: development and implementation of a regimen of reasonable efforts which are undertaken to prevent the removal of the child into placement, and/or activities related to the development and implementation of a regimen of services for an adopted child and/or the child's family which are undertaken to support the maintenance of the adoption and/or prevent the disruption of the adoption. Such activities include supporting the management of care or services referral to, or arranging for, care services; planning or supervising care or services; supporting access to care or services; assessing results of care or services; and performing a case assessment. If an in-home case is established, but the family's income exceeds the PRC income eligibility limit, or the county agency has not included these services in its PRC Plan then use code 770.

C. Direct Services

Service or Benefit	CAP	TANF Purpose	Economic Need Standard	Targeted Group
Per Kinship Placement Family	\$3,000 per 12- month period.	TANF 1	200% of the FPL	Relatives and Non-Relatives caring for minor children
Per Kinship Placed Child	\$1,000 per 12- month period	TANF 1	200% of the FPL	Minor children being cared for by relative or non-relative Kinship Placement
Child Welfare Services & Benefits	\$1,500.00 per 12- month period	TANF 1	200% of the FPL	Families with open active cases in Children's Protective Services System

B. Availability of Funds

Payments for all services provided in accordance with the provisions of this Sub-Grant Agreement are contingent upon the availability of (and will not exceed the total of) local, state, and federal funds as follows:

Allocation	Contract Amount	Budget Reference	Award ID/EAIN#	CRDA Number
TANF Administration	\$12,500	JFSCACC2	1601OHTANF	93.558
TANF Regular	\$112,500	JFSCATFR	1601OHTANF	93.558

Funds available under this agreement may not be used for food. Mileage cannot exceed the county's established mileage reimbursement rate, currently \$0.50.

C. Maximum Compensation

The Sub-recipient agrees to accept as payment in full, for services rendered in a manner satisfactory to the Department, not to exceed \$125,000 during the term of this sub-grant.

D. Provision of Funding

If funds anticipated to be received by the Department are suspended, not forthcoming, or terminated in whole or in part, funding for this sub-grant shall terminate, and the sub-recipient shall receive payments for services

rendered up to the date of notification of non-funding.

Unearned payments under this sub-grant may be suspended or terminated upon refusal to accept any additional conditions that may be imposed by ODJFS at any time.

ARTICLE IV ACCESS TO RECORDS

At any time, during regular business hours, with reasonable notice, and as often as the Department, the Comptroller General of the United States, the State, or other agency or individual authorized by the Department may deem necessary, Sub-recipient shall make available to any or all the above named parties or their authorized representatives, all sub-grantees, invoices, receipts, payrolls, personnel records, enrollees records, reports, documents and all other data relating to all matters covered by this Sub-grant. The Department and the above named parties shall be permitted by the Sub-recipient to inspect, audit, make excerpts, photo-static copies and/or transcripts of any and all documents relating to all matters covered by this contract. Sub-recipient must maintain all required records for three years after final payment is made and all other pending matters are closed.

Except as noted above, the Sub-recipient agrees that the use or disclosure by any party of any information concerning eligible individuals for any purpose not directly related to the performance of this sub-grant is prohibited, except upon written consent of the eligible individual or that individual's parent or guardian.

ARTICLE V TIME OF PERFORMANCE

This Sub-Grant Agreement shall be effective **October 1, 2020** and shall terminate on **September 30, 2021**. If both parties agree, this Sub-grant agreement may be renewed with the same terms, conditions, and dollar amount for an additional year upon adoption of an amendment by the Warren County Board of County Commissioners. The services of the Sub-recipient are to commence immediately upon execution of the sub-grant agreement and all costs allowable under the sub-grant agreement shall be incurred and the final invoice received by the Department no later than close of business **November 1, 2021**.

ARTICLE VI BONDING AND INSURANCE

The Sub-recipient shall maintain during the term of this Sub-grant agreement, the applicable insurance and bonds specified below:

- a. Worker's Compensation Insurance as required by Ohio law.
- b. Public Liability Insurance on comprehensive basis, including Contingent Liability, in amounts not less than \$100,000 per person, \$300,000 per occurrence for bodily injury, and \$25,000 per occurrence for property damage.
- c. Automobile Liability Insurance covering all owned, non-owned and hired vehicles used in performance of this sub-grant agreement, in amounts as indicated in b, above.

ARTICLE VIII INDEPENDENT SUB-RECIPIENT RELATIONSHIP

It is the intent of the Sub-recipient and the Department to create an independent Sub-recipient relationship. The Sub-recipient will determine eligibility for services based upon the guidelines or direction set forth by the Department, but the Sub-recipient shall determine the legal means by which this work is accomplished. The Department is not responsible for withholding, and shall not withhold, FICA or taxes of any kind from any compensation paid or owed to the Sub-recipient. Neither the Sub-recipient nor Sub-recipient's employees shall be entitled to receive from the Department any benefits which the officers and employees of the Department are entitled to receive and shall not be entitled to receive from the Department workers' compensation, unemployment compensation, medical insurance, life insurance, paid vacations, paid holidays, sick leave, pension benefits, profit sharing, Social Security, Ohio Public Employees Retirement, or any and all other benefits on account of their work for the Department.

This Sub-grant Agreement does not create an agency relationship, or partnership between the Sub-recipient and the Department. The Sub-recipient has no authority to enter into agreements on behalf of the Department, to

bind the Department to any obligation, or to incur any liability in behalf of the Department.

ARTICLE IX MAINTENANCE OF EFFORT

It is understood and agreed that the level of services, activities, and expenditures by the Sub-recipient, in existence prior to the initiation of services hereunder shall be continued and not be reduced in any way as a result of this sub-grant agreement except for reduction unrelated to the provisions of purposes herein stated. The Sub-recipient shall certify that any costs incurred pursuant to this Sub-grant agreement will not be included as a cost of any other federally financed program in either the current or a prior period.

ARTICLE X CONFLICT OF INTEREST

The Sub-recipient covenants that no person, under its employ, who presently exercises any functions or responsibilities in connection with the Department or projects or programs funded by the Department, has any personal financial interest, direct or indirect, in this Sub-grant agreement. The Sub-recipient further covenants that in the performance of this Sub-grant agreement, no person having such conflict shall be employed. Any such interest, on the part of the Sub-recipient or its employees, must be disclosed in writing to the Department.

ARTICLE XI MODIFICATIONS

Modifications of this Sub-grant agreement may be made by the written mutual consent of the parties hereto.

ARTICLE XII TERMINATIONS

This agreement may be terminated by:

- A. Either party, upon the provision of thirty (30) days written notice.
- B. Mutual Agreement of the parties.
- C. Death or some other incapacity that prevents the Sub-recipient from fulfilling Sub-recipient's duties as set out in this Sub-grant agreement.

ARTICLE XIII BREACH BY SUB-RECIPIENT

In the event that the Sub-recipient breaches the terms and conditions of this Sub-recipient, the Department may, at its discretion, immediately terminate the Agreement, withhold payment for services not rendered by the Sub-recipient or both.

ARTICLE XIV ADDITIONAL OBLIGATIONS AND ASSURANCES OF SUBRECIPIENT

- 1. The Sub-recipient certifies that it possesses legal authority to enter into this Sub-grant agreement and that a resolution, a motion or similar action has been duly adopted as an official act of the Sub-recipient's governing body which authorizes the negotiation and execution of this Sub-grant agreement by the representative who signed the Sub-grant agreement below on behalf of the Sub-recipient.
- 2. The Sub-recipient certifies that all applicants to the program operated under this Sub-grant agreement, either as an employee or subcontractor of the Sub-recipient or as a program client shall be apprised of their rights and responsibilities at the time of application. No person with responsibility in the operation of the program will discriminate with respect to any program because of race, creed, color, national origin, gender, political affiliation, age, belief, or handicap. Any complaint of discrimination in the operation of such programs shall be handled in a manner, compliant with the policies and procedures of the Department.
- 3. The Sub-recipient shall have safeguards to prohibit employees from using their positions for a purpose that is, or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business or other ties.
- 4. The Sub-recipient shall maintain appropriate standards of health and safety in work and training situations.

5. The Sub-recipient may not hold the Department responsible for payment of funds if those same funds have not been received by, or from the State.
6. All reports, brochures, literature and pamphlets developed by the Sub-recipient for its work under this Sub-grant agreement shall acknowledge the Department and its role as the funding source for activities, and programs conducted by the Sub-recipient pursuant to this Sub-grant agreement.
7. The Sub-recipient shall maintain easily accessible and auditable financial records.
8. The Sub-recipient, as a Sub-recipient of federal funds, shall provide a copy of their 2 CFR 200 state audit. An A-133 audit is required if an organization is a non-profit, or a state or local government agency, and expends \$750,000.00 or more per year in federal awards.
9. The Sub-recipient assumes full financial liability for any subsequent questioned or disallowed costs associated with activities conducted by the Sub-recipient pursuant to this Sub-grant agreement.
10. The Sub-recipient will submit periodic reports, showing progress towards achieving the outcomes which are specified in Exhibit A, attached.
11. The Sub-recipient shall not discriminate against any employee or applicant for employment because of race, color, religion, gender, or national origin. The Sub-recipient will take affirmative action to insure that applicants are employed, and employees are treated during employment without regard to their race, color, religion, gender, or national origin.
12. The Sub-recipient shall, in all of Sub-recipient's solicitation or advertisements for employees, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, gender, or national origin.
13. The Sub-recipient shall comply with provisions of the Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by the Executive Order 11375 of October 13, 1967, and as supplemented in Department of Labor regulations, 41 C.F.R. Chapter 60.
14. The Sub-recipient warrants that neither it nor any party with whom it may subcontract for the performance of this Sub-grant agreement are listed on the debarred list due to violations of Titles VI, or VII of the Civil Rights Act of 1964, nor is the Sub-recipient aware of any pending action which might result in such debarment.
15. The Sub-recipient shall provide workers' compensation or other insurance coverage for injuries which may be suffered by its employees in accord with 20 CFR 692.22.
16. The Sub-recipient shall comply with any applicable minimum wage and maximum hour provisions of the Fair Labor Standards Act, and the Ohio Revised Code.
17. The Sub-recipient shall not make claims for payment from the Department for services rendered to eligible individuals when such claims would duplicate claims made from other sources of public funds available for the same service. The services being contracted for hereunder are not available on a non-reimbursable basis.
18. The Sub-recipient shall not discriminate against applicants for, and participants in the Ohio Works First Program established under Chapter 5107 of the Revised Code, and the Prevention, Retention, and Contingency Program established under Chapter 5108 of the Ohio Revised Code. The Sub-recipient further certifies that it will include a provision in any agreement, contract, grant or procedure requiring

the other party to include a similar provision in any subcontract, agreement or grant issued by that entity for the performance of duties related to such agreement, contract, grant or procedure.

19. The Sub-recipient shall cooperate with the Ohio Department of Job and Family Services, and any Ohio Child Support Enforcement Agency in ensuring that its employees meet child support obligations established under state law. The Sub-recipient also agrees that it will include a like provision in any agreement, contract, grant, or procedure related to this Sub-grant agreement which require any subcontractor, or other party to cooperate with the Ohio Department of Job and Family Services, and any Ohio Child Support Enforcement Agency in ensuring that its employees meet child support obligations established under state law.
20. The Sub-recipient agrees to be bound by the disclosure rules of the Ohio Department of Job and Family Services. Disclosure of information in a manner inconsistent with said rules is a breach of this Sub-grant agreement, and a violation of Ohio Revised Code Sections 5101.27, and 5101.99.
21. The Sub-recipient agrees that the services it delivers pursuant to this Sub-grant agreement will be delivered in a manner consistent with the Department's Prevention Retention and Contingency Plan, Exhibit A.
22. The Sub-recipient agrees to comply with the Copeland "Anti-Kick Back" Act, 18 U.S.C. § 874, as supplemented by Department of Labor Regulations, 29 C.F.R. Part 3.
23. The Sub-recipient agrees to comply with the Davis-Bacon Act, 40 U.S.C. § 276a through 276a-7, as supplemented by the Department of Labor Regulations, 29 C.F.R. Part 5.
24. The Sub-recipient agrees to comply with Sections 103, and 107 of the Contract Work Hours and Safety Standards Act, 40 U.S. C. § 327 through 330, as supplemented by Department of Labor Regulations, 29 C.F.R. Part 5.
25. The Sub-recipient agrees to comply with all applicable standards, orders, or requirements issued under Section 306 of the Clean Air Act, 42 U.S.C. § 1875(h); Section 508 of the Clean Water Act, 33 U.S.C. § 1368; Executive Order 11738; and, environmental protection agency regulations, 40 C.F.R. Part 15.
26. The Sub-recipient agrees to comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy policy and Conservation Act, Pub.L. 94-136, 89 Stat.871.
27. The Sub-recipient agrees that the copyright to any copyrightable material created pursuant to this Sub-grant agreement, and that any discovery or invention which arises or is developed pursuant to the Sub-recipient's obligations under this Sub-grant agreement is the property of the Department.
28. The Sub-recipient agrees to adhere to the Records Retention Schedule for all documentation related to this agreement.

ARTICLE XV NOTICES

Any and all notices required by this Agreement, unless otherwise specified herein, shall be delivered as follows:

To the Department:

416 S East Street, Lebanon OH 45036

To the Sub-recipient:

416 S East Street, Lebanon OH 45036

ARTICLE XVI MERGER

This Agreement is the complete understanding between the parties. No prior or contemporaneous agreements, whether written or oral, may modify, enlarge or alter this written agreement except as incorporated by reference herein.

ARTICLE XVII SEPARABILITY

If any portion of this Sub-grant agreement is deemed to be illegal due to conflict with state or local law, the remainder of the Sub-grant agreement shall remain in full force and effect.

ARTICLE XVIII FORCE MAJUERE

Should the subject matter of this Sub-grant agreement be made illegal, abolished by the legislature or destroyed by an Act of God, or civil unrest then the agreement shall be terminated.

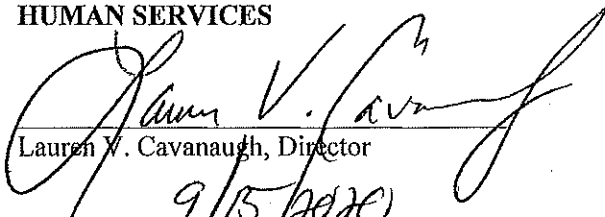
ARTICLE XIX HEADINGS

The paragraph headings contained in this Sub-grant agreement are solely for organizational purposes, and are of no substantive effect.

ARTICLE XX GOVERNING LAW

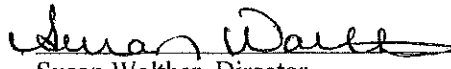
The parties agree that this Agreement shall be governed by, construed, and enforced in accord with the laws of the State of Ohio.

**WARREN COUNTY
HUMAN SERVICES**



Lauren V. Cavanaugh, Director
Date 9/15/2020

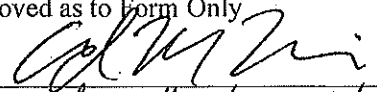
**WARREN COUNTY
CHILDREN SERVICES**



Susan Walther, Director
Date 9/18/2020

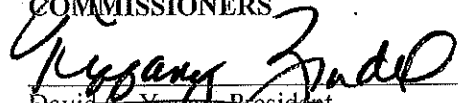
WARREN COUNTY PROSECUTOR

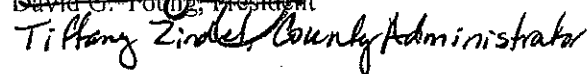
Approved as to Form Only

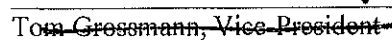
By: 

Adam M. Nice, 9/11/20

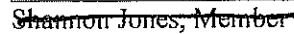
**BOARD OF WARREN COUNTY
COMMISSIONERS**



David G. Young, President


Tiffany Zindel, County Administrator


Tom Grossmann, Vice President



Shannon Jones, Member
Date 10-6-2020

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1407

Adopted Date October 06, 2020

APPROVE AND ENTER INTO A CUSTOMER SUBSCRIPTION AGREEMENT BETWEEN THE WARREN COUNTY BOARD OF COUNTY COMMISSIONERS ON BEHALF OF THE DEPARTMENT OF WARREN COUNTY CHILDREN SERVICES (CUSTOMER) AND LYFT LEARNING, LLC (LYFT LEARNING)

BE IT RESOLVED, to approve and authorize the County Administrator to enter into a Customer Subscription Agreement on behalf of the Department of Children Services and LYFT Learning, LLC; copy of agreement is attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

jc/

cc: c/a – LYFT Learning, LLC
Children Services (file)



THIS CUSTOMER SUBSCRIPTION AGREEMENT is entered into by LYFT Learning, LLC (“LYFT Learning”), an Ohio limited liability company and the Warren County Board of County Commissioners on behalf of Warren County Children Services (the “Customer”).

BACKGROUND: LYFT Learning desires to license the Life Skills Reimagined Products to the Customer, and the Customer desires to license the Life Skills Reimagined Products from LYFT Learning, all upon the terms and conditions more fully described in this Agreement. In consideration of these promises, and the representations, warranties and covenants set forth below, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1. License(s)

1.1. LYFT Learning hereby grants to the Customer the following Customer Licenses. Customer may not (a) authorize or license any party whatsoever to use, license, sublicense or otherwise transfer the LYFT Learning Products or any part thereof, (b) modify or customize the LYFT Learning Products (except as may otherwise be set forth herein), (c) create any derivative works in, or based on, the LYFT Learning Products, (d) print, copy, reproduce, distribute, transfer, transmit (whether physically or electronically) or assign the LYFT Learning Products, (e) decompile, disassemble, decode or otherwise reverse engineer the LYFT Learning Products or any part thereof or (f) promote, deliver, distribute or license the LYFT Learning Products through any third-party. For the avoidance of doubt, notwithstanding the license granted by LYFT Learning to the Customer in this Section 1, the Customer shall have no right, title or interest in or to the Source Code or any part thereof.

1.2. Curriculum License.

1.2.1. The method for Customer access to the Life Skills Reimagined curriculum is detailed in Exhibit A.

1.2.2. The Customer subscribes to the currently available content. LYFT Learning retains the right to update, revise, remove content at its discretion. Customers will be notified of any substantive changes to the available content.

1.2.3. To the extent any Update or Upgrade is generally made available at no cost, it will automatically be made available to all Customers with platform licenses or who access content through the Life Skills Reimagined content portal. If new content is deemed to be of a “sensitive” nature (e.g. Healthy Relationships), Customer will be notified of its availability to preview the content. Content identified as “sensitive” must be opted into by the Customer.

1.2.4. The Customer may reproduce print materials provided in the Facilitator Toolkit as an alternative to printing these documents from the Life Skills Reimagined platform as long as they are used while having a valid subscription agreement and used for currently named users within that agreement. These materials may in no way be stored electronically outside of the LYFT Learning platform.

1.3. Platform License.

1.3.1. The Customer has purchased annual seat licenses for the number of users stated in Exhibit A.



- 1.3.2. LYFT Learning is responsible for (a) set-up of the LYFT Learning Software environment, (b) configuration of the LYFT Learning Software, (d) support of the LYFT Learning Software to maintain proper performance, accessibility and secure access.
- 1.3.3. Seat licenses may only be used for one user at any given time. Once a user has completed the curriculum, or left the Customer's program, that user may be deactivated and that seat reused. If a user returns to the customer's program, and there is a seat license that is unassigned, that user may be reactivated. Using a seat license for multiple users in the same time period is not permitted.
- 1.3.4. Customer User data required for set-up is: user first name, last name and valid email addresses. The User email address must also be the user name, unless specifically agreed to otherwise.
- 1.3.5. The Customer's assigned administrator will be responsible for all seat and user management, course assignments and operational reporting associated with their subscription. If the Customer chooses to use "dummy" or "invalid" email addresses for users, it will also be responsible for any password resets associated with those users. The use of "dummy" email accounts must be identified during the platform implementation process.
- 1.3.6. The Customer and its users are responsible for maintaining the security of their accounts and passwords. LYFT Learning cannot and will not be liable for any loss or damage from your failure to comply with this security obligation.
- 1.3.7. The Customer is responsible for content and activity (including Personal Data) inputted by you and authorized users for the purpose of using the Services ("Content") and you are solely responsible for the legality, reliability, integrity, accuracy and quality of the Content. LYFT Learning may suspend or terminate use of Services and this Agreement immediately upon receipt of any notice, which alleges that You and/or Authorized User has used Services for any purpose that violates any local, state, federal or law of other nations, including but not limited to the posting of information that may violate third party rights, that may defame a third party, that may be obscene or pornographic, that may harass or assault others, that may violate hacking or other criminal regulations, etc.
- 1.3.8. The Customer acknowledges and agrees that LYFT Learning process data related to your employees or representatives that is collected and used by us, as well as connection data created through the use and operation of the Services, in order to administer or manage our delivery of Services, or your account, for our business purposes.
- 1.3.9. The Customer hereby acknowledges and agrees that we shall process your name and email address to communicate with you for the presentation and promotion of the Services or of new services. You may at any time, free of charge, unsubscribe from such electronic communication, easily by clicking the button "unsubscribe" contained in the electronic communication.
- 1.3.10. The Life Skills Reimagined platform (aka Talent LMS) is licensed by LYFT Learning as a Software as a Service. Epignosis, the owner of Talent LMS, process, transmit and store Personal Data as further specified in the Epignosis Data Processing Addendum (DPA) found at TalentLMS.com.

2. Intellectual Property.



- 2.1. The Customer acknowledges that all Life Skills Reimagined content is the sole property of LYFT Learning, LLC, and cannot be used or reproduced outside of the scope of a valid Subscription Agreement. All associated copyright, trademark, patent, trade secret and intellectual property rights of the LYFT Learning Products, is, and shall be, at all times solely vested in, and shall remain the exclusive property of, LYFT Learning and those third parties whose software programs have been incorporated by LYFT Learning as part of the LYFT Learning Software. LYFT Learning, on behalf of itself and such third parties, reserves all of its, and all of such third-parties', rights in such property.
- 2.2. The Customer agrees that aggregate, de-identified user outcomes data, including assessments, completion status, scores, seat time and any other reportable metric may be used by LYFT Learning and partner organizations for research purposes to understand, report and potentially market the effectiveness of the LYFT Learning curriculum and/or platform. All outcomes data, published and unpublished, remains the intellectual property of LYFT Learning.

3. Payment & Terms.

- 3.1. LYFT Learning products are offered as annual subscriptions, the specific licenses and cost of this agreement is outlined in Exhibit A.
- 3.2. The provisions of this agreement shall continue in full force and effect (a) during the Applicable Term and (b) until terminated by LYFT Learning or by the Customer according to the provisions of this agreement. Initial Term and any Additional Term shall automatically renew for successive 1-year periods, provided that this Agreement is not terminated 30 days prior to the end of such period.
- 3.3. An invoice will be sent to the Customer upon receipt of the signed contract. The invoice must be paid in full, in US dollars, within 30 days of the invoice date. For additional terms, customers will be invoiced 30 days prior to the end of their current subscription.
- 3.4. The Service is billed in advance on an annual basis, or other timeframe stipulated in the subscription agreement and is non-refundable. There will be no refunds or credits for partial months of service, upgrade/downgrade refunds, or refunds for months unused with an open account.
- 3.5. All fees are exclusive of all taxes, levies, or duties imposed by taxing authorities, and you shall be responsible for payment of all such applicable taxes, levies, or duties.
- 3.6. If the Customer fails to pay any Amounts Due, LYFT Learning may assess an additional charge not to exceed the applicable statutory interest rates under Ohio law.

4. Termination.

- 4.1. Customers may cancel their subscription at any time, in writing, with 30 days' notice. The account will deactivate at the end of the current subscription term. There will be no refunds or credits for partial months of service, upgrade/downgrade refunds, or refunds for months unused with an open account.



4.2. Immediately upon the termination of this Agreement and end of the subscription term:

- 4.2.1. Subject to Ohio public records law and the Customer's applicable records retention schedule, the Customer may no longer use the digital or print LYFT Learning Products, and shall have no further right, title or interest in the LYFT Learning Products or any part thereof, including any license in either of the same.
- 4.2.2. Subject to Ohio public records law and Customer's applicable records retention schedule, any LYFT Learning products or content that reside on Customer hardware or software must be deleted and an affidavit of deletion must be provided to LYFT Learning.
- 4.2.3. Customers are responsible for downloading any user completion data prior to the end of their subscription term.
- 4.2.4. Each party hereto shall immediately pay to the other party all amounts that are due and payable hereunder.

The applicable provisions of Sections 2, 3, 4, 6, 8, 10, shall survive any termination of this Agreement.

5. Updates & Upgrades.

- 5.1. Customers may add license types (e.g., platform, newsletter, curriculum) or additional seat licenses at any time. The Customer will receive an invoice for the prorated amount for use between the upgrade date and the end of the current contract. The Invoice must be paid in full within 30 days of the invoice date.
- 5.2. Customers may decrease license types or number of seats if notified in writing 30 days prior to subscription renewal. Downgrading your Service may cause the loss of content, features, or capacity of your Account, including learner records. LYFT Learning does not accept any liability for such loss.
- 5.3. The Customer shall promptly report to LYFT Learning, in writing, any flaws, errors, bugs, defects or other problems in or with the LYFT Learning Products that it identifies or that may be identified by a User.

6. Confidentiality.

- 6.1. Each party hereto may deliver Confidential Information to the other. If a party hereto receives the Confidential Information of the other, such receiving party (a) shall use such Confidential Information solely for the purpose of carrying out its obligations under this Agreement, (b) shall hold such Confidential Information in confidence and take reasonable precautions to protect such Confidential Information (including all precautions that such party employs with respect to its confidential materials), (c) may not divulge any such Confidential Information or any information derived therefrom to any third-party and (d) shall only divulge such Confidential Information to those of its employees, representatives and affiliates who have a reasonable need to know such information.
- 6.2. These provisions may not be applied (a) to any Confidential Information that (1) is or becomes (through no improper action or inaction by the party hereto receiving the same or any of its employees,



representatives or affiliates) generally available to the public, (2) was in its possession or known by the party hereto receiving the same prior to receiving it from the party hereto disclosing the same, (3) was properly disclosed to the party hereto receiving the same without any obligation of confidentiality or (4) was discovered or created by the party hereto receiving the same without reliance on such Confidential Information (as shown in the records of such receiving party), (b) to disclosures required by law or court order, provided that the party hereto receiving such Confidential Information (1) uses reasonable efforts to limit disclosure and to obtain confidential treatment or a protective order with respect thereto, (2) has allowed the party hereto disclosing such Confidential Information to participate in the proceedings related to such legal or court-ordered requirement (to the extent reasonably practical) and (3) cooperates reasonably with the efforts to contest or limit the scope of such required disclosure of the party hereto disclosing such Confidential Information or (c) to disclosures of information relating to this Agreement made to any referral party, reseller, sales and marketing agent or other partner with which either party hereto interacted in furtherance of entering into this Agreement.

- 6.3. **Public Records Exceptions.** The parties acknowledge that Customer is governed by the Ohio Public Records Laws. Notwithstanding any statement in this Agreement to the contrary, the Customer's handling of any confidentiality obligations are subject to the limitations of this paragraph. Records (as defined by Ohio Revised Code §§ 149.011 and 149.43) related to this Agreement may be subject to disclosure under the Ohio Public Records Laws. The Customer shall have no duty to defend the rights of LYFT Learning, LLC, or any of its agents or affiliates in any records requested to be disclosed.

7. Representations & Warranties.

- 7.1. The Customer hereby represents and warrants to LYFT Learning that, as of the Effective Date, it has the full right, power and authority to enter into, and fully perform its obligations under the provisions of this Agreement.
- 7.2. LYFT Learning hereby represents and warrants to the Customer that, as of the Effective Date, (a) it has the full right, power and authority to enter into, and fully perform its obligations under the provisions of this Agreement, (b) it has the full right, power and authority to grant to the Customer the rights and licenses described herein and (c) it has not knowingly infringed upon the intellectual property rights of any third-party or knowingly misappropriated the trade secrets of any third-party in granting the Customer License to the Customer.

8. Limitations of Liability.

- 8.1. The provisions of Section 8 set forth the entire obligation of a party hereto to indemnify, reimburse or otherwise compensate the other party hereto for any claim brought as a result of the parties' mutual execution and delivery of this Agreement.
- 8.2. THE LYFT LEARNING PRODUCTS ARE PROVIDED BY LYFT LEARNING ON AN "AS-IS" BASIS. ALL OTHER WARRANTIES, WHETHER ORAL OR WRITTEN, EXPRESS OR IMPLIED OR CONTRACTUAL OR STATUTORY, ARE EXPRESSLY DISCLAIMED. WITHOUT LIMITATION, LYFT LEARNING DOES NOT WARRANT THAT (a) THE OPERATION AND/OR USE OF THE LYFT LEARNING PRODUCTS WILL BE UNINTERRUPTED OR ERROR-FREE,



(b) THE LYFT LEARNING PRODUCTS WILL PERFORM IN EVERY OPERATING ENVIRONMENT, (c) ALL DEFICIENCIES OR ERRORS IN THE LYFT LEARNING PRODUCTS ARE CAPABLE OF CORRECTION OR (d) THE LYFT LEARNING PRODUCTS MEET THE REQUIREMENTS OF ANY PARTY WHATSOEVER. THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY DISCLAIMED.

- 8.3. NEITHER PARTY hereto MAY BE held LIABLE TO THE OTHER OR TO any THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, EXEMPLARY OR PUNITIVE DAMAGES (INCLUDING LOST OR ANTICIPATED REVENUES OR PROFITS) ARISING FROM ANY CLAIM RELATING DIRECTLY OR INDIRECTLY TO THIS AGREEMENT, WHETHER BASED ON WARRANTY, CONTRACT OR TORT (whether under a theory of NEGLIGENCE, STRICT LIABILITY or otherwise), EVEN IF AN AUTHORIZED REPRESENTATIVE OF SUCH PARTY IS ADVISED OF THE LIKELIHOOD OR POSSIBILITY THEREOF.
- 8.4. Each party acknowledges the the other party has relied upon the limitations of liability set forth in this agreement, and but for their inclusion, would not have entered into the agreement.

9. General Provisions.

- 9.1. Each party hereto shall comply in all material respects with all applicable laws, regulations, codes and ordinances in performing its obligations under this Agreement.
- 9.2. Any notice required or permitted by this Agreement will be in writing and will be deemed effective (a) upon receipt, when delivered personally or by courier (b) the next business day, when delivered by an overnight delivery service, with confirmation of receipt, or (c) forty-eight (48) hours after being deposited in the regular mail as certified or registered mail (airmail if sent internationally) with postage prepaid, if such notice is addressed to the party to be notified at such party's address or facsimile number as set forth above (unless notice of a change of address or facsimile number is given in writing in accordance with the terms hereof).
- 9.3. Exhibit A is incorporated herein by this reference. This Agreement is the work product of both parties hereto, constitutes the entire agreement between such parties as to the subject matter hereof and supersedes all prior documents, negotiations and drafts of the parties with respect to the subject matter hereof, whether written or verbal. This Agreement may not be construed against either party hereto by reason of the drafting or preparation thereof.
- 9.4. Any term of this Agreement may be amended, waived, terminated or discharged only with the written consent of the parties hereto.
- 9.5. The failure of either party hereto to insist upon the performance of any of the terms or conditions contained in this Agreement, and the failure of either party hereto, to exercise any right hereunder, may not be construed as a waiver or relinquishment of the future performance of any such term or condition or the future exercise of such rights.
- 9.6. If any provision of this Agreement is held to be unenforceable, the parties hereto shall renegotiate each such provision in good faith in order to maintain the economic position enjoyed by each party prior to such holding with respect to each such provision rendered unenforceable. If the parties hereto cannot



agree upon an enforceable replacement for such provision, then (a) such provision shall be excluded from this Agreement, (b) the balance of this Agreement shall be interpreted as if such provision were so excluded and (c) thereafter, this Agreement shall be enforceable in accordance with its terms.

- 9.7. Neither party may be held liable for its failure to perform hereunder or for any loss or damage due to causes beyond its reasonable control, including governmental requirements, inability to obtain required export licenses, work stoppages, fire, civil disobedience, embargo, war, terrorism, riots, rebellions, earthquakes, strikes, floods, water and the elements, inability to secure equipment, raw materials or transport or similar occurrences. For the avoidance of doubt, the provisions of this Section 9 may not be used to excuse, or referenced in excusing, any delay in the Customer's delivery of any Amounts Due.
- 9.8. The validity of this Agreement, the construction and enforcement of its terms and the interpretation of the rights and duties of the parties hereunder will be governed by the internal laws of the State of Ohio, without regard to its conflicts of law principles. The parties agree that the state or federal courts located in Warren County, Ohio will be the proper forum for any legal controversy arising out of or in connection with this Agreement, and the parties hereby irrevocably and unconditionally consent to the exclusive jurisdiction of such court for such purposes, to the extent permitted by applicable law.
- 9.9. Neither party may use the logos or trademarks of the other party without the prior written consent of the other party, such consent to not be unreasonably withheld. Upon written request, either party may at any time require the other party to immediately stop use of its logos or trademarks and to remove them from existing marketing and sales materials within a reasonable time.
- 9.10. This Agreement may be executed in two or more counterparts (including by facsimile or other electronic transmission), each of which shall be deemed an original and all of which together shall constitute one instrument.

10. Defined Terms. Each of the contract terms shall have the meaning set forth in this Section 11.

"Addendum" means any agreement entered into by the parties hereto that references this Agreement and is related to the subject matter hereof.

"Additional Term" means each of the 1-year periods following the Initial Term or any Additional Term for which this Agreement automatically renews.

"Agreement" means this Customer Subscription Agreement and, if and where applicable, any Addendum.

"Amounts Due" means any amounts due under the provisions of this Agreement, including each License Fee.

"Applicable Term" means the Initial Term and each Additional Term.

"Confidential Information" means (a) information relating to this Agreement that is not generally known to the public, (b) LYFT Learning Confidential Information and (c) Customer Confidential Information.

"Customer" means the party with which LYFT Learning entered into this Agreement.

"Customer Confidential Information" means (a) information that is owned, developed or acquired by the Customer, including financial data, business plans, customer information, all software, programming, systems and use documentation, technical information, technology, designs, ideas, inventions, data, data formats and files, and all copies and tangible embodiments thereof, and (b) Customer Data.

"Customer Data" means all data provided to LYFT Learning by the Customer or otherwise inputted into the LYFT Learning Software, whether by the Customer, a User or otherwise.

**LYFT LEARNING, LLC
CUSTOMER SUBSCRIPTION AGREEMENT**



"Customer License" means a limited, nonexclusive and nontransferable right and license, from and after the Effective Date, for the Customer to use the LYFT Learning Products and for the Customer's employees, independent contractors, agents and affiliates, to use the LYFT Learning Products, subject to the terms and conditions of the End-User License Agreement.

"Customer Representative" means those individuals identified by the Customer who are to receive the training contemplated.

"Effective Date" means the day on which the Customer may commence using the LYFT Learning Products and shall be the day set forth in Section 11.

"End-User License Agreement" means LYFT Learning's form of end-user license agreement to which each User agrees before receiving access to the LYFT Learning Software.

"Exhibit" means **Exhibit A** to this Agreement.

"Indemnifiable Claim" means a claim for damages resulting from (a) any material inaccuracy or breach of the representations and warranties made by the indemnifying party in Section 8, (b) any material breach of a covenant made by the indemnifying party in this Agreement, (c) any User's failure to enter into, or breach of, the End-User License Agreement and/or (d) any material failure to perform, or any material failure to comply with, the indemnifying party's obligations under the provisions of this Agreement.

"Initial Term" means the initial period during which this Agreement is in full force and effect, which period is set forth in Section 11.

"License Fee" means the amounts due by the Customer to LYFT Learning, which amounts are more fully described in the attached **Exhibit A**.

"Object Code" means the machine-readable computer software code substantially in binary form that is directly executable by a computer after processing without compilation or assembly.

"Signature Page" means the page (or pages when taken together) signed by the authorized representative of the parties hereto.

"Source Code" means (a) computer software code comprising the statements, instructions and data relating to the LYFT Learning Software displayed in a form readable and understandable by a programmer of ordinary skill, (b) technical documentation and specifications relating to the LYFT Learning Software, including a description of the tools used to develop and maintain the LYFT Learning Software, the compiler or assembler and compilation and execution procedures and (c) the source code, technical documentations and specifications relating to any Updates or Upgrades.

"LYFT Learning" means LYFT Learning, LLC, an Ohio limited liability company.

"LYFT Learning Confidential Information" means information that is owned, developed or acquired by LYFT Learning, including financial data, business plans, analytical data, customer information, all software, programming, systems and use documentation, technical information, technology, designs, ideas, inventions, data, data formats and files, and all copies and tangible embodiments thereof and includes the LYFT Learning Products, the Object Code and the Source Code and the related documentation and user manuals.

"LYFT Learning Products" means the LYFT Learning Software and the related materials.

"LYFT Learning Software" means (i) Life Skills Reimagined curriculum and (ii) tracking platform made available to the Customer and any other Users, which includes any third-party software products embedded therein and any Updates or Upgrades.

"Update" means any update, feature release (e.g., 2.0 to 2.1), patch release (e.g., 2.0 to 2.0.1), maintenance release, bug fix or modified form of the LYFT Learning Software that performs comparable or improved functionality and which is not an Upgrade.

"Upgrade" means any new version or major release (e.g., 2.0 to 3.0) of the LYFT Learning Software that includes enhancements and improvements that may be added by LYFT Learning. Enhancements and improvements are any changes to the LYFT Learning Software that (a) substantially increase the speed, efficiency or ease of use of the LYFT Learning Software, or (b) add additional capabilities to, or otherwise improve the functions of, the LYFT Learning Software.

"User" means any party using the LYFT Learning Software pursuant to the Customer License.

(Section 11 and Signature Page to follow)

Exhibit A: Fees

Contract Term

Effective Date: 10/1/20
Initial Term: 9/30/21

Subscription and Fees

This Exhibit A to the Customer Subscription Agreement sets forth the terms and conditions under which LYFT Learning agrees to provide access to the LYFT Learning Software and provide all other services, data import/export, third party data updates, monitoring, and analysis necessary for Customer's and its Users' productive use of the LYFT Learning Software.

- LYFT Learning Software:** LYFT Learning Software in combination with the Customer Data and certain professional services provided by LYFT Learning, provides a learning platform and process for validating Customer competencies, assessing Customer knowledge, delivering learning content, including Life Skills Reimagined eLearning courseware, and obtaining Customer Data, which can be analyzed and evaluated by LYFT Learning for the purpose of generating analytics information and/or developing a report for Customer.
- Effective Date/Initial Term:** This Exhibit A shall have an Effective Date and Initial Term as specified in Section 3 of the Agreement and shall remain in effect unless terminated pursuant to the provisions set forth in Section 4 of the Agreement.
- Fees and Payment Due Date:**
The total amount for this contract shall not exceed \$2,100, broken down as follows:

License Fees and Payment Due Dates:

The limited License Fee for the Life Skills Reimagined curriculum/delivery platform shall be

		Cost per seat/year	
Number of Learner and Administrator Seats	35	\$60	\$2,100
Total	Due 10/1/20		\$2,100

User Administration and Support

Support			
		Rate	Amount
Annual Level 2 Admin Support	Technical support for your system administrator for system issues or questions.		Included

SS 10/31/20 12

Initial Training:

License Type		Number	Rate	Amount
Life Skills Reimagined Curriculum	Facilitator Training Session <ul style="list-style-type: none"> • 1-1.5 hour • "Live" training session - webinar • Access to PDF training book 	1	\$100	Included
	Additional Facilitator Training Sessions	0		
Tracking Platform	Administrator Training Session <ul style="list-style-type: none"> • 1 hour • "Live" training session - in person or webinar • Access to PDF training book 	1	\$100	Included
	Additional Administrator Training Sessions	0		

IN WITNESS WHEREOF, each of the parties hereto has executed this Exhibit A, or has caused this Exhibit A to be executed by its duly authorized representative, as of the Effective Date.

"LYFT Learning"

Warren County Board of County Commissioners

Sign:

Stephanie Savely

Sign:

* *Tiffany Zindel*

Name: Stephanie Savely

Title: President

Date: 8/31/20

Name: *Tiffany Zindel*

Title: *County Administrator*

Date: *10/6/2020*

11. Effective Date; Initial Term.

Effective Date: 10/1/20
Initial Term: 9/30/21

IN WITNESS WHEREOF, each of the parties hereto has executed this Agreement, or has caused this Agreement to be executed by its duly authorized representative, as of the Effective Date.

"LYFT Learning"

Warren County Board of County Commissioners

Resolution Number: 20-1407

Sign:



Sign:



Date: 8/31/20

Date 10/6/2020

Name: Stephanie Savely

Name: Tiffany Zirdel

Title: President

Title: County Administrator

Street Address: 524 Main St.

Street Address: 406 Justice Dr.

City, State ZIP: Loveland, OH 45140

City, State ZIP: Lebanon, OH 45036

Fax Number: (513)309-9365

Fax Number: _____

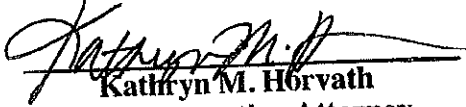
Email Address: ssavely@LYFTLearning.com

Email Address: _____

Attention: Stephanie Savely

Attention: _____

APPROVED AS TO FORM



**Kathryn M. Horvath
Asst. Prosecuting Attorney**

AFFIDAVIT OF NON COLLUSION

STATE OF Ohio
COUNTY OF Hamilton

I, Stephanie Savely holding the title and position of President at the firm Lyft Learning, affirm that I am authorized to speak on behalf of the company, board directors and owners in setting the price on the contract, bid or proposal. I understand that any misstatements in the following information will be treated as fraudulent concealment of true facts on the submission of the contract, bid or proposal.

I hereby swear and depose that the following statements are true and factual to the best of my knowledge:

The contract, bid or proposal is genuine and not made on the behalf of any other person, company or client, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS.

The price of the contract, bid or proposal was determined independent of outside consultation and was not influenced by other companies, clients or contractors, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS.

No companies, clients or contractors, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS have been solicited to propose a fake contract, bid or proposal for comparative purposes.

No companies, clients or contractors, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS have been solicited to refrain from bidding or to submit any form of noncompetitive bidding.

Relative to sealed bids, the price of the bid or proposal has not been disclosed to any client, company or contractor, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS, and will not be disclosed until the formal bid/proposal opening date.

Stephanie Savely
AFFIANT

Subscribed and sworn to before me this 23rd day of Sept 20 20

[Signature]
(Notary Public),
Hamilton County.



MARK PEREZ
Notary Public, State of Ohio
My Comm. Expires Sept. 24, 2024

My commission expires Sept. 24 20 24

SEP23 '20 RCVC

RECEIVED OMB0000

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1408

Adopted Date October 06, 2020

SET ADMINISTRATIVE HEARING TO CONSIDER VARIANCE AND APPEAL OF CONDITIONS REQUIRED FOR AN ACCESS PERMIT OF SPEEDWAY SUPERAMERICA LLC IN FRANKLIN TOWNSHIP

BE IT RESOLVED, to set the administrative hearing to consider a Request for Variance and Appeal of Conditions Required for an Access Permit filed by Brad Gross on behalf of Speedway SuperAmerica LLC, owner of record, for access to 6562 Manchester Road (Parcel #07051770010, and a portion of Parcel # 07051010041) in Franklin Township; said public hearing to be held October 27, 2020, at 9:30 a.m. both virtually and in person in the County Commissioners' Meeting Room, 406 Justice Drive, Lebanon, Ohio 45036.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

/tao

cc: Engineer (file)
Public Hearing file
Applicant – Brad Gross, 600 Speedway Drive, Enon, OH 45323
Franklin Township Trustees

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1409

Adopted Date October 06, 2020

APPROVE AND ENTER INTO AN AGREEMENT WITH SPRINGBORO COMMUNITY CITY SCHOOL ON BEHALF OF WARREN COUNTY TRANSIT SERVICE

BE IT RESOLVED, to approve and authorize County Administrator to enter into an agreement with Springboro Community City School, 1685 S. Main Street, Springboro, OH 45066 on behalf of Warren County Transit Service, copy of said agreement attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

/sm

cc: c/a—Springboro Community City School
Transit (file)

TRANSPORTATION SERVICES AGREEMENT

This agreement, effective September 23, 2020 is made as of this 23rd day of September by and between the Warren County Board of Commissioners, as owners of Warren County Transit Service, hereinafter referred to as WCTS and Springboro Community City School 1685 S. Main St. Springboro Ohio 45066, hereinafter referred to as CLIENT, for transportation services to be provided by the WCTS. The term of this agreement shall be for a period beginning on 9/23/20 until 9/22/21.

DESCRIPTION OF SERVICE:

Transportation services for individuals selected by CLIENT that attend CLIENT'S program site(s) will be provided by WCTS. WCTS will be responsible for scheduling and adjusting routes as needed. WCTS agrees to make reasonable efforts to accommodate special requests by riders for timing and/or physical accommodations and to notify CLIENT of requests that cannot be accommodated.

Passengers may not determine or alter routes or times and no individual shall be scheduled to ride for more than 90 minutes one way.

This Transportation Services Agreement shall be valid only for transportation within the regular service area and regular service days and hours of operation of WCTS. Contracted WCTS vehicles will be for the exclusive use of CLIENT during the contracted hours; no non-CLIENT passengers may be transported.

CONTRACT TERMS:

WCTS agrees to provide the described transportation services on a cost per hour per vehicle basis which includes the cost of all labor, materials, equipment, etc. to complete their obligations under this agreement. CLIENT shall be charged for Dead Head time associated with the routes. The current rate is \$36.50 per hour per vehicle.

Hourly rates will be rounded to the nearest quarter hour. The above rate is subject to change. WCTS will notify CLIENT at least thirty (30) days in advance of any changes in transportation service fees.

CLIENT agrees to give five (5) days notification of additions or deletions of passengers whenever possible.

CLIENT will be invoiced on a monthly basis for the transportation services provided. It is agreed that each monthly invoice will be due and payable within thirty (30) days following receipt.

WCTS agrees to give as much advance notice as possible, with a minimum of thirty (30) days, in the event that transportation can no longer be provided. CLIENT agrees to give WCTS thirty (30) days notification of the termination of the Agreement.

WCTS shall:

1. provide transportation services to individuals of CLIENT as requested by CLIENT;
2. maintain a 2-way communication system between the vehicles and the WCTS office;
3. instruct drivers on the completion of daily documentation sheets on daily attendance of passengers provided by CLIENT;
4. require drivers to complete daily documentation sheets;
5. conduct and document a daily pre-trip safety inspection and post-trip inspection for passengers and belongings of each vehicle used;
6. maintain all vehicles utilized for CLIENT transportation in a safe condition and maintain records regarding service and maintenance on every vehicle used in conjunction with this contract;
7. conduct and document an annual safety inspection on each vehicle used in conjunction with this contract;
8. conduct pre-employment criminal background check, abuser registry check and nurse aide registry check on all driving personnel, as well as annual BMV reports on each driver. All reports are subject to inspection by designated CLIENT management personnel;
9. implement a drug and alcohol testing policy in accordance with the **ALCOHOL AND DRUG FREE WORKPLACE ACT** and the **CDL ALCOHOL AND DRUG TESTING PROGRAM**;
10. ensure all drivers that transport CLIENT passengers are at least of the minimum legal driving age and have 2 years driving experience and possess the appropriate license(s) required to operate the vehicles provided by WCTS;
11. ensure all drivers have current First Aid and CPR training while transporting CLIENT individuals;
12. abide by the CLIENT Transportation Department's safety guidelines, and transportation manual guidelines as appropriate, including prior to their assignment to a vehicle with passengers on board and annually thereafter, provide driver training that addresses (at a minimum);
 - review and distribution of appropriate transportation procedure manual;
 - driver instruction on individual confidentiality;
 - training in the requirements of the rule 5123:2-17-02 of the Administrative Code relating to incidents adversely affecting health and safety (MUI/UI);
 - driver instruction on the general characteristics and needs of developmentally disabled individuals;
 - the rights of developmentally disabled individuals;
 - familiarization with the vehicle operation and proper use, operation, and safety inspection of adaptive equipment and securement systems such as wheelchairs and vest;
 - familiarization with the safe operation of wheelchair lift systems and the safe loading and unloading of individuals;

13. conduct annual evacuation drills for each route;
14. provide drivers access to appropriate information (supplied by CLIENT to WCTS) about individuals to the degree that such information might affect the safe transportation and medical well-being while being transported. Drivers shall be instructed on how to access this information from the WCTS office in the event of an emergency.
15. WCTS agrees to maintain adequate number of substitute drivers as well as sufficient backup vehicles to provide uninterrupted service for all individuals; and
16. The WCTS service provider shall provide a certification of liability insurance to CLIENT

The obligation of WCTS described herein shall be performed by the contracted service provider, Universal Transportation Systems.

For the purposes of administering this agreement, the point of contact for the CLIENT will be the Operations Director or his/her designee. The point of contact for WCTS will be the director of the Office of Grants Administration.

BUSINESS ASSOCIATE AGREEMENT

WHEREAS, CLIENT will make available and/or transfer to the Business Associate confidential, personally identifiable health information in conjunction with THE Licensed Facility Services Agreement; and

WHEREAS, such information may be used or disclosed only in accordance with the privacy regulations [45 CFR §§ 164.502(e); 164.504(e)] issued pursuant to the Health Insurance Portability and Accountability Act [42 USC §§ 1320 -1320d-8], the American Recovery and Reinvestment Act of 2009 and the terms of this Agreement, or more stringent provisions of the law of the State of Ohio;

1. Definitions

Catch-all definition:

- a. The following terms used in this Agreement shall *have* the same meaning as those terms in the HIPAA Rules: Breach, Data Aggregation, Designated Record Set, Disclosure, Health Care Operations, Individual, Minimum Necessary, Notice of Privacy Practices, Protected Health Information, Required By Law, Secretary, Security Incident, Subcontractor, Unsecured Protected Health Information, and Use.

Specific definitions:

- b. Applicable Law means Federal and Ohio law which applies to transactions and entities covered by this Agreement.
- c. Applicable Requirements mean all of the following:
 - a. applicable law

- b. policies and procedures of CLIENT which are consistent with applicable law and which apply to information covered by this Agreement and
- c. the requirements of this Agreement.
- d. *ARRA* means the American Recovery and Reinvestment Act of 2009.
- e. *Business Associate* means the same as the term "business associate" at 45 CFR 160.103, and in reference to the party to this agreement.
- f. *HIPAA* means the Health Care Portability and Accountability Act of 1996, 42 USC §§ 1320 -1320d-8 and regulations promulgated there under as may be amended.
- g. *HIPAA Rules* means the Privacy, Security, Breach Notification, and Enforcement Rules at A 45 CFR Part 160 and Part 164.
- h. *Individual* includes the individual receiving services from CLIENT and the Personal Representative selected by the individual or other person legally authorized to act on behalf of the individual.
- i. *Protected Health Information ("PHI")* is information received from or on behalf of the Covered Entity that meets the definition of PHI as defined by HIPAA and the regulations promulgated by the United States Department of Health and Human Services, specifically 45 CFR 164.501, and any amendments thereto.
- j. *Underlying Service Contract* means the contract entered into between CLIENT and the Business Associate for Licensed Facility Services.

2. The Business Associate is acting as an independent contractor for all functions set forth in this Business Associate Agreement. Nothing in this Business Associate Agreement shall be construed to *give* CLIENT any right to control the Business Associate's conduct in the course of performing a *service* on behalf of CLIENT.

3. CLIENT shall provide the Business Associate a copy of the current Notice of Privacy Practices and any relevant information on changes to or agreed upon restrictions relating to legal permissions for the use or disclosure of PHI.

4. This Business Associate Agreement states terms and conditions which are in addition to those in the Underlying Service Contract. Nothing in this Agreement shall be interpreted to change the terms of the Underlying Service Contract except to the extent that such a change is specifically required under the terms of this Agreement.

5. The Business Associate agrees that it shall not receive, create, use or disclose PHI except in accordance with applicable requirements, including, without limitation, all HIPAA Rules applicable to covered entities and business associates, and as follows:

- a. Licensed Facility Services;
- b. If necessary for the proper management and administration of the Business Associate or to carry out legal responsibilities of the Business Associate. PHI

may only be disclosed to another person/entity for such purposes if:

- Disclosure is required by law; or
 - Where the Business Associate obtains reasonable assurances from the person to whom disclosure is made that the APHI released will be held confidentially, and only may be used or further disclosed as required by law or for the purposes of the disclosure; and
 - The person/entity agrees to notify the Business Associate of any breaches of confidentiality;
- c. To permit the Business Associate to provide data aggregation services relating to the health care operations of CLIENT.

6. The Business Associate and CLIENT agree that neither of them will request, use or release more than the minimum amount of PHI necessary to accomplish the purpose of the use, disclosure or request.

7. The Business Associate shall establish, use, and maintain appropriate safeguards to prevent any unauthorized use or disclosure of PHI and shall comply with the HIPAA Rules and Requirements regarding security of electronic PHI including, without limitation, the requirements of 45 CFR §§ 164.308 (administrative safeguards), 164.310 (physical safeguards), 164.312 (technical safeguards), and 164.316 (policies, procedures and documentation).

8. The Business Associate shall report to CLIENT any unauthorized uses/disclosures of which it becomes aware, including unauthorized uses/disclosures by subcontractors, and shall take all reasonable steps to mitigate the potentially harmful effects of such unauthorized uses/disclosures. Such report shall be made immediately but not later than 30 days after discovery of the unauthorized uses/disclosures. The report of the unauthorized uses/disclosures, shall include the following information:

- a. A brief description of what happened, including the date of the unauthorized uses/disclosures and the date of the discovery of the unauthorized uses/disclosures, if known;
- b. A description of the types of unsecured PHI involved in the unauthorized uses/disclosures (such as whether full name, social security number, date of birth, home address, account number, diagnosis, disability code, or other types of information were involved);
- c. Any steps individuals should take to protect themselves from potential harm resulting from the unauthorized uses/disclosures;
- d. uses/disclosures, to mitigate harm to individuals, and to protect against any further unauthorized uses/disclosures.

9. The Business Associate shall ensure that any of its subcontractors and agents that create, receive, maintain, or transmit PHI on behalf of the Business Associate agree to the same restrictions, conditions, and requirements that apply to the Business Associate with respect to such information, and shall give prior notice to CLIENT of any subcontractors or agents who are to be given access to PHI.

10. The Business Associate shall make all PHI and related information in its possession

available as follows:

- a. To CLIENT, to the extent necessary to permit CLIENT to fulfill any obligation of CLIENT to allow access for inspection and copying in accordance with the provisions of 45 CFR § 164.524, including, without limitation, requirements for providing records PHI in electronic form;
 - b. To CLIENT, to the extent necessary to permit CLIENT to fulfill any obligation of CLIENT to account for disclosures of PHI in accordance with 45 CFR § 164.528.
11. The Business Associate shall make PHI available to CLIENT to fulfil the DO Board's obligation to amend PHI and related information in accordance with 45 CFR § 164.526, and shall, as directed by CLIENT, incorporate any approved amendments to PHI or related statements into the information held by the Business Associate and any subcontractors or agents.
12. The Business Associate shall make its internal practices, books and records relating to the use or disclosure of information received from or on behalf of CLIENT available to the U. S. Secretary of Health and Human Services, or the Secretary's designee, for purposes of determining CLIENT's compliance with the HIPAA Rules, and any amendments thereto.
13. Upon request by an individual, the Business Associate shall account for all disclosures related to such individual made by the BA pursuant to the HIPAA Rules, including, without limitation, accountings required under 45 CFR 164.528
14. Upon termination of this Agreement, the Business Associate shall, at the option of CLIENT, return or destroy all PHI created or received from or on behalf of CLIENT. The Business Associate shall not retain any copies of PHI except as required by law. If PHI is destroyed, the Business Associate shall provide CLIENT with appropriate documentation/certification evidencing such destruction. If return or destruction of all PHI, and all copies of PHI, is not feasible, the Business Associate shall extend the protections set forth in applicable HIPAA Rules to such information for as long as it is maintained. Termination of this Agreement shall not affect any of its provisions that, by wording or nature, are intended to remain effective and to continue in operation.
15. The PHI and any related information created or received from or on behalf of CLIENT is and shall remain the property of CLIENT. The Business Associate agrees that it acquires no title in or rights to the information, including any de-identified information.
16. Any non-compliance by the Business Associate or DD Board with the terms of this Agreement or the HIPAA Rules shall be a breach of this Agreement. If either the Business Associate or DD Board knows of such a breach, each shall take immediate and reasonable steps to cure the non-compliance. In the event that such breach continues, this Agreement shall terminate immediately.
17. Notwithstanding any rights or remedies under this Agreement or provided by law, CLIENT retains all rights to seek injunctive relief to prevent or stop the unauthorized use or disclosure of PHI by the Business Associate, any of its subcontractors or agents, or any third party who has received PHI from the Business Associate.
18. This Agreement shall be binding on the parties and their successors, but neither party may assign the Agreement without the prior written consent of the other, which consent shall

not be unreasonably withheld.

19. The obligations to safeguard the confidentiality and security of PHI imposed herein shall survive the termination of this Agreement.

20. Any ambiguities in this Agreement shall be resolved in favor of an interpretation that promotes compliance with HIPAA and regulations promulgated there under. The parties agree that any modifications to those laws shall modify the obligations of the parties hereunder without the need for formal amendment of the Agreement. Any other amendments to this Agreement shall not be effective without the written agreement of both parties.

Springboro Community City Schools



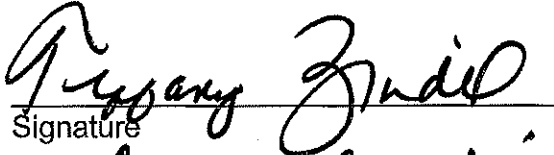
Signature

9-23-20

Date

Title: Executive Dir. of OPERATIONS

WARREN COUNTY BOARD OF COMMISSIONERS



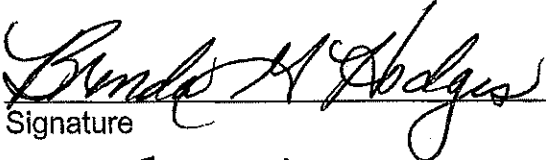
Signature

10-6-2020

Date

Title: County Administrator

ACKNOWLEDGEMENT BY WARREN COUNTY TRANSIT SERVICE OPERATOR




Signature

9/29/20

Date

Title: TRANSIT MANAGER

Approved as to form:



Keith Anderson

Assistant County Prosecutor

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1410

Adopted Date October 06, 2020

ENTER INTO CONTRACT WITH NUCTECH US, INC. RELATIVE TO BODY SCANNER INSPECTION SYSTEM FOR THE WARREN COUNTY JAIL

WHEREAS, pursuant to Resolution #20-1079, adopted August 04, 2020, this Board recommendation to Award Contract for the Warren County Body Scanner Inspection System for the Warren County Jail Project to Nuctech US, Inc., for a total contract price of \$94,000.00; and

NOW THEREFORE BE IT RESOLVED, to authorize County Administrator to enter into contract with Nuctech US, Inc., 128 Corporate Center, 70 Blanchard Road #304, Burlington, Massachusetts, for a total contract price of \$94,000.00; as attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

KH\

cc: c/a—Nuctech US, Inc.
Facilities Management (file)
OMB Bid file

Purchase and Sale Agreement of One

NUCTECH™ Body Inspection System

Seller's Contract No.: NUCUS/WARRENOH-2020-R019

This Agreement (hereinafter referred to as "**Agreement**") is made by and between Board of County Commissioners on behalf of the Warren County Department of Facilities Management, with address located at is 406 Justice Drive, Lebanon, OH 45036 (herein referred to as "**Purchaser**") and Nuctech US Inc., a Delaware corporation, with principal office located at 70 Blanchard Road, Burlington, Massachusetts, 01803 (herein referred to as "**Contractor**"), by and through their respective duly authorized officers (Potential Client and Contractor are both a "**Party**" and collectively the "**Parties**").

In consideration of the mutual covenants herein contained, it is agreed by – and between the Parties thereto as follows:

1. Body Scanner Technical Specifications

1.1 Contractor shall deliver to 822 Memorial Drive, Lebanon OH 45036, a body scanner conforming to the technical specifications set forth in Appendix A hereto ("Unit").

2. Price

The equipment purchase price shall be \$94,000.00 (Ninety-four Thousand US Dollars).

Item No.	Equipment, Model	Qty.	Unit Price (USD)	Sub-Total Price
1	NUCTECH™ HT2000GA Body Inspection System	1	\$ 94,000.00	\$ 94,000.00
2	5-year initial warranty	-	included	included
3	Transportation, Insurance, Installation, Commissioning, Training, Technical Support	-	included	included
Body Scanner Price and Included Items \$94,000.00(Ninety-Four Thousand US Dollars)				

3. Delivery, and Training

3.1. Delivery. The Contractor will ship the Equipment subject to the term and conditions of this Agreement. Delivery of the Equipment shall be made at the location with address 822 Memorial

Drive, Lebanon OH 45036. Title to, and risk of loss for, the Equipment shall pass to the Potential Client from the Contractor at the time of delivery of possession at the Potential Client's facility. The Contractor shall deliver and install within **60 calendar days** at no additional expense to the Potential Client upon the Agreement being executed by both Parties.

3.2. Training. The Contractor shall provide training as set forth in **Appendix B**.

4. Other Terms and Conditions

4.1. Payment

4.1.1. Purchase Payments:

4.1.1.1. Payment- 50% of the cost of the machine (\$47,000.00) will be due 20 calendar days after the execution of the Agreement with the final 50% due within 10 business days upon completion of set up, training, and permitting. (Final Payment of \$47,000.00).

4.2. Initial Warranty

4.2.1. As part of the purchase price, for **Five Years** following the date of installation of the Unit, the Contractor warrants that it shall be free of defects of workmanship and materials ("Initial Warranty").

4.2.2. The Initial Warranty includes all parts, labor and other expenses associated with keeping the body scanner in good working order.

4.2.3. The Initial Warranty includes all hardware and software changes and upgrades during the Initial Five Years Warranty period.

4.2.4. The Contractor shall perform all work required under the Initial Warranty in a manner as below.

- On-site service is generally available Monday to Friday between the business hours of 8:00 AM Eastern Standard Time to 4:00 PM Eastern Standard Time. If Purchaser has special requirements, on-site service time can be specially arranged.

- 24/7 Toll Free Support Line and 24/7 On-Line Help Desk will be available. If the problem could not be solved through phone conversation, we will arrive at the site in 48 hours after getting approval of the Purchaser.

4.2.5. The Initial Warranty does not include damage to the Unit resulting from failure to use or maintain the body scanner in accordance with the Operator's Manual or Owner's Maintenance Manual (which will be supplied to Purchaser upon delivery of the Unit), vandalism or intentional damage caused by a correctional officer, inmate, visitor or any other person.

4.4. Regulatory Approval

4.4.1. Contractor shall cooperate with Purchaser in obtaining all regulatory approvals necessary to operate the Unit on living human subjects, including Radiation Survey.

4.5. General Provisions

4.5.1. Waivers

4.5.1.1. The rights and remedies of the Parties to this Agreement are cumulative and not alternative. Neither the failure nor any delay by either Party in exercising any right, power or privilege under this Agreement will operate as a waiver of such right, power or privilege, and no single or partial exercise of any such right, power or privilege will preclude any other or further exercise of such right, power or privilege or the exercise of any other right, power or privilege. To the maximum extent permitted by applicable law,

4.5.1.1.1. (a) no claim or right arising out of this Agreement or the documents referred to in this Agreement can be discharged by one Party, in whole or in part, by a waiver or renunciation of the claim or right unless in writing signed by the other Party;

4.5.1.1.2. (b) no waiver that may be given by a Party will be applicable except in the specific instance for which it is given; and

4.5.1.1.3. (c) no notice to or demand on one Party will be deemed to be a waiver of any obligation of such Party or of the right of the Party giving such notice or demand to take

further action without notice or demand as provided in this Agreement or the documents referred to in this Agreement.

4.5.2. Counterparts

4.5.2.1. This Agreement may be signed in multiple counterparts, each of which shall be deemed an original, and all of which together shall constitute one and the same instrument. Any counterpart may be delivered by facsimile; provided, however, that attachment thereof shall constitute the representation and warranty of the person delivering such signature that such person has full power and authority to attach his or her signature and to deliver this Agreement.

4.5.3. Entire Agreement

4.5.3.1. This Agreement constitutes the entire agreement between the Parties with regard to the subject matter of this Agreement, and may only be amended in writing signed by all the Parties hereto. Neither Party may assign this Agreement without the prior written consent of the other Party, which consent shall not be unreasonably withheld.

4.5.4. Disputes

4.5.4.1 Both Parties shall continue performance under the Contract while matters in dispute are being resolved.

4.5.4.2 The duties and obligations imposed by the Agreement Documents and the rights and remedies available hereunder, shall be in addition to and not a limitation of any duties, obligations, rights and remedies otherwise imposed or available by law. No action or failure to act by the Purchaser or Contractor shall constitute a waiver of any right or duty afforded any of them under the Contract, nor shall any such action or failure to act constitute an approval of or acquiescence in any breach hereunder, except as may be specifically agreed in writing.

4.5.4.3 The right afforded to the Purchaser under this Section shall be in addition to any other rights provided by law or set forth in these

Agreement Documents and Specifications. The Purchaser shall exercise any or all of such rights, which individually or conjunctively will totally compensate the Purchaser for the damages suffered by the Purchaser, resulting from the default of the Contractor.

4.5.4.4 Governing Law, Jurisdiction, and Venue.

This Agreement, for all purposes, shall be construed in accordance with the laws of the State of Ohio without regard to any conflicts of laws principles that would require the laws of any other jurisdiction to apply. Any action or proceeding by either of the Parties to enforce this Agreement shall be brought only in the courts situated in the state of Ohio and having jurisdiction in Warren County, Ohio. The Parties hereby irrevocably submit to the exclusive jurisdiction of such Courts and waive the defense of inconvenient forum to the maintenance of any such action or proceeding in such venue.

4.5.5. Insurance

4.5.5.1. Contractor shall obtain, maintain, and keep in full force and effect during the installation thru the life of this Agreement all policies of insurance required by applicable law, such as Workmen's Compensation, and other suitable policies of insurance, including General Liability Insurance in amounts not less than \$1,000,000 each occurrence (combined single limit for bodily injury and property damage), \$1,000,000 for personal and advertising injury liability, \$2,000,000 aggregate on products and completed operations, and \$2,000,000 in the general aggregate. Notice: Said policy shall not terminate, be suspended, or voided, nor shall it be cancelled, nor the coverage or limits reduced, until thirty (30) calendar days after written notice is given to the Purchaser.

4.5.5.2. If Contractor gives such notice, the Contractor shall submit to Purchaser in writing the reason for such, a letter from new insurance

company, and the new "Certificate of Liability Insurance" with said insurance coverage subject to approval by Purchaser in its sole discretion, provided that the aforesaid approval shall not be unreasonably withheld where the new "Certificate of Liability Insurance" meets the minimum scope of insurance coverages as stated in Section 4.5.5.1.

4.5.6. Indemnification and Hold Harmless Provision

4.5.6.1. The Contractor shall indemnify and hold the Purchaser harmless for any and all claims, liability, loss, costs, damage or any other expenses which may accrue to or be incurred by the Purchaser as a result of injury or damage to any person or property occasioned by any intentional act or omission by the Contractor, its employees, or agents.

4.5.7 Patent Assurance, Indemnification and Hold Harmless Provision

4.5.7.1 In the Agreement, the Contractor must affirm that the equipment, hardware and software proposed by the Contractor do not infringe on any U.S. patent or copyright.

4.5.7.2 The Contractor shall indemnify and hold harmless the Purchaser, its officers, agents and employees, against all claims that the equipment, hardware and software proposed or supplied through the Agreement; infringe on other U.S. patents or copyrights. This provision does not in any way limit the indemnification and hold harmless provision as stated in Section 4.5.6.

4.5.8 Disclaimer of Warranties

4.5.8.1 Except for the express warranties and specifications set forth in this Agreement and any implied warranties of fitness for a particular use or purpose, the Contractor makes no other representations and grants no other warranties, express or implied, either in fact or by operation of law, by statute or otherwise.

4.6 Intellectual Property Rights

4.6.1 "Intellectual Property Rights" means patent, trademark, copyright, trade secret and all other forms of intellectual property rights (in each case in any part of the world and whether or not registered or registrable and to the fullest extent thereof and for the full period and all extensions and renewals thereof) and all applications for registration thereof and all rights and interests thereto and therein.

4.6.2 All Intellectual Property Rights including but not limited to patent, trademark, copyright, trade secret, etc. used or embodied in the Contract equipment and technical documentation thereof shall be deemed to be and remain the property of the Contractor (their original owner), and no ownership rights of any kind are transferred to the Purchaser. Both Parties hereby confirm that the delivery or ownership transfer of the Contract equipment shall not constitute the transfer or license of the Intellectual Property Rights.

4.7 Confidentiality

4.7.1 "Confidential Information" means, with respect to either party, any and all information (including, but not limited to, commercial, industrial, financial, technical, operational, marketing, customers and products information) in any form belonging to such party except information which at the relevant time is

4.7.1.1 (a) known to the public through no act or omission in violation of this Contract,

4.7.1.2 (b) furnished to the receiving party by a third party having the lawful right to do so,

4.7.1.3 (c) known to the receiving party prior to disclosure hereunder (as established by written documentation thereof) or

4.7.1.4 (d) Independently developed by the receiving party without reference to the Confidential Information.

4.7.2 Except as may be required by law or as may be reasonably necessary to enforce rights hereunder, each of the Parties agrees that

4.7.2.1 (a) it shall use Confidential Information belonging to the other solely for the purposes of this Contract and

4.7.2.2 (b) it shall not disclose Confidential Information belonging to the other to any third party (other than its employees with a direct need to know and guarantee his employees have signed a non-disclosure agreement to undertake the same confidential obligations) without the express prior written consent of the disclosing party.

4.7.3 Except as may be required by law, neither party hereto shall disclose to any third Parties the contents of this Contract, correspondences between the Parties (including email and fax), documents and conversations that contain Confidential Information of the other party without the express prior written consent of the disclosing party.

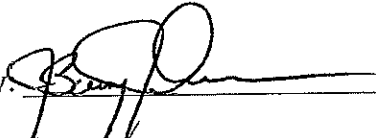
4.7.4 The receiving party shall take measures to protect the secrecy of and avoid disclosure and unauthorized use of Confidential Information. The receiving party shall exercise the same procedures and safeguards with a degree of care no less than that used in connection with its own Confidential Information for the purpose of preventing the disclosure of Confidential Information.

4.8 The parties acknowledge that Purchaser is governed by the Ohio Public Records Laws. Notwithstanding any statement in this Agreement to the contrary, the Purchaser's handling of any confidentiality obligations are subject to the limitations of this paragraph. Records (as defined by Ohio Revised Code §§ 149.011 and 149.43) related to this Agreement may be subject to disclosure under the Ohio Public Records Laws. The Purchaser shall have no duty to defend the rights of Supplier or any of its agents or affiliates in any records requested to be disclosed. The Purchaser shall notify Contractor in writing promptly for any such request for disclosure under the law. Contractor and its agents and affiliates shall have the right to pursue legal and/or equitable remedies to stop or limit disclosure at their sole expense.

4.8.1 The period for the receiving party to maintain "Confidential Information" secret shall cover the validity period of the Contract and five (5) year(s) after the expiration or termination date of the Contract.

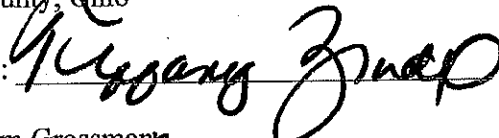
IN WITNESS WHEREOF, the Parties have caused this Agreement to be executed on the date and year last approved below.

NUCTECH US, INC.

By: 

Barry Johnson
Vice President
Date: 08/21/2020

Board of County Commissioners, Warren
County, Ohio

By: 

~~Tom Grossmann~~
Tiffany Zindel, County Administrator

By: _____


~~Shannon Jones~~

By: _____

~~David G. Young~~

Date: 10-8-2020

APPROVED AS TO FORM


Kathryn M. Horvath
Asst. Prosecuting Attorney

Appendix A

Human Body Inspection System

HT 2000GA

HT2000GA

Inspection on and inside the body
High quality real time images
Widely used in a variety of applications

Non-contact head-to-toe inspection

No special motion required; identifies threats hidden on and inside the body with only one scan.

Superior inspection capability

Easily detects contrabands concealed under clothing, swallowed or concealed in body cavities; including metallic and non-metallic weapons, explosives, drugs, smuggled goods, mobile phones, jewelry, gems and precious metals.

Practical software

Provides image processing, database management, user management and training functions; LAN and WAN compatible enabling remote inspection, portable monitor and centralized management.

Radiation safety

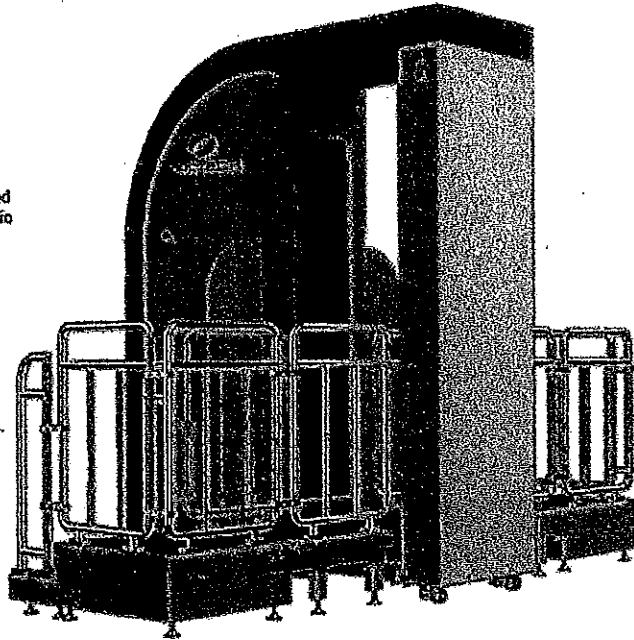
Dose level complies with the IAEA and ANSI N43.17 standards.

Convenient maintenance

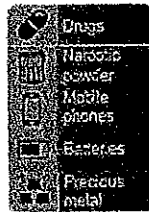
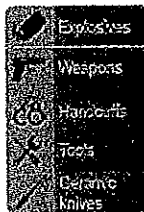
Modular design provides easy installation and maintenance.

Widely used in a variety of applications

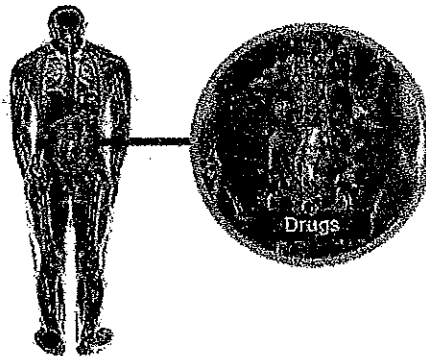
Can be used in correctional facilities, law enforcement, border crossings, special events, etc.



Inspection Items



Scan Image



 NUCTECH, INC

HT2000GA ///

// Dose Comparison

1 

1 inspection ≈ 1 hour natural background

20 

20 inspections ≈ 1 hour flight

400 

400 inspections ≈ 1 Chest X-ray

// Technical Specifications

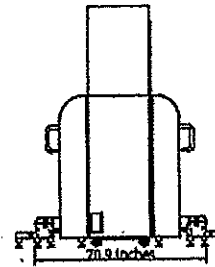
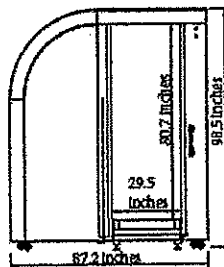
General Specification	
Inspection mode	Non-contact
Scan time	< 7s
Spatial resolution	0.10 mm (in part)
Wire detectability	38 AWG
Radiation dose (per 5000 inspection)	0.25 ~ 2.0 μSv (adjustable)
Detection capabilities	Metal/non-metal weapons, explosives, drugs, liquids, etc.

Imaging Processing System	
Standard image mode	Real time
Image processing functions	Zoom & move, contrast & brightness adjustment, image enhancement, inverse, etc.
Image retrieval	Retrieve scanned images, track inmate cumulative dose.

Installation Data	
System dimensions (cable excluded)	98.5 inches (H) x 87.2 inches (W) x 70.9 inches (D)
Tunnel dimensions	80.7 inches (H) x 29.5 inches (W)
Weight	167 lbs
Power supply	100 ~ 120VAC / 200 ~ 240VAC, 50/60Hz
Power consumption	10 KVA
Operating temperature/Humidity	0 °C ~ +40 °C / 5% ~ 95% (non-condensing)
Storage temperature/Humidity	-20 °C ~ +60 °C / 5% ~ 95% (non-condensing)

Advanced Function	
Optional features	Touch screen or video surveillance interface, camera, remote control & management, IP camera & alarm, gas leak, fire alarm, etc.

// Dimensions



Copyright 2020 NUKTECH COMPANY LIMITED, All Rights Reserved. Design and specifications are subject to change without notice. Printed in CHINA, Mar. 2020.

CE NUKTECH HAS BEEN AWARDED THE CERTIFICATE OF QUALITY MANAGEMENT SYSTEM FROM TÜV SÜD. NUKTECH HAS BEEN AWARDED THE CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM FROM TÜV SÜD. NUKTECH HAS BEEN AWARDED THE CERTIFICATE OF OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM FROM TÜV SÜD.

NUKTECH US, INC
 Address: 70 Blanchard Road, Burlington, MA 01803
 Contact: Barry Johnson 724-464-9182
 James Turco 513-447-5500
 William Richardson 814-241-2678
 Website: www.nuktech.us

Appendix B: Training Specifications

The Supplier will provide comprehensive training focusing on the safe and proper use of the HT2000GA for detection, screening. Training will be given to a group of up to 10 designated personnel, consisting of operators and supervisors. The comprehensive hands-on training program for designated personnel will cover the following aspects:

- Safe use and compliance with Supplier's system operating requirements
- Routine maintenance by Operators (including cleaning)
- Troubleshooting

1.1.1 Training syllabus

Division	Description
Part A System Overview	(i) General system overview: <i>Covers basic working principles, composition of the entire system.</i> (ii) Explains the applications of each unit element in scanning and detection procedure.
Part B Radiation Safety	(i) Safety issues and safety measures: <i>Covers general knowledge of radiation protection, radiation in daily life, international standards and related topics.</i> (ii) radiation safety knowledge of the system <i>Covers radiation dose rate, system shielding, exclusion zone, emergency stop locations and redundancies built into the system.</i>
Part C System Operation	(i) Explains the working procedures of each system component. (ii) Explains system control procedures (iii) Trains operators on practical work on the system.
Division	Description

Part D Image Interpretation	(i) Introduction to functionality of HMI & application software; (ii) Familiarize trainees with system produced images. (iii) Instructs trainees how to detect threatening substances based on recognition of anomalies that result from material characteristics (e.g. reflection, absorption, thickness, density) and area provided in the image.
Part E Maintenance	(i) Explains the functions, controls and proper operation of each unit element. (ii) Introduction to the routine preventative maintenance procedures. (iii) Explanation of the fault identification procedures with hand-on practice. (iv) Preliminary analysis of fault symptoms and repair with hand-on practice.
Part F Evaluation	(i) Theory evaluation. (ii) Practical evaluation.

1.1.2 Training Arrangement

- **Location:** At or near or on the installation site determined by the Purchaser or remotely via web based platform.
- **Language:** English
- **No. of Trainees per course:** Ten (10) people; Training could be completed in several sessions.

The detailed schedule will be determined by the Purchaser and the Contractor together to ensure that well-trained personnel are available at the time when the equipment is handed over for operational use.

1.1.3 Recommended Qualification for trainees

- Ability to differentiate between colors on a computer screen.
- Experience in operating computer with Windows Operating System.
- Experience with reviewing x-ray images of luggage and personal effects desirable but not required.

1.1.4 Training Pre-requisites for the various functions

The Purchaser shall provide a meeting room near the site of the system installation unless training occurs via web based platform. The meeting room shall be equipped with a projector and a white board.

1.1.5 Training Material and Documentation

The training documentation/materials to be provided consists of a Student Handbook, an Instructor Guide, hand-outs, various audio and video and other normal training material.

AFFIDAVIT OF NON COLLUSION

STATE OF OHIO
COUNTY OF WARREN

I, James Turco, holding the title and position of National Sales Manager at the firm Nuctech US Inc., affirm that I am authorized to speak on behalf of the company, board directors and owners in setting the price on the bid or proposal. I understand that any misstatements in the following information will be treated as fraudulent concealment of true facts on the submission of the bid or proposal.

I hereby swear and depose that the following statements are true and factual to the best of my knowledge:

The bid/proposal is genuine and not made on the behalf of any other person, company or client, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS.

The price of the bid/proposal was determined independent of outside consultation and was not influenced by other companies, clients or contractors, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS.

No companies, clients or contractors, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS have been solicited to propose a fake bid/proposal for comparative purposes.

No companies, clients or contractors, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS have been solicited to refrain from bidding or to submit any form of noncompetitive bidding.

The price of the bid/proposal has not been disclosed to any client, company or contractor, INCLUDING ANY MEMBER OF THE WARREN COUNTY BOARD OF COMMISSIONERS, and will not be disclosed until the formal date on _____

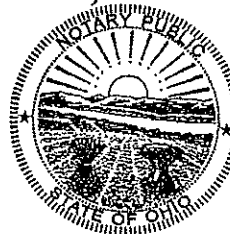
J. Turco
AFFIANT

Subscribed and sworn to before me this 22nd day of September 2020

Kathleen L Pendergrass
(Notary Public),

Butler County.

My commission expires August 15 2024



KATHLEEN L. PENDERGRASS
Notary Public, State of Ohio
My Comm. Expires Aug. 15, 2024

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1411

Adopted Date October 06, 2020

APPROVE ADOPTION OF THE 2021 WARREN COUNTY HAZARD MITIGATION 5-YEAR PLAN UPDATE

WHEREAS, The Warren County Emergency Management Agency desires to be compliant with the Disaster Mitigation Act of 2000 and 44 CFR Section 201.6(d)(3). Said Act requires that a Hazard Mitigation Plan meeting program criterion be developed in order that the participating Warren County Communities and unincorporated areas of Warren 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.); and

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

A local jurisdictions 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; and

WHEREAS, the Warren County Emergency Management Agency established the Warren County Hazard Mitigation Planning Team 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 Hazard Mitigation Plan update was prepared and submitted to the Ohio Emergency Management Agency for review and comment in August 2020. Said Plan has been completed per the Ohio Emergency Management Agency recommendations. Said Plan is on file at the office of Warren County Department of Emergency Services and is hereby formally adopted; and

NOW THEREFORE BE IT RESOLVED, by adopted Resolution, the Warren 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 Warren County, Ohio; and

BE IT FURTHER RESOLVED, for the reasons stated in the preamble hereto, which is hereby declared to be an emergency measure and shall take effect and be in force from and after its adoption by the Warren County Board of Commissioners, and its adoption by the participating municipalities of Warren County

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Emergency Services (file)

**WARREN COUNTY, OHIO
HAZARD MITIGATION PLAN**



JANUARY 2021

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RECORD OF CHANGES

Date	Changes to Plan	Name of person recording changes

INTRODUCTION

The federal Disaster Mitigation Act of 2000 requires jurisdictions to develop and maintain a Multi-Hazard Mitigation Plan (MHMP) to remain eligible for certain federal disaster assistance and hazard mitigation funding programs. Renewal of the plan every five years is required to encourage the continual awareness of mitigation strategies. For the National Flood Insurance Program (NFIP) communities to be eligible for future mitigation funds, they must adopt the MHMP.

As Warren County expands and changes, challenging vulnerabilities must be addressed. Warren 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 proactive process built on assessing the hazards and applying effective strategies to complete preventive measures. It involves multiple stakeholders from Warren County jurisdictions and the State along with blending the public and private sector goals, objectives, and actions.

The main overall goal of the Warren County Hazard Mitigation Plan is to significantly reduce injuries and loss of life and to 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 preparedness and hazard mitigation for Warren County businesses and residents.

HISTORY

In 2007, Warren County adopted its Local Hazard Mitigation Plan (LHMP), as required by the Disaster Mitigation Act of 2000. The 2007 LHMP provided a high-level overview of the hazards affecting the community. The hazards identified in the LHMP included wildland urban interface fires, drought, extreme temperatures, dam inundation, severe storms and flooding. The plan also included a vulnerability assessment and mitigation actions to decrease the impacts of these hazards to the community.

The 2015 Hazard Mitigation Plan contained many of the same elements of the 2007 LHMP, however, through the use of new research and information methods such as GIS mapping, the committee created a more comprehensive plan that focused on natural hazards and the limited resources available to apply to mitigation efforts.

The 2020 Hazard Mitigation Plan is similar in function to its predecessors, however the planning team focused more on education and collaboration with local jurisdictions, schools, businesses, and organizations to create mitigation strategies that will benefit local jurisdictions and reduce risk locally and to the county. The Planning Team designed a thorough approach to provide factual, evidence-based information on hazards, and to solicit comprehensive information and feedback from county stakeholders to determine mitigation priorities and strategies for action.

1. COMMUNITY PROFILE

BACKGROUND

The Community Profile summarizes the County's history and existing environmental and socioeconomic conditions. Environmental and socioeconomic factors include geography, topography, climate, population, economic, housing, and land use and development trends.

Warren County is in Southwestern Ohio. The County has a total land area of 400 mi². It is bound by Montgomery and Greene counties to the north, Butler County to the west, Clermont and Hamilton counties to the south, and Clinton County to the east.

Warren County was established March 24, 1803, by an act of the first General Assembly in Chillicothe, Ohio. This same act gave the County its name in honor of General Warren, who distinguished himself during the War of the Revolution. Warren, Butler and Montgomery counties were formed from territory formerly included in Hamilton County. Warren County was originally made up of three principal land subdivisions. The Virginia Military District comprised the eastern half, the Symmes Purchase made up the southwest corner and the Congress Lands were in the northwest corner. Warren County was originally divided into four townships: Franklin, Wayne, Deerfield and Hamilton Twps. ¹

The County Seat is in the City of Lebanon. The three-member board of County Commissioners is elected for a four-year term and is the legislative and executive body of the County. Warren County Commissioners hold title to all County properties, serve as the sole taxing authority for the County and control county purchasing. Most importantly, the Warren County Board of Commissioners is the budget and appropriating authority for County government, which includes all County agencies and elected officials (Sheriff, Auditor, Treasurer, Courts, Emergency Services, Telecommunications, etc.).

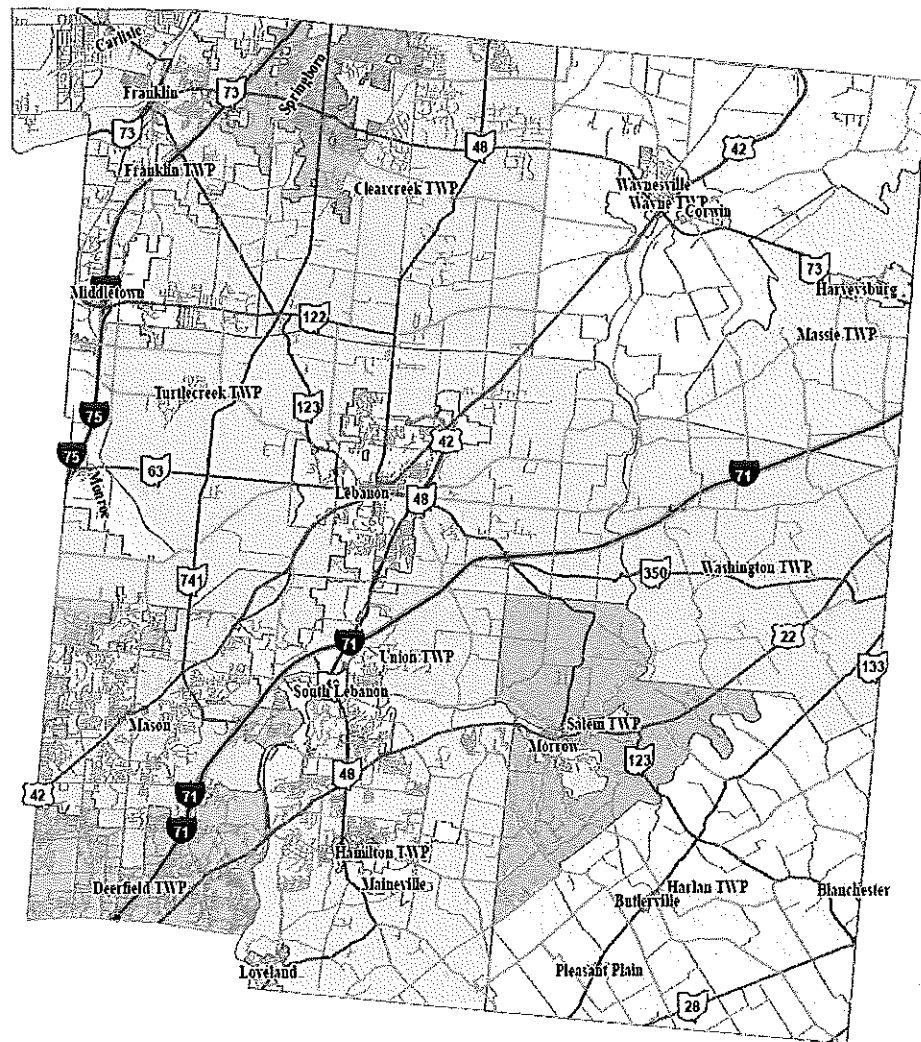
¹ *The History of Warren County, Ohio*, Unknown Author, W. H. Beers Company, Chicago, Illinois, 1882

1.1 JURISDICTIONS

There are 4 cities, 9 villages, and 11 townships in Warren County which make up 24 jurisdictions. There are also portions of 3 other cities in the county.

CITIES	VILLAGES	TOWNSHIPS
FRANKLIN	BUTLERVILLE	CLEARCREEK
LEBANON	CARLISLE	DEERFIELD
LOVELAND (PART)	CORWIN	FRANKLIN
MASON	HARVEYSBURG	HAMILTON
MIDDLETOWN (PART)	MAINEVILLE	HARLAN
MONROE (PART)	MORROW	MASSIE
SPRINGBORO	PLEASANT PLAIN	SALEM
	SOUTH LEBANON	TURTLECREEK
	WAYNESVILLE	UNION
		WASHINGTON
		WAYNE

Figure 1: Map of Warren County Jurisdictions



1.2 CLIMATE, GEOGRAPHY, RIVERS AND DAMS

CLIMATE

In Warren County, Ohio, the summers are warm and humid, the winters are very cold and windy, and it is partly cloudy year-round. Over the course of the year the temperature typically varies between 23°F and 85°F and is rarely below 7°F or above 92°F. The Average temperature for Warren County is 52.55°F. (Source: weatherspark.com).

Warren County receives approximately 41 inches of rain per year, which is more than the U.S. average at 38 inches per year. Average snowfall is 15 inches. The number of days with any measurable precipitation is approximately 115 days a year, and on average there are 178 sunny days per year in Warren County. The July average high temperature is around 85 degrees and the January average low temperature is 21 degrees.

Table 1: Warren County Average Climate

Climate Measurements	Warren County, Ohio	United States
Avg. Rainfall (in.)	41.3	38.1
Avg. Snowfall (in.)	14.7	27.8
Avg. Precipitation Days	115.0	106.2
Avg. Sunny Days	178	205
Avg. July High	85.1	85.8
Avg. Jan. Low	21.0	21.7
Comfort Index (higher=better)	7.2	7
UV Index	3.8	4.3
Avg. Elevation FT.	846	2,443

Source: <http://www.bestplaces.net/climate/county/ohio/warren>

CLIMATE CHANGE

According to the state of Ohio Hazard Mitigation Plan, because of climate change the average temperature may increase 1 to 3 degrees Celsius over the next several decades. Projected change in the climate models indicate a clear tendency towards increased frequency of heat waves. Further cold- air outbreaks and other extreme cold spells will still occur but with reduced likelihood. Rainfall will increase variably across the Midwest over the next several decades with potential to increase 20-30% in the spring and winter months and increase in variability of precipitation in the summer and fall months. Some other affects include the likelihood of warmer nights and possibly warmer days leading to an increased susceptibility to pests. The warming will likely cause a reduction in crop yields and the evaporation / transpiration feedback will lead to less available water resources.

According to the National Weather Service Office in Wilmington, Ohio, the Southwest Ohio region is seeing a wetter trend and increase in occurrences of more extreme rain events. This could increase ground-level flooding, areal flooding, and flash flood events.

GEOGRAPHY

Warren County covers an area of approximately 410 square miles. The county is composed of rolling till plains with local end moraines. The highest elevation of 1,362 feet in Clearcreek with other elevations plummeting to much lower levels with abruptness in only a few points of the County. The County contains 50 different soil types, the majority of which are poorly drained clays and well-drained loams. The County is situated in the ecoregion known as the Eastern Corn Belt Plain. There are two distinct types of Eastern Corn Belt Plain topography located in Warren County. They are the Loamy High Lime Till Plains and pre-Wisconsinan Drift Plains. The majority of the County is comprised of Loamy High Lime Till Plains.

The western, northern and northeastern portions of Warren County contain the ecoregion known as Loamy High Lime Till Plains. This ecoregion contains soils that developed from loamy, limy, glacial deposits of Wisconsinan age. These soils typically have better natural drainage than those of surrounding ecoregions. Beech forests, oak-sugar maple forests and elm-ash swamp forests once grew on the nearly level terrain. Today, corn, soybean and livestock production is widespread.

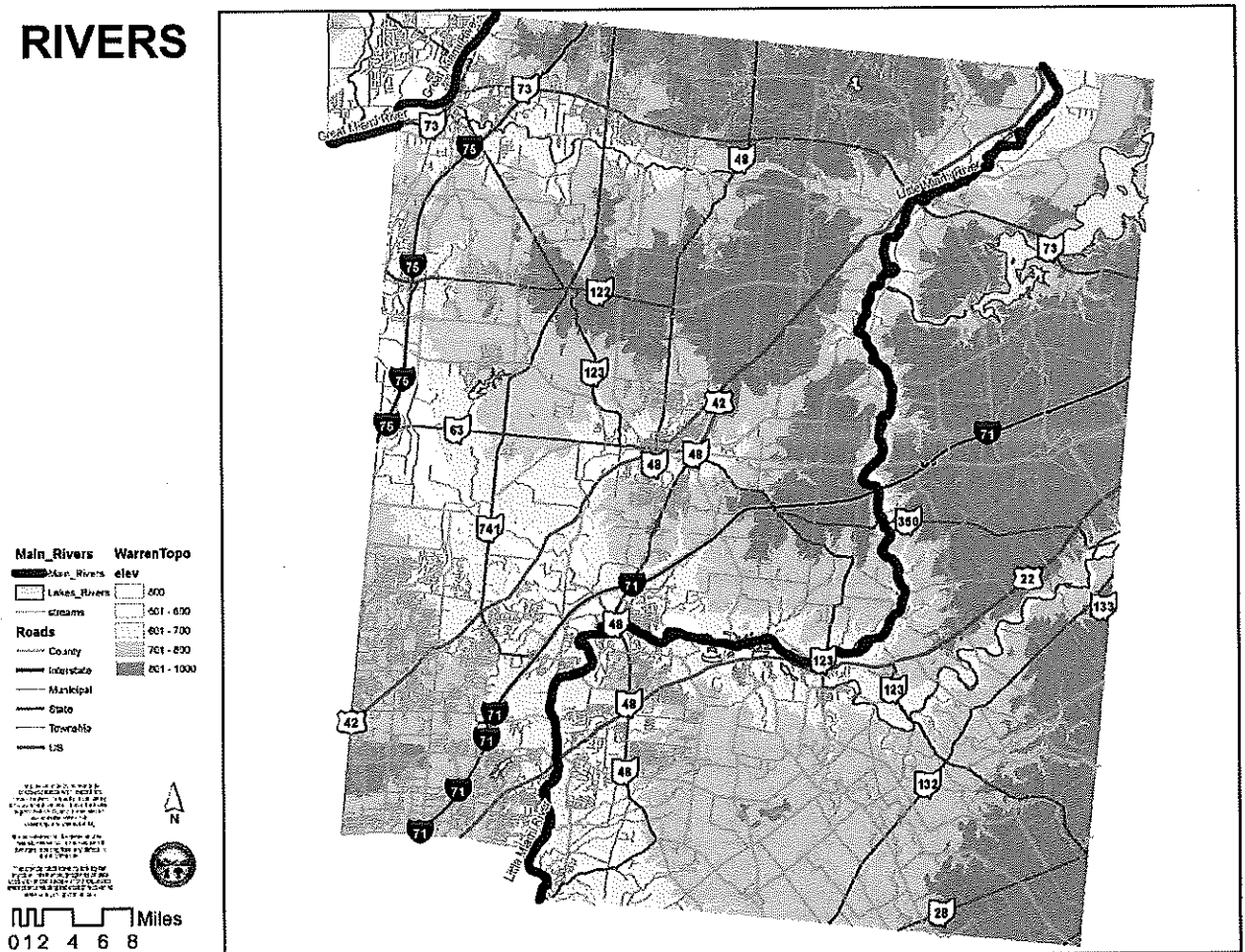
The central and southeastern portions of Warren County contain the pre-Wisconsinan Drift Plain ecoregion. This ecoregion is differentiated from the surrounding ecoregions by its deeply leached, acidic, pre-Wisconsinan till and thin loess and widespread areas of nearly flat, very poorly drained soils with fragipans. In addition, some dissected areas occur. Originally, beech forests and elm-ash swamp forests were dominant. Today, soybeans are common and are well adapted to spring soil wetness. Corn, tobacco and livestock farming also occur.

RIVERS

Warren County has two major drainage basins: The Great Miami River and the Little Miami River. Streams that drain other parts of the County include Caesar Creek, Todd's Fork, Second Creek, Little Muddy Creek and Clear Creek. The County contains approximately 62,800 water acres, which consists of about 3,450 acres of lakes, and approximately 320 linear miles of streams and rivers. The Little Miami River is the first river in Ohio proposed for protection under the Federal Wild and Scenic Rivers Act, with planned areas for canoeing, picnicking and camping.

Figure 2: Depicts Warren County Rivers

RIVERS



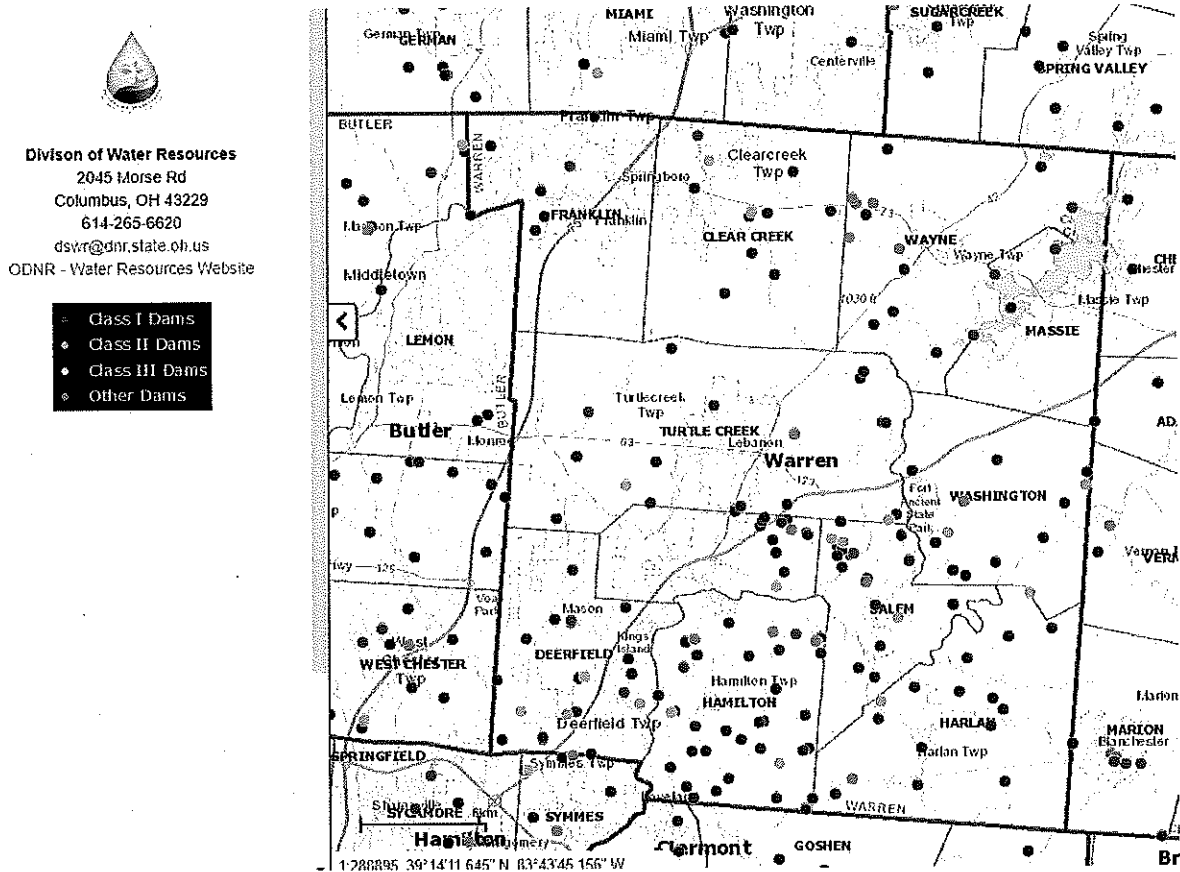
DAMS

Warren County has ten Class I dams. Of these ten dams, four of them are situated along Caesar Creek Lake. The other six are spread out across the County. Four of these dams are privately held, and two of those do not have approved Emergency Action Plans. In total, Warren County is home to 165 dams, including those that are exempt, unclassified or abandoned. Many of the 165 dams are situated along tributaries to creeks and were created for recreational purposes.

Table 2: Warren County Dam Classification

ODNR Class	Count
Class 1	10
Class 2	14
Class 3	22
Class 4	48
Not Classified	71
Total	165

Figure 3: Map of Warren County Dams



1.3 INFRASTRUCTURE, RAIL, PIPELINES AND UTILITIES

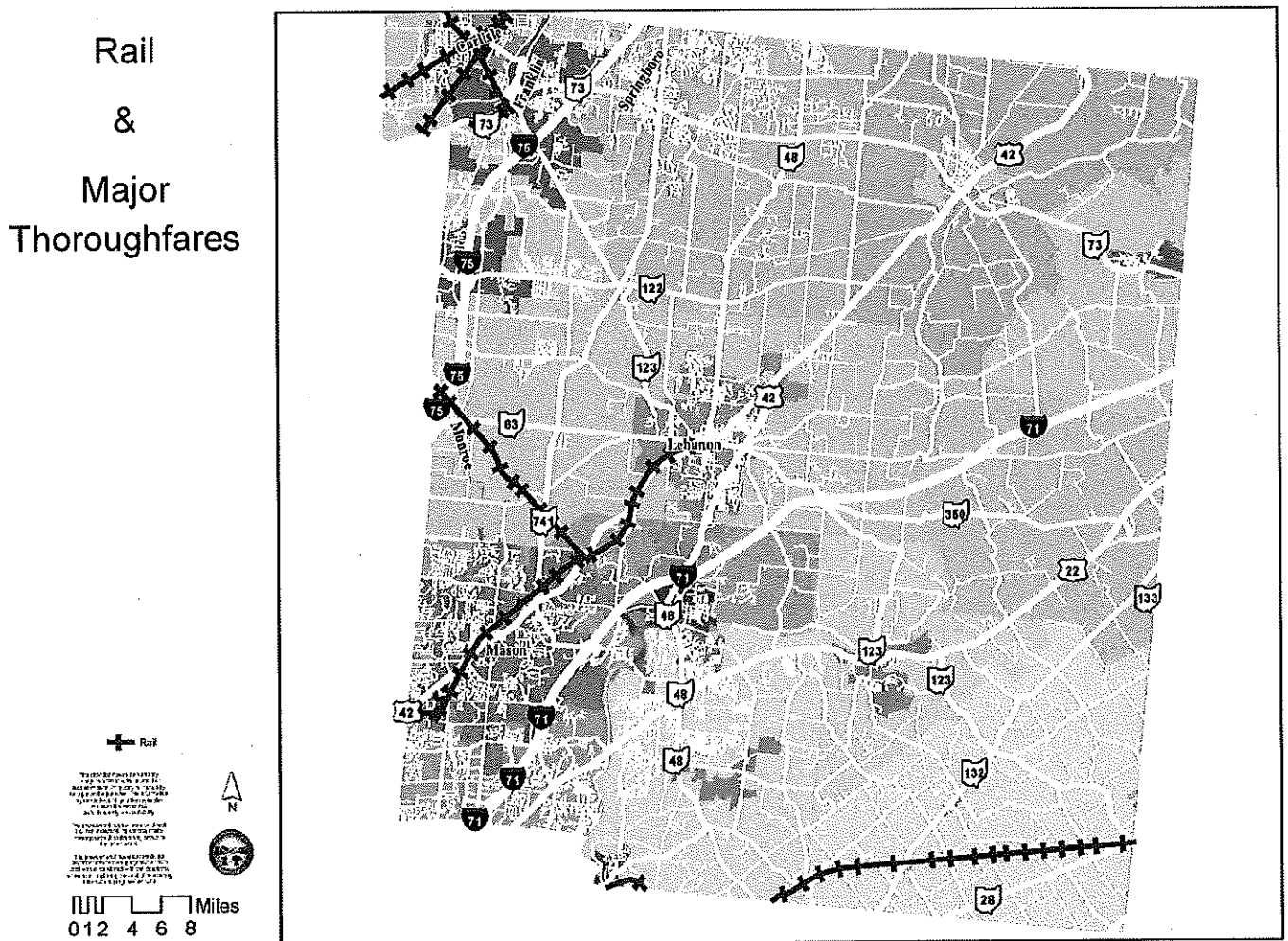
MAJOR THOROUGHFARES

Two major interstate highways run through the county: I – 75 through the Northwest corner and I-71 which runs from the Southwest corner to the Northeast. There are 2 US Routes (22 and 42) and 8 State Routes (28, 48, 63, 73, 122, 123, 132, and 741) that run through Warren County (depicted in Figure 4).

RAIL LINES

There are three major freight rail lines that run through Warren County: CSX and Norfolk-Southern mostly converging in the Northwestern portion of the county and Indiana and Ohio (formerly Genesis and Wyoming) in the Southeastern portion of the county. The city of Lebanon also operates a historic passenger rail line on the Lebanon Mason Monroe (LM&M) Railroad.

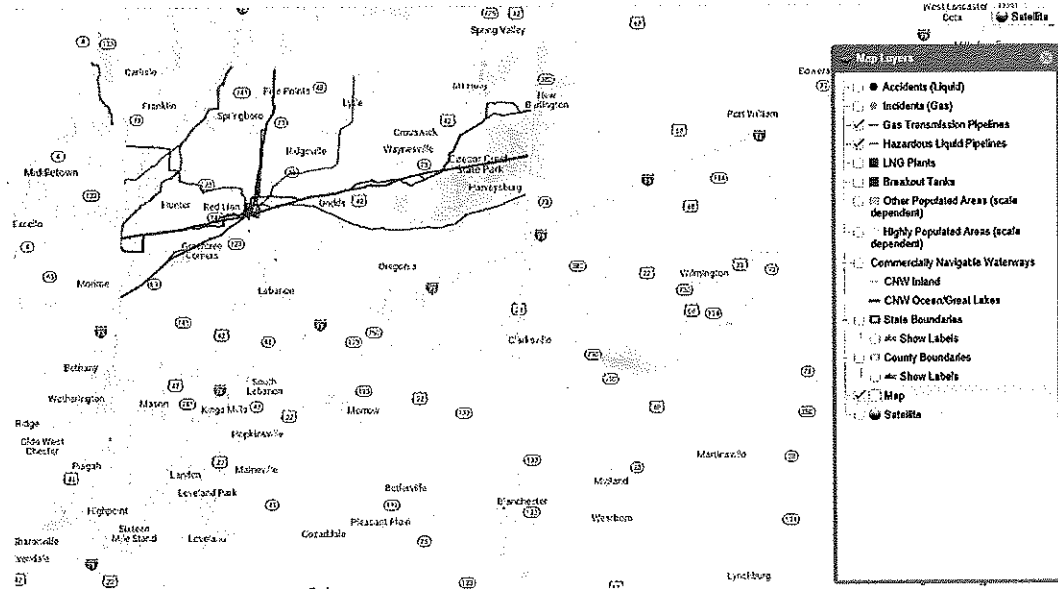
Figure 4: Map of Railways and Major Thoroughfares in Warren County



PIPELINES

There are 10 different pipeline companies who run underground pipe through Warren County. Many of these companies have distribution points that run through the area of State Route 122 and Hart Road. Three companies, Enterprise Products, Dominion Energy, and Enbridge Energy have office locations in that same area. Other companies have substations or own property at that location. (*Note: company names are accurate as of Fall 2019)

Figure 5: Map of pipelines in Warren County



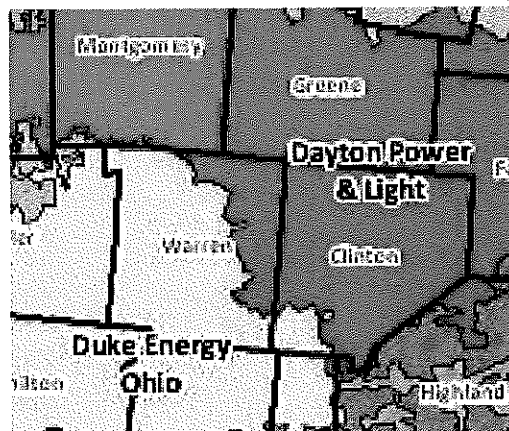
Source: National Pipeline Mapping System

UTILITIES

Electric

The electric power for Warren County is provided by three utility companies. Dayton Power and Light Company, Duke Gas and Electric and Lebanon Municipal are the providers. Natural and bottled gas is provided by CGE, Columbia and Vectren. Warren County is part of the Knox Energy Cooperative Association, Inc.

Figure 6: Map of Electric Utility Providers in Warren County

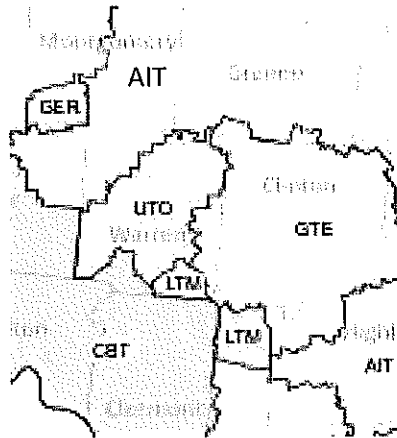


*Lebanon Municipal electric serves the city of Lebanon in Warren County
(Source: Ohio Public Utilities Commission)

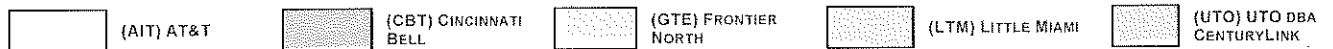
Telephone Service

Phone companies that service Warren County include AT&T, Cincinnati Bell, Frontier North, Little Miami, and Century Link.

Figure 7: Map of Telephone Service Providers in Warren County



(Source: Ohio Public Utilities Commission)



Water and Wastewater

The primary groundwater source in Warren County is a buried valley aquifer composed of sand and gravel. This aquifer serves as an adequate water supply for both individual and public wells for several large water users in the County, such as Lebanon, Mason, Franklin, Western Water Company and Warren County Water Company.

The Warren County Water and Sewer Department is a regional water supplier that owns and operates two water treatment plants with a total Ohio EPA rated capacity of 12 million gallons per day. The treatment plants treat water from wells located along the Great Miami and Little Miami aquifers. The water is distributed from four booster pump stations through 500 miles of watermains to over 28,000 water customers. Fire protection and daily storage is provided from eight elevated storage tanks with a total storage volume of 13 million gallons.



The County serves the Villages of Corwin, Harveysburg, and Maineville, as well as portions of Clearcreek, Deerfield, Franklin, Hamilton, Turtlecreek, Union, and Wayne Twps. In addition to the water furnished by our plants the County purchases potable water from the City of Springboro, Village of Waynesville and the City of Cincinnati. Water for all residential and business customers in the city of Mason is supplied by Greater Cincinnati Water Works. The County has emergency water system interconnections with neighboring cities and villages including:

- Cincinnati
- Franklin
- Lebanon
- Middletown
- Springboro
- South Lebanon
- Waynesville

The Warren County Water and Sewer Department serves over 20,000 sewer customers throughout the County. It owns and operates four wastewater treatment plants with Ohio EPA permitted capacities of 12 million gallons per day, 120,000, 80,000 and 16,000 gallons per day. The County also has agreements with the Metropolitan Sewer District of Greater Cincinnati, Franklin Regional Wastewater Treatment Corporation and Butler County to provide wastewater treatment to portions of unincorporated areas of the County. The County maintains over 389 miles of sanitary sewers and 70 sewage pump stations.

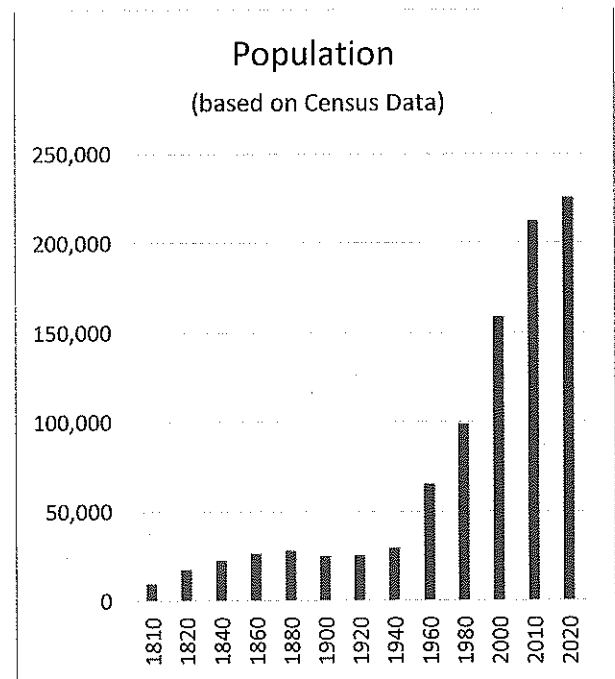
1.4 POPULATION AND DEMOGRAPHICS

As of 2018, the total estimated population of Warren County was 232,173. Warren County is semi-urban in nature and is considered part of the Cincinnati-Dayton metropolitan area. Warren County is the 10th largest county in Ohio. The area of highest population density is the unincorporated areas of Deerfield Twp and the City of Mason with a total of 74,075 people.

The population of Warren County has fluctuated between the years 1810 and 1950 and since then has steadily increased. Between the years 1950 and 1960, the population increased by 71%, which was the largest percentage change experienced in the County. The largest net change was experienced between the years 1990 and 2000, with an increase of 44,474 residents. Steady population increases are expected for Warren County through 2040 as depicted in the charts below.

Table 3: Total Population

Census	Estimated				
1800	1910	24,498	2013	219,244	
1810	9,925	1920	25,716	2014	221,306
1820	17,837	1930	27,348	2015	223,900
1830	21,468	1940	29,894	2016	226,582
1840	23,141	1950	28,505	2017	228,859
1850	25,560	1960	65,711	2018	232,173
1860	26,902	1970	84,925	Projected	
1870	26,689	1980	99,276	2020	225,770
1880	28,392	1990	113,909	2030	235,640
1890	25,468	2000	159,383	2040	239,060
1900	25,584	2010	212,693		



Source Ohio Office of Research (2018)

Population per jurisdiction in Warren County (gathered through US Census Bureau, population estimates division and through jurisdictional surveys).

Table 4: Population by Jurisdiction in Warren County

CITIES	2013	2018	VILLAGES	2013	2018	TOWNSHIPS	2013	2018
	POPULATION	POPULATION		POPULATION	POPULATION		POPULATION	POPULATION
FRANKLIN	11,824	11,686	BUTLERVILLE	165	162	CLEARCREEK	14,006	15,847
LEBANON	20,425	20,727	CARLISLE	5,129	5,197	DEERFIELD	36,693	40,489
LOVELAND (PART)		*838	CORWIN	432	467	FRANKLIN	30,700	12,932
MASON	31,383	33,586	HARVEYSBURG	548	561	HAMILTON	21,018	23,454
MIDDLETOWN (PART)		*2,753	MAINEVILLE	1,012	1,090	HARLAN	4,771	4,921
MONROE (PART)		*143	MORROW	1,225	1,312	MASSIE	794	663
SPRINGBORO	16,616	*17,445	PLEASANT PLAIN	155	164	SALEM	3,248	3,601
			SOUTH LEBANON	4,266	4,600	TURTLECREEK	15,182	15,161
			WAYNESVILLE	2,921	3,136	UNION	4,777	2,625
						WASHINGTON	2,368	3,042
						WAYNE	5,405	5,571

*INDICATES THE POPULATION OF A JURISDICTION THAT RESIDES IN WARREN COUNTY

Source US Census ACS Data

POPULATION ESTIMATES

Population estimates for Warren County (per the Ohio Development Services Agency) for the next 30 years are as follows:

2025	231,230
2030	235,640
2040	239,060

DEMOGRAPHICS

The demographics of Warren County's population are important to understanding the makeup of citizens in the county and to understanding any possible access or functional needs that may be encountered during emergency events. The breakdown of Warren County's population demographics is as follows: (Source: Ohio Office of Research, 2018)

Table 5: Population by Race

Population by race	Number	Percent
ACS Total Population	223,968	100%
White	199,068	88.9%
African American	7,940	3.5%
Native American	167	0.1%
Asian	11,619	5.2%
Pacific Islander	19	0.0%
Other	1,395	0.6%
Two or more races	3,770	1.7%
Hispanic	5,778	2.6%
Total Minority	29,919	12.9%

Population by Race

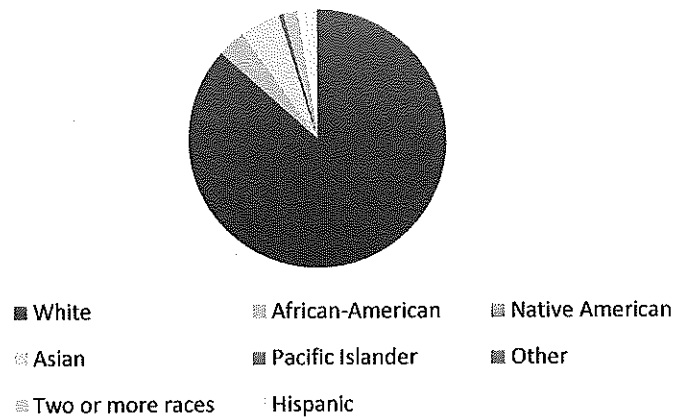


Table 6: Population by Age

Population by Age	Number	Percent
ACS Total Population	223,968	100%
Under 5 years	13,221	5.9%
5 to 17 years	44,219	19.8%
18 to 24 years	17,019	7.6%
25 to 44 years	56,668	25.3%
45 to 64 years	63,233	28.2%
65 years and more	29,508	13.2%
Median Age	39.1	

Population by Age

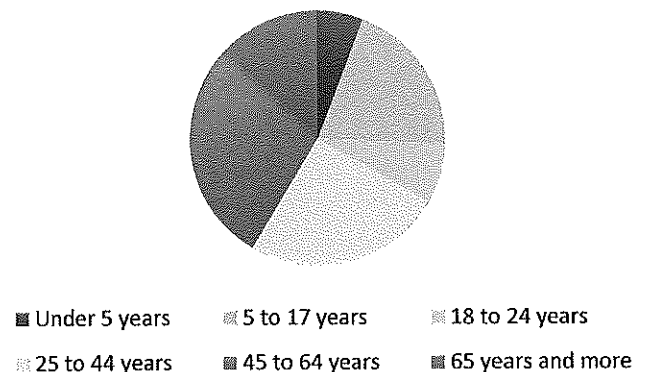
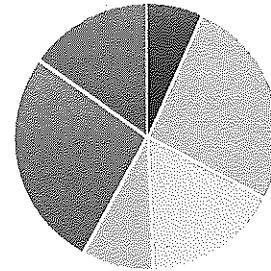


Table 7: Population by Education Attained

Education Attained	Number	Percent
Persons 25 years and over	149,409	100%
No high school diploma	10,151	6.8%
High school graduate	38,783	26.0%
Some college, no degree	24,753	16.6%
Associate degree	13,133	8.8%
Bachelor's degree	39,973	26.8%
Master's degree or higher	22,616	15.1%

Education Attained

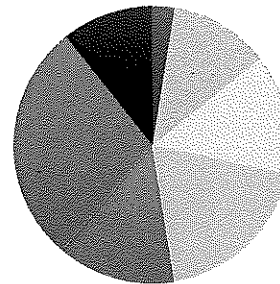


- No high school diploma
- High school graduate
- Some college, no degree
- Associate degree
- Bachelor's degree
- Master's degree or higher

Table 8: Household Income Demographics

Household Income	Number	Percent
Total Households	90,704	100%
Less than \$10,000	2,186	2.7%
\$10,000 to \$19,000	4,024	5.0%
\$20,000 to \$29,000	5,397	6.7%
\$30,000 to \$39,000	5,243	6.5%
\$40,000 to \$49,000	6,024	7.5%
\$50,000 to \$59,000	5,719	7.1%
\$60,000 to \$74,000	9,681	12.0%
\$75,000 to \$99,000	11,147	13.8%
\$100,000 to \$149,000	15,017	18.6%
\$150,000 to \$199,000	7,699	9.5%
\$200,000 or more	8,567	10.6%
Median Household Income		\$79,397

Household Income



- Less than \$10,000
- \$10,000 - \$29,000
- \$30,000 - \$49,000
- \$50,000 - \$74,000
- \$75,000 - \$99,000
- \$100,000 - \$200,000
- \$200,000 or more

POPULATION TRENDS

Warren County jurisdictions were asked to complete a community profile which included evaluating population/ demographic changes over the last five years as well as forecasting the same changes over the next five years. Trends from those who responded were identified in Table 9.

Table 9: Population / Demographics Trends for Jurisdictions In Warren County

POPULATION / DEMOGRAPHICS TRENDS		
JURISDICTION	TREND OVER LAST 5 YEARS	FUTURE TRENDS
Turtlecreek Twp.	Population has seen an increase	Continued increase in families moving into the area
Salem Twp.	Slight increase in population	Slight increase in population will continue
Hamilton Twp.	Population continues to grow each year with the demographics becoming more upper-middle class	Growth may begin to steady-off
Deerfield Twp.	6.6% population growth over last 5 years	Forecast 1% growth each of the next five years taking total population beyond 40,000
Maineville	Increase of 28% (or 305) persons	Increased population with increase in homes being built
Waynesville	<ul style="list-style-type: none"> Increase in population and income decrease in residents living in poverty 	Possible 8% increase in population
Clearcreek Twp.	Becoming more suburban and less agricultural as land develops	same
Mason	Slight population increase but not as fast as previous decades.	Business community growth will bring increased diversity and population to the area.
Springboro	Slight increase in population with similar demographics – increase in student population	Same

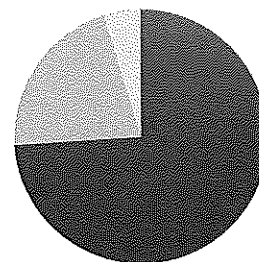
1.5 RESIDENTIAL HOUSING, HOME VALUES, LAND USE

According to the Warren County Profile prepared by the Office of Policy, Research and Strategic Planning, there are 84,853 housing units in Warren County. Of the total housing units, 80,704 are occupied and 4,149 are vacant. Most homes in Warren County are also owner-occupied (77.6 percent), with the remaining 22.4 percent categorized as renter-occupied units. More than 55.9% of the homes in Warren County were built between 1990 and 2018. An additional 21.1% of the homes were built between 1970 and 1989.

Table 10: Residential Housing Demographics

Housing Units	Number	Percent
Total Households	94,853	100%
Occupied housing units	80,704	95.1%
Owner Occupied	62,593	77.6%
Renter Occupied	18,111	22.4%
Vacant housing units	4,149	4.9%

Housing Units

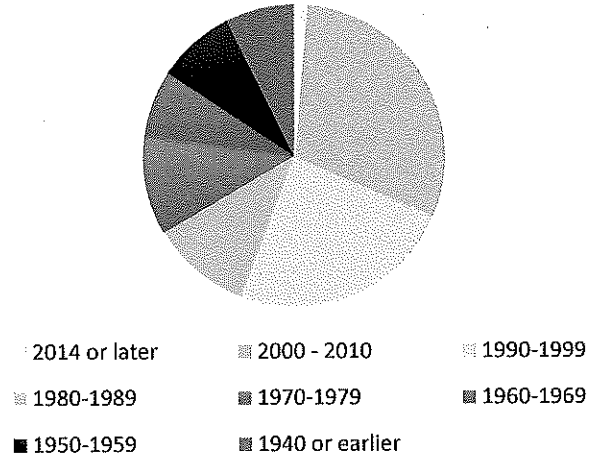


■ Owner Occupied ■ Renter Occupied ■ Vacant

Table 11: Housing Demographics by Year of Structure

Year Structure Built	Number	Percent
Total Households	84,853	100%
Built 2014 or later	1,304	1.5%
Built 2010 to 2013	3,055	3.6%
Built 2000 to 2009	22,359	26.4%
Built 1990 to 1999	20,681	24.4%
Built 1980 to 1989	9,038	10.7%
Built 1970 to 1979	8,867	10.4%
Built 1960 to 1969	6,178	7.3%
Built 1950 to 1959	7,168	8.4%
Built 1940 to 1949	1,452	1.7%
Built 1939 or earlier	4,751	5.6%
Median Year Built		1992

Year Structure Built



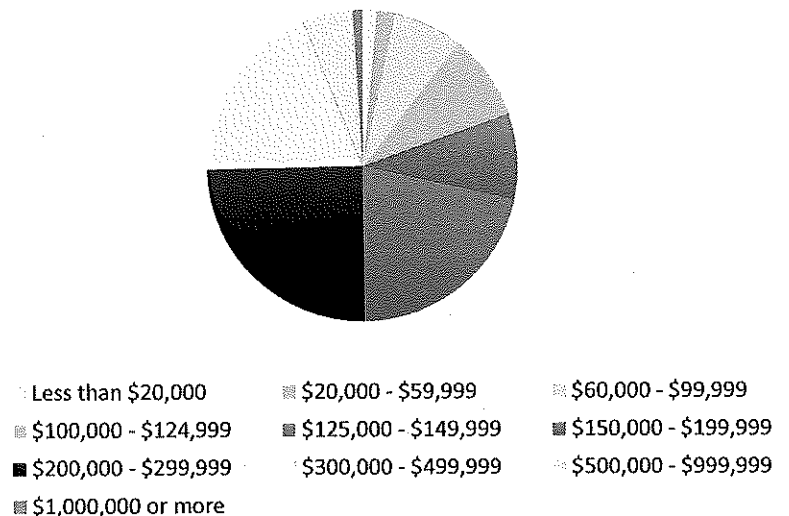
Along with traditional housing, there are several county residents who live in other facilities. There are 16 licensed nursing home facilities in Warren County with a total of 1,313 licensed beds. There are also 16 licensed assisted living facilities in the county with a total of 2,004 licensed beds.

According to the county health district and local jurisdictional representatives, there are additional unlicensed assisted living facilities being constructed throughout the county. This will increase congregate living settings in the county in the foreseeable future.

Table 12: Home Values in Warren County

Value for specified owner-occupied housing units	Number	Percent
Specified owner-occupied housing units	62,593	100%
Less than \$20,000	969	1.5%
\$20,000 to \$39,999	549	0.9%
\$40,000 to \$59,999	705	1.1%
\$60,000 to \$79,999	1,501	2.4%
\$80,000 to \$99,999	2,960	4.7%
\$100,000 to \$124,999	5,624	9.0%
\$125,000 to \$149,999	5,581	8.9%
\$150,000 to \$199,999	13,388	21.4%
\$200,000 to \$299,999	15,519	24.8%
\$300,000 to \$499,999	11,965	19.1%
\$500,000 to \$999,999	3,226	5.2%
\$1,000,000 or more	606	1.0%
Median Value		\$200,100

Home Values



LAND USE

Warren County contains approximately 260,900 land acres, of which approximately 60% is rural. Sixty-seven percent of the agriculture in Warren County is cropland.

Warren County Comprehensive Plan

In 2007, the Warren County Planning Commission drafted an updated Comprehensive Plan. This plan included information on land use, transportation, capital improvements, housing, economic development, and parks and recreation. The plan was formally adopted in 2011 by the County Board of Commissioners.

This plan also considers master plans already in place from other cities, villages and Twps. Combining land use planning with economic development, thoroughfare planning, and housing plans will allow the County to sensibly move toward the future. The incorporation of data from this mitigation plan into future updates will only strengthen the comprehensive plan.

Table 13: Land Use in Warren County

Land Use/Land Cover	Percent
Developed, Lower intensity	19.94%
Developed, Higher intensity	3.96%
Barren (Strip mines, gravel pits, etc.)	0.12%
Forest	29.94%
Shrub/Scrub and grasslands	0.51%
Pasture/Hay	19.92%
Cultivated Crops	23.46%
Wetlands	0.27%
Open Water	1.88%

Table 14: Agricultural Land Use in Warren County

Agriculture	
Land in farms (acres)	90,329
Number of Farms	925
Average size (acres)	98
Total cash Receipts	\$47,671,000
Per farm	%51,536
Receipts for crops	\$44,718,000
Receipts for livestock/products	\$2,953,000

Source Ohio Office of Research (2018)

Figure 8: Map of Future Land Use for Warren County as provided by WC Economic Development



Legend

Future Land Uses

- Agricultural/Rural Residential
- Commercial
- Industrial
- Mixed-Use Neighborhood
- Multi-Family Residential
- Office
- Protection Area
- Public-Serve Public

Deerfield Township Character Areas

- Parks and Recreational Open Space
- Single Family Residential
- Low Density Rural Neighborhoods
- Mid Density Rural Neighborhoods
- Neighborhood MUD Neighborhoods
- Office Park
- Regional Highway Commercial

Town-Center MUD

Clearcreek Township Additional Uses

- Township Residential

Hamilton Township Additional Uses

- Rural Residential

Salem Township Additional Uses

- Mixed Use
- Mixed Use Light Industrial

Union Township Additional Uses

- Low Density Residential

Wayne Township Additional Uses

- Mixed Use Commercial/Commercial
- Mixed Use Residential

The Project 2/16/2014

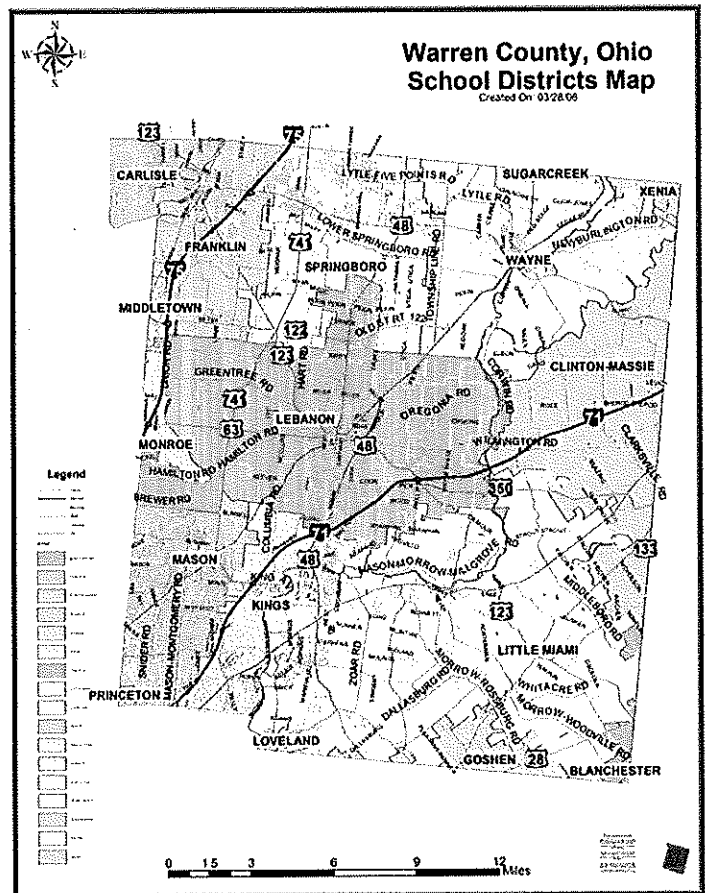
1.6 LIBRARIES AND SCHOOLS

There are 10 main public-school districts in Warren County, and 6 districts whose region extends into Warren County. There are 8 private schools with a footprint in or residents from Warren County and 9 alternative education facilities in Warren County. (Source: Warren County Educational Service Center)

Figure 9: Map of Warren County School Districts

Public School Districts

- **Carlisle Local School District**
- **Clinton-Massie Local School District**
 - (Also in Clinton)
- **Franklin City School District**
- **Goshen Local School District**
 - (Primarily in Clermont)
- **Kings Local School District**
- **Lebanon City School District**
- **Little Miami Local School District**
 - (also in Clermont)
- **Loveland City School District**
 - (primarily in Clermont and Hamilton)
- **Mason City School District**
- **Middletown City School District**
 - (Primarily in Butler)
- **Monroe Local School District**
 - (Primarily in Butler)
- **Princeton City School District**
 - (Primarily in Butler and Hamilton)
- **Springboro Community School District**
 - (also in Montgomery)
- **Wayne Local School District**
- **Warren County Vocational School District**
- **Xenia City School District**
 - (Primarily in Greene and Clinton)



Private Schools

- Bishop Fenwick High School – Franklin
- Lebanon Christian School – Lebanon
- Middletown Christian Schools – Franklin
- Montgomery Academy of Cinti – Deerfield Twp.
- St. Margaret of York School – Loveland
- Liberty Bible Academy – Mason
- St. Susanna Parish School – Mason
- Royalmont Academy – Mason
- St. Francis de Sales – Lebanon
- Chess Christian School – Clearcreek Twp.
- Cincinnati Hills Christian Academy – Deerfield Twp.

Other schools

- John K. Lazares alternative school
- Warren County Learning Center (Laura Ferrell)
- Warren County Learning Center (St. Mary)
- Mason Heights (Social Communication and Multi Disabilities Programs)
- Transition Living Classrooms
- Mary Haven Youth Center
- Warren County Juvenile Detention Center
- Greater Ohio Virtual School

Table 15: Educational Buildings in Warren County

Education	
Traditional public-school buildings	44
Students	35,261
Teachers (Full time equivalent)	2,167.4
Expenditures per student	\$9,540
Graduation rate	96.6
Community/charter school buildings	0
Private Schools	11
Other Schools	9
Private or public universities	0
Colleges or Satellites	0
Ohio technical centers	1
Public Libraries (districts/ facilities)	5 / 6

Table 16: Public Library Buildings in Warren County

Warren County Public Libraries	
Franklin Public Library	Franklin
Lebanon Public Library	Lebanon
Mary L. Cook Public Library	Waynesville
Mason Public Library	Mason
Salem Twp Public Library	Morrow
Springboro Public Library	Springboro

1.7 BUSINESS AND INDUSTRY, WORK FORCE STATISTICS

According to the 2018 estimates, U.S. Census Data, there are 166,428 people over 18 years of age, of which 116,800 are in the labor force. Out of the 116,800 people in the labor force, 112,300 are employed, and 4,500 (3.9%) are un-employed. The median household income in Warren County is \$79,397. The information below shows the breakdown of the Warren County workforce and the major employers in the county. (Source: Ohio Office of Research, 2018)

Table 17: Civilian Labor Force Statistics, 2014-2018

Civilian Labor Force	2018	2017	2016	2015	2014
Civilian Labor Force	116,800	116,300	114,600	112,300	110,900
Employed	112,300	111,500	109,800	107,700	105,400
Unemployed	4,500	4,500	4,800	4,700	5,500
Unemployment Rate	3.9	4.1	4.2	4.2	5.0

Table 18: Establishments, Employment, and Wages by Sector: 2017

Industrial Sector	Number of Institutions	Average Employment	Average Weekly Wage
Private Sector	4,732	81,767	\$959
Goods-Producing	628	15,780	\$1,166
Natural Resources & Mining	38	282	\$696
Construction	351	3,422	\$1,205
Manufacturing	238	12,077	\$1,166
Service-Providing	4,105	65,987	\$909
Trade, Transportation and Utilities	1,108	17,077	\$831
Information	85	1,156	\$1,462
Financial Services	490	4,777	\$1,224
Professional and Business Service	1,058	15,210	\$1,525
Education and Health Services	513	11,478	\$752
Leisure and Hospitality	477	13,474	\$319
Other Services	367	2,803	\$765
Federal Government		305	\$1,108
State Government		1,261	\$1,211
Local Government		8,452	\$854

Source Warren County Office of Economic Development

Table 19: Largest and Notable Employers in Warren County

Civilian Labor Force	Category	Civilian Labor Force	Category
ADVICS Manufacturing Ohio	Manufacturing	Macy's Inc	Trade
Atrium Medical Center	Service	Mitsubishi Electric Automotive	Manufacturing
Cedar Fair / King's Island	Service	Mason Local Schools	Government
Cengage Learning Inc.	Service	Portion Pac Inc/Kraft Heinz	Manufacturing
Cintas Corp	Manufacturing	Proctor and Gamble Co.	Research & Development
L-3 Space and Sensors	Manufacturing	State of Ohio	Government
Luxxotica Group SpA	Manufacturing	WellPoint Inc/Anthem	Insurance

1.8 TOURISM, POINTS OF INTEREST, AND COMMUNITY FESTIVALS

TOURISM

Warren County is host to many attractions, points of interest, and community festivals that draw large crowds, require pre-planning, and may alter traffic patterns. The popularity of these attractions drives tourism in the county and increases the overall population at a given time.

Some of the highlighted attractions and events that increase tourism in Warren Count are as follows:

RECREATION AND ATTRACTIONS

- Kings Island: Theme park
- Western & Southern Open: Professional tennis tournament
- The Beach Water Park: Outdoor water park
- Great Wolf Lodge: Indoor water park resort
- Lebanon Mason Monroe Railroad: Nostalgic, themed train rides
- Fort Ancient: American Indian earthen mounds
- Cincinnati AVP Open: Professional beach volleyball tournament
- Ohio Renaissance Festival – Harveysburg
- Warren County Fair – Lebanon
- Warren County Sports Park

POINTS OF INTEREST

- The Golden Lamb: Ohio's oldest continuously operating inn – Lebanon
- Cincinnati Premium Outlets – Monroe
- Miami Valley Gaming – Lebanon
- Lebanon Raceway – Lebanon

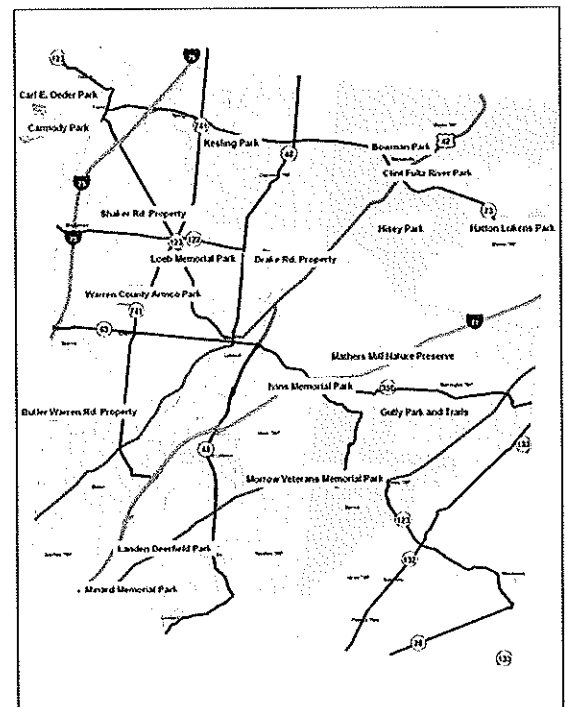
COMMUNITY FESTIVALS

- Lebanon Horse Drawn Carriage Parade – Lebanon
- Lebanon Blues Festival – Lebanon
- Lebanon Country Music Festival – Lebanon
- Apple Fest - Lebanon
- Feast and Fall-y – Lebanon
- Red, Rhythm and Boom – Mason
- Sauerkraut Festival – Waynesville
- National Night Out – multiple communities
- Christmas in Springboro
- Devil's Staircase – Oregonia
- Celtic Festival – Waynesville
- Bellwether Music Festival – Harveysburg

PARKS

- Caesar's Creek State Park and Caesar's Creek Lake
- Armco Park
- Other smaller parks (as pictured in Figure 10)

Figure 10: Map of Warren County Parks



WARREN COUNTY PARK DISTRICT



FUTURE LAND USE AND INFRASTRUCTURE IMPROVEMENTS

Warren County jurisdictions were asked to complete a community profile which included providing information on land use, housing trends, economic, and business and industry improvements. The Warren County Department of Economic Development was also consulted, and the following developments / trends were identified by participating jurisdictions in Warren County:

LAND USE / HOUSING TRENDS		
JURISDICTION	TREND OVER LAST 5 YEARS	FUTURE TRENDS
Wayne Twp.	None noted	Trend in single family residential development on existing subdivision plots and taking over agricultural ground
Turtlecreek Twp.	Increase in subdivisions New housing / multi-use development	
Salem Twp.	Very little change over last few years	Slight increase in single family housing development
Hamilton Twp.	Growth over last five years has been from commercial to residential.	If growth continues to occur it will be younger, single-family homes
Deerfield Twp.	Increase in single family housing, some apartment, and hotel development	Redevelopment of existing properties, additional single-family development
Maineville	Increase in single family and elderly facilities.	Increase in single family homes with larger lots
Waynesville	Additional housing development (average of additional 3 homes per year)	Average of additional 3 homes per year
Clearcreek Twp.	More single-family dwellings with smaller lot sizes	More residential development and service-type businesses Adding more useable park space from existing land is likely
Mason	Business community growth	Business community growth will continue to be a focus. This will bring increased commercial and modest housing growth
Lebanon	Mix of residential and industrial development	Increase in single-family housing
Springboro	Increase in assisted living and condos and steady single-family construction	Increase in multi-use developments and steady single-family construction

INFRASTRUCTURE / BUSINESS TRENDS	
JURISDICTION	TREND OVER NEXT 5 YEARS
Wayne Twp.	<ul style="list-style-type: none"> Road connectivity as subdivisions are approved Bridge replacement on SR 73 New Elementary School building planned
South Lebanon	<ul style="list-style-type: none"> Additional school building needed in Morrow to serve South Lebanon students
Hamilton Twp.	<ul style="list-style-type: none"> Increase in commercial development, increased demand for road expansion, increase in industry and commercial business Widening of major state routes needed (SR 22&3 & SR 48) due to growth Little Miami Schools will need expansion for growth of population
Deerfield Twp.	<ul style="list-style-type: none"> New slip ramp to I71, new roundabouts planned New retail and office businesses New school development especially for Kings to deal with student population growth
Maineville	<ul style="list-style-type: none"> increase in small businesses and neighborhood businesses. Due to current layout, only a small area is set aside for businesses
Waynesville	<ul style="list-style-type: none"> water line replacement and plant update currently building a new PK-6th grade school
Clearcreek Twp.	<ul style="list-style-type: none"> Better/ wider road network Service businesses increase Increase in population will increase burdens on schools

Mason	<ul style="list-style-type: none"> Continued pursuit of commercial growth, specifically high-tech and corporate headquarters Roadway improvements Municipal center is under construction School enrollment is expected to level off
Lebanon	<ul style="list-style-type: none"> Some industrial development expected New fire station Various utility upgrades scheduled
Springboro	<ul style="list-style-type: none"> Stable and possibly more required maintenance Continual rehabilitation of water and sewer infrastructure Expanding road system Continued improvements to park land

1.9 CRITICAL INFRASTRUCTURE

The Planning Team determined that critical infrastructure is defined as facilities or systems that provide essential facilities, products, and services to the general public and that are necessary to preserve welfare and quality of life, or to fulfill emergency response or disaster recovery operations locally or nationally. The Hazard Mitigation Planning Committee was asked to define critical facilities and essential services (which are provided in the list below):

CRITICAL FACILITIES
<ul style="list-style-type: none"> Fire/EMS Departments Law Enforcement Departments Hospitals National Corporations / Headquarters Defense Contractors Road Dept. Facility and Equipment Schools 911 Communication Centers Buildings designated as storm / mass care shelters Residential health care and assisted living facilities State Prisons Emergency supply facilities (food, fuel stations, banks, postal service, home improvement centers, etc.)

CRITICAL UTILITIES
<ul style="list-style-type: none"> Power Plants / Substations Water Treatment Plants / Well field storage tanks Wastewater Treatment Plants Communications systems / towers High Pressure Gas Lines

CRITICAL SERVICES / OTHER
<ul style="list-style-type: none"> Traffic Signals Government Services Buildings Major roads and Bridges Major Rail Lines Levee Systems and Components Private airfield

1.10 AUTHORITIES AND RESPONSIBILITIES

Warren County is updating the Hazard Mitigation Plan as required by 44 CFR Part 201.3 and the Robert T Stafford Disaster Relief and Emergency Assistance Act. In order for Warren County's plan update to be compliant with the Disaster Mitigation Act, the Warren County Board of County Commissioners will adopt this plan in January of 2021 with all participating jurisdictional governing bodies adopting this plan within that same year, pending approval from the Ohio Emergency Management Agency, as well as acceptance from the Federal Emergency Management Agency.

The County and jurisdictions adopting this plan are responsible for incorporating mitigation actions into existing plans and ordinances and considering mitigation actions in budgetary or grant cycles. Commissioners, public safety officials, floodplain administrators, engineers, and other community leadership partners are expected to use the information from the plan to enhance or uphold local, state, and federal rules, regulations, codes, ordinances, policies, plans, procedures, or other administrative instruments. Examples of how the components of the plan can enhance existing authorities and responsibilities are outlined below:

- **Building / Development Codes and Zoning Ordinances:** The HMP will provide information to enable Warren County and local jurisdictions to make decisions on appropriate building / development codes and ordinances. Appropriate building codes and ordinances can increase resilience against natural disasters.
- **Comprehensive / Master Plans:** The HMP will provide information that can be incorporated into the Land Use Elements for future land planning. Specific risk and vulnerability information from the Warren County HMP will assist to identify areas where development may be at risk to potential hazards.
- **Emergency Operations Plan (EOP):** The HMP highlights hazards that the County and its jurisdictions are vulnerable to. The priorities for hazards and strategies for mitigation can help highlight where emergency planning efforts can be concentrated.
- **Capital Improvements Plans:** The HMP will provide information to assist the county and jurisdictions with prioritizing capital projects, equipment purchases, and major studies that will sustain or improve community or county infrastructures.

2. PLANNING PROCESS

2.1 PLANNING PROCESS OVERVIEW

The Warren County Emergency Management Agency acted as the project coordinator to complete the five-year Hazard Mitigation Plan update. EMA personnel on the planning team consisted of:

- Melissa Bour, Director
- Lesli Holt, Operations Manager
- David Wood, LEPC Coordinator
- Kenneth Losekamp, EMA Planning Assistant
- Kevin Tribbe, EMA Volunteer Assistant

The planning process began in August of 2019 with a review of the 2015 Warren County All Hazards Mitigation Plan and projects. A review of the planning process was completed to determine whether the plan update would be awarded to a contractor or be completed in-house. It was determined that the plan update would be completed by EMA staff, to build collaborative relationships with the jurisdictions as well as public and private sector representatives.

To accomplish the 2021 Hazard Mitigation Plan update, WCEMA developed the mitigation strategy outlined below:

1. Review of the initial planning process:
 - Determined all Warren County EMA staff would be involved in the review and planning process
 - Reviewed the 2015 Warren County All Hazards Mitigation Plan
 - Reviewed relevant documents for the planning process including the State of Ohio Hazard Mitigation Plan, FEMA Hazard Mitigation Planning Handbook, and FEMA Local Mitigation Plan Review Guide
 - Reviewed the hazards to determine if there were any changes to be made or additional hazards to be added
 - Reviewed updated county plans including the Emergency Operations Plan, Disaster Recovery Plan, and updated countywide flood maps
2. Review of Risk Assessment Strategy Portion
 - Reviewed contents of hazard information from the 2015 Plan
 - Researched databases for additional hazard data for Warren County and confirmed data with appropriate parties where applicable (i.e. National Weather Service office in Wilmington for natural hazard data)
 - Determined if other hazards should be added and profiled
 - Updated last 5 years of data for all hazards
 - Reviewed repetitive losses for the county
 - Determined risk assessment strategy to rate hazards
3. Re-assessment of Hazard Vulnerability
 - Surveyed jurisdictions on current status including population, demographics, critical infrastructure, land use, trends, and points of interest
 - Surveyed jurisdictions on capabilities including planning, resources, and response to hazards
 - Scored hazards according to probability, impacts and preparedness to determine jurisdictional risk
 - Compiled scores to determine county risk
4. Development of Goals and Objectives and Mitigation Actions
 - Developed goals and objectives for the mitigation strategy of the 2021 Hazard Mitigation Plan
 - Reviewed mitigation projects from the 2015 Plan and updated status
 - Developed list of projects for the 2021 Plan
 - Evaluated mitigation projects against vulnerability to determine priority
 - Reconciled mitigation projects with goals and objectives
5. Evaluate Plan Maintenance Process
 - Strengthened process to make it a stronger countywide collaborative effort

- Described the process of how local government can incorporate the mitigation strategy into other planning mechanisms
 - Review and modify the process as necessary to continue public participation in the Plan
6. Draft Revised Plan Document
- Reviewed by stakeholders
 - Modified as recommended by stakeholders
7. Plan Adoption
- Review by State Emergency Management Agency and Federal Emergency Management Agency
 - Incorporate recommended revisions as necessary from State and Federal review
 - Formal adoption by the Warren County Board of County Commissioners
 - Formal adoption by all participating communities and special districts (where applicable)

For this plan update, the EMA desired to collaborate with jurisdictions and other agencies to provide a comprehensive guide for the hazards faced in the county. Meeting materials were produced and placed in binders for the jurisdictions to personalize for their specific hazards and mitigation projects. The following describes the process for meetings and binder contents:

Meeting	Meeting Subject	Binder Section	Binder Contents	Personalized Contents
Pre-Meeting	Email survey to jurisdictions	1	<ul style="list-style-type: none"> • Community profile sheet • Capability survey 	<ul style="list-style-type: none"> • Profile sheet with population, demographic, and community-specific info. • Capability survey outlining plans and resources needed to respond to hazards.
1	Hazard Assessment and ranking	2	<ul style="list-style-type: none"> • Hazard-specific sheets containing history, probability, impacts, and causes of hazards that could occur in the county. 	<ul style="list-style-type: none"> • Jurisdictional Hazard sheet • Hazard Ranking Sheet • Risk Assessment Worksheets
2	Propose Mitigation Projects to reduce risk and rate projects for viability and inclusion into the plan	3	<ul style="list-style-type: none"> • List of mitigation projects that could reduce risk to Warren County hazards • List of projects from the 2015 Hazard Mitigation Plan 	<ul style="list-style-type: none"> • 2015 Hazard Mitigation Project list (jurisdictional-specific where applicable) • Mitigation Project Ranking Sheet
3	Finalize Projects & plan components, discuss grant opportunities and requirements	4/5	<ul style="list-style-type: none"> • Grant explanation sheet • Resource information about mitigation projects and actions 	<ul style="list-style-type: none"> • Jurisdictional contact sheet for disasters • Any jurisdictional-specific notes

* Meeting 3 was cancelled due to restrictions on gatherings during the COVID-19 pandemic. Contents of meeting items were sent to stakeholders for review and were published and placed in the jurisdictional binders.

Flyer for Community Meeting 1

Warren County Hazard Mitigation Planning Meeting 1

Warren County EMA is actively working to update the county's Hazard Mitigation Plan. The plan will help identify emergency management risks in the county and projects that can help mitigate those risks. In order to gather an accurate picture of hazards, capabilities and resources we need the whole community to participate in developing efforts.

There will be three community meetings to assist the EMA with updating the plan. Details for the three meetings are listed below. We welcome jurisdictional officials, community partners, and Warren County businesses to attend by a meeting to assist the county with its risk reduction and hazard ranking.

Hazard Mitigation Planning Meeting 1

Friday, November 22, 2019
9:00 AM - 12:00 PM
Commissioner's Meeting Room
406 Justice Drive, Lebanon, Ohio

Please click here to register for the November 22 meeting: [http://www.warrenohio.gov/communities/communities/2019/11/22/hazard-mitigation-planning-meeting-1](#)

Topics of discussion include:

- Update the Hazard Mitigation Plan risks to jurisdictions and stakeholders
- Review changes and projections to the county
- Identify Hazards and impacts to the county (this session will be interactive)
- Begin Hazard Ranking Process
- Review Next Steps

SAVE THE DATE

Planning Meeting #1
January 23, 2020
9am-12pm

Planning Meeting #2
March 25, 2020
9am-12pm

Planning Meeting #3
May 13, 2020
9am-12pm

Flyer for Community Meeting 2

Warren County Hazard Mitigation Planning Meeting 2

Warren County EMA is actively working to update the county's Hazard Mitigation Plan. The plan will help identify emergency management risks in the county and projects that can help mitigate those risks. In order to gather an accurate picture of hazards, capabilities and resources, we need the whole community to participate in developing efforts.

There will be three community meetings to assist the EMA with updating the plan. Details for the three meetings are listed below. We welcome jurisdictional officials, community partners, and Warren County businesses to attend by a meeting to assist the county with its risk reduction and hazard ranking.

Hazard Mitigation Planning Meeting 2

Thursday, January 23, 2020
9:00 AM - 12:00 PM
Commissioner's Meeting Room
406 Justice Drive, Lebanon, Ohio

Please click here to register for the January 23 meeting: [http://www.warrenohio.gov/communities/communities/2020/01/23/hazard-mitigation-planning-meeting-2](#)

Topics of discussion include:

- Review hazard and rankings from planning meeting 1
- Identify mitigation projects that could help reduce risk
- Assign mitigation project actions to jurisdictions and businesses
- Review Next Steps for the plan

SAVE THE DATE

Planning Meeting #2
March 25, 2020
9am-12pm

Planning Meeting #3
May 13, 2020
9am-12pm

Press Release for Community Meetings

EMERGENCY SERVICES

FOR IMMEDIATE RELEASE

Contact: Joe Adams, Warren County EMA
Phone: 614-338-3344
Email: joadams@warrenohio.gov

Date: Monday, November 18, 2019

COMMUNITY MEETINGS TO DISCUSS POTENTIAL DANGERS THAT COULD IMPACT WARREN COUNTY

WARREN COUNTY, Ohio - Warren County Emergency Services is pleased to be working on the 2019 Hazard Mitigation Plan update. The plan will help identify emergency management risks in the county and projects that can help mitigate those risks. In order to gather an accurate picture of hazards, capabilities and resources, we need the whole community to participate in developing efforts.

There will be three community meetings to assist the EMA with updating the plan. Details for the three meetings are listed below. We welcome jurisdictional officials, community partners, and Warren County businesses to attend by a meeting to assist the county with its risk reduction and hazard ranking.

Meeting 1: Friday, November 22, 2019 at 9:00 AM to 12:00 PM at the Commissioner's Meeting Room, 406 Justice Drive, Lebanon, OH 43040.

Meeting 2: Thursday, January 23, 2020 at 9:00 AM to 12:00 PM at the Commissioner's Meeting Room, 406 Justice Drive, Lebanon, OH 43040.

Meeting 3: Wednesday, May 13, 2020 at 9:00 AM to 12:00 PM at the Commissioner's Meeting Room, 406 Justice Drive, Lebanon, OH 43040.

Warren County is committed to a full and complete update of its Hazard Mitigation Plan and the reduction of disaster-related emergency management risks in the county. The plan update process will include a public hearing and a public comment period. The plan update process will include a public hearing and a public comment period. The plan update process will include a public hearing and a public comment period.

The three meetings will provide the community with an opportunity to review the potential hazards that could impact the County. We will provide you with the Hazard Mitigation Plan update and a copy of the plan update. We will provide you with the Hazard Mitigation Plan update and a copy of the plan update.

2.2 PLANNING COMMITTEE / PUBLIC INVOLVEMENT

Warren County EMA scheduled three public planning meetings from November 2019 through March 2020. Meetings were announced via press release to local media sources, flyers handed out at public meetings and events*, postings on the EMA website, and flyers mailed to all jurisdictional elected officials. The following public planning meetings were held in the Commissioner's Meeting Room located at 406 Justice Drive in Lebanon which is centrally located in the county.

Meeting	Date	Purpose	Attending
1	November 22, 2019	Kick-Off Meeting/ Planning Meeting 1	Public / WCDES
2	January 23, 2020	Planning Meeting 2	Public / WCDES
3	March 25, 2020	Planning Meeting 3	Public / WCDES

Meeting 3 was cancelled due to restrictions on gatherings during the COVID-19 pandemic.

*The public was offered numerous opportunities to comment and provide input throughout the planning process. Meeting flyers (pictured above) were posted or handed out to invite public involvement at the following locations: the EMA booth at National Night Out event in Clearcreek Township, the Warren County Safety Council January 2020 meeting, Warren County Police and Fire Chief's Association October and January meetings, Mason School's Safety Assessment, Warren County Career Center's Safety Assessment, Warren County Benefit's Fair, Regional Safety Summit, Warren County LEPC 4th Quarter 2019 meeting, Southwest Ohio Emergency Management Association of Ohio November 2019 meeting, King's School Safety Assessment, and in the Warren County Commissioner's Building lobby.

Meeting attendees were asked to evaluate the effectiveness of each planning meeting. This included providing comments about additional hazard or mitigation information that would assist with their planning or mitigation strategy efforts.

MITIGATION PLANNING COMMITTEE

The Mitigation Planning Committee was comprised of community leaders, public safety officials, business and industry employees, representatives of various agencies, county residents, and neighboring county and state emergency management personnel. For a full list of stakeholders who participated in the Hazard Mitigation Planning process see Appendix 1 (list of participants), Appendix 1.2 (community Participation) and 1.3 (Community Meeting Sign in Sheets).

Besides community meetings, Warren County EMA representatives also collaborated with the following agencies / organizations regarding hazard mitigation planning:

Agency / Group	Method of Collaboration	Discussion Topics
WC Economic Development (ED)	In-Person Meeting	<ul style="list-style-type: none"> o Current and future land use trends o Growth statistics in the county o Role of E.D. in Mitigation Strategy and Actions o Funding Sources for Disaster Recovery o Collaborated on sending meeting invites to local businesses o Relationship between ED, Regional Planning Commissioner, Port Authority, and WC Businesses
Warren County Telecommunications	In-Person Meeting	<ul style="list-style-type: none"> o System upgrades that help mitigate communication losses o Upcoming projects that help mitigate infrastructure losses in the county
Warren County Soil and Water	In-Person meeting	<ul style="list-style-type: none"> o Assistance with development of invasive species section of Meeting 1 (which was adapted and incorporated into the plan)
Warren County Health District	In-Person Meeting	<ul style="list-style-type: none"> o Assistance with Development of infectious disease section of Meeting 1 (which was adapted and incorporated into the plan)

Agency / Group	Method of Collaboration	Discussion Topics
Warren County GIS	Email / Phone Calls	<ul style="list-style-type: none"> o Assisted with map production and damage estimates for disasters
Warren County Schools	In-Person Safety Assessments & Attendance at Planning Meetings	<ul style="list-style-type: none"> o State of school plans, processes, procedures, and building infrastructure o Response, recovery, and mitigation strategies for emergencies and disasters
Electric Utility Providers (DP&L and Duke)	Email / Phone Calls	<ul style="list-style-type: none"> o Mitigation actions taken over the last five years o Updates in processes/procedures that contribute to mitigation
Ohio Department of Transportation	Email / Phone Calls	<ul style="list-style-type: none"> o Mitigation actions taken over the last five years o Updates in processes/procedures that contribute to mitigation
Miami Conservancy District	Email / Phone Calls	<ul style="list-style-type: none"> o Update on 2015 Mitigation Projects o Inclusion in the 2020 HMP planning process o Updates on the 2020 Mitigation Strategies
Water/Sewer Providers for Warren County (Cinti Water Works, Springboro Water, WC Water/Sewer)	Email / Phone Calls	<ul style="list-style-type: none"> o Mitigation actions taken over the last five years o Updates in processes/procedures that contribute to mitigation
Railroad Companies (CSX)	Email / Phone Calls	<ul style="list-style-type: none"> o Mitigation actions taken over the last five years o Updates in processes/procedures that contribute to mitigation
Village of Harveysburg	In-Person Meeting	<ul style="list-style-type: none"> o Hazard Mitigation Planning Process o Funding sources for potential flooding issues
Warren County Fairgrounds	In-Person Meeting	<ul style="list-style-type: none"> o Discuss emergency planning and mitigation actions that would reduce risk at the fairgrounds
The National Weather Service Office in Wilmington, OH	Emails / Phone Calls	<ul style="list-style-type: none"> o Collaborated on severe weather data included in the meetings/plan o Asked for input on how climate change is affecting hazards in SW Ohio

Throughout the planning process the documents provided in the hazard profile section and the mitigation strategy section were reviewed by community stakeholders. This information was presented at community meetings one and two and were emailed to planning team members after the meetings so that they could review and provide additional content. After the review period ended, the revised information was placed into the Plan.

Once drafted, this plan was posted on Warren County EMA's website. County departments, jurisdictional representatives, and partner organizations were invited via email to review the draft plan and provide comments to Warren County EMA on its contents. The public was invited to do the same via social media post and notification to local media outlets.

2.3 PLAN ADOPTION AND RESOLUTION BY COMMISSIONERS

BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO

Resolution

Number _____ Adopted Date _____

IN THE MATTER OF RESOLUTION OF ADOPTING THE 2021 WARREN COUNTY HAZARD MITIGATION 5-YEAR PLAN UPDATE

WHEREAS, The Warren County Emergency Management Agency desires to be compliant with the Disaster Mitigation Act of 2000 and 44 CFR Section 201.6(d)(3). Said Act requires that a Hazard Mitigation Plan meeting program criterion be developed in order that the participating Darke County Communities and unincorporated areas of Warren 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 44 CFR Section 201.6(d)(3) states:

A local jurisdictions 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 Warren County Emergency Management Agency established the Warren County Hazard Mitigation Planning Team 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 Hazard Mitigation Plan update was prepared and submitted to the Ohio Emergency Management Agency for review and comment in August, 2020. Said Plan has been completed per the Ohio Emergency Management Agency recommendations. Said Plan is on file at the office of Warren County Department of Emergency Services and is hereby formally adopted.

WHEREAS, by adopted Resolution, the Warren 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 Warren County, Ohio.

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

Mr. Grossmann -
Mr. Young -
Mrs. Jones -

Resolution adopted this day of 2020.

BOARD OF COUNTY COMMISSIONERS

Clerk

cc: Emergency Services (file)
 C/A-Ohio Emergency Management Agency

2.4 PLAN ADOPTION BY JURISDICTION

Municipal Resolution No. _____

A RESOLUTION ADOPTING THE WARREN COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION 5 YEAR PLAN UPDATE

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

FURTHER, the mitigation planning regulation at 44 CFR 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 Warren County Emergency Management Agency has established the Warren 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 2021 5-Year Plan Update recommends many hazard mitigation actions that will protect the people and property affected by the natural hazards that face Warren county; and

WHEREAS, the Warren County Hazard Mitigation Committee held monthly public planning meetings from November 2019 through March 2020 to review and revise the Plan as required by law; and will hereby be implemented, monitored, evaluated, and updated annually by the Warren County Hazard Mitigation Committee. The Warren 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 _____, Warren County, Ohio, the majority of all members elected thereto concurring, that:

Section 1: The Warren County Hazard Mitigation 5-Year Plan Update is hereby adopted as the official Multi-Jurisdictional Plan of Warren County, Ohio. By participating in the Warren County Plan and county planning process this municipality will be eligible to make application for Hazard Mitigation Grant Program funding

Section 2: The Warren 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 Warren County, Ohio, and

Section 3: The respective county, City, and Village officials identifies 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 Warren County Hazard Mitigation Committee under the direction of the Warren County Board of Commissioners.

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

3.0 HAZARD IDENTIFICATION AND RISK ASSESSMENT

OVERVIEW

Warren County is prone to many natural hazards. The County has experienced considerable hazard events resulting in millions of dollars of damage. Warren County has put together a Hazard Mitigation Plan as an overall effort to reduce future exposure to damages and meet planning requirements of the Disaster Mitigation Act of 2000.

3.1 IDENTIFYING HAZARDS

Section 201.6(c)(2)(i) requires the risk assessment include a description of the type of hazards that can affect Warren County. This section of the plan presents a list of potential hazards that may likely impact Warren County. To determine the hazards that pose the greatest threat to the county, the Warren 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 2015 Plan update
- Review of 2015 Warren County Plan data
- Review of the State Hazard Mitigation Plan data
- Collaboration with community experts and agencies
- Review of past events and state and federally declared disasters
- Internet research

3.2 PROFILING HAZARDS

Section 201.6(c)(2)(i) requires that the risk assessment shall include a description of the location and extent of hazards that can affect Warren County including information on previous occurrences of hazard events, as well as the probability of future hazard event. The risk assessment relies upon information about past hazard events from published sources such as the National Oceanic and Atmospheric Administration (NOAA), the United States Geological Survey (USGS), United States Army Corp of Engineers (USACE), Ohio Emergency Management Agency (OEMA), Ohio Department of Natural Resources (ODNR), and Warren County records, as well as other agencies.

3.3 ASSESSING VULNERABILITY BY IDENTIFYING ASSETS AND CRITICAL INFRASTRUCTURE

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.

Each member of the Mitigation Planning Committee was asked to score the hazards across multiple categories (see Figure 11 for an example hazard ranking sheet). The criteria for each risk factor score was provided in an explanation sheet (see Figure 12). After reviewing the hazards and potential impacts, planning committee members filled out the ranking sheets according to risks and capabilities for their jurisdictions. Category scores were added together per jurisdiction and that raw score was multiplied by the probability score to show realistic weight of how the hazard affects Warren County. The final hazard rankings were compiled from an average of the individual ranking sheet scores.

The final hazard list includes 14 hazards for Warren County, which are listed in order of ranking:

1. Wind/Severe Storms	28.29	8. Dam Failures	16.36
2. Floods	26.02	9. Extreme Temperatures	15.61
3. Tornadoes	23.99	10. Earthquakes	13.63
4. Hazmat Incidents	21.86	11. Landslides	12.63
5. Winter Storms	20.36	12. Drought	12.07
6. Man-Made/ Terrorism Events	18.43	13. Infectious Disease Outbreaks	11.5
7. Invasive Species	16.50	14. Wildfires	9.41

Figure 11: Example of Hazard Ranking Sheet from Planning Meeting #1

		Severity = (magnitude-mitigation)					
Probability	Warning Time	Impact				Preparedness	
Likelihood of Event occurring	Amount of time the community has to prepare for the hazard	Property Impact	Spatial Extent	Population Impact	Economic Impact	Jurisdictional Response/Capabilities/Assets	Mitigation efforts in place
Based on relative data and/or current threats	Is there some lead time associated with the warning?	Physical losses and damages <i>*Include 5 yr future land development impacts</i>	How large of an area would be impacted by a hazard event? Are impacts localized or regional?	Effect the hazard would have on the population. This includes injuries, deaths, and disruptions to quality of life	The impact the event will have on the local economy.	Includes plans, training, exercises, and equipment in place to respond to specific hazard. Also includes readiness of responders to specific hazard events.	Plans, Processes, Procedures, or equipment in place to reduce risk or the severity or impact of the specific hazard.
1 = Unlikely 2 = Possible 3 = Likely 4 = Highly Likely	1 = Public has DAYS of warning time before event 2 = Public has HOURS of warning time before event 3 = Public has MINUTES of warning time before event 4 = Public has LITTLE to NO warning time before event occurs.	1 = Affected 2 = Minor 3 = Major 4 = Destroyed	1 = Negligible- Less than 1% area affected 2 = Small - btwn 1% and 10% of area affected 3 = Moderate - btwn 10% and 50% area of area affected 4 = Large - btwn 50% & 100% of area affected	1 = Minor 2 = Limited 3 = Critical 4 = Catastrophic	1 = Minor 2 = Limited 3 = Critical 4 = Catastrophic	1 = N/A 2 = Fully prepared and have capable resources 3 = somewhat prepared, have limited resources 4 = Not prepared, no resources	1= not needed 2 = Adequate Mitigation measures in place 3 = some mitigation measures in place 4 = very limited or no mitigation measures in place
Dam Failure							
Drought							
Earthquake							
Extreme Temperatures							
Flood							
Hazmat Incident							
Invasive Species							
Landslide							
Man-made / Terrorism							
Tornado							
Wildfire							
Wind / Severe Storm							
Winter Storm							

Copies of jurisdictional/agency completed hazard ranking sheets were filed with WCDES and provided in the mitigation binders given to HMP participants.

Figure 12: Risk Factor Criteria Explanation for Hazard Ranking Sheet

Warren County Hazard Mitigation Planning RISK FACTOR CRITERIA EXPLANATION

RISK FACTOR CRITERIA				
RISK ASSESSMENT CATEGORY	EXPLANATION	LEVEL	DEGREE OF RISK LEVEL	INDEX
PROBABILITY	What is the likelihood of a hazard event occurring in a given year? Based on relative data and/or current threats.	UNLIKELY	Less than 1% annual probability	1
		POSSIBLE	Between 1 & 10% annual probability	2
		LIKELY	Between 10 & 100% annual probability	3
		HIGHLY LIKELY	100% annual probability	4
WARNING TIME	The amount of time that a community has to prepare for a specific hazard.	DAYS	The public has days of warning time before the event occurs.	1
		HOURS	The public has hours of warning time before the event occurs.	2
		MINUTES	The Public has minutes of warning time before the event occurs.	3
		NO WARNING	The public may not have any advanced warning before event occurs.	4
PROPERTY IMPACT	Degree of physical losses and damages that would occur to properties for the specific event. <i>*This ranking needs to include 5-year projections for land use trends and future development trends in order to assess future impact.</i>	AFFECTED	Properties may be affected by the event. Buildings may receive minimal damage to structure and/or contents and homes are habitable or business are operational without repairs.	1
		MINOR	Properties may be minorly affected by the event. Encompasses a wide range of damage that does not affect the structural integrity of the buildings.	2
		MAJOR	The building has sustained structural or significant damages, homes are uninhabitable, or businesses are not operational, and damages require extensive repairs.	3
		DESTROYED	Home or business is a total loss or damages to such an extent that repairs are not economically feasible.	4
SPATIAL EXTENT	How large of an area could be impacted by a hazard event? Are impacts localized or regional?	NEGLIGIBLE	Less than 1% of area affected	1
		SMALL	Between 1 & 10% of area affected	2
		MODERATE	Between 10 & 50% of area affected	3
		LARGE	Between 50 & 100% of area affected	4
POPULATION IMPACT	Effect the hazard would have on the population. This includes injuries, deaths, and disruptions to quality of life (which could include power for medical equipment or other needs, access to clean water or food sources, access to heat or air, need for sheltering away from homes, etc.)	MINOR	Very few injuries, if any. Minimal disruption of quality of life. Temporary shutdown of critical facilities.	1
		LIMITED	Minor injuries only. Some disruption to quality of life. Complete shutdown of critical facilities for more than one day.	2
		CRITICAL	Multiple deaths/injuries possible. Moderate disruption to quality of life. Complete shutdown of critical facilities for more than one week.	3
		CATASTROPHIC	High number of deaths/injuries possible. Complete shutdown of critical facilities for 30 days or more.	4
ECONOMIC IMPACT	The impact the event will have on the local economy. <i>This includes limited access to the area due to damaged infrastructure, limited access to schools or employers due to damages, limited tourism to boost the economy, etc.</i>	MINOR	Minor impact on local economy. Minor impact to infrastructure that could delay access to the community for a short period of time. Schools, businesses, and tourism remain open.	1
		LIMITED	Limited impact on the local economy. Retained access to a majority of infrastructure, schools and majority of businesses still open	2
		CRITICAL	Major impact on the local economy. Large portion of local infrastructure is moderately affected. Schools and many businesses are closed for a one week or longer. Tourism or other tax base affected.	3
		CATASTROPHIC	Catastrophic impact on the local economy. Majority of infrastructure is damaged or destroyed. Schools and many businesses are closed for longer than one week affecting childcare and employment. Tourism or other tax base is highly affected.	4

Warren County Hazard Mitigation Planning RISK FACTOR CRITERIA EXPLANATION

RISK ASSESSMENT CATEGORY	EXPLANATION	LEVEL	DEGREE OF RISK LEVEL	INDEX
JURISDICTIONAL RESPONSE/ CAPABILITIES & ASSETS	Jurisdictional response includes having plans in place that cover incident response, continuity of government, and recovery operations for the specific hazard event. It also includes the level of training and readiness of those involved in incident response and the capabilities/ assets they must be able to adequately respond to and recover from the specific hazard event.	FULLY PREPARED & HAVE CAPABLE RESOURCES	Jurisdiction has prepared for hazard through planning, training, education, and exercises. Jurisdiction has enough resources on hand to respond to event.	1
		MODERATELY PREPARED & HAVE ACCESS TO ADEQUATE RESOURCES	Jurisdiction has prepared for event through training and planning. Jurisdiction has some resources available to respond to the event and can utilize nearby mutual aid to supplement needed equipment, personnel, and supplies.	2
		SOMEWHAT PREPARED WITH LIMITED ACCESS TO RESOURCES	Jurisdiction has planned for the event but has no special training, education, or exercises to prepare for the specific event. Jurisdiction can utilize mutual aid from other counties or through the state to supplement needed equipment, personnel, and supplies, but wait times and availability may be limited.	3
		NOT PREPARED OR NO ACCESS TO RESOURCES	Jurisdiction has no specific plans, training, exercises or education on the specific hazard. Jurisdiction may not have access to adequate equipment, personnel, and supplies within the first 48 -72 hours of event.	4
MITIGATION EFFORTS IN PLACE	Includes plans, processes, and procedures for mitigating risks or effects from specific hazard events. This could include building code enforcement in hazard areas, trained personnel for hazard-specific events (i.e. floodplain manager)	MITIGATION MEASURES NOT NEEDED	No mitigation measures are needed to lessen the risk of the specific hazard or to lessen the severity or impact of the specific hazard.	1
		ADEQUATE MITIGATION MEASURES IN PLACE	Jurisdiction has adequate mitigation measures in place to lessen the risk of the specific hazard or to lessen the severity or impact of the specific hazard. Limited or no mitigation measures are still needed to further lessen the risk or severity and impact of the specific hazard.	2
		SOME MITIGATION MEASURES IN PLACE	Some mitigation measures are in place to lessen the risk of the specific hazard or to lessen the severity or impact of the specific hazard. More mitigation measures are needed due to the risk or severity/impact of the specific hazard to this jurisdiction.	3
		VERY LIMITED OR NO MITIGATION MEASURES IN PLACE	Jurisdiction has very limited or no mitigation measures in place that would lessen the risk of the specific hazard or that would lessen the severity or impact of the specific hazard. Mitigation measures are needed based on risk, severity, or impact of the specific hazard event.	4

3.0 PROFILE OF EACH HAZARD

The Planning Team compiled extensive research from jurisdictional representatives, industry experts, and internet searches to determine hazard profiles for each hazard listed in the plan. The resulting hazard profiles were published and presented at community Planning Meeting 1 with copies published in the jurisdictional / agency binders. Profiles listed below are in order of the county's hazard ranking.

4.1 WIND /SEVERE STORMS

DEFINITION:

Severe thunderstorms are officially defined as storms capable of producing hail that is an inch or larger, wind gusts over 58 mph, or that could form a possible tornado. Severe storms can also be defined as any destructive summer weather event with the potential to damage property or cause loss of life.

PRIMARY SOURCES OF INFORMATION:

- National Weather Service - <https://www.weather.gov/safety/thunderstorm-ww>
- National Centers for Environmental Information - <https://www.ncdc.noaa.gov/stormevents>
- Past Data - <https://w2.weather.gov/climate/index.php?wfo=>

DESCRIPTION:

Types of wind:

Damaging winds are classified as those exceeding 50-60 mph. There are multiple types of wind that cause damage.

- **Straight-line wind** is a term used to define any thunderstorm wind that is not associated with rotation and is used mainly to differentiate from tornadic winds.
- **Downdraft** is a small-scale column of air that rapidly sinks toward the ground.
- **Macroburst** is an outward burst of strong winds at or near the surface with horizontal dimensions larger than 2.5 miles and occur when a strong downdraft reaches the surface. Macroburst winds begin over a smaller area and then spread over a wider area, sometimes producing damage similar to a tornado.
- **Microburst** is a small concentrated downburst that produces an outward burst of strong winds at or near the surface. Microbursts are small — less than 2.5 miles across — and short-lived, lasting only 5 to 10 minutes, with maximum windspeeds sometimes exceeding 100 mph. There are two kinds of microbursts: wet and dry. A wet microburst is accompanied by heavy precipitation at the surface. Dry microbursts, common in places like the high plains and the intermountain west, occur with little or no precipitation reaching the ground.
- **Downburst** is the general term used to broadly describe macro and microbursts. Downburst includes generally all localized strong wind events that are caused by a strong downdraft within a thunderstorm, while microburst simply refers to an especially small downburst that is less than 2.5 miles across.
- **Gust front** is the leading edge of rain-cooled air that clashes with warmer thunderstorm inflow. Gust fronts are characterized by a wind shift, temperature drop, and gusty winds out ahead of a thunderstorm.
- **Derecho** is a widespread, long-lived windstorm that is associated with a band of rapidly moving showers or thunderstorms. A typical derecho consists of numerous microbursts, downbursts, and downburst clusters. By definition if the wind damage swath extends more than 240 miles (about 400 kilometers) and includes wind gusts of at least 58 mph (93 km/h) or greater along most of its length, then the event may be classified as a derecho.
- **Haboob** is a wall of dust pushed out along the ground from a thunderstorm downdraft at high speeds.

Types of Thunderstorms:

- **Single-cell storms** are small, brief, weak storms that grow and die within an hour or so and may produce brief heavy rain and lightning. They are typically driven by heating of the atmosphere on a summer afternoon.
- **Multi-Cell storm** is a storm where updrafts form along the leading edge of rain-colored air that may produce hail, strong winds, brief tornadoes, and/or flooding. Individual cells usually last 30-60 minutes while the system may last for hours.

- **Squall line** is a group of storms arranged in a line often accompanied by squalls of high winds and heavy rain. Squalls tend to pass quickly and are less prone to produce tornadoes than supercells.
- **Supercell** is a long-duration and highly organized storm feeding off an updraft. Squall lines can be present as much as 20-60 minutes before a tornado forms.
- **Mesoscale Convective System (MCS)** is a collection of thunderstorms that act as a system. An MCS can spread across an entire state and last more than 12 hours.
- **Mesoscale Convective Complex** is a large, circular, long-lived cluster of showers and thunderstorms that emerge out of other storm types during late-night and early-morning hours.

Other potential factors resulting from thunderstorms:

- **Hail** is a form of precipitation consisting of solid ice that forms inside thunderstorm updrafts.
- **Lightning** is a large spark of electricity in the atmosphere between clouds, the air, or the ground.
- **Flash Flooding** is a result of a rapid rise of water over low-lying areas which can result from a large thunderstorm.

HISTORY / OCCURRENCES:

According to the National Centers for Environmental Information Storm Events Database, there have been nearly 300 severe wind events in Warren County since 1964. There have also been 43 instances of hail reported in Warren County during same timeframe. (reference Appendix 2 for recorded storm events per jurisdiction.) These events only catalog storms with high winds and damage.

Occurrences

Table 20 depicts the reportable severe wind or thunderstorm events that have occurred in Warren County. Appendix 2 includes a more detailed description of storm events for the county broken down by region.

Table 20: Table of Reportable Severe Wind or Thunderstorm Events for Warren County

Severe Storm Event Type	Description	Number of Events	Injuries	Deaths	Property Damages
Thunderstorm	Wind gusts over 58mph, hail 1" or larger	25	1	0	\$29,069,000
High Wind	Any wind damage under 58 mph (regardless if it was connected to a storm or not)	272	4	0	\$1,570,500
Lightning	Direct or Indirect Strikes	5	6	3	\$2,250,000
Hail	All hail events reported (regardless if it was connected to a storm or not)	32	0	0	\$2,563,000
Total					\$35,452,500

Source: NWS Wilmington and the National Center for Environmental Information (NCEI)

PROBABILITY OF OCCURRENCE / RISK:

[historical year where tracking began (1964)] subtracted by [current year (2019)] = 55 Years on Record
 [Years on Record (55)] divided by [number of historical events (300)] = .183
 It can be reasonably assumed that this type of event has occurred approximately 5.4 times per year from 1964 through 2019.

Probability of Type per occurrence:

0-49 mph	50-59mph	60-69 mph	70+ mph
18%	72%	7%	2%

DAMAGES FROM WIND / SEVERE STORMS

Wind Speed Damages:

MPH	Description of Damage
39-46 mph	Twigs are broken from trees and cars veer on roads.
47-54 mph	Light structural damage occurs.
55-63 mph	Trees are uprooted, and considerable structural damage occurs.
64-75 mph	Widespread structural damage occurs.

Damage Extent:

Spatial Extent
Localized for small storm cells or widespread for supercell storms.
Estimated losses
According to the State of Ohio Hazard Mitigation Plan, the estimated property and crop loss (based on 2008-2017 data) to Warren County from several severe storms occurring over a year period could equal roughly \$367,000. Combined with critical facility damages and hail damage, estimated damages could equal up to \$861,000 annually. Average annual losses based on the last five years of reported damages equal \$8,896.43, however, this amount could be as high as \$800,000 if crop losses occur or mass tree removal is needed.
Critical Infrastructure Affected
Potentially all critical infrastructure could be affected by the impacts or cascading effects of wind/ severe storms.

WARNING:

The National Weather Service issues the following warning for severe storms and wind events:

- **Severe Thunderstorm Watch:** is issued by NOAA when severe thunderstorms are possible in and near the watch area. Winds 58 mph or higher and/or hail 1" or larger are possible in a severe thunderstorm.
- **Severe Thunderstorm Warning:** is issued when severe thunderstorms are occurring or are imminent in the warning area. Severe thunderstorms have wind 58 mph or higher and/or hail 1" or larger.
- **Wind Advisory:** indicates that strong wind gusts between 46 – 57 mph or sustained winds of 31-39 mph for an hour or longer are occurring. Wind Advisories are issues during non-convective weather patterns.
- **High Wind Watch:** issued when wind gusts of 58 mph or greater are expected.
- **High Wind Warning:** Sustained, strong winds of 40 mph or higher are expected for at least one hour or longer.
- **Dust Storm Warning:** A Dust Storm Warning is issued when visibility of 1/2 mile or less due to blowing dust or sand, and wind speeds of 30 miles an hour or more.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF WIND OR SEVERE STORMS:

Thunderstorms require three ingredients to form: Moisture, unstable air, and a source of lift. After a thunderstorm develops, there is a maturation stage consisting of updrafts and downdrafts. The warm air becomes unstable at this stage which is where severe weather occurs.

El Niño and La Niña patterns can affect the intensity of storms and their effects through their alterations of the jet streams which lift warm, moist air into the atmosphere.

4.2 FLOODS

DEFINITION:

Floods occur when water is delivered to a water body (i.e. stream, river, lake) at a rate and in an amount that is greater than normal. There are multiple ways in which floods can occur:

- By an overflow or inundation coming from a river or water body that causes or threatens damage.
- Any relatively high streamflow overtopping the natural or artificial banks in any reach of a stream.
- Through excessive amount of rainfall in a short period of time in one location.

PRIMARY SOURCES OF INFORMATION:

- *National Weather Service* - <https://www.weather.gov/safety/flood-hazards>
- *Past Data:* <https://www.weather.gov/iln/events>

DESCRIPTION

Types of floods:

- **Flash floods** – generally develop within 6 hours of the immediate cause (which could include heavy rain, slow-moving thunderstorms, ice or debris jams, and levee or dam failure). These floods exhibit a rapid rise of water over low-lying areas or a large amount of water that cannot be absorbed in urban areas. Flash flooding can cause small streams to become rapid, violent rivers, and can produce rapid runoff over mountainous terrain.
- **River Flooding** – occurs when river levels rise and overflow their banks or edges of their main channel and inundate areas that are normally dry. River flooding can be caused by heavy rainfall, dam failures, rapid snowmelt and ice jams.
- **Burn Scars / debris flows** – In areas where wildfires have occurred, vegetation may have been burned away and soil properties may have been altered, leaving behind bare ground that tends to repel water (which is called a burn scar). When rain falls over a burn scar the ground is unable to absorb the moisture, leaving the water to collect or run across the surface of the ground towards the lowest point.
- **Urban flooding** - is the result of development and the ground's decreased ability to absorb excess water without adequate drainage systems in place. Typically, this type of flooding occurs when land uses change from fields or woodlands to roads and parking lots. Urbanization can increase runoff two to six times more than natural terrain. The flooding of developed areas may occur when the amount of water generated from rainfall and runoff exceeds a storm water system's capability to remove it.
- **Ice / debris Jams** - are stationary accumulations of ice or debris that restrict flow. As ice or debris moves downstream, it may get caught on obstructions to the water flow. When this occurs, water can be held back, causing upstream flooding. When the jam finally breaks, flash flooding occurs downstream.

Flood Stage Categories:

Flood categories are terms defined for each gage location that describe or categorize the observed or expected severity of flood impacts in the corresponding stream segment or nearby stream. The severity of flooding at a given stage is not necessarily the same at all locations along a stream due to varying channel/bank characteristics of the stream. The flood categories used in the NWS are minor, moderate, and major flooding, but all three of the flood categories do not necessarily exist for each gage location. Record flooding is flooding that equals or exceeds the highest stage of discharge at a given site during the period of record keeping.

- **Action Stage** - the stage which, when reached by a rising stream, represents the level where the NWS or a partner/user needs to take some type of mitigation action in preparation for possible significant hydrologic activity. The type of action taken varies for each gage location. Gage data should be closely monitored by any affected people.
- **Flood Stage** - an established gage height for a given location, above which a rise in water surface level begins to create a hazard to lives, property, or commerce. The issuance of flood advisories or warnings is linked to flood stage. Not necessarily the same as bankfull stage.
- **Moderate Flood stage** - is defined to have some inundation of structures and roads near the stream. Some evacuations of people and/or transfer of property to higher elevations may be necessary.
- **Major Flood stage**- is defined to have extensive inundation of structures and roads. Significant evacuations of people and/or transfer of property to higher elevations are necessary.

HISTORY / OCCURRENCES:

Warren County has been a part of 34 Federal Disaster Declarations that included flooding. The county has been able to avoid the bulk of the damages associated with flood events of this magnitude; however, there have been occurrences of localized riverine and urban flooding, impacting residents and their property.

Table 21: Recorded Flooding Occurrences in Warren County

LOCATION	DATE	MAGNITUDE	DEATH	INJURY	PROPERTY DAMAGE	LOCATION	DATE	MAGNITUDE	DEATH	INJURY	PROPERTY DAMAGE
Warren County	4/29/1996	Flood	0	0	\$3,000	Mason	6/6/2001	Flash Flood	0	0	\$3,000
Warren County	4/29/1996	Flash Flood	0	0	\$2,000	Warren County	6/6/2001	Flash Flood	0	0	\$10,000
Warren County	5/4/1996	Flash Flood	0	0	\$10,000	Waynesville	6/12/2001	Flash Flood	0	0	\$3,000
Warren County	5/11/1996	Flood	0	0	\$0	Mason	7/17/2001	Flash Flood	0	0	\$604,000

LOCATION	DATE	MAGNITUDE	DEATH	INJURY	PROPERTY DAMAGE	LOCATION	DATE	MAGNITUDE	DEATH	INJURY	PROPERTY DAMAGE
Deerfield TWP	5/11/1996	Flash Flood	0	0	\$3,000	Mason	8/11/2001	Flash Flood	0	1	\$0
Warren County	6/1/1997	Flood	0	0	\$1,000,000	Warren County	12/17/2001	Flood	0	0	\$0
Warren County	6/1/1997	Flash Flood	0	0	\$10,000	Warren County	5/7/2002	Flood	0	0	\$0
Mason	6/18/1997	Flash Flood	0	0	\$5,000	Warren County	7/23/2002	Flood	0	0	\$2,000
Mason	7/14/1997	Flash Flood	0	0	\$100,000	Warren County	7/27/2002	Flood	0	0	\$2,000
Loveland Park	7/22/1997	Flash Flood	0	0	\$500,000	Five Points	7/27/2002	Flash Flood	0	0	\$8,000
Warren County	4/16/1998	Flash Flood	0	0	\$2,000,000	Warren County	9/27/2002	Flood	0	0	\$0
Warren County	4/16/1998	Flood	0	0	\$0	Warren County	9/27/2002	Flood	0	0	\$0
Warren County	1/3/2000	Flash Flood	0	0	\$10,000	Warren County	11/10/2002	Flood	0	0	\$0
Morrow	2/13/2000	Flash Flood	0	0	\$5,000	Warren County	5/10/2003	Flood	0	0	\$0
Warren County	2/18/2000	Flood	0	0	\$0	Lebanon	6/16/2003	Flash Flood	0	0	\$20,000
Mason	5/18/2001	Flash Flood	0	0	\$5,000	Warren County	6/17/2003	Flood	0	0	\$30,000
Warren County	7/10/2003	Flood	0	0	\$0	Lebanon	5/21/2010	Flash Flood	0	0	\$1,000
Warren County	7/15/2003	Flood	0	0	\$0	Lebanon	5/21/2010	Flash Flood	0	0	\$10,000
Warren County	8/15/2003	Flood	0	0	\$0	Stubbs Mills	4/19/2011	Flood	0	0	\$1,000
Warren County	9/2/2003	Flood	0	0	\$0	Lebanon	12/5/2011	Flood	0	0	\$1,000
Warren County	9/2/2003	Flood	0	0	\$0	Socialville	1/17/2012	Flood	0	0	\$1,000
Warren County	1/4/2004	Flood	0	0	\$0	Crosswick	1/26/2012	Flood	0	0	\$1,000
Warren County	1/4/2004	Flood	0	0	\$0	Mason	7/6/2013	Flash Flood	0	0	\$1,000
Warren County	1/4/2004	Flood	0	0	\$0	Springboro	7/6/2013	Flash Flood	0	0	\$1,000
Warren County	5/19/2004	Flood	0	0	\$0	S. Lebanon	7/6/2013	Flood	0	0	\$10,000
Warren County	1/5/2005	Flood	0	0	\$10,000	Union Village	7/6/2013	Flash Flood	0	0	\$1,000
Warren County	1/5/2005	Flash Flood	0	0	\$20,000	Lebanon	12/22/2013	Flood	0	0	\$0
Warren County	1/5/2005	Flood	0	0	\$10,000	Lebanon/Morrow	3/1/2017	Flood	0	0	\$0
Warren County	1/11/2005	Flood	0	0	\$10,000	Warren County	4/28-29/2017	Flash Flood	0	0	\$0
Warren County	3/28/2005	Flood	0	0	\$0	Springboro	6/14/2017	Flood	0	0	350,000
Warren County	6/30/2005	Flood	0	0	\$0	Loveland	6/23/2017	Flash Flood	0	0	\$0
Lebanon	3/12/2006	Flash Flood	0	0	\$0	Lebanon	7/13/2017	Flood	0	0	\$0
Maineville	4/7/2006	Flash Flood	0	0	\$0	Mason	11/6/2017	Flood	0	0	\$0
Mason	6/26/2007	Flood	0	0	\$0	Warren County	4/3/2018	Flood	0	0	\$0
Kings Mills	3/4/2008	Flood	0	0	\$3,000	Franklin	6/8/2018	Flood	0	0	\$0
Socialville	3/18/2008	Flood	0	0	\$5,000	Lebanon	9/3/2018	Flood	0	0	\$60,000
South Lebanon	3/18/2008	Flash Flood	0	0	\$30,000	Morrow	2/7/2019	Flood	0	0	\$0
Warren County	5/15/2008	Flood	0	0	\$2,000	Waynesville	2/7/2019	Flood	0	0	\$0
Mason	6/26/2009	Flash Flood	0	0	\$20,000	Lebanon	6/17-18-2019	Flood	0	0	\$0
Morrow	8/4/2009	Flash Flood	0	0	\$15,000	Waynesville	6/17-18-2019	Flood	0	0	\$0
Lebanon	5/21/2010	Flash Flood	0	0	\$2,000	S. Lebanon	7/3/2019	Flood	0	0	\$0
Totals									0	1	\$4,900,000

Repetitive loss properties

A Repetitive Loss property (RL) is any insurable building for which two or more claims of more than \$1,000 were paid by the National Flood Insurance Program within a rolling 10-year period, since 1978. A Severe Repetitive Loss property is one which the program has made at least four payments for building/contents of more than \$5,000 or at least two building-only payments that exceed the value of the property.

Table 22: Repetitive Loss Properties

Community Name	Occupancy	Zone	Tot Building Payment	Tot Contents Payment	Losses	Total Paid
LEBANON, CITY OF	SINGLE FMLY	X	\$4,123.32	\$0	2	\$4,123.32
MASON, CITY OF	BUSI-NONRES	C	\$33,638.38	\$933.8	3	\$34,572.18
MORROW, VILLAGE OF	SINGLE FMLY	A11	\$,2720	\$530	2	\$,3250
SOUTH LEBANON, VILLAGE OF	SINGLE FMLY	AE	\$182,856.08	\$29,008.19	4	\$211,864.27
SOUTH LEBANON, VILLAGE OF	SINGLE FMLY	AE	\$22,323.05	\$2,128.3	4	\$24,451.35
SOUTH LEBANON, VILLAGE OF	SINGLE FMLY	AE	\$14,446.02	\$0	2	\$14,446.02
SOUTH LEBANON, VILLAGE OF	SINGLE FMLY	AE	\$67,491.72	\$2,509.61	5	\$70,001.33
SOUTH LEBANON, VILLAGE OF	SINGLE FMLY	AE	\$15,693.56	\$16,189.48	3	\$31,883.04
SPRINGBORO, CITY OF	OTHR-NONRES		\$1,459.79	\$11119.26	2	\$12,579.05
WARREN COUNTY*	SINGLE FMLY	X	\$34,162.35	\$1,159.66	3	\$35,322.01
WARREN COUNTY*	SINGLE FMLY	A14	\$5,389.38	\$0	2	\$5,389.38
WARREN COUNTY*	SINGLE FMLY	X	\$72,888.41	\$45,073.09	2	\$117,961.50
WARREN COUNTY*	SINGLE FMLY	AE	\$17,958.61	\$0	2	\$17,958.61
WARREN COUNTY*	SINGLE FMLY	A02	\$5,327.56	\$0	2	\$5,327.56
Total			\$476354.91	\$108,651.40	36	\$585,006.30

Source: State of Ohio Mitigation Plan 2019

Historic crests of Warren County Rivers:

Figure 13: Historic Crests of The Great Miami River at Franklin

Historic Crests	Great Miami River at Franklin																							
<ul style="list-style-type: none"> 16.70 ft on 01/22/1937 16.60 ft on 03/06/1963 17.60 ft on 01/22/1959 16.50 ft on 01/07/2005 <p>Last five years</p> <ul style="list-style-type: none"> 10.07 ft on 04/12/2013 15.59 ft on 12/22/2013 14.33 ft on 02/25/2018 14.50 ft on 04/05/2018 	<p style="text-align: center;">Flood Categories (in feet)</p> <table border="1"> <thead> <tr> <th>Categories</th> <th>Feet</th> <th># instances</th> <th>Probability per event</th> </tr> </thead> <tbody> <tr> <td>Major Flood Stage:</td> <td>22</td> <td>0</td> <td>1%</td> </tr> <tr> <td>Moderate Flood Stage:</td> <td>17</td> <td>1</td> <td>12%</td> </tr> <tr> <td>Flood Stage:</td> <td>14</td> <td>6</td> <td>75%</td> </tr> <tr> <td>Action Stage:</td> <td>11</td> <td>1</td> <td>12%</td> </tr> </tbody> </table> <p>22 Feet - Miami Conservancy flood protective levees would be overtopped, resulting in flooding of protected areas of Franklin. Many homes and businesses of Carlisle between the railroad tracks and the river are flooded. Areas most impacted would be west of the river, though areas of Franklin between Main Street and the river along the east bank.</p> <p>18 Feet - This is roughly equal to the FEMA 1 percent flood. Flood waters extend into yards of numerous homes in areas of Carlisle between the railway tracks and the river on the west bank...with water into the lowest lying homes of this area. Areas of Franklin protected by Miami Conservancy District Levees do not flood until stages at and above 22 feet.</p> <p>17 Feet - Portions of Dayton-Oxford Road flood, with flood water nearing homes near Carlisle along Dayton-Oxford Road. Areas of Franklin protected by Miami Conservancy District Levees do not flood until stages at and above 22 feet.</p> <p>16 Feet - In addition to flooding onto low areas of Oxford Road near the railway bridge, water floods basements of riverside apartments along Dayton-Oxford Road. Water extends nearly to Dayton-Oxford Road itself in Carlisle. Areas of Franklin protected by Miami Conservancy District Levees do not flood until stages at and above 22 feet.</p> <p>15 Feet - In addition to flooding along low areas of Oxford Road near the railway bridge, water approaches riverside apartments along Dayton-Oxford Rd, and flooding of basement apartments may occur. Areas of Franklin protected by Miami Conservancy District Levees do not flood until stages at and above 22 feet.</p> <p>14 Feet - Flooding occurs along Oxford Road at the railway underpass.</p>				Categories	Feet	# instances	Probability per event	Major Flood Stage:	22	0	1%	Moderate Flood Stage:	17	1	12%	Flood Stage:	14	6	75%	Action Stage:	11	1	12%
Categories	Feet	# instances	Probability per event																					
Major Flood Stage:	22	0	1%																					
Moderate Flood Stage:	17	1	12%																					
Flood Stage:	14	6	75%																					
Action Stage:	11	1	12%																					

Figure 14: Historic Crests of The Little Miami River at King's Mills

Historic Crests	Last five years	Little Miami River at King's Mills																							
<ul style="list-style-type: none"> 27.20 ft on 03/05/1897 33.70 ft on 03/26/1913 24.30 ft on 03/19/1933 22.10 ft on 05/14/1933 24.78 ft on 01/22/1937 26.77 ft on 01/25/1937 26.77 ft on 04/20/1940 24.20 ft on 03/20/1943 26.54 ft on 03/06/1945 20.95 ft on 07/22/1958 31.80 ft on 01/22/1959 23.30 ft on 05/09/1961 25.68 ft on 03/05/1963 	<ul style="list-style-type: none"> 16.90 ft on 12/22/2013 17.26 ft on 04/29/2017 20.35 ft on 03/01/2017 20.52 ft on 11/06/2017 22.10 ft on 02/25/2018 19.80 ft on 02/06/2019 	<p style="text-align: center;">Flood Categories (in feet)</p> <table border="1"> <thead> <tr> <th>Categories</th> <th>Feet</th> <th># instances</th> <th>Probability per event</th> </tr> </thead> <tbody> <tr> <td>Major Flood Stage:</td> <td>31</td> <td>2</td> <td>5%</td> </tr> <tr> <td>Moderate Flood Stage:</td> <td>24</td> <td>11</td> <td>29%</td> </tr> <tr> <td>Flood Stage:</td> <td>17</td> <td>24</td> <td>63%</td> </tr> <tr> <td>Action Stage:</td> <td>13</td> <td>1</td> <td>2%</td> </tr> </tbody> </table> <p>33 Feet - Major flooding in South Lebanon covers about one third of the town, with water several feet deep into homes and businesses between Broadway Street and the river. The Village of Morrow also experiences moderate flooding along streets close to the river and along Todd Fork Creek. Kings Mills Road near Foster is also severely flooded.</p>				Categories	Feet	# instances	Probability per event	Major Flood Stage:	31	2	5%	Moderate Flood Stage:	24	11	29%	Flood Stage:	17	24	63%	Action Stage:	13	1	2%
Categories	Feet	# instances	Probability per event																						
Major Flood Stage:	31	2	5%																						
Moderate Flood Stage:	24	11	29%																						
Flood Stage:	17	24	63%																						
Action Stage:	13	1	2%																						

<ul style="list-style-type: none"> • 26.60 ft on 03/10/1964 • 24.85 ft on 05/24/1968 • 21.80 ft on 09/14/1979 • 19.60 ft on 04/10/1994 • 20.00 ft on 05/11/1996 • 20.00 ft on 06/01/1997 • 24.00 ft on 04/16/1998 • 17.90 ft on 02/18/2000 • 17.80 ft on 06/06/2002 • 21.00 ft on 01/05/2004 • 20.00 ft on 01/06/2005 • 19.00 ft on 03/28/2005 • 18.75 ft on 03/02/2007 • 23.95 ft on 03/19/2008 • 17.33 ft on 04/20/2011 • 16.40 ft on 05/03/2011 • 20.60 ft on 12/06/2011 • 19.05 ft on 05/02/2012 	<ul style="list-style-type: none"> • 19.67 ft on 02/08/2019 	<p>31 Feet - Major flooding occurs in South Lebanon, especially buildings between McKinley St. and the river. Water is several feet deep into many homes. Flood waters are several feet deep along Mason-Morrow-Millgrove Rd, as well as on Front St. in Morrow.</p> <p>30 Feet - This is roughly equal to the FEMA 1 percent flood. Much of South Lebanon between East Pike Street and the river is flooded, including backwater flooding along Turtle Creek and Dry Run. Long stretches of Mason Morrow Millgrove Road are also flooded, as well as much of the village of Morrow.</p> <p>26 Feet - South Lebanon incurs the worst of the flooding, with homes inundated along South Main St and King Ave in South Lebanon. Long stretches of Mason-Morrow-Millgrove Road is flooded, as well as Front Street in Morrow. Water spills onto Kings Mills Road near Foster.</p> <p>24 Feet - Flooding along portions of South Main Street, South High Street & King Avenue in South Lebanon is a foot deep or more. Basement flooding of several feet occurs in riverfront homes of South Lebanon. Flooding also occurs along Front and Miami Streets in Morrow and becomes worse along portions of Mason-Morrow-Millgrove Rd. Todd Fork Creek in Morrow experiences backwater flooding resulting in flooding along Front Street and other low-lying roads in Morrow.</p> <p>22 Feet - Low-lying roads are affected in South Lebanon including South Main and McKinley Streets and King Avenue. Some homes near the river incur basement flooding in South Lebanon. Lowland flooding can be expected elsewhere in Warren County near the Little Miami River including Mason-Morrow-Millgrove Road.</p> <p>19.5 Feet - Flooding can be expected near Turtle Creek in South Lebanon. Roads affected by the flooding include Broadway, McKinley and Pike Streets.</p> <p>19 Feet - Flood waters begin to approach low-lying roads in Foster and South Lebanon, in addition to flooding along Front Street in Morrow, Stubbs Mills Road and stretches of Mason Morrow Millgrove Road.</p> <p>18 Feet - Several areas along Mason Morrow Millgrove Road are flooded, as well as Front Street in Morrow and Stubbs Mills Road. Portions of Rogers Park in South Lebanon is flooded.</p> <p>17 Feet - Flooding of lowland areas occurs from South Lebanon to Foster. Portions of Mason-Morrow-Millgrove Road also flood, as well as Stubbs Mills Road near the river. Front Street in Morrow floods.</p>
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Figure 15: Historic Crests of The Little Miami River at Spring Valley

Historic Crests	Last five years	Little Miami River at Spring Valley																											
<ul style="list-style-type: none"> • 13.97 ft on 04/20/1920 • 12.60 ft on 01/19/1927 • 16.80 ft on 2/06/1929 • 14.08 ft on 03/19/1933 • 13.55 ft on 09/03/1935 • 15.50 ft on 3/20/1943 • 15.65 ft on 3/06/1945 • 14.71 ft on 06/02/1947 • 16.47 ft on 2/14/1948 • 16.12 ft on 1/05/1949 • 13.88 ft on 01/03/1950 • 15.34 ft on 02/03/1950 • 16.75 ft on 1/27/1952 • 19.20 ft on 01/21/1959 • 19.14 ft on 3/05/1963 • 15.79 ft on 3/10/1964 • 13.21 ft on 02/24/1975 • 14.51 ft on 06/28/1980 • 14.53 ft on 06/06/1981 • 14.00 ft on 01/31/1982 • 12.09 ft on 05/02/1983 • 14.47 ft on 01/05/2004 • 13.72 ft on 01/06/2005 • 13.91 ft on 03/20/2008 • 13.71 ft on 06/05/2008 • 12.34 ft on 12/06/2011 	<ul style="list-style-type: none"> • 11.12 ft on 12/22/2013 • 11.15 ft on 02/21/2014 • 11.66 ft on 05/22/2014 • 11.14 ft on 06/21/2015 • 11.03 ft on 12/29/2015 • 12.27 ft on 11/07/2017 • 12.88 ft on 02/25/2018 • 12.87 ft on 04/04/2018 • 12.41 ft on 02/08/2019 	<table border="1"> <thead> <tr> <th colspan="4">Flood Categories (in feet)</th> </tr> <tr> <th>Categories</th> <th>Feet</th> <th># instances</th> <th>Probability per event</th> </tr> </thead> <tbody> <tr> <td>Major Flood Stage:</td> <td>17</td> <td>2</td> <td>6%</td> </tr> <tr> <td>Moderate Flood Stage:</td> <td>14</td> <td>14</td> <td>40%</td> </tr> <tr> <td>Flood Stage:</td> <td>11</td> <td>19</td> <td>54%</td> </tr> <tr> <td>Action Stage:</td> <td>9</td> <td>-</td> <td>-</td> </tr> </tbody> </table>				Flood Categories (in feet)				Categories	Feet	# instances	Probability per event	Major Flood Stage:	17	2	6%	Moderate Flood Stage:	14	14	40%	Flood Stage:	11	19	54%	Action Stage:	9	-	-
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Flood Stage:	11	19	54%																										
Action Stage:	9	-	-																										
		<p>15 Feet Some homes and businesses near Spring Valley, Roxanna, Oregonia and Corwin are impacted by flooding, possibly first floor level flooding. High water covers long stretches of Corwin Road near the river, as well as Waynesville, New Burlington and Middletown Roads.</p> <p>14 Feet Flood waters approach businesses and some homes near Spring Valley, Roxanna, Oregonia, Corwin and east of Waynesville. Flooding continues along portions of Corwin Road near the river, as well as Waynesville, New Burlington and Middletown Roads. Much of Wayne Township in Warren County is flooded along the river.</p> <p>13 Feet High water impacts low areas near Spring Valley, Roxanna, Corwin and east of Waynesville. Flood waters approach homes very close to the river, and widespread bottom land flooding occurs. Water floods Corwin Rd, Waynesville Rd and Middletown Rd near the river.</p> <p>12 Feet Water rises into low-lying areas close to the river near Spring Valley, Roxanna and east of Waynesville. Water floods Corwin Road, as well as Waynesville and Middletown Roads.</p> <p>11 Feet Flooding impacts short areas of Middletown and Waynesville Roads, in addition to Corwin Road and Corwin Park. Backwater flooding may impact Route 725 in Sugar Creek township.</p> <p>10 Feet Corwin Road and Corwin Park are flooded.</p>																											

PROBABILITY OF OCCURRENCE / RISK:

Reported flood events over the past 23 years provide an acceptable framework for determining future occurrence in terms of frequency for such events. The probability of the County and its municipalities experiencing a flood event can be difficult to quantify but based on historical record of 83 flood events since 1996, it can reasonably be assumed that this type of event has occurred once every .36 years from 1996 - 2014.

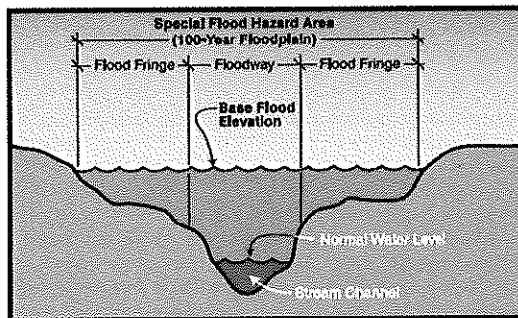
- [(Current Year) 2019] subtract [(Historical Year) 1996] = 23 Years on Record
- [(Years on Record) 23] divided by [(Number of Historical Events) 83] = .28
- It can be reasonably assumed that this type of event has occurred nearly three times per year in Warren County.

Flood Risk by location:

Most known floodplains in the United States have been mapped by FEMA, which administers the National Flood Insurance Program (NFIP). When a flood study is completed for the NFIP, the information and maps are assembled into a Flood Insurance Study (FIS). A FIS is a compilation and presentation of flood risk data for specific water courses, lakes, and coastal flood hazard areas within a community and includes causes of flooding.

The National Flood Insurance Program (NFIP), for which Flood Insurance Rate Maps (FIRM) are published, identifies the 1% annual chance flood. This 1% annual chance flood event is used to delineate the Special Flood Hazard Area (SFHA) and identify Base Flood Elevations. Figure 16 illustrates these terms. The SFHA serves as the primary regulatory boundary used by FEMA and Warren County.

Figure 16: Base Flood Elevation Illustration (Source: FEMA)



Warren County has several building codes and development regulations in place to reduce flood risk for new construction, substantial improvements, or other man-made changes. The Warren County Building Department, as the floodplain administrator for the County, determines if new construction must meet certain flood zone construction criteria.

The Building Department has authority to perform Flood Zone Determinations per Flood Damage Prevention Resolution, Sections 307.37 and 307.85. Upon application for a development permit, the application and plans are reviewed to determine whether the site of the proposed structure is within any Special Flood Hazard Area (SFHA) designated by FEMA on regulatory Flood Insurance Rate Maps (FIRMs).

The following displays communities in Warren County and their status of participation in NFIP. Source: FEMA

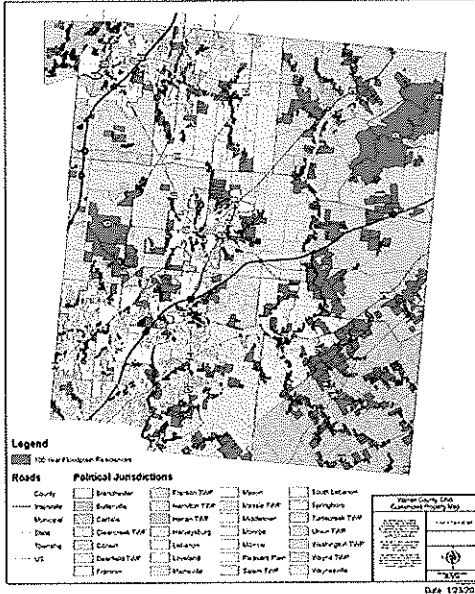
Jurisdiction	NFIP Participation	CID # (Community Identifier)
Village of Bulterville	No (structures are not in flood hazard area)	390719#
Village of Carlisle	Yes	390606B
Village of Corwin	No (structures are not in flood hazard area)	390555#
City of Franklin	Yes	390556B
Village of Harveysburg	No (structures are not in flood hazard area)	390833#
City of Lebanon	Yes	390557#
Village of Maineville	No (structures are not in flood hazard area)	390934#
City of Mason	Yes	390559#
City of Monroe	Yes	390042B
Village of Morrow	Yes	390561#
Village of Pleasant Plain	No (structures are not in flood hazard area)	unknown
Village of South Lebanon	Yes	390563#
City of Springboro	Yes	390564#
Village of Waynesville	Yes	390565#
Warren County	Yes	390757B

FEMA produces flood maps that display risks to structures in the 100-year and 500-year floodplains. Warren County Graphic Information Systems (GIS) department produced maps displaying the risks to Warren County Residents.

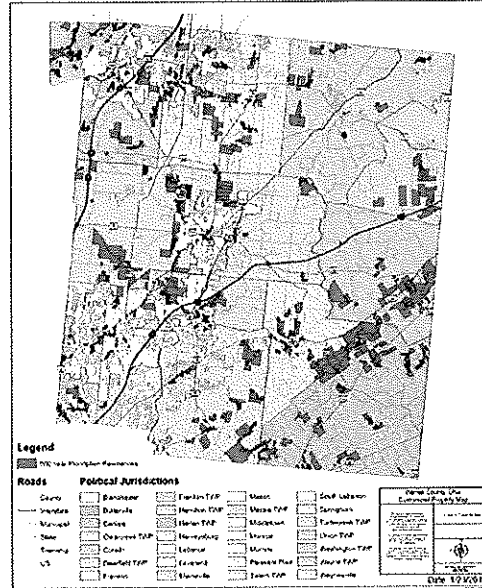
See Appendix 3 for larger map

See Appendix 4 for larger map

Residences in 100 Year Floodplain



Residences in 500 Year Floodplain



DAMAGES FROM FLOODS:

Damages related to flooding on the Little Miami and Great Miami Rivers can be found in Figures 13,14, and 15 (on pages 44-45).

Damage Extent:

Spatial Extent	
Localized or Wide-Spread, depending on type and severity	
Estimated losses	
According to the State of Ohio Hazard Mitigation Plan, A Hazus Level 2 run on a 100-year flood event estimates Warren County will have 886 structures affected with an estimated building loss of \$31,784,842.00.	
Critical Infrastructure Affected	
Critical infrastructure located in low-lying areas or near waterways will most likely be affected by flooding. This could include critical facilities, utilities, and services. According to the State of Ohio Hazard Mitigation Plan, there are 16 state-owned critical facilities in the 100-year floodplain that could be affected by a 100-year flood.	

WARNING:

The National Weather Service has multiple levels of warning the public for possible floods:

- **Flood Watch** - A Flood Watch is issued to indicate current or developing conditions that are favorable for flooding. A watch is typically issued within several hours to days ahead of the onset of possible flooding. In situations where a river or stream is expected to be the main source of the flooding, forecast confidence may allow for a Flood Watch to be issued several days in advance.
- **Flash Flood Watch** – Flash Flood Watch is issued to indicate current or developing conditions that are favorable for flash flooding. The occurrence is neither certain nor imminent. A watch is typically issued within several hours to days ahead of the onset of possible flash flooding.
- **Flood Advisory** - A Flood Advisory is issued when a flood event warrants notification but is less urgent than a warning. Advisories are issued for conditions causing significant inconvenience, and if caution is not exercised, could lead to situations that may threaten life and/or property.
- **Flood Warning** - A Flood Warning is issued to inform the public of flooding that poses a serious threat to life and/or property. A Flood Warning may be issued hours to days in advance of the onset of flooding based on forecast conditions. Floods occurring along a river usually contain river stage (level) forecasts.
- **Flash Flood Warning** - A Flash Flood Warning is issued to inform the public, emergency management and other agencies that flash flooding is in progress, imminent, or highly likely. Flash Flood Warnings are urgent messages as dangerous flooding can develop very rapidly, with a serious threat to life and/or property. Flash Flood Warnings are usually issued minutes to hours in advance of the onset of flooding.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF FLOODS:

The following factors will affect the severity of a flood:

- **Impermeable surfaces:** Excessive amounts of paved areas or other surfaces upstream or in the community can increase the amount and rate of water runoff. Development affects the runoff of stormwater and snowmelt when buildings and parking lots replace natural vegetation, which would normally absorb water.
- **Steeply sloped watersheds:** In hilly and mountainous areas, a flood may occur after heavy rain.
- **Constrictions:** Re-grading or filling within or on the edge of floodplains obstructs flood flows, backing up floodwaters onto upstream and adjacent properties.
- **Obstructions:** Bridges, culverts, and other obstructions can block flood flow and trap debris, causing increased flooding upstream and increased velocity downstream.
- **Debris:** Debris from the watershed, such as trees, rocks, and parts of damaged buildings increases the hazard possessed by moving water.
- **Contamination:** Water will pick up whatever was on the ground within the floodplain, such as soil, road oil, farm and lawn chemicals, and animal waste. It can also be caused by inundated wastewater treatment plants, and the presence of hazardous material storage in the flood plain.
- **Soil saturation:** Rainfall in areas already saturated with water will increase runoff.
- **Velocity:** High velocity flooding (with the speed of moving water greater than 5 feet per second) can erode stream banks, lift buildings off their foundations, and scour away soils around bridge supports and buildings.

4.3 TORNADOES

DEFINITION:

A tornado is a violently rotating column of air extending from a thunderstorm to the ground. Thunderstorms and hurricanes spawn tornadoes when cold air overrides a layer of warm air, causing the warm air to rise rapidly. The winds produced from hurricanes, earthquake induced fires, and wildfires have also been known to produce tornadoes. Tornadoes develop very rapidly and may dissipate just as quickly. Most tornadoes are on the ground for less than 15 minutes.

Tornado season generally runs from March through August; however, tornadoes can strike at any time of the year if the essential conditions are present. (Reference the National Weather Service – Tornado Definition)

PRIMARY SOURCES OF INFORMATION:

- National Weather Service - <https://www.weather.gov/safety/tornado>
- Past Data - <https://w2.weather.gov/climate/index.php?wfo=>

DESCRIPTION:

EF Scale Number	Wind Speed (MPH)	Type of Damage Possible
EF0	65-85	Minor damage: Peels surface (shingles, metal strips, etc.) off some roofs; some damage to gutters or siding; branches broken off trees; shallow-rooted trees pushed over. Confirmed tornadoes with no reported damage (i.e., those that remain in open fields) are always rated EF0
EF1	86-110	Moderate damage: Roofs severely stripped; mobile homes overturned or badly damaged; loss of exterior doors; windows and other glass broken.
EF2	111-135	Considerable damage: Roofs torn off well-constructed houses; foundations of frame homes shifted; mobile homes destroyed; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.
EF3	136-165	Severe damage: Entire stories of well-constructed houses destroyed; severe damage to large buildings such as shopping malls; trains overturned; trees debarked; heavy cars lifted off the ground and thrown; structures with weak foundations blown away some distance.
EF4	166-200	Devastating damage: Well-constructed houses and whole frame houses completely leveled; cars thrown, and small missiles generated.
EF5	>200	Extreme damage: Strong frame houses leveled off foundations and swept away; automobile-sized missiles fly through the air in excess of 100 m (300 ft.); steel reinforced concrete structure badly damaged; high-rise buildings have significant structural deformation.

Previous tornado occurrences recorded for Warren County were recorded under the old Fujita Tornado Damage Scale. Damages for the old scale are listed below:

F Scale Number	Wind Speed (MPH)	Type of Damage Possible
F0	<73	Light damage: Some damage to chimneys; branches broken off trees; shallow-rooted trees pushed over; sign boards damaged.
F1	73-112	Moderate damage: Peels surface off roofs; mobile homes pushed off foundations or overturned; moving autos blown off roads.
F2	113-157	Considerable damage: Roofs torn off frame houses; mobile homes demolished; boxcars overturned; large trees snapped or uprooted; light-object missiles generated; cars lifted off ground.
F3	158-206	Severe damage: Roofs and some walls torn off well-constructed houses; trains overturned; most trees in forest uprooted; heavy cars lifted off the ground and thrown.
F4	207-260	Devastating damage: Well-constructed houses leveled; structures with weak foundations blown away some distance; cars thrown and large missiles generated.
F5	261-318	Incredible damage: Strong frame houses leveled off foundations and swept away; automobile-sized missiles fly through the air in excess of 100 meters (109 yds); trees debarked; incredible phenomena will occur.

HISTORY / OCCURRENCES:

Table 23: History of Recorded Tornado Events in Warren County

LOCATION	DATE	SCALE	DEATH	INJURY	PROPERTY DAMAGE	LOCATION	DATE	SCALE	DEATH	INJURY	PROPERTY DAMAGE
Warren Co.	6/26/1956	F1	0	0	\$2,500	Loveland Park	4/9/1999	F1	0	0	\$3,000,000
Warren Co.	5/22/1959	F0	0	0	\$2,500	Maineville	4/9/1999	F2	0	0	\$2,500,000
Warren Co.	5/10/1969	F3	0	10	\$250,000	Cozzadale	8/24/1999	F0	0	0	\$25,000
Warren Co.	4/3/1974	F4	0	0	\$250,000	Morrow	8/30/2005	F0	0	0	\$25,000
Warren Co.	4/3/1974	F2	0	9	\$2,500,000	Carlisle	7/11/2006	F1	0	0	\$200,000
Warren Co.	5/18/1974	F1	0	0	\$25,000	Maineville	7/11/2006	F0	0	0	\$10,000
Warren Co.	4/2/1975	F2	0	3	\$2,500,000	Blackhawk	3/23/2012	EF0	0	0	\$20,000
Warren Co.	6/24/1976	F0	0	0	\$250,000	Lebanon	5/1/2012	EF0	0	0	\$5,000
Warren Co.	10/1/1977	F0	0	0	\$250,000	Genntown	5/1/2012	EF0	0	0	\$10,000
Warren Co.	6/2/1990	F4	0	0	\$25,000,000	Harlan Twp	5/23/2012	EF0	0	0	
Warren Co.	9/14/1990	F2	0	4	\$2,500,000	Clarksville	5/23/2012	EF0	0	0	
Warren Co.	8/20/1991	F0	0	0	\$25,000	Harveysburg	5/24/2017	EF0	0	0	
Warren Co.	7/12/1992	F1	0	0	\$250,000	Waynesville	5/24/2017	EF1	0	0	
Totals									0	26	\$39,595,000

PROBABILITY OF OCCURRENCE/ RISK:

[historical year where tracking began (1956)] subtracted by [current year (2019)] = 63 Years on Record

[Years on Record (63)] divided by [number of historical events (26)] = 2.42

It can be reasonably assumed that this type of event has occurred once every 2.42 years from 1956 - 2019.

Probability of Type per occurrence:

EF0	EF1	EF2	EF3	EF4	EF5
48%	24%	16%	4%	8%	<1%

DAMAGES FROM TORNADES:

	EF0	EF1	EF2	EF3	EF4	EF5
House	Loss of roof covering material, gutters or awning, loss of metal siding	Broken glass in doors and windows, Uplift or roof deck and loss of roof covering material (<20%), collapse of chimney, garage doors collapse inward, failure of porch or carport.	Entire house shifts off foundation, large sections of roof structure removed, most walls remain standing.	Most walls collapse except small interior rooms.	All walls collapse.	Destruction of engineered and/or well-constructed residence; slab swept clean.
Institutional Buildings	Minor visible damage.	Loss of roof covering (<20%), damage to penthouse roof and walls, loss of rooftop HVAC equipment, broken glass in doors or windows.	Uplift of lightweight roof deck & insulation, significant loss of roofing material (>20%), Façade components torn from structure, damage to curtain walls/ other wall cladding.	Uplift or precast concrete roof slabs, uplift of metal deck with concrete fill slab, collapse of some top building exterior.	Significant damage to building.	Significant damage to building envelope.

	EF0	EF1	EF2	EF3	EF4	EF5
Educational Institutions	Minor visible damage. Loss of Roof covering (<20%).	Broken windows, exterior door failures, uplift of metal roof decking, significant loss of roofing material (<20%); loss of rooftop HVAC.	Collapse of tall masonry walls at gym, cafeteria, or auditorium. Uplift or collapse of light steel roof structure.	Collapse of exterior walls on top floor. Most interior walls of top color collapse.	Total destruction of a large section of building envelope.	
Electric Transmission Lines	Minor visible damage.	Broken wood or cross member	Wood poles leaning	Broken wood poles		

Damage extent:

Spatial Extent
Localized to tornado path
Estimated losses
According to the State of Ohio Hazard Mitigation Plan, the average estimated losses per tornado event equals approximately \$3million to state owned or leased facilities. The State estimates that based on the probability of future events, estimated ANNUAL losses from tornadoes in Warren County will equal approximately \$1.5 million. It can be reasonably assumed that the damages to public and private entities could equal as much from the effects of tornadoes.
Critical Infrastructure Affected
Potentially all critical facilities, utilities, and services could be affected in a localized area from a tornado event. Critical utilities are most likely to be affected by the impacts from tornadoes.

WARNING:

The National Weather Service has two levels of warning the public for possible tornadoes:

- **Tornado Watch** - Tornadoes are possible in and near the watch area. Watches are issued by the Storm Prediction Center for counties where tornadoes may occur. The watch area is typically large, covering numerous counties or even states.
- **Tornado Warning** – A tornado has been sighted or indicated by weather radar, thus implying imminent danger to life and property. Warnings are issued by the local forecast office (for Warren County that is the National Weather Service Office in Wilmington, Ohio). Warnings typically encompass a much smaller area around the size of a town or small county.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF TORNADOES:

The nature of tornadoes is that they strike at random. While it is known that some areas of the country experience tornadoes more than others, predicting exactly what parts of the community have a greater chance of being struck by a tornado is difficult. Homes and businesses may be built in accordance with local building codes that consider the effects of minimum design wind speeds for the local area. In most inland tornado-prone regions, the building-code design wind speed is 115mph.

Ohio has been determined to be prone to high wind speed hazards as depicted by the American Society for Engineers (ASCE) design wind speed map (shown in graphic).

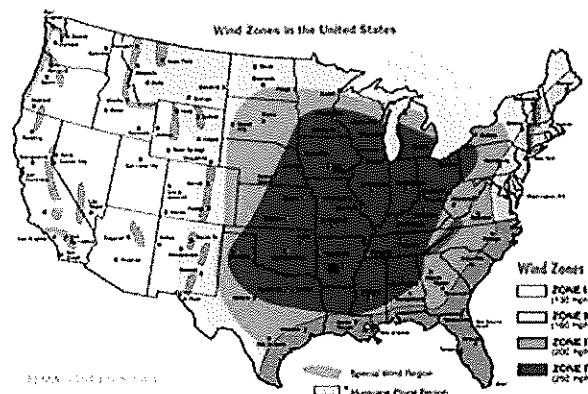


Figure 17: Wind Zones in the United States

4.4 HAZARDOUS MATERIALS INCIDENTS

DEFINITION:

According to the Ohio Environmental Protection Agency, hazardous materials can be defined in different ways depending upon the law or regulation administered by the Environmental Protection Agency (EPA), the Occupational Safety and Health Administration (OSHA), the Department of Transportation (DOT), and the U.S. Nuclear Regulatory Commission (NRC).

- The Institute for Hazardous Materials Management defines hazardous materials as “any item or agent (biological, chemical, radiological, and/or physical), which has the potential to cause harm to humans, animals, or the environment, either by itself or through interaction with other factors.”
- OSHA’s definition includes any substance or chemical which is a health hazard or a physical hazard, including carcinogens, toxic agents, irritants, corrosives, and sensitizers, as well as agents that interact to be harmful to the human body, explosive, or flammable.
- The EPA’s definition includes the OSHA definition. It adds any item or chemical which can cause harm to people, plants, or animals when released into the environment.
- The DOT defines hazardous materials as any item or chemical which, when being transported or moved in commerce, is a risk to public safety or the environment.

PRIMARY SOURCES OF INFORMATION:

- *Institute of Hazardous Materials Management* - <https://www.ihmm.org/about-ihmm/what-are-hazardous-materials>
- *Occupational Safety and Health Administration* - <https://www.osha.gov/laws-regs/standardinterpretations/1996-11-07>
- *Environmental Protection Agency* - <https://www.epa.gov/sites/production/files/2014-09/documents/cleanrt10.12.distiller.complete.pdf>
- *ODOT* - <https://www.fmcsa.dot.gov/regulations/hazardous-materials/how-comply-federal-hazardous-materials-regulations>

DESCRIPTION:

Hazardous materials are present countywide, and risk is primarily associated with the transport of materials by highway and/or rail. As found in the 2019 Warren County Hazardous Materials Annex of the Emergency Operation Base Plan, there are 158 sites within the county that store/utilize hazardous materials.

HISTORY / OCCURRENCES:

Warren County has not experienced a significantly large-scale hazardous material incident at a fixed site or during transport that resulted in multiple deaths or serious injuries, although there have been many minor releases that have put local firefighters, hazardous materials teams, emergency management, and local law enforcement into action to try to stabilize these incidents and prevent or lessen harm to Warren County residents.

Table 24: History of Recorded Hazardous Materials Incidents in Warren County

Location	Date	Description of Incident
25 Jacamar Court, Springboro	2/4/2015	Large structure fire occurred at a house with numerous hazardous chemicals inside. Site became a USEPA Superfund site. Took 2 months and \$386,000 to clean up.
I-71 SB MM 24.6	8/30/2016	Semi fire resulted in unknown amount of diesel fuel spilled and saturated a 16' diameter area of grass to a depth of 1"
Lebanon, Ohio	11/3/2016	Superservice tractor involved in single vehicle accident, approximately 100 gallons of diesel fuel spilled onto roadway, creek and a concrete drainage line to a retention pond at Superservice Lebanon Ohio.
Harlan Twp.	8/2/2017	Approximately 100 gallons diesel fuel spilled
8500 Claude Thomas Rd, Franklin Ohio	8/8/2017	Unknown amount of asphalt/bitumen spilled
Tradewinds Beverage, Carlisle Ohio	8/22-8/23/2017	Diluted acid and alkali solution, high TDS water from reverse osmosis condensate, water softener backflush leaked into a patch of grass next to building, vegetation impacted.
Speedway at Kings Mills Rd., Mason Ohio	9/28/2017	Approximately 30 gals. Of fuel spilled.

Location	Date	Description of Incident
9691 Waterstone Blvd. Deerfield Twp. Ohio	7/12/2018	815 lbs. of unknown chemical released due to a fire
Franklin-Trenton Rd. (North Well Field)	9/7/2018	Hazmat incident. Mixing of chemicals.
3000 Henkle Dr. Lebanon Ohio	10/2/2018	300 gallons of unknown chemical spilled
327 Industrial Dr. Franklin Ohio	11/7/2018	350 Gallons of paint into waterway
7250 Franklin-Trenton Rd. Franklin Ohio	3/29/2019	Approximately 30 gallons. Drilling fluid released into low flow waterway
106 Cross Creek Ln, Hamilton Twp.	4/2/2019	20 gallons of cutting oil spilled
5234 SR 63 Turtlecreek Twp.	5/21/2019	100 gallons diesel fuel spill
MM 29, I-75. City of Monroe	6/6/2019	90 gallons diesel fuel spill
1852 Socialville Fosters Rd. Deerfield Twp.	8/14/2019	25000 gallons sewage
2159 (4859) Blk Nixon Camp Rd. Salem Twp.	9/26/2019	135 gallons transformer oil

*Data is from 2015 – fall 2019

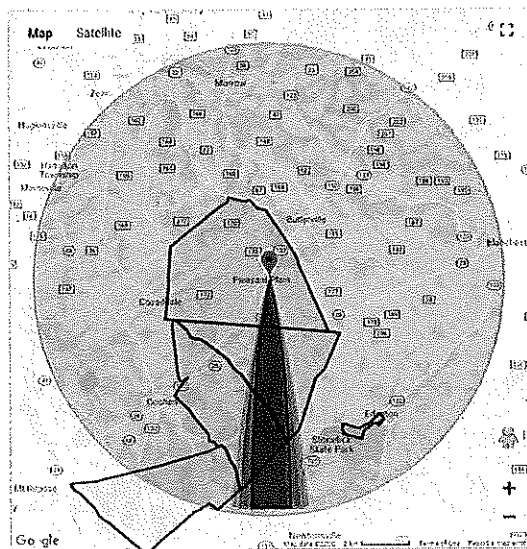
PROBABILITY OF OCCURRENCE / RISK:

Incidents involving releases of hazardous materials are not assigned a probability of occurrence like natural hazard, however, past data can be used to characterize the likelihood of future incidents. Based on data, Warren County has a high likelihood of having a release of hazardous materials. Sources of these incidents could be transportation routes, fixed facilities, pipelines, illegal dumping, chemical misapplication, illegal drug labs, and incidents caused by natural occurrences.

DAMAGES FROM HAZARDOUS MATERIALS EVENTS:

The most hazardous chemical in Warren County is Anhydrous Ammonia, stored at a facility in the Pleasant Plain area. Given a release of this chemical over a one-hour period, the following areas (shown in figure 18) would be affected:

Figure 18: Plume modeling of Anhydrous Ammonia leak



This plume model includes clear weather with a release over 60 minutes. The plume includes 7,541 residents, 7,525 households, and 11 blocks of affected area. This affected area also includes numerous businesses, equestrian stables, a farm, and a private airport.

Damage Extent:

Spatial Extent
Localized
Estimated losses
It is difficult to estimate losses from a hazardous materials event due to the variables including chemical(s) involved, duration of exposure, and cascading effects from a release or accident. For the scenario above, if houses were to become damaged from impacts of a release the estimated cost (based on the number of households and the median house value for Pleasant Plain would equal approximately \$300,000.
Critical Infrastructure Affected
There could be critical facilities and service affected by a hazardous materials event. Critical infrastructure could also be affected should the incident occur on rail or highway.

WARNING:

Since hazardous materials events are usually the result of accident or malfunction, there is typically little-to-no warning when an event is going to occur. If threats of an event are present, the state or regional fusion center will share intelligence with the proper authorities responsible for public safety.

Based on Warren County Hazardous Materials plan there are three levels of hazardous material response. Based upon the level of response the public will be given warning of hazardous materials events via the following methods:

- Emergency Alert System (EAS)
- Integrated Public Alert & Warning System (IPAWS)
- Local Media

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF HAZARDOUS MATERIALS EVENTS:

Based on the Warren County Hazardous Materials plan the following will affect the severity of a hazardous material incident:

- Time of day: Affects the population and number of commuters within Warren County. During normal business hours there may be a higher number of individuals affected by a hazardous materials release.
- Weather: Can positively or negatively affect a hazardous materials release based on type of chemical and type and severity of weather.
- Geography: Terrain and waterways can affect how contaminates or spills move through the affected area. Warren County also has rural, suburban and urban areas, which can affect the movement of hazardous materials releases and/or the affected population.

Examples of mitigation actions for hazardous materials that your jurisdiction can do:

- Jurisdictional Fire Inspections of facilities that contain hazardous materials.
- Training between first responders and chemical facilities for response to a chemical incident.
- Maintaining up to date SDS sheets.

4.5 WINTER STORMS

DEFINITION:

A winter storm is a combination of heavy snow, blowing snow, and/or dangerous wind chills. Winter storms can be life-threatening.

PRIMARY SOURCES OF INFORMATION:

National Weather Service - <https://www.weather.gov/safety/winter>

Past Data - <https://w2.weather.gov/climate/index.php?wfo=iln>

NOAA Storm Events Database - <https://www.ncdc.noaa.gov/stormevents/>

DESCRIPTION:

- **Blizzards** – dangerous winter storms that are a combination of blowing snow and wind that cause very low visibility. Can be caused by heavy snowfalls or by strong winds that pick-up snow that has already fallen, creating a ground blizzard.
- **Ice Storm** – results in an accumulation of at least .25" of ice on exposed surfaces.
- **Snow Squalls** – brief, intense snow showers accompanied by strong, gusty winds. Usually last for short duration and cause whiteout visibility and rapidly deteriorating road conditions.
- **Freezing Rain** – occurs when the layer of freezing air is so thin that the raindrops do not have enough time to freeze before reaching the ground. Instead, the water freezes on contact with the surface, creating a coating of ice on whatever the raindrops contact.

HISTORY / OCCURRENCES:

The National Centers for Environmental Information and the National Weather Service Office in Wilmington have identified significant winter storm events between 1996 and 2018.

Table 25: History of Recorded Winter Storm Events in Warren County

Date	EVENT TYPE	DEATHS	INJURIES	Property Damage	Crop Damage	EVENT NARRATIVE
1/4/1996	Heavy Snow	0	0	\$4,000	\$0	A quick moving Alberta Clipper system brought around 4" of light and fluffy snow to a portion of southern Ohio between Dayton and Cincinnati.
1/6/1996	Winter Storm	0	0	\$500,000	\$0	Developed near the Gulf Coast and moved up the East Coast. System produced 14.3" of snowfall in the Greater Cincinnati Area. Some areas had 30 continuous hours of snowfall.
1/11/1996	Heavy Snow	0	0	\$1,000	\$0	A fast-moving low-pressure system tracked from the Mid-Mississippi Valley to the KY-TN border. Total wet snow accumulations were near 4".
3/6/1996	Ice Storm	0	0	\$0	\$0	Roadways became coated with a layer of ice, and then light snow fell on the ice making it difficult for drivers to see the ice in many locations. Numerous accidents occurred over a large area. An eight car and truck pileup occurred on a bridge in Warren county, closing the bridge for a few hours.
1/24/1997	Ice Storm	0	0	\$0	\$0	A strong surge of moisture moved north into the Ohio valley during the morning hours. Temps were at or just below the freezing mark for several hours while rain fell. Roads quickly became icy during the morning rush hour causing numerous traffic accidents. Several roads were closed due to one-quarter inch of ice accumulation.
3/9/1999	Heavy Snow	0	0	\$0	\$0	Low pressure brought abundant moisture northward into an arctic air mass producing very heavy snow. The heaviest snow fell between midnight and 8:00 am with snowfall rates of 1 to 2 inches an hour at times. Accumulations ranged from 5 to 10 inches.
1/19/2000	Heavy Snow	0	0	\$0	\$0	A fast-moving low-pressure system brought a band of heavy snow across central and southern Ohio. Many locations received 5 to 6 "with the NE corner of Warren County receiving 6-7".
1/19/2000	Heavy Snow	0	0	\$0	\$0	A fast-moving low-pressure system brought a band of heavy snow across central and southern Ohio. Many locations received 5 to 6 "with the NE corner of Warren County receiving 6-7".
12/13/2000	Ice Storm	0	0	\$0	0	A weak low-pressure system brought freezing rain to the region. Widespread ice accumulations of one-quarter to one-half inch of ice occurred.
12/22-24/2004	Heavy Snow	0	0	2.2M	0	Swath of heavy snow cut across Ohio valley. Snowfall totals for 24-hour period exceeded 12" in some portions of Warren County.
2/6/2007	Heavy Snow	0	0	\$0	0	7" of snow was measured in both Morrow and Lebanon.
2/13/2007	Ice Storm	0	0	\$0	0	A quarter to a half inch of ice was measured in Lebanon and Maineville. Thousands of trees were damaged and numerous power outages occurred.
4/6/2007	Frost/ Freeze	0	0	\$0	\$540,000	Unseasonably warm temperatures for an extended period in March allowed much of the Ohio Valley to begin its agricultural growing season early. In early April, a cold snap with low temperatures dropping into the low 20s caused crops to freeze. The initial estimate of 16.74 million in crop damage was split evenly between 31 Ohio counties.
1/27/2009	Heavy Snow	0	0	\$0	0	Mason measured 9.6" of snow. Ice accumulations across the county ranged from 4/10" to 8/10".
2/3/2009	Heavy Snow	0	0	\$0	0	7.5" of snow fell in Mason, while only an inch and a half was measured in Lebanon.
2/5/2010	Heavy Snow	0	0	\$0	0	Snow ranged from 3.8" in the south at Landen and Kings Mills, to 4" in Mason, up to 6" at the county garage in Lebanon and 8.5" to the north in Springboro.
2/9/2010	Heavy Snow	0	0	\$0	0	The county garage in Lebanon measured 7.5" of snow. A NWS employee in Maineville measured 7", and 6.4" fell in Kings Mills.
2/15/2010	Heavy Snow	0	0	\$0	0	The county garage in Lebanon measured 8" of snowfall. A spotter measured 5.8" in Landen.
1/11/2011	Heavy Snow	0	0	\$0	0	An employee located west of Clarksville measured 6.1" of snowfall. Law enforcement in Lebanon measured 5". A spotter located 2 miles northeast of Springboro measured 3.5" of snowfall.
1/20/2011	Heavy Snow	0	0	\$0	0	An employee in Maineville measured 5.5" of snowfall. 5" fell at the ODOT garage in Lebanon, while spotters in Lebanon and Mason measured 4.5" and 4.4" of snow, respectively.
2/1/2011	Ice Storm	0	0	\$0	0	½" of ice was measured 3 miles south of Springboro. In and around Lebanon, NWS employees measured ¼" and 3/10" of ice.

Date	EVENT TYPE	DEATHS	INJURIES	Property Damage	Crop Damage	EVENT NARRATIVE
1/21/2013		0	10	\$2,200,000	\$0	A highly unstable air mass produced deep convective snow showers that produced snow squalls during the late morning into the afternoon. These isolated squalls caused whiteout conditions on area roadways. Four major pileups resulted in over 175 vehicle crashes on the interstate system, causing numerous injuries and one fatality. A 52-car pileup on I-75 between Cincinnati and Dayton occurred between the Middletown and Monroe exits and injured 10 people.
2/20/2015	Heavy Snow	0	0	\$0	\$0	A winter storm that dropped up to 7" in the Warren County area resulted in a downed power line in the Waynesville area. This line caused more than 2,100 customers in Waynesville and Spring Valley to lose power. The power restored within 5 hours of the crews being dispatched.
11/14/2018	Ice Storm	0	0	\$0	\$0	An employee reported large branches down near Harveysburg. ¼" of ice was measured in both Clarksville and Genntown with several large branches down. The CoCoRaHS observer south of Mason measured 3/10" of ice, as did a spotter in Maineville and social media report from Landon.
Totals		0	10	\$2,035,000	\$540,000	

*There has been 1 Federal Disaster Declaration on record that included Warren County related to Snow Removal

PROBABILITY OF OCCURRENCE / RISK:

Criteria for NWS to issue an alert requires at least 4" of snow or greater or ¼" ice or greater covering at least 50% of the county or encompassing most of the population.

According to the National Weather Service, a review of the last five years of recorded events shows that there have been 11 instances of 4" of snow or greater and 1 instance of ¼" of ice or greater. (Note: alert issuances are not necessarily considered "significant events" as listed above in the history section).

[historical year where tracking began (2013)] subtracted by [current year (2019)] = 6 Years on Record
 [Years on Record (6)] divided by {number of historical events (12)} = .5

It can be reasonably assumed that this type of event has occurred twice every year from 2013 through 2019.

DAMAGES AND IMPACTS FROM WINTER STORMS:

Winter storms can affect roadways, utilities, the economy, and can cause loss of life, frostbite, and freezing conditions. Winter storms can also cause loss of power, impassible roads, and employee unavailability which could affect operations of critical facilities. Cascading effects from winter storms could also include flooding (following significant snow melts) and ice jams (that occur when a rapid melt follows an ice event).

While cold temperatures and power losses can render a structure uninhabitable for a time, they are unlikely to cause structural damages. Snow and ice accumulation, however, can impact structures and infrastructure. Older structures, those constructed before 1970 in particular, are more susceptible to the impacts from winter weather due to older construction and insulation methods.

Damage Extent:

Spatial Extent
Localized or Wide-Spread, depending on type and severity of storm
Estimated losses
According to the State of Ohio Hazard Mitigation Plan, the estimated annual damages in Warren County from a winter storm event equal approximately \$322,000. Damages to state owned or leased critical facilities caused by winter storms could equal approximately \$150 million. Since damages would be widespread from winter weather events, it can be reasonably assumed that damages to public and private property could average between \$322,000 up to \$150 million (or greater depending on the event).
Critical Infrastructure Affected
Critical utilities are the most likely to be impacted by winter storm events due to freezing or heavy snow. Critical services may be impacted by winter storms if infrastructure such as roads and bridges are impassible. Critical facility operations may be impacted, but the likelihood of building damages to critical facilities due to winter storms remains low

WARNINGS:

The National Weather Service issues the following warnings for Winter Storms:

Advisories: Be Aware

- **Winter Weather Advisory** - issued when snow, blowing snow, ice, sleet, or a combination of these wintry elements is expected but conditions should not be hazardous enough to meet warning criteria.
- **Freezing Rain Advisory** - issued when light ice accumulation (freezing rain and/or freezing drizzle) is expected but will not reach warning criteria. Expect a glaze on roads resulting in hazardous travel.

Watches: Be Prepared

- **Blizzard Watch** - issued when there is a potential for falling and/or blowing snow with strong winds and extremely poor visibilities. This can lead to whiteout conditions and make travel very dangerous.
- **Winter Storm Watch** - issued when conditions are favorable for a significant winter storm event (heavy sleet, heavy snow, ice storm and blowing snow or a combination of events.)

Warnings: Take Action

- **Blizzard Warning** - issued for frequent gusts greater than or equal to 35 mph accompanied by falling and/or blowing snow, frequently reducing visibility to less than 1/4 mile for three hours or more. A Blizzard Warning means severe winter weather conditions are expected or occurring
- **Winter Storm Warning**- issued for a significant winter weather event including snow, ice, sleet or blowing snow or a combination of these hazards. Travel will become difficult or impossible in some situations.
- **Ice Storm Warning** - issued for ice accumulation of around 1/4 inch or more. This amount of ice accumulation will make travel dangerous or impossible and likely lead to snapped power lines and falling tree branches. Travel is strongly discouraged.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF A WINTER STORM:

El Niño and La Niña are weather patterns that occur every few years. The water temperatures associated with these weather patterns can push warmer or colder air through the jet streams toward different parts of the country.

El Niño and La Niña patterns can affect winter conditions in the Ohio Valley. Because of its geographic location, Warren County can be susceptible to warmer, drier conditions in El Niño years and wetter, warmer winters in La Niña patterns.

4.6 MAN-MADE / TERRORISM EVENTS

DEFINITION:

According to the Federal Bureau of Investigation (FBI), domestic terrorism is violent, criminal acts committed by individuals and/or groups to further ideological goals stemming from domestic influences, such as political, religious, social, racial, or environmental nature. International terrorism includes violent, criminal acts by individuals and/or groups who are inspired by, or associated with, designated foreign terrorist organizations or nations.

PRIMARY SOURCES OF INFORMATION:

- *Federal Bureau of Investigation* - <https://www.fbi.gov/investigate/terrorism>
- *U.S. Department of Homeland Security* - https://www.dhs.gov/xlibrary/assets/prep_biological_fact_sheet.pdf

DESCRIPTION:

Terrorism or civil unrest events have generally been localized within a single jurisdiction. Coordinated events have occurred historically throughout the world, greatly expanding the number of affected jurisdictions. Based on the nature of the event, several jurisdictions may respond to an incident.

Below are different typed of terrorism:

- **Domestic terrorism** – Violent, criminal acts committed by individuals and/or groups to further ideological goals stemming from domestic influences, such as those of a political, religious, social, racial, or environmental nature.
- **Cyberterrorism:** is an electric attack using one computer system against another, and attack can be directed towards computers, networks, or entire systems. A cyber-attack may last minutes to days. Homeland Security, the FBI, the FCC, and the DOGJ are often involved in developing countermeasures that focus on reducing the threat, vulnerability, and the likelihood of attack.
- **Agroterrorism:** is a direct, generally covert contamination of food supplies or the introduction of pests and/or disease agents to crops and livestock. An agricultural-based terror attack can last days to months. (U.S. Department of Homeland Security)
- **Biological Attack:** is the intentional release of a pathogen (disease causing agent) or biotoxin (poisonous substance produced by a living organism) against humans, plants, or animals.
- **Chemical Terrorism:** includes the use of nerve agents, choking agents, blood agents, or blister agents, to attack normal bodily functions of the nervous, respiratory, circulatory, and skin, respectively. Usually, an act of chemical-based terror lasts only minutes.
- **Active Aggressor:** is an armed individual or group of individuals that is intending to cause harm or inflict terror on a civilian population. An active aggressor (or group) may be armed with guns, knives, bombs, or any other weapon/implement that may be used to inflict harm.
- **Civil Unrest** – Spontaneous disruption of normal, orderly conduct and activities in urban areas, or outbreak of rioting or violence that is of a large nature is referred to as civil unrest.

HISTORY / OCCURRENCES:

- On June 9th, 2016 an active shooter shot their father and a Sheriff Deputy before fleeing the scene.

PROBABILITY OF OCCURRENCE / RISK:

Because there is only one recorded terrorism event in Warren County, the probability of occurrence is low, however with societal issues on the rise the probability of a lone individual causing harm to the public is moderate.

DAMAGES AND IMPACTS FROM MAN-MADE / TERRORISM EVENTS:

There are many different types of terrorism with varying levels of impacts.

- Chemical incidents are unlikely to have significant effects on utilities and would cause minimal debris, however the effects to people and the environment could be widespread and significant.
- Biological incidents are unlikely to have significant effects on utilities and environment and would not likely cause any debris. These incidents would, however, have a significant impact on people, and could cause impacts on critical facilities such as hospitals and schools.
- Radiological incidents are unlikely to cause debris (unless tied to an explosive device). These incidents have the potential to cause large impacts on the environment, utilities, people, and critical infrastructure such as water systems.
- Nuclear incidents are unlikely to cause large amounts of debris; however, the effects are likely to have significant impacts on people, utilities, critical infrastructure, and the environment.
- Explosive incidents have the potential to impact utilities, people, critical infrastructure, and the environment. These incidents would cause debris, potentially in large amounts.

Damage Extent: this assessment will focus on explosive events.

Spatial Extent
Localized, unless critical utilities or waterways (lifelines) are affected.
Estimated losses
Estimating losses depends on the location and severity of the explosive device. Assuming the largest congregate employer in Warren County was targeted, the estimated losses for that building sustaining a large explosive attack would be between \$2-\$3 million.
Critical Infrastructure Affected
Potentially any critical infrastructure could be affected by the effects of man-made /terrorism events. Specific examples are listed above.

WARNING:

U.S. Department of Homeland Security will utilize the National Terrorism Advisory System (NTAS) alert to provide timely, detailed information to the public, government agencies, first responders, airports and other transportation hubs, and the private sector.

- NTAS Bulletins describe current developments or general trends regarding threats of terrorism
- NTAS Elevated Alerts warn of a credible threat against the United States.
- NTAS Imminent Alerts warn of credible, specific and impending terrorism threats against the United States.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE MAN-MADE / TERRORISM EVENTS:

Intelligence/information sharing via the Cincinnati fusion center can help mitigate a man-made incident by providing information gathering and recognition of indicators and warnings; intelligence analysis and production and intelligence and information sharing and dissemination.

4.7 INVASIVE SPECIES

DEFINITION:

- **Harmful Species** - are species that have potential negative impacts on the environment and economy. Harmful species are both native and invasive and can cause significant ecological, public health, or economic harm. The National Oceanic and Atmospheric Administration (NOAA) defines an invasive species as “an organism that causes ecological or economic harm in a new environment and is not native.” Their growth is often encouraged through human activity.
- **Land-dwelling (Terrestrial) Invasive Plants:** are non-native plants that grow in non-aquatic habitats, including agricultural fields, rangelands, forests, urban landscapes, wildlands, and along waterways.
- **Land-dwelling (Terrestrial) Invasive Vertebrates:** are non-native members of three subphylum vertebrata (animals with a backbone) who spend most of their lives on land.
- **Land-dwelling (Terrestrial) Invasive Invertebrates:** are animals that lack a vertebral column (backbone). Insects are the most common invasive terrestrial invertebrate, but it also includes other arthropods, mollusks (such as snails and slugs), and nematodes (roundworms).
- **Water-dwelling (Aquatic) Invasive Species:** are non-native plants, animals, and other organisms that have evolved to live primarily in water (aquatic habitats) rather than on land (terrestrial habitats).

PRIMARY SOURCES OF INFORMATION:

- Warren County Health District:
- <http://warrencounty.oh.networkofcare.org/ph/library/article.aspx?hwid=uf4420>
- <http://warrenchd.com/lyme-disease-cases-continue-to-increase-in-ohio>
- Ohio Department of Natural Resources - <http://ohiodnr.gov/invasivespecies>
- Ohio Department of Agriculture - <https://agri.ohio.gov/wps/portal/gov/oda/divisions/plant-health/invasive-pests/invasives>
- Ohio State University - <https://senr.osu.edu/extensionoutreach/invasive-species>

DESCRIPTION:

List of Invasive / Harmful Species found or have the potential to be found in Warren County

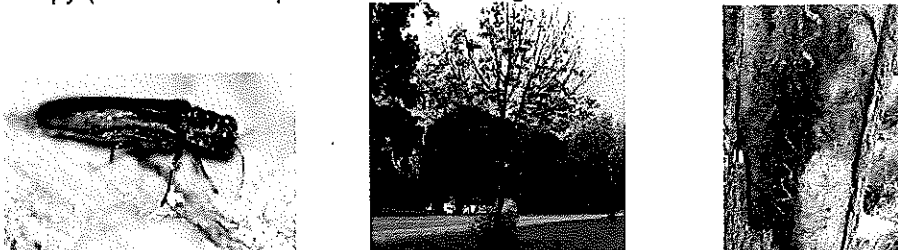
Harmful Species:	Invasive Land-Dwelling Invertebrates:
- Ticks*	- Emerald Ash Borer*
- Mosquitoes*	- Asian Long-horned Beetle*
Invasive Land-Dwelling Plants:	- Gypsy Moth*
- Honeysuckle (Amur*, Morrow, and Tartarion)	- Hemlock Woolly Adelgid
- Poison Hemlock	- Thousand Cankers Disease/Walnut Twig Beetles
Invasive Land-Dwelling Vertebrates	- Spotted Lantern Fly
- Feral Swine*	Invasive Water-Dwelling Species:
	- Zebra Mussel

*Description of Invasive/Harmful species impact included in this section *Red Text indicates species is in Warren County*

Below are examples of potential hazards, their descriptions, and associated impacts:

- ***Emerald Ash Borer (EAB)*** – is an invasive species that targets natural occurring and landscaped North American ash trees. The EAB can eliminate an entire tree species from forest or urban environments. Native ash borers typically target weakened ash trees, but the EAB can impact healthy trees of any age. Because the pest has established itself throughout all of Ohio, in July 2011 ODA lifted the quarantine regulations in place for emerald ash borer **within** the state. Ohio is still inside the Federal quarantine boundary, and the movement of EAB regulated articles cannot exit the quarantine boundaries without Federal permits.

The Emerald Ash Borer can be found in all parts of Warren County. They can be transported by affected logs or firewood being carried into an area. Ash borers usually attack a tree first in the upper parts of the canopy. The first signs of EAB attacks are vertical cracks in the bark, usually accompanied by woodpecker damage and canopy (leaves at the top of the tree) thinning. Under the loose bark there may be S-shaped tunnels.



- ***Gypsy Moth*** – is an invasive species that defoliates trees, and can impact oak, spruce, hemlock, and other trees, with oak trees being the preferred hosts. The gypsy moth is one of the most destructive insect pests threatening the forests and ornamental plants of Ohio. The impact of gypsy moths includes forest ecosystem degradation, economic losses to businesses, loss of recreational opportunities in areas severely defoliated, reduced private property values, and nuisance from gypsy moth caterpillars. Since 1990, the Ohio Department of Agriculture has been conducting gypsy moth suppression projects in the generally infested areas of the state, combined with pheromone trapping and eradication projects in areas not considered generally infested.

The gypsy moth caterpillars can be identified by five pairs of blue dots followed by six pairs of red dots lining their backs. They can be dispersed naturally with newly hatched caterpillars hanging from silken threads blowing in the wind to other trees, or they can be transported when an infested area of a car, recreational vehicle, lawn furniture, logs, nursery stock or other outdoor items are brought into the area.

Gypsy moth infestation could be determined by the number of insects on trees or the level of defoliation (missing leaves). The Gypsy moth has not yet been identified in Warren County, however multiple counties in Ohio have reported infestations and the spread is moving from Eastern toward Western Ohio.



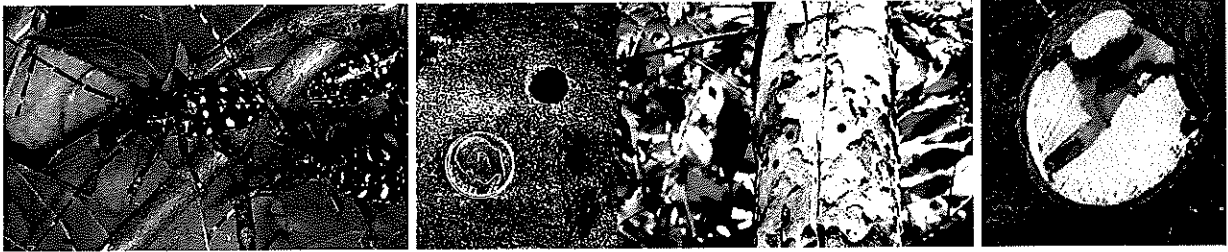
Source: Ohio Department of Agriculture

Examples of Damages

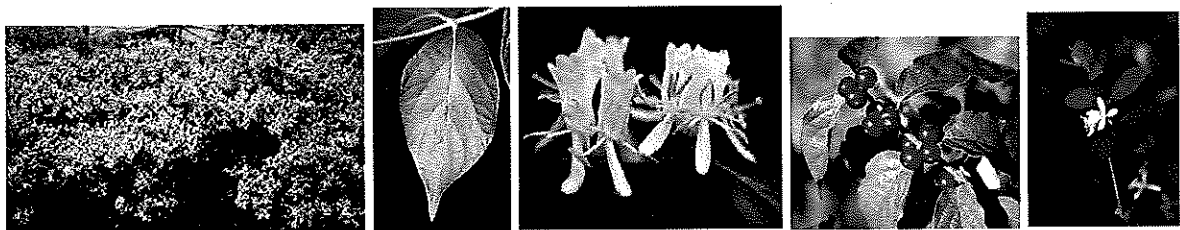
- ***Asian Longhorned Beetle*** - also known as the Asian cerambycid beetle. In June 2011, the first Ohio infestation in trees was discovered near the village of Bethel in Clermont County. The insect was previously found associated with solid wood packing and crating materials in warehouses located in Cincinnati, Columbus, and Loudonville. However, an infestation of living host trees has never been detected in these cities. ALB is a serious pest of hardwood trees in its native environment where it has few natural enemies. In the U.S., where no natural enemies exist, the insect is extremely destructive to our trees and forests. Beetles will attack both stressed and healthy trees, which makes them an even greater threat.

Asian longhorned beetles can be identified by their bullet shaped bodies, shiny black and white spots, and long striped antennae. Infestation of this pest can be identified by chewed round depressions in the bark of a tree, pencil-sized round tree holes, excessive sawdust buildup near tree bases, and unseasonable yellowed or drooping leaves. Tunneling will also be present in fallen branches or cut wood after the beetle has chewed and

laid its eggs in its tunnel channels. The Asian Longhorned Beetle can be transported to an area through transportation of firewood or logs, solid wood packing material, wood debris and trimmings, and other lumbers materials (even if beetles are not visible). *Source:USDA*



- Amur Honeysuckle** – is an invasive species that stands about 6-15 ft at maturity, stems have a hollow pith (center), pair of tubular flowers less than an inch long are borne along the stem in leaf axils. Amur Honeysuckle is a noxious woody shrub, introduced in southern Ohio in the late 1950s but is now rampant across the state and throughout much of the Eastern United States. Amur Honeysuckle has no significant disease or pest problem, however, it will take over an area within a few years of initial seeding, by a combination of its rapid growth rate, arching growth habit, and ability to prolifically reseed itself nearby. The only positive in terms of control is that its root system is shallow during the first several years of its life, so plants can literally be pulled up or dug out with relative ease, if caught early enough.



- Feral swine**- refers to the Eurasian Wild Boar and neglected domestic swine. While feral swine have not been reported in Warren County, they have been reported nearby and may find their way into the county. Potential impacts include the destruction of soybean and corn crops, damage to soil quality and root strength through rooting, degradation to water quality through wallowing which leads to silt and bacterial contamination of downstream waterways, predation on smaller, native animals, erosion of soil which can lead to the growth of invasive plant species and outcompeting native animals. *Source: Ohio State University extension office*

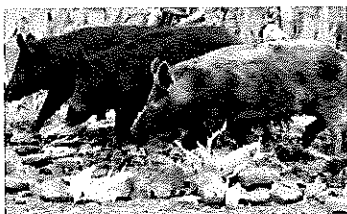


Figure 1. Feral swine.
Photo courtesy of USDA Wildlife Services.



Figure 6b. Rooting damage to corn.
Photo courtesy of USDA Wildlife Services.



Figure 8. Rooting damage to corn field.
Photo courtesy of USDA Wildlife Services.

- Mosquitoes**- West Nile virus is a type of virus that is spread by mosquitoes. The infection it causes may be so mild that people don't even know they have it. But in rare cases, West Nile leads to severe illness that affects the brain or spinal cord. People older than 50 are at the highest risk for serious problems from West Nile. Most people fully recover from West Nile. But some people who get a severe infection have permanent problems such as seizures, memory loss, and brain damage. A few people die from it.

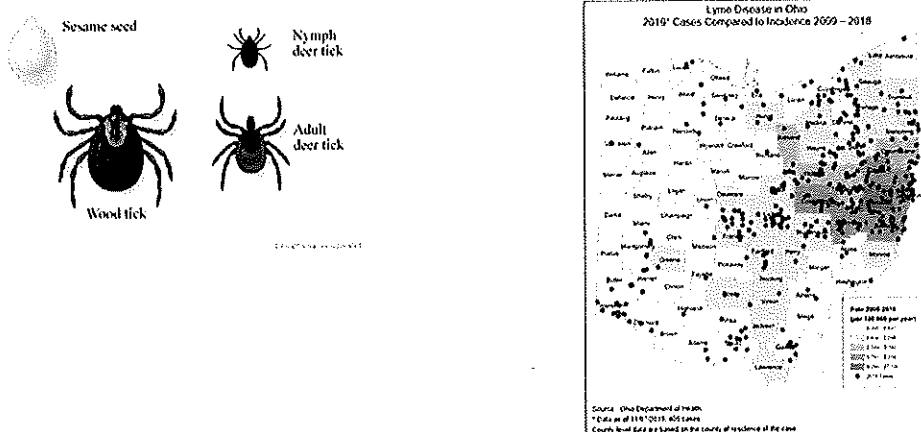
Most often, mosquitoes spread the virus by biting birds infected with the virus and then biting people. Mosquitoes can also spread the virus to other animals, such as horses. About 80 out of 100 people who have West Nile have no symptoms. When symptoms do appear, they start 2 to 15 days after the mosquito bite. Officials said there have been 429,516 mosquitoes submitted and 1,498 positive West Nile virus sample pools found statewide.

Warren County Health District traps and tests pools of mosquitos around the county annually. In 2018, there were 78 confirmed pools of West Nile Virus in pools of mosquitos. In 2019, there has been 1 reported positive

case of West Nile Virus (in Waynesville) from tested pools of mosquitos. The change in numbers can be attributed to hotter, dryer weather conditions that mitigated mosquito breeding grounds.

- **Ticks-** Ticks are small spiderlike animals (arachnids) that bite to fasten themselves onto the skin and feed on blood. Ticks live in the fur and feathers of many birds and animals. Tick bites occur most often during early spring to late summer and in areas where there are many wild animals and birds. Most ticks don't carry diseases, and most tick bites don't cause serious health problems, but it is important to remove a tick as soon as you find it. Removing the tick's body helps you avoid diseases the tick may pass on during feeding. Removing the tick's head helps prevent an infection in the skin where it bit you. Many of the disease's ticks carry cause flu-like symptoms, such as fever, headache, nausea, vomiting, and muscle aches. Symptoms may begin from 1 day to 3 weeks after the tick bite. Sometimes a rash or sore appears along with the flu-like symptoms. Ticks are found worldwide and can carry many diseases, such as Lyme disease.

There have been 21 confirmed cases of Lyme disease caused by tick bites between 2000 – 2016 (but there may be more that are unconfirmed). *Figure 19: Map of Lyme Disease Reports in Ohio (2009-2018)*



- **Zebra Mussel** - The zebra mussel is a small shellfish named for the striped pattern on its shell. However, color patterns can vary to the point of having only dark or light-colored shells with no stripes. This mussel is typically found attached to objects, surfaces, or other mussels by threads extending from underneath the shells. Although similar in appearance to the quagga mussel (*Dreissena bugensis*), the two species can be distinguished by their shell morphology. When placed on a surface, zebra mussels are stable on their flattened underside while quagga mussels, lacking a flat underside, will fall over.

Zebra Mussels are harmful bioengineers that spread quickly by way of attaching to watercraft that moves from place to place and by water currents. They are filter feeders, straining water for the food they need. Unwanted food is rejected and bound into pellets that, in heavily colonized areas, provide food for native as well as other aquatic invasive species. Large concentrations of Zebra mussels can also deprive water bodies of oxygen and nutrients needed to sustain certain ecosystems and species. Human impacts from zebra mussels can clog water intakes for municipalities and industries, foul boat hulls, motors, and water-related equipment. Damages can decrease property values. Sharp shells can litter beaches, cut feet, and affect recreation and tourism.

The Zebra mussel can be found in the Little Miami river watershed near the Warren/Hamilton County line and in Caesar Creek Lake. They have been partly implicated as a source of decline to Caesar Creek's native mussel population due to resource competition with the invasive species.



Source: USGS

HISTORY / OCCURRENCES

There is no history/data of invasive/harmful species causing a significant impact to Warren County.

PROBABILITY OF OCCURRENCE / RISK:

Because there is no history/data of invasive/harmful species causing a significant impact to Warren County, the probability of occurrence is very low.

DAMAGES AND IMPACTS FROM INVASIVE SPECIES:

The impacts from evasive species that could be in Warren County are listed in the species descriptions above.

Damage Extent:

Spatial Extent
Localized, but if left unmitigated could become widespread
Estimated losses
If deforestation is required due to invasive species, the estimated losses could be up to or exceed \$1 million.
Critical Infrastructure Affected
It is unlikely that critical infrastructure would be affected by an invasive species outbreak, however if water-borne species were introduced into the water supply or treatment areas, the impact could be great.

WARNING:

There are no warnings for harmful species. Lists of invasive species are available on the ODNR website <http://ohiodnr.gov/invasivespecies>. Members of the community that observe or have questions about an occurrence report your sightings to the ODA website <https://www.eddmaps.org/>

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF HARMFUL / INVASIVE SPECIES:

Warmer weather will increase the number of insects during the annual cycle. Most invasive species outbreaks are caused by accidental or intentional human activity. For mosquitos, warmer temperatures combined with increased rainy seasons increase water pools which are breeding grounds for mosquitos.

Examples of mitigation actions for invasive / harmful species that your jurisdiction can do:

- Work with local conservation organizations to provide public education about harmful / invasive species
- Removal of dead trees that could be a hazard to person and property
- Report suspected harmful /invasive species immediately to the proper authority so they can be checked and eradicated
 - Contact the Ohio University Extension Office for Warren County – 513-695-1311 or
 - Contact Warren County Soil and Water – 513-695-1337

4.8 DAM / LEVEE FAILURES

DEFINITION:

A dam is defined as a barrier constructed across a watercourse for the purpose of storage, control, or diversion of water. Dams typically are constructed of earth, rock, concrete, or mine tailings. A dam failure is the collapse, breach, or other failure, often resulting in down-stream flooding.

A levee is any artificial barrier that will divert or restrain the flow of a stream or other body of water for the purpose of protecting an area from inundation by flood waters. A levee breach results when a portion of the levee breaks away, providing an opening for water to flood the landward side of the structure.

PRIMARY SOURCES OF INFORMATION:

- National Inventory of Dams(USACE) <https://nid.sec.usace.army.mil/ords/f?p=105:1:.....>
- Ohio Department of Natural Resources <http://ohiodnr.gov/>

DESCRIPTION:

In the state of Ohio, the **Ohio Department of Natural Resources (ODNR)** has combined the description and potential damages of Dam Failures into one classification system. The potential downstream hazard is broken into four classes.

Dam Classification

- **Class I** – Total storage volume greater than 5,000-acre ft. or a height of greater than 60 ft. Sudden failure would result in probable loss of life, serious hazard to health, structural collapse of at least one residence or one commercial or industrial business.
*Class I dams must have an inundation study, Emergency Action Plan, and inundation maps.
- **Class II** – Total storage volume greater than 500-acre ft. or a height of greater than 40 ft. Sudden failure would result in disruption of public water supply or wastewater treatment facility, release of health hazard industrial or commercial waste or other health hazards, floodwater damage to homes, businesses, and industrial structures. Flooding of high-value property, damage to major roads and critical access points, damage to railroads or other public utilities, probable damage to downstream dams or levees of high value. (Note: no probable loss of human life).
- **Class III**- Total storage volume of greater than 50-acre ft. or a height of greater than 25 ft. Sudden failure would result in damage to low value non-residential structures, local roads, agricultural crops and livestock.
- **Class IV**- Total storage volume of 50-acre ft. or less and height of 25 ft. or less. Sudden failure would result in losses restricted mainly to the dam and immediate surrounding property. Human loss of life is not probable.

Levee Classification (Source: <http://water.ohiodnr.gov/safety/dam-safety>)

- **Class I** – Probable loss of human life, structural collapse of at least one residence or one commercial or industrial business.
- **Class II** – Disruption of public water supply or wastewater treatment facility, or other health hazards; flooding of residential, commercial, industrial, or publicly owned structures; flooding of high-value property; damage or disruption to major roads including but not limited to interstate and state highways, and the only access to residential or other critical areas such as hospitals, nursing homes, or correctional facilities as determined by the chief; damage or disruption to railroads or public utilities.
- **Class III** – Property losses including but not limited to rural buildings not otherwise described in this rule; damage or disruption to local roads including but not limited to roads not otherwise listed as major roads.

In Warren County ODNR has classified 165 dams:

<i>Class 1 Dams</i>	<i>Class 2 Dams</i>	<i>Class 3 Dams</i>	<i>Class 4 Dams</i>
10	15	23	48

There are also 4 abandoned dams, 10 unclassified dams, and 55 exempt dams per ODNR.

The **National Inventory of Dams** also classifies dams by the level of hazard they present:

- High Hazard Potential classification – loss of human life is likely if the dam fails.
- Significant hazard potential classification – no probable loss of human life but can cause economic loss, environmental damage, disruption of lifeline facilities, or impact other concerns.

In Warren County, the National Inventory of Dams has classified 22 dams in the High or Significant Potential Hazard Category

Table 26: *High Hazard Potential Dams (8 in Warren County)*

Dam Name	River/Lake	City	Owner	Storage / Class	Year	Last Inspection	EAP Status	Potential Impacts
Caesar Creek Lake Dam (Saddle dam #3)	Caesar Creek	Oregonia	Federal	242,200 Acre ft Class I	1976	6/8/2015	Not noted	Affects structures within Oregonia, Morrow, and South Lebanon within 2 hours. Water flows south through Warren, Hamilton, and Clermont counties and reaches all the way down to Lunken Field in Cincinnati.
Caesar Creek Lake Dam (Saddle dam #2)	Caesar Creek	Oregonia	Federal	242,200 Acre ft Class I	1976	6/8/2015	Not noted	

Dam Name	River/Lake	City	Owner	Storage Class	Year	Last Inspection	EAP Status	Potential Impacts
Remick Lake Dam	Tributary to Clear Creek	Springboro	Private	44 Acre ft Class I	1966	3/31/2016	No Plan	Per Appendix 5, multiple residential and commercial structures inundated. State Route 741 overtopped.
Shaker Run Dam	Shaker Creek	Armco Park	Private	6,124 Acre ft Class I	1973	6/15/2016	Approved 6/12/2007	Several commercial bldgs and homes along Shaker and Garver Rds are inundated, railroad levee overtopped near RS22400, Corrections Facility Treatment plant and bldgs. and Monroe water treatment plant affected.
Lilley Lake Dam	Tributary to Halls Creek	Oregonia	Private	210 Acre ft Class I	1954	10/16/2014	No Plan	Map search shows mostly farmland and some residences affected.
Sunrise Lake Dam	Tributary to Bear Run	Foster	Private	257 Acre ft Class I	1931	11/12/2014	Approved 5/2/2013	11 structures (business and residential could incur a few feet of water
Landen Farm Lake Dam	Simpson Creek	Foster	Private	1,400 Acre ft Class I	1975	10/8/2014	Approved 9/24/2014	Kings Mills Rd inundated, nearby residential area inundated, Socialville Foster Rd overtopped
Pine Hill Lake Dam	Tributary to Muddy Creek	Mason	Local Govt.	194 Acre ft Class I	1952	11/6/2014	Approved 1/24/2011	Couple feet of water in 5 structures along Kings Mills and US Rte 42

Table 27: Significant Risk Potential Dams (14 in Warren County)

Dam Name	River/Lake	City	Owner	Storage	Year	Last Inspection	EAP Status	Potential Impacts
Classicway Farm Lake Dam	Tributary to little Miami River	South Lebanon	Private	73 Acre ft Class II	1965	11/12/2014	No Plan	Map search shows mostly farmland and some residences affected. Ford Rd. affected
Bel-Wood Country Club Lake No. 2 Dam	Tributary to Bigfoot Run	South Lebanon	Private	44.6 Acre ft Class II	1965	11/12/2014	No-Plan	Map search shows golf course affected. Western Water nearby and residences may be affected.
Oeder lake No. 3 Dam	Tributary to Bigfoot Run	South Lebanon	Private	199 Acre ft Class II	1953	11/4/2014	Approved 9/25/2015	State Rte. 22 / 3 residences may incur flooding
Votel Lake Dam	Tributary to Turtle Creek	Lebanon	Private	97.3 Acre ft Class II	1954	11/6/2014	Approved 1/18/2013	Flooding of businesses, residential access and walking bridge, rural building, and local road.
Walnut Hills Lake Dam	Tributary to North Fork	Oregonia	Private	28.1 Acre ft Class II		10/30/2014	No Plan	Map search shows State Rte. 73 affected. Some nearby homes and businesses also affected.
Cold Springs Fishing Lake Dam	Tributary to Newman Run	Oregonia	Private	59.5 Acre ft Class III		11/6/2014	Approved 6/15/2016	Roadways only, no structures impacted
Stoneybrook Farm Lake Dam	Tributary to Newman Run	Oregonia	Private	76.4 Acre ft Class IV	1968	11/6/2014	No Plan	Map search shows E. Lower Springboro Rd., nearby businesses affected.
Arnett Lake No. 1 Dam	Tributary to North Fork	South Lebanon	Private	57.1 Ft Class II	1967	10/30/2014	No Plan	Map search shows St. Rte. 73, nearby businesses and one local home affected.
Stolle Lake Dam	Tributary to Newman Run	South Lebanon	Private	144 Acre ft Class II	1960	10/30/2014	No Plan	Damage will be restricted to the dam itself and rural agricultural land.
Arnett Lake No. 2 Dam	Tributary to North Fork	South Lebanon	Private	30 Acre ft Class II	1967	10/30/2014	No Plan	Map search shows St. Rte. 73, nearby businesses and one local home affected.
Anderson Lakes Farm Dam No. 1	Tributary to Little Miami River	Morrow	Private	33.6 Acre ft Class II		10/16/2014	Approved 10/16/2014	Water overtops Waynesville Rd and State RL 123.
Cincinnati Semiconductor Lake Dam	Tributary to Little Miami River	Morrow	Private	82.4 Acre ft Class II		11/12/2014	No Plan	Map search shows Grandin Rd., local businesses affected. Water may stretch to homes on Grandin Ridge Dr.
Fenwick Home Company Lake Dam	Tributary to Stony Run	Senior	Private	21.5 Acre ft Class II	1969	11/4/2014	No Plan	Map search shows Knights of Columbus campground, Route 350, and houses along 350 and on Arabian Dr. affected.
Goodrich Lake Dam	Tributary to Dry Run	South Lebanon	Private	44.2 Acre ft Class II	1994	11/6/2014	Approved 2/9/2012	Flooding of structures in south Lebanon, roadways

In Warren County, the National Levee Database identifies 3 levees:

Table 28: Levees Located in Warren County

Levee Name	River/Lake	City	Total Miles	Owner	Population	Structures	Property Value
Franklin LFP – FRAL1	Great Miami River	Franklin	.98 miles	Miami Conservancy District	553	207	\$74.4M
Franklin LFP – FRAL 2	Great Miami River	Franklin	1.47 miles	Miami Conservancy District	714	308	\$162M
Franklin LFP – FRAR1	Great Miami River	Franklin	.87 miles	Miami Conservancy District	434	156	\$50M
Village of Monroe 1	Millers Creek	Monroe	.41 miles	Undefined	15	11	\$33.4M

Causes of a Dam Failure: (Source: Ohio Department of Natural Resources)

- **Overtopping** – is often a precursor of dam failure. National Statistics show that overtopping due to inadequate spillway design, debris blockage of spillways, or settlement of the dam crest account for 34% of all U.S. dam failures.
- **Foundation Defects and Slope Instability** – this includes settlement and slope instability which cause about 30% of all dam failures.
- **Piping** – is internal erosion by seepage which often occurs around hydraulic structures, such as pipes and spillways, through animal burrows, around roots of woody vegetation, and through cracks in dams, dam accessories, and dam foundations.

Causes of a Levee Failure: (Source: U.S. Army Corps of Engineers)

- **Overtopping** – the level of floodwater is higher than the height of the levee. Overtopping can cause significant damage if the land side of the levee is not armored or reinforced, the water can undercut the levee and cause it to collapse or breach.
- **Erosion** – the force of water on a levee can cause it to fail by eroding the water side of the levee through wave action or scouring. Under extreme pressure, the water can push the levee from its original position.
- **Breach** – a section of the levee collapses, breaks, or is washed away allowing water to flow through the levee. A breach can be caused by an object hitting the levee or an object on the levee, such as a tree or building falls and pulls part of the levee out with it. Unexpected breaches can cause rapid flooding.
- **Drainage System Failure** - the bulk of the water remains on the water side of the levee, but damages can occur to nearby properties.

HISTORY / OCCURRENCES:

Table 29: History of Recorded Dam Failures in Warren County

NID No.	STRUCTURE NAME	INCIDENT DATE	INCIDENT	DAM FAILURE
	Water's Edge Dam (type II)	1993	Dam was rebuilt after failure	Yes
OH00547	Lilley Lake Dam (type IV)	02/08/2001	Inadequate Spillway Capacity	No
	Pine Hill Lake Dam (type I)	2001	Emergency spillway flowed	Yes
	Remick Lake Dam (Type I)	08/2019	Inadequate safety measures	No

PROBABILITY OF OCCURRENCE / RISK:

There have been two recorded dam failures in Warren County out of the recorded 165 dams. The probability of future occurrences for regulated dams is reduced due to proactive preventive actions in compliance with Ohio Department of Natural Resources Dam Safety Program, therefore, the probability of dam failure in Warren County is low.

DAMAGES AND IMPACTS FROM DAM FAILURES:

The impacts from dam and levee failures are similar to flood events. Most impacts will be due to excessive water escaping the dam / levee. The extent of water impact is a consideration in the classification of each dam / levee.

Damage Extent:

Spatial Extent
Localized or Wide-Spread, depending on classification of dam / levee and level of breach

Estimated losses

According to the State of Ohio Hazard Mitigation Plan, a failure of the levees in Warren County would result in an estimated \$240 million in damages. State owned dam failures (which accounts for less than 1% of Warren County's dam inventory) would result in an estimated \$270,000 in damages. Additional damages for county structures and infrastructure could result in millions of dollars in damages.

Critical Infrastructure Affected

Potentially all critical infrastructure located in the inundation zone from a dam would be impacted by a dam breach or failure. Appendix 5 shows the impact of dam breaches from Class I and Class II on critical infrastructure in the county.

WARNING:

There are three classifications of dam alert status that should be listed in all Class I dam Emergency Action Plans. The dam owner is responsible for activating the dam alert status and notifying the appropriate authorities.

- **Monitor** – A hazardous condition exists, requiring investigation and corrective action; potential for failure is being assessed; corrective measures are underway.
- **Watch** – Potential failure situation is developing.
- **Warning** – Dam failure is occurring or is imminent.

Levee breach or failure will be identified by the City of Franklin or the Miami Conservancy District.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE DAM / LEVEE FAILURE:

- Debris Blockage – of spillways can cause overtopping of dams.
- Settlement of dam crest
- Foundation defects (including settlement and slope instability)
- Internal erosion caused by seepage

Gaps remain in some qualitative and quantitative data for levees, which will affect a community's ability to gauge risk and implement successful risk communication. Such data gaps exacerbate existing state and community-specific levee safety issues, such as estimating levee maintenance costs, which affect future funding priorities; and completing accurate risk assessments among the various counties containing such structures in their jurisdictions.

4.9 EXTREME TEMPERATURES

DEFINITION:

Extreme Temperatures are those that are outside the norm for a particular region and that last for an extended period of time. According to the National Weather Service, temperature alerts are issued when there is a threat to life or environment. The following describe how the weather service identifies extreme temperatures:

PRIMARY SOURCES OF INFORMATION:

- *National Weather Service* - <https://www.weather.gov/safety/heat>, <https://www.weather.gov/safety/cold>
- *Past Data* - <https://w2.weather.gov/climate/index.php?wfo=iln>

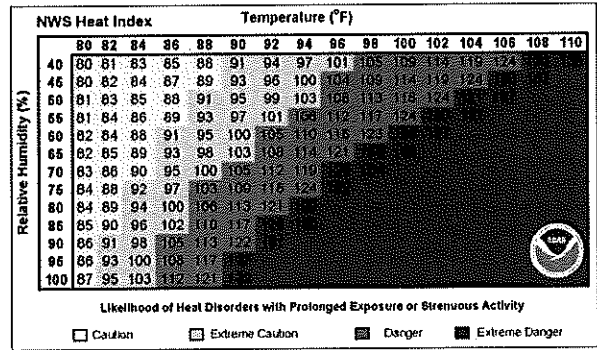
DESCRIPTION:

Heat:

A heat wave is a period of unusually hot weather that typically lasts two or more days. Heat waves are generally the result of trapped air. To be considered a heat wave, the temperatures must be outside the historical averages for a given area.

Figure 20: National Weather Service Heat Index Chart

The Heat Index is a measure of how hot it really feels when relative humidity is factored in with the actual air temperature. The National Weather Service Office in Wilmington will initiate alert procedures when the heat index is expected to exceed 100° for a prolonged period of time.

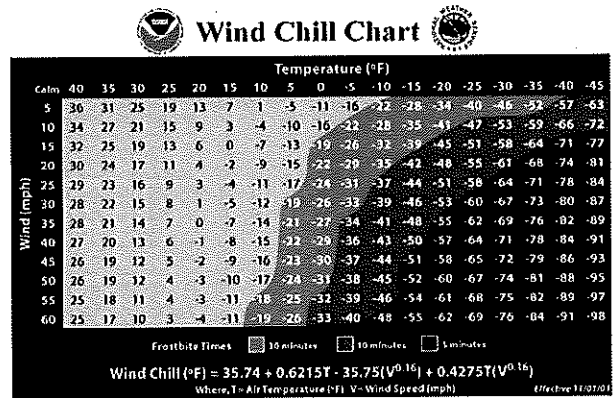


Cold:

The magnitude of extremely cold temperatures is generally measured through the Wind Chill Temperature Index. Wind chill is the term used to describe the rate of heat loss on the human body resulting from the combined effect of cold temperatures and wind. As winds increase, heat is carried away from the body at a faster rate, driving down skin and body temperature. The National Weather Service office in Wilmington will initiate alert procedures for wind chills when they are below -10°F for prolonged periods of time.

Figure 21: National Weather Wind Chill Chart

Note: wind chill does not impact inanimate objects like car radiators and exposed water pipes because these objects cannot cool below the actual air temperature. Frost/Freeze alerts are initiated when conditions will affect the environment or other objects. The National Weather Service Office in Wilmington will initiate frost alert procedures for prolonged periods under 36°F during frost/freeze season.



HISTORY / OCCURRENCES:

According to the National Weather Service office in Wilmington, Warren County averages about 5-7 extreme cold or heat events per year.

PROBABILITY OF OCCURRENCE / RISK:

According to the National Weather Service office in Wilmington, the following is the probability for extreme temperature events in Warren County:

WIND CHILL	HEAT
<ul style="list-style-type: none"> Advisory – on average, 4 to 5 days per winter Warning – on average 1 to 2 days per winter 	<ul style="list-style-type: none"> Advisory – on average 3 to 4 days per summer Warning – on average 1 to 2 days per summer

*It is important to note that there is tremendous variability in the frequencies listed above. Some years there is no data reaching criteria, some years there are 7-10 days (depending on weather pattern and its longevity).

DAMAGES AND IMPACTS FROM EXTREME TEMPERATURES:

Damage Extent:

Spatial Extent
Widespread effects on people and environment, localized effects on utilities
Estimated losses
It is difficult to estimate losses due to extreme temperatures. Agriculture may be affected, which could cause losses in thousands or millions of dollars. Power outages could cause losses from repairs or replacement of equipment or operation of shelters to maintain public safety.
Critical Infrastructure Affected
Potentially all critical infrastructure could be affected by the effects of wind / severe storms.

WARNING:

The National Weather Service issues the following warnings for Extreme Heat Events:

- **Excessive Heat Outlook** – issued when the potential exists for an excessive heat event in the next 3-7 days.
- **Heat Advisory** – issued within 12 hours of the onset of extremely dangerous heat conditions (typically when the maximum heat index temperature is expected to be 100°F or higher for at least 2 days and where nighttime air temperatures don't drop below 75°F).
- **Excessive Heat Watch** – issued when conditions are favorable for an excessive heat event in the next 24 to 72 hours. A watch is used when the risk of a heat wave has increased but its occurrence and timing is still uncertain.
- **Excessive Heat Warning** – issued within 12 hours of the onset of extremely dangerous heat conditions (typically when the maximum heat index temperature is expected to be 100°F or higher for at least 2 days and where nighttime air temperatures do not drop below 75°).

The National Weather Service issues the following warnings for Extreme Cold Events:

- **Wind Chill Advisory** - issued when seasonably cold wind chill values (but not extremely cold values) are expected or occurring.
- **Wind Chill Watch** - issued when dangerously cold wind chill values are possible.
- **Wind Chill Warning** - issued when dangerously cold wind chill values are expected or occurring.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF EXTREME TEMPERATURES:

Winter storm conditions can exacerbate cold temperatures. El Niño and La Niña patterns, can also exacerbate temperatures.

El Niño and La Niña are weather patterns that occur every few years. The water temperatures associated with these weather patterns can push warmer or colder air through the jet streams toward different parts of the country.

La Niña, caused by cooler than normal ocean temperatures, can cause cooler winter temperatures. Extended La Niña patterns can exacerbate wind chills into extreme temperatures. Conversely, El Niño patterns, caused by warmer than normal ocean temperatures, can contribute to extreme heat in the Ohio Valley.

4.10 EARTHQUAKES

DEFINITION:

An earthquake is a sudden, rapid shaking of the earth caused by the breaking and shifting of rock beneath the earth's surface. For hundreds of millions of years, the forces of plate tectonics have shaped Earth as the huge plates that form the Earth's surface move slowly over, under, and past each other. Sometimes the movement is gradual. At other times, the plates are locked together, unable to release the accumulating energy. When the accumulated energy grows strong enough, the plates break free, causing the ground to shake.

PRIMARY SOURCES OF INFORMATION:

- ODNR - <http://geosurvey.ohiodnr.gov/earthquakes-ohioseis/seismic-risk-in-ohio>

DESCRIPTION:

Table 30: Earthquake Description and Damages

Earthquake Magnitude and Intensity				
Magnitude (M _w)	Intensity (Modified Mercalli Scale)	Description	Perceived Shaking	Potential Damage
1.0 – 3.0	I	I. Not felt except by very few people under especially favorable conditions.	Not felt	None
3.0 – 3.9	II – III	II. Felt by a few people, especially those on upper floors of buildings. Suspended objects may swing.	Weak	None
		III. Felt quite noticeably indoors. Many do not recognize it as an earthquake. Standing motorcars may rock slightly.	Weak	None

Earthquake Magnitude and Intensity				
Magnitude (M _w)	Intensity (Modified Mercalli Scale)	Description	Perceived Shaking	Potential Damage
4.0 – 4.9	IV – V	IV. Felt by many who are indoors; felt by a few outdoors. At night, some awakened. Dishes, windows, and doors rattle.	Light	None
4.0-4.9	IV-V	V. Felt by nearly everyone; many awakened. Some dishes and windows broken; some cracked plaster; unstable objects overturned.	Moderate	Very Light
5.0 – 5.9	VI – VII	VI. Felt by everyone; many frightened and run outdoors. Some heavy furniture moved; some fallen plaster or damaged chimneys. Damage negligible in well-constructed buildings; considerable damage in poorly constructed buildings.	Strong	Light
		VII. Most people alarmed and run outside. Damage negligible in well-constructed buildings; considerable damage in poorly constructed buildings.	Very Strong	Moderate
6.0 – 6.9	VII – IX	VIII. Damage slight in special designed structures; considerable in ordinary buildings; great in poorly built structures. Heavy furniture overturned. Chimneys, monuments, etc. may topple.	Severe	Moderate to Heavy
		IX. Damage considerable in specially designed structures. Buildings shift from foundations and collapse. Ground cracked. Underground pipes broken.	Violent	Heavy
7.0 and Higher	VIII and Higher	X. Some well-built wooden structures destroyed. Most masonry structures destroyed. Ground badly cracked. Landslides on steep slopes.	Extreme	Very Heavy
		XI. Few, if any, masonry structures remain standing. Railroad rails bent; bridges destroyed. Broad fissure in ground.	Extreme	Very Heavy
		XII. Virtually total destruction. Waves seen on ground. Objects thrown into the air.	Extreme	Very Heavy

HISTORY / OCCURRENCES:

Ohio has had 200 earthquakes with epicenters in Ohio that have been felt since 1776. In addition, several earthquakes with origins outside Ohio have also been felt in the state. Most of these earthquakes have been felt only locally and have caused no damage or injuries.

There have been two recorded earthquakes with the epicenters occurring on the border of Warren and an adjacent county (earliest seismic recording data as of 1776).

Table 31: History of Recorded Earthquake Events in Warren County

Magnitude	Intensity	Location	Year
3.5	IV	Border of Warren and Montgomery Counties (Chautauqua area)	1834
3.3	II	Border of Warren, Butler, and Hamilton Counties (West Chester/Mason Areas)	1936

Source: Ohio Geological Survey, 2012 Earthquake epicenters Ohio and Adjacent Areas.

PROBABILITY OF OCCURRENCE / RISK:

A great difficulty in determining the probability of large earthquakes in the eastern United States is that the recurrence interval (the time between large earthquakes) is commonly very long, on the order of hundreds or even thousands of years. As the historic record in most areas, including Ohio, is only on the order of about 200 years it is nearly impossible to estimate the maximum magnitude or the frequency of earthquakes at any particular site.

Ohio is on the periphery of the New Madrid Seismic Zone. Effects from earthquakes on this fault line in the past have been felt in Ohio and some, which were estimated at 8.0 on the Richter scale, were of enough intensity to topple chimneys in Cincinnati.

The most important variables affecting earthquake damage are the intensity of the ground shaking caused by the quake coupled with the quality of the engineering of structures in the region.

Buildings most susceptible to shaking damage:

- Soft-story apartments and condos that have large openings on the first floor for garage doors and windows to accommodate parking or commercial space, and housing on upper floors (built prior to recent codes).
- Older, pre-WWII homes and homes built before the 1980's are more susceptible to damage due to their lack of bolting mechanisms to the foundation.
- Mobile homes
- Unreinforced masonry buildings – with no steel reinforcing within a masonry wall. Most buildings before 1933 are not reinforced (depending on local code enforcement).

Infrastructure susceptible to damage from earthquakes (*Source: Congressional Research Service*)

- Bridges built before 1992 (were most likely not built to seismic standards nor have been retrofitted)

Causes of Earthquakes in Ohio:

The origins of Ohio Earthquakes appear to be associated with ancient zones of weakness in the Earth's crust that formed during rifting and continental collision events about a billion years ago. These zones are characterized by deeply buried and poorly known faults, some of which serve as the sites for periodic release of strain that is constantly building up in the North American continental plate due to continuous movement of the tectonic plates that make up the earth's crust.

DAMAGES AND IMPACTS FROM EARTHQUAKES:

Warren County has many aging buildings and infrastructure which are susceptible to damages from shaking in an earthquake. Due to its low seismic risk, building codes do not require seismic bracing, which also leaves structures and infrastructure at risk for damages from earthquakes.

Damage Extent:

Spatial Extent	
Localized to older structures and infrastructure if shaking is minimal. Widespread if magnitude is severe.	
Estimated losses	
According to the State of Ohio Hazard Mitigation Plan, a 5.0 magnitude earthquake with its epicenter in Lebanon would result in estimated losses of \$1.9 BILLION dollars. See Tables 3,5, and 11 from the State Hazus Report submitted below.	
Critical Infrastructure Affected	
A 5.0 magnitude earthquake in Warren County could affect a substantial amount of critical infrastructure, specifically utilities, older structures, and treatment plants.	

Table 3: Expected Building Damage by Occupancy

	None		Slight		Moderate		Extensive		Complete	
	Count	(%)	Count	(%)	Count	(%)	Count	(%)	Count	(%)
Agriculture	130.96	0.28	60.77	0.38	72.36	0.84	37.02	1.47	8.88	1.38
Commercial	1449.50	3.05	698.46	4.12	701.72	8.13	905.52	12.16	75.71	11.77
Education	51.47	0.11	22.63	0.13	23.30	0.27	9.06	0.36	2.54	0.40
Government	35.12	0.07	18.80	0.11	22.96	0.27	9.30	0.37	2.81	0.44
Industrial	543.04	1.14	247.58	1.46	277.00	3.21	131.95	5.25	31.44	4.89
Other Residential	1654.29	3.48	685.24	4.04	510.05	5.91	203.73	8.11	47.68	7.41
Religion	172.22	0.36	69.81	0.41	60.22	0.70	27.41	1.09	7.33	1.14
Single Family	43417.44	91.49	15155.94	89.37	6950.43	80.67	1789.42	71.19	465.77	72.57
Total	47,464		16,959		8,628		2,513		643	

Table 6: Expected Damage to Essential Facilities

Classification	Total	# Facilities		
		At Least Moderate Damage > 50%	Complete Damage > 50%	With Functionality > 50% on day 1
Hospitals	0	0	0	0
Schools	61	10	0	22
EOOs	0	0	0	0
Police Stations	12	2	0	3
Fire Stations	19	3	0	5

Table 11: Building-Related Economic Loss Estimates (Millions of dollars)

Category	Area	Single Family	Other Residential	Commercial	Industrial	Others	Total
Income Losses	Wage	0.0000	3.4425	37.7714	4.0797	2.9553	48.2589
	Capital-Related	0.0000	1.4681	34.4508	2.5311	0.7745	39.2245
	Rental	22.9678	9.5299	18.9790	1.6005	1.6065	54.5042
	Relocation	60.1744	5.9874	29.1489	6.7413	12.7639	134.4159
	Subtotal	103.1422	20.0279	120.3606	14.8528	18.1102	276.4835
Capital Stock Losses	Structural	159.7397	15.4162	46.6336	22.5167	15.5512	259.8574
	Non-Structural	622.1120	85.9449	119.1868	68.9765	38.0457	934.2849
	Content	251.4659	27.0333	66.6960	49.8604	22.1048	417.1814
	Inventory	0.0000	0.0000	2.0580	9.4326	0.4273	11.9179
	Subtotal	1033.3186	128.3944	234.6744	160.8652	76.1290	1823.2218
	Total	1136.46	148.42	354.93	165.66	94.24	1899.71

WARNING:

There are early warning systems for earthquakes that can provide up to tens of seconds of warning prior to shaking arriving. The time required to detect and issue an earthquake warning is dependent on distance between the earthquake source and the closest seismic network station, the transfer of information to the regional network, the detection and characterization of an earthquake, and the shaking intensity threshold used to issue an alert (*Source: USGS.gov*). Typically, those who don't live in active seismic zones will receive little-to-no warning before the shaking of an earthquake arrives.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF EARTHQUAKES:

The nature of earthquakes is that they strike randomly with no notice and varying intensities. There is one unnamed fault line in the Northwest Potion of Warren County.

Figure 22: USGS Earthquake Hazard Zones

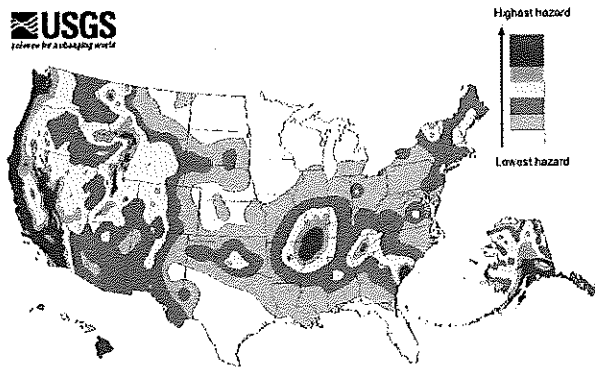
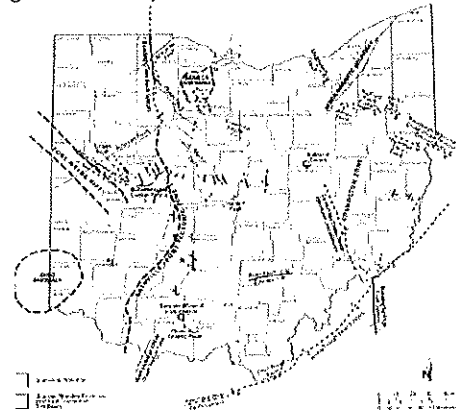


Figure 23: Map of Fault Lines in Ohio



Modified from Division of Geological Survey Map PG-23, 2002). This map portrays a number of deep faults and other structures that have been identified by a variety of geologic studies. Some faults are well known, whereas others are speculative. Very few of them are visible at the surface. The Fort Wayne (Anna) rift in Western Ohio is the site of numerous historic earthquakes.

There are some human-caused events that can affect the environment conducive to causing earthquakes. Mining, dam building and fracking can intensify conditions that can lead to earthquakes.

A point to consider:

Ohio lies on the outermost boundaries of the New Madrid fault, centrally located at New Madrid, Missouri. This fault has created significant activity over the last 200 years with the most intense activity occurring in the years 1811-1812. Two earthquakes estimated to be 7's on the Richter scale hit the New Madrid fault which caused damage to chimneys as far north as Cincinnati. Seismologists estimate the New Madrid Seismic Zone has a 25 to 40 percent chance of producing a significant earthquake in the next 50 years. A significant earthquake of 7 or 8 magnitude on the fault could render enough shaking to produce light to moderate shaking in Warren County.

4.11 LANDSLIDES / EROSION

DEFINITION:

A landslide is defined as any downward and outward movement of soil and rock material on slopes that significantly impacts infrastructure or personal property.

Erosion is defined as the gradual wearing away of earthen materials which are transported by natural forces such as wind and water.

PRIMARY SOURCES OF INFORMATION:

- Ohio EMA HMP - https://ema.ohio.gov/Documents/OhioMitigationPlan/SOHMP_Sec_2_5.pdf
- USGS Maps - <https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=ae120962f459434b8c904b456c82669d>
- Ohio Department of Natural Resources - <http://geosurvey.ohiodnr.gov/portals/geosurvey/PDFs/GeoFacts/qeof08.pdf>
- NASA - <https://earthobservatory.nasa.gov/images/89937/a-global-view-of-landslide-susceptibility>

DESCRIPTION:

There are four main types of landslides that occur in Ohio:

- Rotational Slump: the movement of a mass of weak rock or sediment as a block unit along a curved slip plane. In Ohio, these types of slides commonly involve hundreds of thousands of cubic yards of material and extend for hundreds of feet.
- Earthflow: involves rock, sediment, or weathered surface materials moving downslope in a mass. The rate of movement of an earthflow is generally quite slow.
- Rockfall: an extremely rapid, potentially dangerous downslope movement of earth materials. Large blocks of massive bedrock suddenly become detached from a cliff or steep hillside and free fall in a rolling, bounding, or sliding manner downslope
- Debris flow: a rapid mass movement in which loose soil, rock, and sometimes organic matter combine with water to form a slurry that flows downslope.

Types of Erosion

- Physical erosion described the process of rocks changing their physical properties without changing their basic chemical properties. Landslides are a form of erosion.
- Erosion by water can occur when rain, rivers, floods, lakes, and the ocean carry away bits of soil and sand and slowly wash away the sediment.
- Erosion by wind is a process where wind transports dust, sand, and ash from one place to another. Wind can also erode material until little remains at all.
- Erosion by ice is caused when glaciers scrape against the ground below eroding the ground and rocks.
- Thermal erosion describes the erosion of permafrost along a river or coastline. Warm temperatures can cause ice-rich permafrost to break off coastlines in huge chunks, carrying topsoil and vegetation with them.

HISTORY / OCCURRENCES:

At any time, there are multiple landslides along Warren County roads that are monitored and remediated by local, county, and state maintenance departments. Two of the more notable landslides are:

Table 32: History of Recorded Landslide Events in Warren County

LOCATION	DATE	Event
Warren Co.	11/12/2018	Wilmington Road
Warren Co.	4/20/2019	State Route 123

There are three reported cases of land erosion that have potential to significantly impact localized property:

Table 33: Reported Cases of Land Erosion in Warren County

Location	Description
4109 Mason-Morrow – Milgrove Road (Morrow)	Land is eroding away due to velocity of Little Miami River in high water situations
60 Lorain Ave (Harveysburg)	Land is eroding away from property due to stormwater drainage issues
Miami View Drive	Land is eroding on residential properties due to Great Miami River Flow

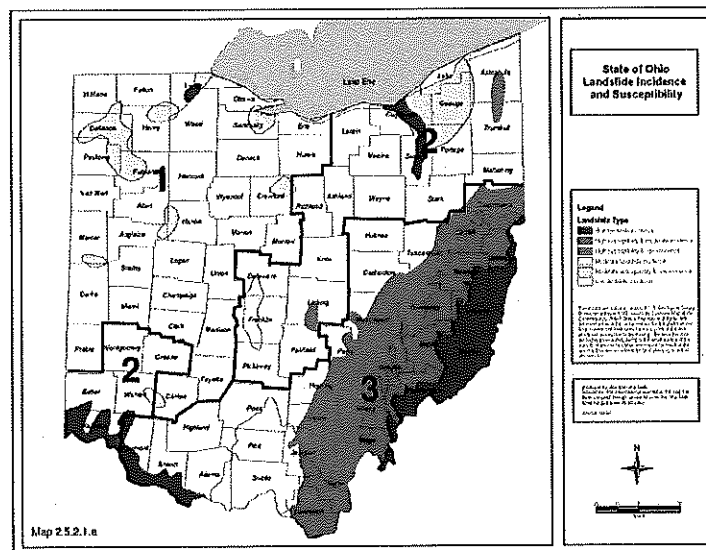
*There may be additional cases that have not been reported for the purpose of this assessment

PROBABILITY OF OCCURRENCE / RISK:

The probability of a landslide occurring in Warren County is very low. Erosion is an on-going, but isolated occurrence. According to the State of Ohio Hazard Mitigation Plan, if a landslide were to occur in Warren County, it would most likely occur in the Central Eastern portion (which is more hilly in nature).

Figure 24: Map of Landslide Incidence and Susceptibility in Ohio

State of Ohio Hazard Mitigation Plan



DAMAGES AND IMPACTS FROM LANDSLIDES / EROSION

Slow moving landslides can affect manmade structures and infrastructure whether they are directly on or near a landslide. Landslide damage can affect lifelines and access routes of the immediate area or other surrounding locations. Fast-moving landslides such as debris flows are the most destructive type of landslide to structures as they often occur without precursors or warnings and move too quickly for mitigation measures to be enacted.

Erosion can cause a loss of land space and may impact any structure build too close to a river or stream.

Damage Extent:

Spatial Extent
Localized
Estimated losses
According to the State of Ohio Hazard Mitigation Plan, Warren County’s potential damages resulting from landslides could equal \$143,151 for jurisdictions affected. Erosion can contribute to these damages.
Critical Infrastructure Affected
Any critical infrastructure in the path of a landslide could be affected by damages caused by the slide.

WARNING:

There are very little warnings of landslides/erosion but incidents at a location are the best indication of future events.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF A LANDSLIDE / EROSION:

Flooding is the primary contributor to erosion. Heavy rainfall or snowmelt can precipitate erosion. Precipitation, thawing, wildfires, and flooding can exacerbate landslide conditions.

One or more of the following conditions contribute to the occurrence of landslide events:

- **Steep slope:** All landslides move downslope under the influence of gravity. Therefore, steep slopes, cliffs, or bluffs are a required element leading to a landslide, especially in conjunction with one or more of the conditions listed below.
- **Jointed rocks:** Fractures in rocks allow surface moisture to penetrate and weaken it. When the moisture freezes, it pries the rock masses apart at the joint.
- **Weak Geologic Materials** such as fine-grained, permeable rock or sediment, clay or shale units subject to groundwater penetration, or natural zones of weakness such as bedding planes and fault planes.
- **Climatic Conditions:** Periods of heavy rainfall, excess snowmelt, or other events where water is accumulated, saturate the zone above the normal water table and cause a landslide.

In addition to the conditions noted above, a landslide requires a triggering mechanism to initiate downslope movement. Several events or circumstances, many of them human-caused, can trigger landslides, including:

- **Vibrations** such as those from human-caused like blasting or the passing of a heavy truck or from natural events like earthquakes, although no such occurrence has been documented in Ohio.
- **Oversteepened slope** caused by undercutting by stream or wave erosion, by human construction activities, or by the addition of fill material to the upper portion of a slope. This disturbs the equilibrium of a stable slope and causes the angle of stability to be exceeded.
- **Increased weight on a slope** caused by the addition of large amounts of fill, the construction of a building or other structure, or an unusual increase in precipitation, either from heavy rains or from artificial alteration of drainage patterns.
- **Removal of vegetation** and trees, because of the loss of roots which tend to hold the rock or sediment in place and soak up excess moisture.

4.12 DROUGHTS

DEFINITION:

A drought is defined as a shortage of water over an extended period. Drought is a natural hazard, with a slow onset that evolves over months or even years.

PRIMARY SOURCES OF INFORMATION:

- The National Oceanic and Atmospheric Administration’s (NOAA) National Integrated Drought Information System (NIDIS) program <https://www.drought.gov/drought/>
- National Weather Service - <https://www.weather.gov/safety/drought>
- National Drought Mitigation Center (NDMC) University of Nebraska Lincoln works with NOAA and USDA to produce the US Drought Monitor report(system)

DESCRIPTION:

There are multiple types of droughts:

- **Meteorological drought** – based on the degree of dryness or rainfall deficit & the length of dry period.
- **Hydrological drought** – based on the impact of rainfall deficits on the water supply such as stream flow, reservoir and lake levels, and ground water table decline.
- **Agricultural drought** – refers to impact on agriculture by factors such as rainfall deficits, soil and water deficits, reduced ground water, or reservoir levels needed for irrigation.
- **Socioeconomic drought** – considers the impact of drought conditions (meteorological, agricultural, or hydrological drought) on supply and demand of some economic goods such as fruits, vegetables, grains, and meat. Socioeconomic drought occurs when the demand for an economic good exceeds supply as a result of weather-related deficit in water supply.

Drought classification and possible impacts:

There are a few different methods for measuring drought, but no standard measurement is recognized by all agencies:

- **The Standard Precipitation Index (SPI)** shows actual precipitation compared to the probability of precipitation for various timeframes. The SPI is used for short-term agricultural and long-term hydrological applications. A drought occurs any time the SPI is continuously negative and reaches an intensity of d-1.0 or less. The event ends when the SPI becomes positive.
- **The Palmer Drought Severity Index (PDSI)** uses temperature and precipitation data to estimate dryness. It is a standardized index that spans -10 (dry) to +10 (wet) and is the most effective method in determining long-term drought. Many U.S. government agencies and states rely on the PDSI to trigger drought relief programs and responses.
- **The National Drought Mitigation Center** established a US Drought Monitor which classifies droughts on a numeric system similar to the Fujita Scale for tornadoes. The scale measures from abnormally dry conditions (D0) through exceptional wide-spread drought (D4). The USDM’s weekly report uses this classification scale in combination with a color-coded map to provide a tool for decision making and drought planning.

Figure 25: National Drought Mitigation Center Palmer Drought Severity Index

Palmer Drought Severity Index

DROUGHT SEVERITY	RETURN PERIOD (YEARS)	DESCRIPTION OF POSSIBLE IMPACTS	DROUGHT MONITORING INDICES		
			Standardized Precipitation Index (SPI)	NDMC* Drought Category	Palmer Drought Index
Minor Drought	3 to 4	Going into drought; short-term dryness slowing growth of crops or pastures; fire risk above average. Coming out of drought; some lingering water deficits; pastures or crops not fully recovered.	-0.5 to -0.7	D0	-1.0 to -1.9
Moderate Drought	5 to 9	Some damage to crops or pastures; fire risk high; streams, reservoirs, or wells low, some water shortages developing or imminent, voluntary water use restrictions requested.	-0.8 to -1.2	D1	-2.0 to -2.9
Severe Drought	10 to 17	Crop or pasture losses likely; fire risk very high; water shortages common; water restrictions imposed	-1.3 to -1.5	D2	-3.0 to -3.9
Extreme Drought	18 to 43	Major crop and pasture losses; extreme fire danger; widespread water shortages or restrictions	-1.6 to -1.9	D3	-4.0 to -4.9
Exceptional Drought	44 +	Exceptional and widespread crop and pasture losses; exceptional fire risk; shortages of water in reservoirs, streams, and wells creating water emergencies	Less than -2	D4	-5.0 or less

Source: National Drought Mitigation Center

HISTORY / OCCURRENCES:

The National Centers for Environmental Information (NCEI) Storm Events Database contains records of significant weather phenomena having enough intensity to cause loss of life, injuries, significant property damage, and/or disruption to commerce. According to the NCEI Storm Events Database, Warren County has had only 2 occurrences of long-term drought, significant enough to cause major crop loss between 1950 and 2019. At the time of reporting, there was no monetary estimates available.

Table 34: History of Recorded Long-Term Drought Events in Warren County

LOCATION	DATE	TYPE	DEATH	INJURY	PROPERTY DAMAGE	CROP DAMAGE
Warren Co.	7/1/1999	Drought	0	0	0.00K	Not available
Warren Co.	8/1/1999	Drought	0	0	0.00K	Not available
TOTALS:			0	0	\$0	

Source: NOAA National Centers for Environmental Information

The weekly palmer drought indices maps indicate prolonged and abnormal moisture deficiency or excess. According to these maps, Warren County experienced 46 moderately drought stage weeks and 4 severe drought weeks from 2005 – 2019.

Table 35: History of Moderate or Severe Drought Events in Warren County with El Niño years indicated

Indicate El Niño years	
Week of June 16 th , 2007 – Moderate Drought Stage	Week of November 8 th , 2008 – Moderate Drought Stage
Week of June 23 rd , 2007 – Moderate Drought Stage	Week of November 15 th , 2008 – Moderate Drought Stage
Week of June 30 th , 2007 – Moderate Drought Stage	Week of November 15 th , 2008 – Moderate Drought Stage
Week of August 11, 2007 – Moderate Drought Stage	Week of November 29 th , 2008 – Moderate Drought Stage
Week of August 18 th , 2007 – Moderate Drought Stage	Week of December 6 th , 2008 – Moderate Drought Stage
Week of August 25 th , 2007 – Moderate Drought Stage	Week of December 13 th , 2008 – Moderate Drought Stage
Week of September 1 st , 2007 – Moderate Drought Stage	Week of February 21 st , 2009 – Moderate Drought Stage
Week of September 8 th , 2007 – Moderate Drought Stage	Week of February 28 th , 2009 – Moderate Drought Stage
Week of September 15 th , 2007 – Moderate Drought Stage	Week of March 14 th , 2009 – Moderate Drought Stage
Week of September 22 nd , 2007 – Moderate Drought Stage	Week of March 28 th , 2009 – Moderate Drought Stage
Week of September 29 th , 2007 – Moderate Drought Stage	Week of April 25 th , 2009 – Moderate Drought Stage
Week of October 6 th , 2007 – Moderate Drought Stage	Week of May 30 th , 2009 – Moderate Drought Stage
Week of October 13 th , 2007 – Severe Drought Stage	Week of September 25 th , 2010 – Moderate Drought Stage
Week of October 13 th , 2007 – Severe Drought Stage	Week of October 9 th , 2010 – Moderate Drought Stage
Week of October 16 th , 2010 – Moderate Drought Stage	Week of January 29 th , 2011 – Moderate Drought Stage
Week of October 23 rd , 2010 – Moderate Drought Stage	Week of July 21 st , 2012 – Moderate Drought Stage
Week of October 30 th , 2010 – Moderate Drought Stage	Week of August 4 th , 2012 – Moderate Drought Stage
Week of November 6 th , 2010 – Severe Drought Stage	Week of August 18 th , 2012 – Moderate Drought Stage
Week of November 13 th , 2010 – Severe Drought Stage	Week of September 1 st , 2012 – Moderate Drought Stage
Week of November 20 th , 2010 – Moderate Drought Stage	Week of December 1 st , 2012 – Moderate Drought Stage
Week of December 25 th , 2010 – Moderate Drought Stage	Week of September 24 th , 2019 – Moderate Drought Stage
Week of October 16 th , 2010 – Moderate Drought Stage	Week of October 1 st , 2019 – Moderate Drought Stage
Week of January 1 st , 2011 – Moderate Drought Stage	Week of October 8 th , 2019 – Moderate Drought Stage
Week of January 8 th , 2011 – Moderate Drought Stage	Week of October 19 th , 2019 – Moderate Drought Stage
Week of January 15 th , 2011 – Moderate Drought Stage	
Week of January 22 nd , 2011 – Moderate Drought Stage	

Source: <https://www.ncdc.noaa.gov/temp-and-precip/drought/weekly-palmers/>

The weekly palmer drought indices show that there were 46 instances of moderate drought conditions and 4 instances of severe drought between 2005 - 2019. The longest periods of drought occurred in El Niño years, which affect the jet stream and temperature conditions. It can be reasonably assumed that there will be periods of moderate to severe drought in Warren County during El Niño years and short periods of moderate to severe drought during other years where precipitation is low, and temperatures are high.

There have been three Federal declarations for drought-related issues, specifically to crops for the state of Ohio that included Warren County.

- 1/26/2009 the USDA designated 65 Ohio counties as primary natural disaster areas due to damages and losses created by recent drought. (Source USDA Press Release No. 1409.09)
 - 9/16/2010 the USDA designated 41 counties in Ohio as primary natural disaster areas due to damages and losses caused by recent drought. (Source USDA Press Release No. 0099.10)
 - 8/15/2012 The USDA designated 9 counties in Ohio as primary natural disaster areas due to damages and losses caused by recent drought. (Source USDA Press Release No. 0129.12)
- (Data pulled from <https://droughtreporter.unl.edu/advancedsearch/reports.aspx>)

PROBABILITY OF OCCURRENCE / RISK:

Due to the nature of drought, it is hard to predict the probability of occurrence per event. Reviewing the data from the history in Warren County, the following can be assumed:

[(Current Year) 2019] subtracted by [(Historical Year) 1950] = 69 Years on Record
[(Years on Record) 69] divided by [(Number of Historical Events) 5] = <1 occurrence of significant drought per 13 years.

DAMAGES AND IMPACTS FROM DROUGHT:

Figure 25 (p. 76) shows the impact of certain drought stages on the Palmer Drought Severity Index.

Damage Extent:

Spatial Extent
Widespread
Estimated losses
Based on historical data and Warren County's amount of agriculture, if a drought severely impacted half of Warren County's crops, the estimated impact would equal \$22 million.
Critical Infrastructure Affected
Drought could impact certain critical utilities (either directly or indirectly through overuse, causing sporadic outages).

WARNING:

The National Integrated Drought Information System (NIDIS) reports current drought conditions in different regions of the United States. The Midwest Drought Early Warning System depicts current drought conditions in the Midwest, including the Ohio Valley.

The US Drought Monitor is a weekly product that provides a general summary of seasonal drought conditions. The US Seasonal Drought Outlook shows predicted trends for areas currently in drought, as well as areas where new droughts may develop. Drought events develop over time and can be classified according to multiple different scales (as indicated in the tables above). By the time a drought has been classified, its affects may already be felt by the people and environment.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF DROUGHTS:

Although climate is a primary contributor to hydrological drought, other factors such as changes in land use, land degradation, and the construction of dams all affect the hydrological characteristics of a particular region. Since geographic regions are interconnected by natural systems, the impact of drought may extend well beyond the borders of the precipitation-deficit areas.

Changing weather patterns can also affect drought. El Niño patterns, caused by seasonably warmer ocean temperatures, can contribute to warmer, drier conditions in the Ohio Valley. As indicated by the weekly Palmer Indices, there are longer periods of drought in Warren County during El Niño years.

4.13 INFECTIOUS DISEASE OUTBREAKS

DEFINITION:

An infectious disease outbreak is an outbreak as one that is caused by micro-organisms, such as bacteria, viruses and parasites. A vector-borne disease is an infectious disease that is transmitted to humans by blood-feeding arthropods, including ticks, mosquitoes and fleas, or in some cases by mammals (e.g. rabies).

PRIMARY SOURCES OF INFORMATION:

- Ohio Department of Health (ODH)
- U.S. Centers for Disease Control and Prevention (CDC)

DESCRIPTION:

- Infectious disease dynamics depend on a range of factors, including land use, human behavior, climate, efficacy of healthcare services, population dynamics of vectors, population dynamics of intermediate hosts and the evolution of the pathogens themselves
- Many of these diseases require continuous monitoring, as they present seasonal threats to the general population. An epidemic emerges when an infectious disease occurs suddenly in numbers that are in excess of normal expectancy. Infectious disease outbreaks put a strain on the healthcare system and may cause continuity issues for local businesses. These outbreak incidents are a danger to emergency responders, healthcare providers, schools, and the public. This can include influenza (e.g. H1N1), pertussis, West Nile virus, and many other diseases.

HISTORY / OCCURRENCES:

Pandemic influenza, considered to be a global outbreak, spread quickly around the world and was observed in 1918, 1957, 1968 and in 2009 with the novel H1N1 strain. The 2009 H1N1 outbreak affected Warren County and the rest of Ohio. The great influenza epidemic of 1918 killed millions worldwide and would likely cause hundreds to thousands of deaths in Ohio should a similar outbreak occur today. It is anticipated that a more serious strain of the usual flu will occur some year and that vaccines might not be ready in time to combat rapid spread.

**Note: The hazard identification and ranking were completed prior to the Worldwide COVID-19 pandemic of 2020 (thus its full information cannot be included in this plan, however it is counted in the chart below).*

Table 36: History of Recorded Infectious Disease Outbreaks in Warren County

Year	# of Community Outbreaks	# of Foodborne Outbreaks	# of Healthcare-Associated	# of Institutional Outbreaks	# of Waterborne Outbreaks	# of Zoonotic Outbreaks
2020	*30	0	0	0	0	0
2016	0	0	1	4	1	0
2015	0	0	0	0	0	0
2014	0	0	0	6	0	0
2013	0	0	0	0	0	0
2012	1	0	0	1	0	0
2011	0	0	0	0	0	0
2010	0	0	0	0	0	0
2009	0	0	0	0	0	0
2008	1	3	0	1	0	0
2007	0	0	0	0	1	0

Source: Ohio Department of Health

*current number of outbreaks from COVID 19 as of 7/27/2020

PROBABILITY OF OCCURRENCE / RISK:

Due to the nature of infectious disease outbreaks, it is difficult to predict when they may occur. There are some infectious diseases, such as influenza and norovirus, that have a predictable and known seasonality where there are an increased number of occurrences.

DAMAGES AND IMPACTS FROM INFECTIOUS DISEASE OUTBREAKS:

Damage Extent:

Spatial Extent
Localized or widespread depending on cause, type of disease, and method of spread
Estimated losses
Infectious diseases can affect supply lines and the economy if restrictions and quarantines are put into place. The 2020 pandemic has cost Warren County millions in economic losses. Another pandemic of national magnitude can cost the county millions in losses and thousands in PPE/ supply purchases.
Critical Infrastructure Affected
Infectious diseases can be injected into critical supply lines such as water and the environment. Critical services can also be affected if personnel are affected by infectious diseases.

WARNING:

Early warning systems include timely surveillance systems that collect information on epidemic-prone diseases in order to trigger prompt public health interventions. The World Health Organization Strategic Health Operations Centre (SHOC) monitors global public health events around the clock and facilitates international collaboration during public health emergencies and daily operations. WHO utilizes the Early Warning Alert and Response Network (EWARN) to rapidly detect and respond to potential outbreaks of epidemic-prone diseases. The Centers for Disease Control and Prevention (CDC) performs 24/7 outbreak surveillance, to warn the United States of potential outbreaks. State, regional, and local public health will receive alerts from the CDC on suspected outbreaks. They also receive information from hospitals and healthcare agencies of suspected cases of epidemiological concern which they report up through regional, state, and national channels.

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF INFECTIOUS DISEASE OUTBREAKS:

There are multiple factors that may exacerbate or mitigate the spread of infectious disease. Ensuring that the population has been vaccinated for those diseases that are vaccine preventable is an evidence-based practice to reduce the number of infectious diseases. Educating the public on standard precautions such as washing your hands and covering your mouth when you cough can help to prevent the spread of disease.

4.14 WILDFIRES

DEFINITION:

Wildfire events are unwanted wildland fires, including unauthorized human-caused fires, escaped debris burns, and other ignition sources that lead to fire over wildland areas. Throughout Ohio, communities are increasingly concerned about wildfire safety as increased development and subsequent fire control practices have affected the natural cycle of the ecosystem. Wildland fires affect grass, forest, and brush lands, as well as any structures located within them. Human access to wildland areas, such as urban development in forested areas, increases the risk of fire due to a greater chance for human carelessness.

PRIMARY SOURCES OF INFORMATION:

- Ohio Department of Forestry (a division of ODNR): <http://forestry.ohiodnr.gov/wildfire>

DESCRIPTION:

The magnitude and severity of a wildfire event is measured by calculating the number of acres burned in a specific wildfire event and the severity of the burn classifications². The below burn severity classifications have been adapted from USDA Natural Resources Conservation Service.

- **Low Fire Severity (Type III)**
Primarily occurs on rangeland and is indicated by decaying leaves and branches with debris partially burned. Soil may be an abnormal color and standing trees may have some brown needles. Natural recovery with root crowns and no significant erosion are likely.
- **Medium Fire Severity (Type II)**
Primarily occurs on steep, lightly timbered slopes with grass and is indicated by some sediment delivery. A medium severity fire is indicated by burned needles, dark-colored ash, brown or reddish-brown soil up to two inches deep, charring on small stumps and blackened lower halves of trees. Most roots and perennial grasses will re-sprout after a Type II Wildfire and some vegetation will recover within 1-5 years. Soil erosion is more likely to occur with a Type II (or above) wildfire due to lack of ground cover.
- **High Fire Severity (Type I)**
Primarily occurs in unprotected drainages on steep, timbered, north or east slopes with dense forest canopy. A high severity wildfire is indicated by gray or white ash, absence of stumps or small fuel items, reddish-orange or dark soils up to 2 inches deep with the soil being physically affected (such as crystallization, crusting, or clustered), burned roots on vegetation, and standing trees are reduced to charcoal up to 1 inch deep. Natural

² Natural Resources Conservation Service burn intensity classifications can be used to estimate soil heating by vegetative and physical conditions. Wildfire burn intensity is useful in preparing rehabilitation plans for properties and other post-fire activities.

vegetation will have a hard time recovering from Type I wildfires with only some deep roots re-sprouting which could take up to five or ten years. Soil erosion may be significant.

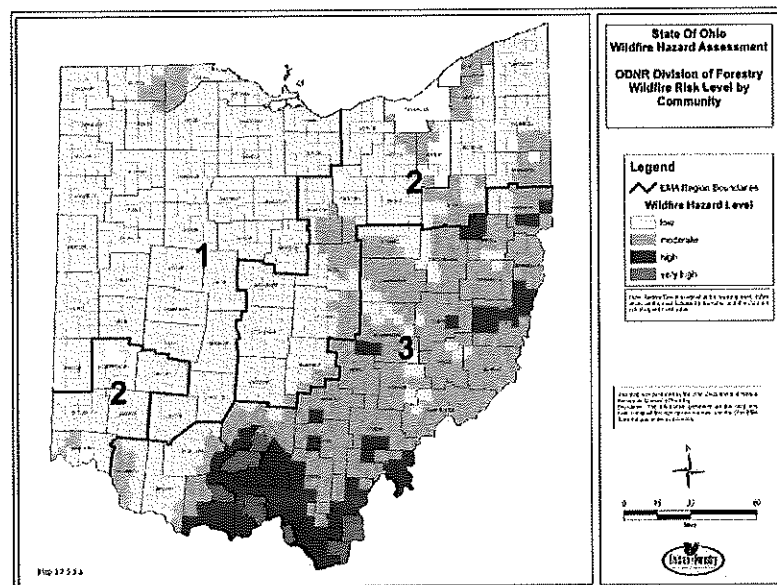
HISTORY / OCCURRENCES:

There has not been a documented (per Ohio Department of Natural Resources) wildfire events in Warren County. Although Ohio has had several wildfires throughout the state, the region near Warren County has not yet sustained any substantial damage attributed to fires for as long as records have been maintained. Most of the wildfire risk in Ohio is located in the southern southeastern and eastern parts of the state (Region 3 of State of Ohio Wildfire Hazard Assessment). Warren County lies within Region 2 of the State of Ohio Wildfire Hazard Assessment, which is outside of the ODNR Wildfire protection area boundary.

- Between January 1st of 1997 and November 20th of 2007 there have been 8,235 wildfires in Ohio which burned 42,622 acres. (ODNR)

Figure 26: State of Ohio Map of Wildfire Hazard Assessment

State of Ohio Hazard Mitigation Plan



PROBABILITY OF OCCURRENCE / RISK:

There is no historical precedence in Warren County to determine frequency, though the probability of wildfires will increase as climate change impacts increase in the region, possibly resulting in drier or more windy conditions.

DAMAGES AND IMPACTS FROM WILDFIRES:

Damage Extent:

Spatial Extent
Most likely localized. Sufficient water capability and urbanized areas to keep from spreading county-wide.
Estimated losses
According to the State of Ohio Hazard Mitigation Plan, Warren County is in the low hazard level zone for wildfire. The total number of critical facilities that could sustain damages equals approximately \$159 million. Additional damages to residential neighborhoods and other businesses could equal twice that amount.
Critical Infrastructure Affected
Potentially all critical infrastructure in the localized area could be affected by the effects of wildfire.

WARNINGS:

There are a few different warning types for wildfires:

- **Fire Weather Watch:** means critical fire weather conditions are possible but not imminent or occurring. A fire weather watch, alerts land managers and the public that upcoming weather conditions could result in extensive wildland fire occurrence or extreme fire behavior.
- **Red Flag Warning:** is issued when fire conditions are ongoing or expected to occur shortly. NWS issues Red flag Warnings in conjunction with land management agencies to alert land managers to an ongoing or imminent critical fire weather pattern.
- **Extreme Fire behavior:** implies a wildfire is likely to rage out of control. It is often hard to predict these fires because they behave erratically, sometimes dangerously. In order to receive the extreme fire behavior alert, one of the following criteria must be met:
 - The fire must be fast-moving
 - Prolific crowning or spotting
 - Presence of fire whirls
 - Strong convection column

CONDITIONS THAT MAY EXACERBATE OR MITIGATE THE EFFECTS OF WILDFIRES:

Ohio's wildfire seasons occur primarily in the spring (March, April and May) before vegetation has "greened-up" and the fall (October and November) when leaf drop occurs. During these times and especially when weather conditions are warm, windy and with low humidity, cured vegetation is particularly susceptible to burning. Fuel (vegetation, woody debris), weather (wind, temperature, humidity) and topography (hills and valleys) can combine to present an extreme danger to unwary civilians and firefighters in the path of a wildfire. *(Source: ODNR Division of Forestry)*

Most wildfires in Ohio are caused by human action or accident. Public education about wildfire risks could assist with mitigating certain wildfire incidents.

5.0 MITIGATION STRATEGY

The mitigation strategy describes how the community will accomplish the mission of the planning process, which is to reduce risk. In this section, mitigation goals and objectives were assigned, and mitigation actions were updated / amended, identified, evaluated, and prioritized.

5.1 MITIGATION GOALS

Through the planning process, Warren County jurisdictions and stakeholders determined the county is prone to 14 major hazards. After reviewing and prioritizing those hazards, the planning team identified 5 goals representing the County's long-term mission to achieve successful mitigation efforts and reduce overall risk to life, property, and the environment from the effects of the 14 identified hazards. The associated objectives are specific to this mitigation plan and contain strategies and steps to assist communities attain the goals that are listed in this plan.

Goal 1: Promote public awareness of hazard risks and available mitigation options

- a. Improve public outreach and access to hazard information, data, and maps to enhance understanding of natural hazards and the risks they pose.
- b. Improve public knowledge of natural and man-made hazards and protective measures so individuals appropriately prepare for and respond to such hazards.

Goal 2: Avoid or reduce the potential for life loss, injury and health issues to Warren County residents from hazard events

- a. Identify and reduce the health and safety impacts of hazards on vulnerable populations.
- b. Promote enforcement of state and local building codes and support other structural interventions to reduce vulnerability.
- c. Improve and promote systems that provide early warning communications during and prior to an emergency.
- d. Adopt and enforce public policies to promote resilient development and enhance safe construction in high hazard areas.
- e. Increase ability to shelter population before and after disaster events
- f. Incorporate effective mitigation strategies into capital improvement projects.

Goal 3: Protect all forms of infrastructure including transportation, utilities, and waterways from being compromised by hazard events.

- a. Implement mitigation programs that protect and sustain the reliability of lifelines systems to minimize impacts from hazards and expedite recovery in an emergency.
- b. Improve / create redundancies for critical networks such as water, transportation, energy, sewer, digital, data and power, and communications.
- c. Promote greater collaboration and communication between infrastructure partners regarding known or possible issues that could affect Warren County infrastructure.

Goal 4: Encourage mitigation activities to increase the disaster resilience of institutions, private companies, and systems essential to the functions of Warren County

- a. Encourage Continuity of Operations planning to assist Warren County jurisdictions, businesses, and private companies sustain operations and recover more quickly following hazard events.
- b. Form partnerships to leverage and share resources prior to and following hazard events.
- c. Improve understanding of available funding sources for mitigation efforts
- d. Partner with private sector to promote structural and non-structural hazard mitigation as a part of standard business practices.

Goal 5: Increase the ability of local government to serve the community during and after hazard events.

- a. Increase knowledge for jurisdictional leaders and departments relative to disaster planning and mitigation activities.
- b. Consider the impacts of hazards on future land use decisions in jurisdictions by coordinating with other planning mechanisms.

5.2 MITIGATION STRATEGIES AND ACTIONS

The goals listed above, as well as the hazards assessed for this plan, influenced the development of actions the county and participating jurisdictions can take to mitigate the impacts of the identified hazards and their effects. Plan participants assessed over 150 hazard mitigation strategies/actions compiled from FEMA documents, neighboring county mitigation plans, the 2015 Warren County Hazard Mitigation Plan, and suggestions from participating communities and stakeholders during a workshop held in January 2020. The results of that workshop are included in this section of the plan.

Updates on previous projects

Prior to identifying new projects for the 2020 plan, participants were asked to indicate the status of mitigation actions included in the previous plan, listing whether each project was complete, deleted, deferred, or ongoing. Those that were listed as ongoing or deferred were given explanation of whether they should be included in the current plan update.

Table 37 (pages 86-90) lists the projects in the 2015 county Hazard Mitigation Plan (in order of hazard ranking) and their status.

In addition to the mitigation strategies listed in the 2015 plan, the following activities were completed to support mitigation in the Warren County: *(Note this list is not all inclusive as other projects may have been completed but not reported to Warren County EMA to include in this plan)*

- Jurisdictional mitigation projects:
 - The Village of Waynesville has installed a new outdoor warning siren.
 - The Village of Waynesville, City of Mason, and Hamilton and Deerfield Townships have all built new fire department facilities.
 - The village of Carlisle has begun building a new K-12 school to replace old, unsecure school buildings.
 - The City of Franklin has created a task force for helping people with opioid and other addictions.
- County Mitigation projects:
 - The county Communications Center and Emergency Management Agency were moved into a new facility. The Emergency Operations Center was also moved to this facility and equipment was upgraded to better serve the county in times of disaster.
 - River gauges were installed on the Little Miami River at State Route 48 and at Todds Fork to better forecast river levels and provide advanced warning to residents at risk for flooding.
 - Improvements were made to the county EMA website to help educate the public about emergencies and disasters.
 - Warren County EMA performed multiple public education and outreach events talking about hazard mitigation.
 - Increased usage of social media for educational information and emergency notifications.
 - Use of IPAWS for emergency notifications to the public.
 - Improved volunteer management process by supporting creation of a county Citizen Emergency Response Team.
 - Improved plans and processes for internal emergency management operations and disaster operations.
 - Performed Safety Assessments for Warren County School Districts.
 - Updated the county Emergency Operations Base Plan and the county Disaster Recovery Plan.
 - Warren County Sheriff's Department has conducted annual training with local police agencies.
 - Warren County School Districts have conducted quarterly fire drills in conjunction with local fire authorities and annual emergency drills.
 - The County Engineer's Department continued maintenance and improvements on county roadways and bridges.
- Water and Sewer projects (as reported by Warren County Water and Sewer Department, Cincinnati Water Works, and Springboro Water)
 - Ongoing maintenance of Emergency Action Plans (EAP).
 - On-going maintenance of security, alarms and power outage systems for flood and wind events.

- Maintain water disruption/treatment plans.
- Following Ohio EPA mandated contingency plans.
- Electric Company mitigation projects (as reported by Duke Energy and Dayton Power & Light (aka Vectren Energy))
 - Improved understanding/training of Incident Command System (ICS) processes.
 - Routine inspections and maintenance of power transmission systems.
 - Multiple hazard response plans.
 - Smart Grid Technology to improve outage identification.
 - Significant trained resources to meet surge requirements.
 - Trimming trees and vegetation away from transmission lines for high wind events.
- Ohio Department of Transportation mitigation projects
 - Improved road monitoring and additional OHGO cameras.
 - Expansion of GPS/AVL technology to optimize route scheduling.
 - Ongoing culvert and road inspections.
 - Review of engineering data to identify corrective actions.

5.3 CAPABILITY ASSESSMENT

The capability assessment identifies current activities used to mitigate hazards. This includes policies, regulations, procedures, programs, and projects that contribute to the reduction of damages from a hazardous event. The following section identifies existing plans and mitigation capabilities within the communities listed in this plan.

Planning Assessment

	Master Plan	Capital Improvement Plan	Economic Development Plan	Local EOP	Continuity of Ops Plan	Transportation Plan	Stormwater Management Plan
Butlerville	-	-	-	-	-	-	-
Carlisle	-	-	-	-	-	-	-
Clearcreek Twp.	Yes	No	No	Yes	No	No	No
Corwin	-	-	-	-	-	-	-
Deerfield Twp.	Yes	Yes	Yes	Yes	No	No	Yes
Franklin	-	-	-	-	-	-	-
Franklin Twp.	No	No	No	No	No	No	No
Hamilton Twp.	Yes	No	Yes	Yes	No	No	No
Harlan Twp.	-	-	-	-	-	-	-
Harveysburg	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Lebanon	Yes	Yes	No	Yes	Yes	Yes	Yes
Loveland	-	-	-	-	-	-	-
Maineville	Yes	No	No	Yes	No	No	Yes
Massie	-	-	-	-	-	-	-
Mason	Yes	Yes	Yes	No	No	Yes	Yes
Middletown	-	-	-	-	-	-	-
Monroe	-	-	-	-	-	-	-
Morrow	Yes	No	Yes	Yes	No	No	No
Pleasant Plain	-	-	-	-	-	-	-
Salem Twp.	-	-	-	-	-	-	-
South Lebanon	-	-	-	-	-	-	-
Springboro	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Turtlecreek Twp.	Yes	Yes	Yes	Yes	No	No	Yes
Union Twp.	-	-	-	-	-	-	-
Washington Twp.	-	-	-	-	-	-	-
Wayne Twp.	Yes	Yes	No	-	-	Yes	-
Waynesville	Yes	Yes	No	Yes	Yes	No	Yes

- Equals "did not assess" or answer

Ordinance Assessment

	Zoning Ordinance	Subdivision Ordinance	Floodplain Ordinance	Natural Hazard Specific Ordinance	Flood Insurance Rate Maps	Acquisition of land for open space
Butlerville	-	-	-	-	-	-
Carlisle	-	-	-	-	-	-
Clearcreek Twp.	Yes	Yes	Yes	Yes	Yes	Yes
Corwin	-	-	-	-	-	-
Deerfield Twp.	Yes	No	No	No	No	Yes
Franklin	-	-	-	-	-	-
Franklin Twp.	Yes	Yes	Yes	Yes	Yes	Yes
Hamilton Twp.	Yes	No	No	No	No	Yes
Harlan Twp.	-	-	-	-	-	-
Harveysburg	Yes	Yes	No	No	No	No
Lebanon	Yes	Yes	Yes	Yes	Yes	Yes
Maineville	Yes	Yes	Yes	Yes	Yes	No
Massie	-	-	-	-	-	-
Mason	Yes	Yes	Yes	Yes	Yes	Yes
Morrow	Yes	Yes	Yes	No	Yes	Yes
Pleasant Plain	-	-	-	-	-	-
Salem Twp.	-	-	-	-	-	-
South Lebanon	-	-	-	-	-	-
Springboro	Yes	No	Yes	Yes	Yes	Yes
Turtlecreek Twp.	No	No	No	No	No	No
Union Twp.	-	-	-	-	-	-
Washington Twp.	-	-	-	-	-	-
Wayne Twp.	Yes	Yes	Yes	No	No	Yes
Waynesville	Yes	Yes	Yes	No	No	No

- Equals "did not assess" or answer

Financial Assessment

	Capital Improvement	Authority to levy taxes	Fees for utilities	Impact fees for new development	Stormwater Utility Fee	General obligation or tax bonds	Private Funding	Community development Block Grant	Other Federal Funding
Butlerville	-	-	-	-	-	-	-	-	-
Carlisle	-	-	-	-	-	-	-	-	-
Clearcreek Twp.	Yes	No	No	No	No	Yes	Yes	Yes	Yes
Corwin	-	-	-	-	-	-	-	-	-
Deerfield Twp.	-	-	-	-	-	-	-	-	-
Franklin	-	-	-	-	-	-	-	-	-
Franklin Twp.	Yes	No	No	No	No	No	No	No	Yes
Hamilton Twp.	Yes	Yes	No	No	No	Yes	No	Yes	Yes
Harlan Twp.	-	-	-	-	-	-	-	-	-
Harveysburg	-	-	-	-	-	-	-	-	-
Lebanon	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes
Maineville	Yes	Yes	Yes	-	Yes	Yes	-	Yes	Yes
Massie	-	-	-	-	-	-	-	-	-
Mason	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Morrow	Yes	Yes	Yes	-	-	-	-	Yes	Yes
Pleasant Plain	-	-	-	-	-	-	-	-	-
Salem Twp.	-	-	-	-	-	-	-	-	-
South Lebanon	-	-	-	-	-	-	-	-	-

	Capital Improvement	Authority to levy taxes	Fees for utilities	Impact fees for new development	Stormwater Utility Fee	General obligation or tax bonds	Private Funding	Community development Block Grant	Other Federal Funding
Springboro	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
Turtlecreek Twp.	-	-	-	No	-	Yes	-	-	-
Union Twp.	-	-	-	-	-	-	-	-	-
Washington Twp.	-	-	-	-	-	-	-	-	-
Wayne Twp.	Yes	-	No	No	No	No	No	Yes	-
Waynesville	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes

- Equals "did not assess" or answer

Administrative and Technical Assessment

	Planning Commission	Mitigation Planning Committee	Maintenance Programs	Mutual Aid Agreements
Butlerville	-	-	-	-
Carlisle	-	-	-	-
Clearcreek Twp.	Yes	No	Yes	Yes
Corwin	-	-	-	-
Deerfield Twp.	No	No	Yes	Yes
Franklin	-	-	-	-
Franklin Twp.	No	No	No	Yes
Hamilton Twp.	No	Yes	Yes	Yes
Harlan Twp.	-	-	-	-
Harveysburg	Yes	No	Yes	No
Lebanon	Yes	No	Yes	Yes
Maineville	Yes	Yes	Yes	Yes
Massie	-	-	-	-
Mason	Yes	No	Yes	Yes
Morrow	Yes	No	Yes	Yes
Pleasant Plain	-	-	-	-
Salem Twp.	-	-	-	-
South Lebanon	-	-	-	-
Springboro	Yes	No	Yes	Yes
Turtlecreek Twp.	No	No	Yes	Yes
Union Twp.	-	-	-	-
Washington Twp.	-	-	-	-
Wayne Twp.	Yes	No	Yes	Yes
Waynesville	Yes	No	Yes	Yes

- Equals "did not assess" or answer

Extreme Temperatures

Purchase generators to continue to supply power to heating/cooling shelters in the event of temperature extremes		
Jurisdiction:	Status:	Comments:
Village of Carlisle	Deferred	Incorporated into 2020 projects

Winter Storms

Review needs and purchase (if necessary) equipment for snow removal.					
Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
Village of Butlerville	Deleted	Part of on-going maintenance	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Part of on-going maintenance	City of Mason	Deleted	Part of on-going maintenance
Village of Corwin	Deleted	Not participating in 2020 plan projects at this time	City of Monroe	Deleted	Part of on-going maintenance
City of Franklin	Deleted	Part of on-going maintenance	Village of Morrow	Deleted	Part of on-going maintenance
Village of Harveysburg	Deleted	Part of on-going maintenance	Village of Pleasant Plain	Deleted	Part of on-going maintenance
City of Lebanon	Deleted	Part of on-going maintenance	Village of South Lebanon	Deleted	Part of on-going maintenance
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.	Village of Springboro	Deleted	Part of on-going maintenance
Village of Waynesville	Deleted	Part of on-going maintenance			
Develop a resource manual that can be used to inventory emergency resources that can be deployed to aid in the event of a severe winter storm					
City of Mason	Ongoing	New project number 106.			
Purchase additional generators so that more critical facilities can operate if/when the power is disrupted as a result of winter / summer storms					
City of Lebanon	Deleted	Project no longer needed			

Earthquake

Promote equipment fastening within municipal facilities		
Jurisdiction:	Status:	Comments:
City of Springboro	Deleted	Updated equipment purchased with proper weight to reduce movement.
Review Building codes and evaluate low cost earthquake resistant features		
Village of Maineville	Deleted	Not participating in 2020 plan projects at this time.
Utilize state-developed program explaining the potential for earthquakes, as well as the potential damages from those earthquakes. The brochure includes information pertaining to measures to take to safe-proof homes and other structures from the potential effects of earthquakes		
Village of Morrow	Deleted	Not a jurisdictional priority at this time.

Summer Storms

Install uninterruptable power supplies on critical electronic equipment in municipal facilities		
Jurisdiction:	Status:	Comments:
City of Springboro	Completed	All traffic signals and main building have backup generators installed.
Install surge protectors on sensitive electronic equipment in municipal facilities		
Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
Promote the use of special roofing shingles designed to interlock and resist uplift forces for both new construction and retrofits		
City of Monroe	Deferred	New Project 26

Tornado

Continue to expand and strengthen the outdoor warning siren coverage in Warren County and its jurisdictions					
Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
Village of Harveysburg	Deleted	Twp has siren on firehouse			
Undertake safe room installation projects, where applicable, to protect citizens from effects of tornadoes and straight-line winds					
Village of Butlerville	Deferred	New project number 25.	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Not needed at this time.	City of Mason	Deferred	New project number 25.
Village of Corwin	Deleted	Not participating in plan	City of Monroe	Deleted	Lack of Funding
City of Franklin	Deleted	Not a priority in Franklin	Village of Morrow	Deleted	Lack of resources to complete this project.
Village of Harveysburg	Deferred	Pending grants. New project number 25.	Village of South Lebanon	Deleted	Lack of Funding
City of Lebanon	Deleted	No Longer needed	Village of Springboro	Deleted	No local funding available.
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.	Village of Waynesville	Deleted	Not a priority
Seek funding to build tornado/high wind shelters in areas surrounded by vulnerable populations					
Village of Pleasant Plain	Ongoing	New project number 25.			
Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm					
Village of Butlerville	Ongoing	New project number 129.	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Will get info from county EMA	City of Mason	Ongoing	New project number 129.
Village of Corwin	Deleted	Not participating in 2020 plan projects at this time	City of Monroe	Completed	
City of Franklin	Deleted	Will get info from county EMA	Village of Morrow	Completed	Updated tornado siren was installed within the last yr.
Village of Harveysburg	Deleted	Will get info from county EMA	Village of Pleasant Plain	Ongoing	New project number 129.
City of Lebanon	Completed		Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.	Village of Springboro	Ongoing	New project number 129.
Village of Waynesville	Deleted	Will get info from county EMA			
Encourage residents to secure yard items, or stored items including oil, gasoline, and propane tanks that may be swept away by high winds					
Village of Butlerville	Ongoing	New project number 5.	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Will get info from county EMA	City of Mason	Ongoing	New project number 5.
Village of Corwin	Deleted	Not participating in 2020 plan projects at this time	City of Monroe	Completed	
City of Franklin	Deleted	Will get info from county EMA	Village of Morrow	Completed	
Village of Harveysburg	Deleted	Already do public education	Village of Pleasant Plain	Ongoing	New project number 5.
City of Lebanon	Completed		Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.	Village of Springboro	Ongoing	New project number 5.
Village of Waynesville	Deleted	Will get info from county EMA			
Reduce the risk of mobile home damage by promoting the use of tie-downs with ground anchors for the appropriate soil types					
Village of Morrow	Ongoing	New project number 26.			

Drought

Develop a mutual aid agreement/planning mechanism to provide water in drought events that may impact local aquifers, to include the Old Mason Water Treatment Facility.					
Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
City of Mason	Deleted	Not needed at this time			
Promote the use of water saving techniques (such as low-flow showerheads and toilets)					
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.			
Examine ordinances that can be written to prioritize or control water use during emergency drought conditions					
City of Middletown	Deleted	Deleted due to being in Butler County's plan.			

Flood

Development of building codes which restrict building structures within the floodplain.					
Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
Village of Butlerville	Ongoing	New project number 34.	City of Mason	Completed	
Village of Carlisle	Ongoing	New project number 34.	City of Monroe	Completed	
City of Franklin	Completed		Village of Morrow	Completed	Reflected in village zoning code.
City of Lebanon	Completed		Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Covered in Clermont's plan	Village of Springboro	Deleted	City follows FEMA regulations.
Village of Maineville	Deleted	Not participating in 2020 plan projects at this time	Village of Waynesville	Deleted	Already in local codes
Development of building codes which restrict building structures in areas with wandering streams.					
Village of Butlerville	Ongoing	New project number 34.	City of Mason	Completed	
Village of Carlisle	Ongoing	New project number 34.	City of Monroe	Completed	
City of Franklin	Completed		Village of Morrow	Deleted	Not needed
City of Lebanon	Completed		Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Covered in Clermont's plan	Village of Springboro	Deleted	City follows FEMA
Village of Maineville	Deleted	Not participating in 2020 plan projects at this time	Village of Waynesville	Deleted	Already in local codes
Update Warren County Flood Damage Prevention Regulations that would allow the County to better regulate construction within the 100-year floodplain.					
Village of Butlerville	Ongoing	New project number 34.	City of Mason	Completed	
Village of Carlisle	Ongoing	New project number 34.	City of Monroe	Completed	
City of Franklin	Completed		Village of Morrow	Deleted	County will handle
City of Lebanon	Completed		Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Covered in Clermont's plan	Village of Springboro	Deleted	City follows FEMA regulations.
Village of Maineville	Deleted	Not participating in 2020 plan projects at this time	Village of Waynesville	Deleted	County will handle
Continually assess the areas that are affected during flood events to best determine proper land use in those areas					
Village of Butlerville	Ongoing	New project number 16.	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Not needed at this time	City of Mason	Ongoing	New project number 16.
Village of Corwin	Deleted	Not participating in 2020 plan projects	City of Monroe	Ongoing	New project number 16.
City of Franklin	Deleted	Maintenance item	Village of Morrow	Completed	
Village of Harveysburg	Deferred	New project number 16.	Village of Pleasant Plain	Ongoing	New project number 16.
City of Lebanon	Ongoing	New project number 16.	Village of South Lebanon	Deleted	Not participating in 2020 plan projects
City of Loveland	Deleted	Covered in Clermont's plan	Village of Springboro	Ongoing	New project number 16.
Village of Waynesville	Deleted	Not needed at this time			

Flood (cont.)

Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
Ensure NFIP requirements are being met concerning repairs, renovations, and remodeling of structures located in the regulatory floodplain					
Village of Carlisle	Deleted	Floodplain Managers job description			
Update existing flood damage prevention ordinances (As they relate to 44 CFR 60.3)					
City of Franklin	Completed				
Acquisition / Demolition of the Village of South Lebanon Administration building and the Warren County Sheriff's Office South Lebanon Outpost					
Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time			
Identify need for and install stormwater systems to address flood concerns.					
Village of Buttrville	Deferred	New project number 16.	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Lack of funding	City of Mason	Ongoing	New project number 16.
Village of Corwin	Deleted	Not participating in 2020 plan projects at this time	City of Monroe	Deferred	New project number 16.
City of Franklin	Ongoing	New project number 16.	Village of Morrow	Ongoing	New project number 16.
Village of Harveysburg	Deferred	New project number 16.	Village of Pleasant Plain	Deferred	New project number 16.
City of Lebanon	Ongoing	New project number 16.	Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.	Village of Springboro	Ongoing	New project number 16.
Village of Waynesville	Deferred	New project number 35.			
Identify need for and install culverts to protect vulnerable roadways.					
Village of Buttrville	Deferred	New project number 16.	Village of Maineville	Deleted	Not participating in 2020 plan projects at this time
Village of Carlisle	Deleted	Lack of funding	City of Mason	Ongoing	New project number 16.
Village of Corwin	Deleted	Not participating in 2020 plan projects at this time	City of Monroe	Deferred	New project number 16.
City of Franklin	Ongoing	New project number 16.	Village of Morrow	Completed	
Village of Harveysburg	Deferred	New project number 16.	Village of Pleasant Plain	Deferred	New project number 16.
City of Lebanon	Ongoing	New project number 16.	Village of South Lebanon	Deleted	Not participating in 2020 plan projects at this time
City of Loveland	Deleted	Deleted due to being in Clermont County's plan.	Village of Springboro	Deleted	Limited vulnerable roads, generally curb and gutter.
Village of Waynesville	Deferred	New project number 35.			
Conduct Demolition/Removal projects for two Mason City owned buildings that were flooded in the 2001 event.					
City of Mason	Deleted	1 building has been removed, 1 remains for training.			
Place depth markers on frequently flooded roads to advise travelers of flooding depths					
Village of Morrow	Ongoing	New project number 153.			
Identify structure inventory for properties at-risk to flood (especially properties located in the special flood hazard area/1% annual chance area)					
Village of Carlisle	Completed				
Determine the need for upgrades/enhancements to the storm sewers in the City of Lebanon					
City of Lebanon	Ongoing	New project number 19.			

Wildfire

Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
Promote fuel reduction in areas prone to wildfires					
Village of Corwin	Deleted	Not participating in 2020 plan projects at this time			

Dam Failure

Jurisdiction:	Status:	Comments:	Jurisdiction:	Status:	Comments:
Coordinate with dam owners to ensure that their inundation mapping and response plans are being kept up to date					
City of Mason	Completed				
Develop land use strategies to promote the safe use of land downstream from dams					
Village of Waynesville	Deleted	County is handling dams.			
During any and all new dam construction, encourage the completion of a critical flood engineering analysis by a professional engineer licensed in the State of Ohio					
Village of Waynesville	Deleted	County is handling dams.			

Mitigation Strategies and Actions for the 2020 Plan

A mitigation strategy workshop was conducted on January 23, 2020. The purpose of the meeting was to review the mitigation strategy goals and objectives and to choose mitigation projects that would reduce risks to the hazards identified in the plan.

Projects that were chosen by participants were evaluated and scored for their inclusion in the plan. Project evaluations were based on the percentage of population benefitted, cost of the strategy, cost benefit of the initiative, feasibility of implementation, environmental impact, probability of community acceptance, and the time to complete the project. Once all factors were considered, the jurisdiction assigned an interest score to determine if the project would be included in the plan. This process resulted in a list of 71 strategies and actions for the 2020 plan. The list of mitigation strategies by hazard is included in Table 38 (pp. 92-95). A more comprehensive list sorted by jurisdictional priority is provided in Appendix 6 (pp. 116-130).

To determine jurisdictional priority for projects, all scores were added, and the sum multiplied by a hazard priority number (with multi-Hazard Projects receiving the highest number and the lowest ranking hazard, wildfires, receiving the lowest number). The total combined score per project was divided by 100 to determine the priority of each project per jurisdiction. An example of the hazard ranking sheet with scoring is included in Figure 27.

Figure 27: Example Hazard Mitigation Project Scoring / Priority Sheet

WCEMA Mitigation Projects 2020		Percentage of Population Benefitted	Cost of Initiative	Cost Benefit of Initiative	Feasibility of Implementation	Environmental Impact	Probability of Community Acceptance	Time to Complete Projects	Jurisdictional/ Organization Interest	Hazard Applied To	Priority Score
		Based on relative data and/or estimates	Monetary cost to implement the project based upon estimates and quotes	The cost benefit includes any possible outcomes that the project may produce	Involves how easy a project may be to complete including physical location, scope of project, cost and expenses	Some projects may contain a component where any work that is performed must meet guidelines that limit or reduce the environmental impacts	May involve surveying the community, analyzing demographic information, and/or determining the need for the project in a specific area	Estimated time to complete the project including the total time needed upon receiving funding until completion of project	Does your jurisdiction/organization have interest in moving forward with this mitigation project?		
		1 = 0% to 25% 2 = 26% to 50% 3 = 51% to 75% 4 = 76% to 100%	1 = Additional funding sources are needed to implement project 2 = Funding is possible through re-allocation of funds or cost spread over multiple years required 3 = Project could be funded with existing budget	1 = Long term benefits are difficult to quantify 2 = Project impact will be visible over a long-term period 3 = Project will have an immediate benefit impact on reduction of risk to life and property	1 = Very difficult to implement 2 = Somewhat difficult to implement 3 = Relatively easy to implement 4 = Implementation has no anticipated difficulty	1 = Major changes that affect the environment 2 = Minor changes that affect the environment 3 = Changes affect only specific terrain or territories 4 = No environmental impact	1 = 0% to 25% 2 = 26% to 50% 3 = 51% to 75% 4 = 76% to 100%	1 = Continuous project 2 = Greater than 3 years 3 = 1 year to 3 years 4 = Less than 1 year	1 = Interested in project however will not be able to produce the funds or resources necessary 2 = Would like to move forward with this project		
Project #	Description/Location	1-4	1-3		1-4			1-2	1-13	Sum x hazard score / .10 (rounded to nearest whole number)	
6	Shelter-in-place education	4	3	1	3	4	4	1	2	13	28.6
12	Shelters	2	3	1	2	3	3	3	2	13	24.7
13	support debris management plan development in local jurisdictions	1	3	1	3	4	4	1	2	13	24.7
18	education for local officials on disasters	2	3	1	3	4	4	1	2	13	26
19	tracking damages for future events	2	3	2	3	4	4	1	2	13	27.3
23	intelligence and information sharing	4	3	1	3	4	3	1	2	13	27.3
40	public educations about illicit discharge	4	3	1	3	4	4	1	2	10	22
54	Designate an IIO	4	3	1	3	4	4	4	2	7	17.5

Copies of jurisdictional / agency mitigation project sheets were filed with WCDES and provided in the mitigation binders given to HMP participants.

Table 38 lists the projects in the 2020 county Hazard Mitigation Plan in order of hazard ranking. Additionally, Appendix 6 (starting on Page 115) breaks down the projects by jurisdiction and provides more specific detail.

Table 38: 2020 Mitigation Project List

Project Number:	Project:	Interested Organizations:	Goal/ Objective
MULTI-HAZARD			
1	Identify and install hazard notification systems (consider device-neutral systems as well as conventional notification systems)**To also include consideration for person's with access and functional needs.**	Mason	1A,1B,2C
2	Increase the use of social media to warn residents and visitors of extreme weather and man-made events.	Carlisle, Lebanon, Monroe, Turtlecreek, WC Regional Planning	1A,1B,2C
3	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Butterville, Carlisle, Franklin, Franklin Township, Harlan, Lebanon, Mason, Monroe, Pleasant Plain, Turtlecreek, Wayne, WC Career Center (x2)	2A,3A,3B
4	Develop a plan for evacuating populations at any given time. **To also include consideration for person's with access and functional needs.**	Deerfield, WC Regional Planning, WC Sheriff's Office	1A,1B
5	Protect propane tanks or other external fuel sources.	Butterville, Deerfield, Harlan, Mason, Pleasant Plain, Springboro, Turtlecreek	2B,2F
6	Educate the public on what "shelter in place" means and how this action is performed.	Deerfield, Franklin, Hamilton, Lebanon, Monroe, Wayne, WC Emergency Services, WC Sheriff's Office	1B,2E
7	Develop education programs for residents, tourists, businesses, etc. for hazard-specific threats.	Hamilton, Lebanon	1A,1B,5A
12	Build/establish shelters with generators that can serve displaced citizens. Include how animals (domestic and rural) will be addressed in sheltering.	Carlisle, Monroe, WC Emergency Services	2A,2E
13	Collaborate with visitor's bureau and other local businesses that draw in tourists/visitors to provide hazard preparedness and response information.	WC Emergency Services	1A,1B,2A,2C
14	Require event planners to incorporate emergency and disaster planning into their event plans and to submit a copy of this plan to local elected and public safety officials.	Deerfield	1A,1B,4A
15	Adopt a debris management plan that allows the jurisdiction to recover quicker from hazard events.	Deerfield, Franklin Township, Mason, Monroe, Turtlecreek	2A,3A,4B
16	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Butterville, Deerfield, Franklin, Franklin Township, Harlan, Harveysburg, Lebanon, Mason, Monroe, Morrow, Pleasant Plain, Springboro, Turtlecreek, Wayne,	3A,4A
18	Encourage on-going education for seasoned and newly elected officials to familiarize them with the disaster cycle of prevention, preparedness, mitigation, response and recovery.	Carlisle, WC Emergency Services, WC Regional Planning	5A
19	Track and trend locations that have received damage from hazard events in order to more adequately identify mitigation options to prevent further damages.	Butterville, Deerfield, Harlan, Lebanon, Mason, Monroe, Pleasant Plain, Springboro, Turtlecreek, Wayne, WC Emergency Services	1A,2A,5B
20	Support and increase participation in Sky Warn Program.	Carlisle	1A,1B,2A,2C
21	Conduct all-hazard vulnerability assessments at critical infrastructures.	WC Sheriff's Office	4A,4B,4C

Project Number:	Project:	Interested Organizations:	Goal/ Objective
23	Develop and maintain an intelligence and information sharing platform with private and public agencies to identify and reduce threats/hazards.	WC Emergency Services	2A,2B,3C,4B
24	Establish MOU's to provide potable and non-potable water to meet the public's needs.	Franklin Township	3C,4B
25	Install safe rooms to shelter the population during tornado events.	Butlerville, Harlan, Harveysburg, Mason, Pleasant Plain, Wayne	2A,2E
26	Adopt and enforce building codes for residential and commercial construction that prevents wind damage	Monroe, Morrow, Waynesville,	2B,4A
27	Promote Ohio's Safe Room Application program to residents for installation of tornado safe rooms in their homes.	Wayne	1B,5A
28	Assist jurisdictional plan for debris management, mass sheltering, and animal sheltering operations.	Clearcreek, WC Health District, WC Regional Planning, WC Sheriff's Office	1A,1B,2A,2E,3A,5A
129	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm	Butlerville, Deerfield, Harlan, Mason, Pleasant Plain, Springboro, Turtlecreek	1A,2B,2C,2D
FLOODING/ DAMS			
30	Relocate structures or systems in flood prone or hazard areas - especially those properties identified as historically or culturally significant to the community.	Carlisle, Waynesville	2A,2B,2D,2F,5B
31	Purchase properties susceptible to repeated flooding, remove structures, and enforce permanent restrictions on development.	Waynesville	2A,2B,2D,5B
32	Provide information to property owners in flood-prone areas on the need for NFIP coverage.	Deerfield, Lebanon, Turtlecreek, Waynesville, WC Regional Planning	1B,4C
33	Install and support additional river gauges, especially in communities with repetitive flood events or repetitive (flood) loss structures.	Lebanon	2A,3B
34	Adopt or amend zoning ordinance for better floodplain regulations.	Butlerville, Carlisle, Deerfield, Harlan, Pleasant Plain, Turtlecreek, WC Regional Planning	2B,5B
35	Conduct an upgrade study on storm/sewer line mitigation options.	Waynesville	2A,3A,3C
36	Conduct engineering/impact studies for flood mitigation.	Carlisle, Monroe	5B
38	Conduct regular maintenance for flood control structures such as dams/levees.	Carlisle	4B,4C,5B
39	Develop inspection and regular maintenance programs on dams in coordination with local dam owners.	WC Health District	2F,3A
80	Conduct analyses and flood studies to identify risks, evaluate removal of existing structures in flood zone, and/or identify other potential structural or nature-based solutions to mitigate flooding in Franklin.	Miami Conservancy District	2A,3A
149	Conduct Stream Restoration and Floodplain enhancement via Re-establish/remove fill to enhance floodplain, natural channel design.	Miami Conservancy District	3A,5B
150	Conduct buyout program / acquisition - Relocation of the Franklin Carlisle Great Miami River Overflow	Miami Conservancy District	3A,5B
151	Conduct buyout / demolition of Carlisle and / or Franklin properties susceptible to flood losses	Miami Conservancy District	3A,5B
153	Place depth markers on frequently flooded roads to advise travelers of flooding depths	Morrow	1A,1B,3A

Project Number:	Project:	Interested Organizations:	Goal/ Objective
HAZARDOUS MATERIALS			
40	Create public education campaign about illicit discharge and how to report spills.	Carlisle, WC Emergency Services, WC Health District, WC Regional Planning	1A,1B,3A
42	Conduct jurisdictional fire inspections of facilities that contain hazardous materials.	Carlisle	2B,2F,4A,4D
43	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Butlerville, Harlan, Pleasant Plain, WC Regional Planning, WC Sheriff's Office	1B,2A,4B
44	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Carlisle, Wayne, WC Sheriff's Office,	2A,3A,3B,3C,5A
45	Require public permitting process to include calling 811 and providing a copy of their dig ticket.	Franklin, Lebanon	1A,1B,2D,3A
46	Promote use of 811 to residents and businesses that sell products that require digging.	Monroe, Wayne	1A,1B,2D,3A
WINTER STORMS			
47	Enhance existing snow removal equipment and supplies.	Carlisle, Franklin Township, Monroe, Morrow	3A,3C,4A,4B
48	Evaluate and retrofit older buildings, especially large span buildings that may have inadequate snow load tolerances.	Butlerville, Harlan, Pleasant Plain	2A,2B,5B
51	Install or plant snow fences or "living snow fences" (rows of trees or vegetation) to limit blowing and drifting of snow over critical roadway segments.	Carlisle, Franklin, WC Regional Planning	2A,3A
106	Develop a resource manual that can be used to inventory emergency resources that can be deployed to aid in the event of a severe winter storm	Mason	1B,3C,4A,5A
MAN-MADE EVENTS			
52	Install physical protective measures for critical infrastructures. (i.e. fences, lighting, bollards, etc.)	Carlisle, Franklin	2A,3A,5B
53	Develop a training and education program for active aggressor incidents in facilities.	Monroe, Turtlecreek, WC Regional Planning, WC Sheriff's Office	1A,1B,2A,4B,5A
54	Designate an Intelligence Liaison Officer (ILO) to help facilitate intelligence and information sharing regarding man-made events/threats.	WC Emergency Services, WC Health District	1A,3C,5A
56	Develop an active public reporting system for suspicious activity.	WC Sheriff's Office	1A,1B,5A
INVASIVE SPECIES			
58	Develop jurisdictional educational programs for public works (and other applicable) employees to better identify and report possible invasive species.	Carlisle	1B,5A,5B
59	Remove infected vegetation or organisms to eradicate invasive species.	Carlisle	1A,5B
60	Increase Public Health prevention and awareness programs for disease caused by invasive species for county residents.	WC Health District, WC Regional Planning	1A,1B

Project Number:	Project:	Interested Organizations:	Goal/ Objective
EXTREME TEMPERATURES			
61	Acquire warming and/or cooling equipment for facilities with inadequate systems or for response to power outages.	Carlisle	1A,2A,2B,3A,3B,3C,4A,4B
62	Establish and implement water conservation programs.	Carlisle	2A,3A,3B,3C,5B
63	Establish ordinances on non-essential use of water during drought conditions.	WC Sheriff's Office	3A,3B,3C,4A,4B
EARTHQUAKES			
64	Safeguard and harden critical infrastructure systems to meet seismic design standards for "lifelines".	Carlisle	2B,2D,2F,3A,3B,4A
65	Conduct a public building seismic study to determine which buildings are more at risk for damages from an earthquake.	Carlisle	1B,2A,2B,4A
LANDSLIDES			
66	Establish natural means (such as tree planting and conservation) that protects steep slopes from landslides.	Carlisle	2A,3A
69	Install stream bank erosion prevention methods.	Franklin Township	2F,3A
INFECTIOUS DISEASES			
70	Develop plans to respond to infectious diseases, including but not limited to reporting illnesses, social distancing, telecommuting, and facility closures.	WC Regional Planning	2A,4C,5A
71	Promote seasonal influenza vaccination and facilitate on-campus vaccination clinics.	Carlisle	1A,1B,2A,4B,5A
WILDFIRES			
74	Clear fuel loads created by downed trees and dry brush.	Carlisle	2A,3A,5B
76	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas.	WC Regional Planning	1B,2B,2F,5B
78	Construct defensible zones around power lines, oil and gas lines, and other infrastructure systems.	WC Regional Planning	3A,3C,5B
79	Establish wildfire mitigation planning requirements for large scale developments or planned unit developments.	WC Regional Planning	1B,2A,2B,2D,4D
157	Seek State and Federal Grants for the purpose of purchasing and training on better firefighting equipment	Local Fire Chiefs	4C,5A
160	Support and promote Ohio Department of Natural Resources Burn Ordinances	Local Fire Chiefs	1A,1B,4B,5A

6.0 PLAN MAINTENANCE

The 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. 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 Warren County and its jurisdictions.

It is the intention of the Warren County Hazard Mitigation Planning Team to support pre-disaster planning and project activities that can help reduce risk and mitigate future disaster costs for the County. It is also expected that current and future mitigation planning efforts will consist of collaborative, enhanced processes between local and state partners from the public and private sectors.

6.1 PLAN INCORPORATION

The Warren County Hazard Mitigation Plan will be adopted by all municipalities that chose to participate. Additional entities, including townships, may also choose to adopt the plan. After jurisdictions have adopted the plan, their signed resolutions or ordinances will be added to the plan as an appendix.

6.2 MONITORING THE PLAN

The Warren County Department of Emergency Services under the direction of the Warren County Board of Commissioners shall monitor the plan. This includes routine collection of the status of projects listed in the plan, and whether those projects have been completed, deleted, are ongoing, unchanged, or deferred. New projects will also be added where appropriate based on changing risk levels and/or perceived or actual hazard events. Updates will be obtained through annual survey and through collaboration with local public safety officials.

6.3 EVALUATING AND UPDATING THE PLAN

To ensure the plan continues to provide appropriate risk-reduction strategies, it is necessary to regularly evaluate and update it. The core planning team will be responsible for monitoring the status of the plan and gathering appropriate parties to report of the status of mitigation actions on an annual basis. This will be done through electronic survey to stakeholders and in-person surveys at county fire chief's meetings. The public will continue have the opportunity to provide feedback on the plan, as it will be available through the Warren County EMA and Ohio EMA websites and will be available for review at the EMA booth at public events. EMA will utilize other opportunities as they present themselves to solicit feedback from stakeholders and public sources. Warren County EMA will publicly announce updates to the plan as part of the review process, utilizing media, social media, and other methods for posting meeting announcements in the County.

The Warren County Board of Commissioners shall be the responsible party for updating the County's Hazard Mitigation Plan. It shall be updated by addendum either annually or as updates are needed due to changes in risk or risk-reduction strategies. The plan updates will include a record of changes including:

- Status of mitigation activity items
- Changes in prioritization of mitigation action items
- New mitigation activities/items to be added and the priority of the activities/items
- Descriptions of why any actions/items have been deleted or deferred
- One year prior to the expiration of the 5-year FEMA plan approval date, the Plan shall be reevaluated and reviewed per the 5-year planning update process as required by law.

6.4 PLAN INTEGRATION

Hazard mitigation practices must be incorporated within existing plans, projects, and programs. The involvement of all departments, private non-profits, private industry, and appropriate jurisdictions is necessary in order to discover mitigation opportunities within existing or planned projects and programs. Each community will be responsible for updating and integrating elements of the plan into their own respective plans and ordinances. WCDES will be responsible for notifying county departments of the completed Hazard Mitigation Plan so that the respective departments can update their internal documents to reflect the county's mitigation strategy.

APPENDICES

APPENDIX 1 – LIST OF PARTICIPANTS IN THE 2020 HMP PLANNING PROCESS

Title	First Name	Last Name	Agency	Community Survey	Capability Survey	1st Meeting / Hazard Ranking	2nd Meeting	Mitigation Project Updates	Additional Contact with EMA
Safety Director	Tim	Abbott	Duke Energy						x
Fire Chief	Steve	Agenbroad	Clearcreek Twp. Fire Dept.				x		
Zoning Inspector	Stephanie	Austin	Warren County Building/Zoning			x			
Lieutenant	Paul	Bernard	Wayne F.D. / W.C. Telecom			x			x
Director of Support Operations	Gene	Blake	Little Miami Local School District			x	x		
Trustee	Ralph	Blanton	Salem Twp.	x					
Township Administrator	Tammy	Boggs	Turtlecreek Twp.	x	x	x	x	x	
Safety and Risk Coordinator	Jed	Bookman	Sunrise Cooperative			x			
Director	Melissa	Bour	WCDES			x	x		
Director	Chris	Brausch	Warren County Water and Sewer						x
Director	Thomas	Breckel	Clinton County EMA			x			
Fire Chief	Bryan	Brumagen	City of Mason F.D.	x	x	x	x	x	
City Manager	Scott	Brunka	City of Lebanon	x	x				
Sergeant	James	Burn	City of Lebanon Police Dept.			x			
Director of Services	Dan	Casson	Village of Carlisle			x			
Township Administrator	Brent	Centers	Hamilton Twp.	x	x	x	x		
Township Administrator	Matt	Clark	Clearcreek Twp.	x	x	x	x	x	
SW Regional Supervisor	Phillip S.	Clayton	Ohio EMA				x		
Director	Molly	Conley	SWCD						x
Police Chief	Gary	Copeland	Village of Waynesville	x	x	x	x	x	
Service Hydrologist/Meteorologist	Julia	Dian-Reed	NOAA/NWS			x			
Township Administrator	Gus	Edwards	Wayne Twp.	x	x		x	x	
Fire Chief	Chris	Eisele	Deerfield Twp. F.D.	x	x	x	x	x	
Director of Facility Operations	Kim	Fladung	Warren County Career Center			x	x	x	
Village Administrator	Donald	Fugate	Village of Harveysburg	x	x			x	
Public Works Director	Mike	Hanna	Village of Morrow			x	x		
Fire Chief	Michael T.	Hannigan	Franklin Twp.		x	x	x		
Director	Matt	Haverkos	Butler County EMA			x			
District 8 Regional Supervisor	Chuck	Hecht	Ohio Department of Transportation						x
Assistant Administrator /Director of Public Works	Kenny	Hickey	Hamilton Twp.			x	x	x	
Director Public Works	Billy	Highfill	Deerfield Twp.					x	
WC EMA Operations Manager	Lesli	Holt	WCDES			x	x		
Service Supervisor	Jim	Houston	Deerfield Twp.					x	
Building Electrical Inspector 3	Gary	Hubbs	WC Building Dept.			x			
Fire Chief	Mike	Jameson	Turtlecreek Twp. F.D.			x	x	x	
Fire Chief	Steve	Johnson	City of Lebanon			x	x	x	
Product and Services Manager	John	Kappesser	Duke Electric						x
Zoning Inspector	Ron	Kilburn	Village of Morrow			x	x	x	
Supervisor	Tony	Ledford	Village of South Lebanon				x		
Assistant Fire Chief	David	Leverage	City of Monroe			x	x	x	

APPENDIX 1 – LIST OF PARTICIPANTS IN THE 2020 HMP PLANNING PROCESS

Title	First Name	Last Name	Agency	Community Survey	Capability Survey	1st Meeting / Hazard Ranking	2nd Meeting	Mitigation Project Updates	Additional Contact with EMA
WC EMA Planning Assistant	Kenny	Losekamp	WCDES			x	x		
Director of Business Affairs	Matt	Luecke	Kings LSD			x	x		
Operations Director	Pete	Mason	Board of DD			x	x	x	
Grants Administrator	Susanne	Mason	WC Solid Waste				x		
Director, FMS &CSO	John	McKinney	Atrium Medical Center			x			
Project Manager	Terry	Morris	Springboro Water						x
Environmental Planner	Doug	Obringer	Warren County Regional Planning				x	x	
Analyst	Alan	O'Meara	DPL						x
Lieutenant	Brian	Payne	WCSD			x			
Lieutenant	Michael	Perry	City of Franklin F.D.				x	x	
Chief Operating Officer	Todd	Petrey	City of Mason Schools			x	x		
City Manager	Chris	Pozzuto	City of Springboro	x	x	x		x	
Manager of Technical Services	Barry	Puskas	Miami Conservancy District		x	x	x	x	
Emergency Response Coordinator	Dustin	Ratliff	Warren County Health District			x	x	x	x
Specialist	Sam	Reed	Ohio EMA			x			
Hydrologist/Meteorologist	Julia	Reed	NOAA/NWS			x	x		x
Director	Jeff	Rhein	Mental Health Recovery			x			
Chief	Andy	Riddiough	JEMS			x	x		
Chief Deputy	Barry	Riley	WCSD				x	x	
Business Manager	Rodney	Roberts	Franklin City Schools			x	x		
Police Chief	Will	Rogers	Village of Carlisle P.D.			x	x	x	
Road Superintendent	Rob	Rose	Franklin Twp.			x	x		
Superintendent	Mike	Sander	Franklin City Schools			x	x		
Highway Superintendent & Cemetery Supervisor	Josh	Sandlin	Union Township				x		
Trustee	Paul	Schaefer	Washington Twp.	x			x		
Director	Matt	Schnipke	Warren County Economic Develop.						x
Clinical Coordinator	Katie	Schuler	UC Health WC Hospital			x	x		
Building Electrical Supervisor	Ron	Sempsrott	WC Building and Zoning			x	x		
Assistant City Manager	Karisa	Steed	City of Franklin	x			x	x	
Township Administrator	Traci	Stivers	Franklin Twp.		x		x	x	
Battalion Chief	Anthony	Terrace	City of Lebanon Fire Dept.			x			
Planning and Zoning	Jackie	Terwilliger	Village of Maineville	x	x				
Firefighter/Paramedic	Greg	Thomas	City of Mason F.D.				x		
Stormwater Manger	Jeff	Thomas	Deerfield Twp.					x	
WC EMA Volunteer	Kevin	Tribbe	WCDES			x	x		
Fire Captain	Nathan	Urban	Clearcreek Twp. Fire Dept.			x	x		
Chief, Township Administrator	Dusty	Vinup	Harlan Twp., Butleville, Pleasant Plan					x	x
Senior Planner	Robert	Ware	Warren County Regional Planning				x	x	
Village Administrator	Caroline	Whitacre	Village of Morrow			x			
Chief of Police	Russ	Whitman	City of Franklin				x	x	
WC EMA LEPC/Grants Coordinator	David	Wood	WCDES			x	x		
Technician	Sabrina	Wyrick	Warren County GIS						x

APPENDIX 1.2 – COMMUNITY PARTICIPATION

COMMUNITY PARTICIPATION

("X" INDICATES PARTICIPATION BY ATTENDANCE OR SUBMISSION OF DOCUMENTATION TO EMA)

Jurisdiction:	1st Meeting	2nd Meeting	Community Profile	Capability Survey	Hazard Ranking	Mitigation Projects
Butlerville						X
Carlisle	X	X			X	X
Corwin	Not participating in the 2020 Plan					
Franklin	X	X	X			X
Harveysburg			X	X		X
Lebanon	X	X	X	X	X	X
Loveland (partially in Warren County)	Not participating in the 2020 Plan					
Maineville	X		X	X	X	
Mason	X	X	X		X	X
Middletown (Partially in Warren County)	Not participating in the 2020 Plan					
Monroe (Partially in Warren County)	X	X			X	X
Morrow	X	X				
Pleasant Plain			X			X
South Lebanon		X				
Springboro	X		X	X	X	X
Waynesville	X	X	X	X	X	X
Clearcreek Township	X	X	X	X	X	X
Deerfield Township	X	X	X	X	X	X
Franklin Township	X	X			X	X
Hamilton Township	X	X	X	X	X	X
Harlan Township						X
Massie Township						
Salem Township			X			X
Turtle Creek Township	X	X	X	X	X	X
Union Township		X				X
Washington Township		X	X			X
Wayne Township	X	X	X	X	X	X

APPENDIX 1.3 – COMMUNITY MEETING SIGN-IN SHEETS

Meeting 1 Attendance

Meeting 1

Table No.	First Name	Last Name	Agency	Email Address	Signature
3	Mark	Lusko	Kings School District	mark@kingschools.org	<i>[Signature]</i>
3	Tim	Spinner	Kings School District	spinner@kingschools.org	<i>[Signature]</i>
3	Bryan	Brimmigan	Mason Fire	bbrimmigan@cityofmason.com	<i>[Signature]</i>
4	Gene	Biba	Little Miami Local School District	gbiba@lmsd.net	<i>[Signature]</i>
5	Amanda	Myers	City of Franklin P.D.	amymyers@cityoffranklin.com	<i>[Signature]</i>
4	Jackie	Tenninger	Village of Marietta	jackie@villageofmarietta.com	<i>[Signature]</i>
2 or 3	Dave	Lewage	City of Monroe P.D.	dlewage@cityofmonroe.com	<i>[Signature]</i>
	Steve	Allen			<i>[Signature]</i>
	Stephanie	Austin	Warren County Zoning	stephanie@warrencountyohio.gov	<i>[Signature]</i>
	Michelle	Tagliader	Warren County Zoning	mtagliader@warrencountyohio.gov	<i>[Signature]</i>
	Thomas	Brackel	Clermont Co. EMA	tbrackel@clerkco.org	<i>[Signature]</i>
	Matt	Howe	Butler Co. EMA	mhowe@butlercountyoemadepartment.com	<i>[Signature]</i>
	Jim	Rosen	Butler Co. EMA	jrosen@butlercountyoemadepartment.com	<i>[Signature]</i>
4	Caroline	Whitacre	Village of Morrow	caroline@villageofmorrow.com	<i>[Signature]</i>
4	Ron	Kilom	Village of Morrow	ron@villageofmorrow.com	<i>[Signature]</i>
4	Mike	Hanna	Village of Morrow	mike@villageofmorrow.com	<i>[Signature]</i>

Meeting 1

Table No.	First Name	Last Name	Agency	Email Address	Signature
4	Wed	Bookman	Sandus Cooperatives	wbookman@sanduscoop.com	<i>[Signature]</i>
1	Donald	Figlio	Village of Troyburg	don@villageofmarietta.com	<i>[Signature]</i>
	Barry	Riley	WCSD	briley@wcso.com	<i>[Signature]</i>
3	Chris	Encho	Franklin Twp. F.D.	chencho@franklinfire.com	<i>[Signature]</i>
2	Alfred	Harrigan	Franklin Twp. F.D.	aharrigan@franklinfire.com	<i>[Signature]</i>
2	Will	Rogers	Maplewood Center	wrogers@maplewoodcenter.com	<i>[Signature]</i>
2	Rogan	Noble	Upper Merion Twp.	rogan@uppermerion.com	<i>[Signature]</i>
	Brian	Payne	WCSD	bpayne@wcso.com	<i>[Signature]</i>
	Molly	Conky	SWCD	mconky@swcd.com	<i>[Signature]</i>
3	Todd	Perrey	Mason Schools	tperrey@cityofmason.com	<i>[Signature]</i>
3	Jonathan	Cooper	Mason Schools	jcooper@cityofmason.com	<i>[Signature]</i>
	Phil	Cleary	Ohio EMA	pcleary@ohioema.com	<i>[Signature]</i>
	Kim	Fladung	WC Comm. Center	kfladung@wcso.com	<i>[Signature]</i>
2	Rodney	Roberts	Franklin City Schools	rroberts@franklincityschools.com	<i>[Signature]</i>
2	Michael	Sander	Franklin City Schools	msander@franklincityschools.com	<i>[Signature]</i>
1	Nathan	Urban	Clearcreek P.D.	nurban@clearcreekpd.com	<i>[Signature]</i>

Meeting 1

Table No.	First Name	Last Name	Agency	Email Address	Signature
	Jill	Peet	NOVA NWS	jpeet@novanws.com	<i>[Signature]</i>
	Destin	Rahn	WCSD	drahn@wcso.com	<i>[Signature]</i>
	Paul	Bernard	Wayne P.D.	pbernard@waynepd.com	<i>[Signature]</i>
	YBO	ESD	CVS		<i>[Signature]</i>
	Chris	Bozack	Springboro	cbozack@springboro.com	<i>[Signature]</i>
	Mark	GDK	Clearcreek Admin	mark@clearcreek.com	<i>[Signature]</i>
	Jim	Blain	Maplewood Center	jblain@maplewoodcenter.com	<i>[Signature]</i>
	Pete	Morris	Franklin (FD)	pmorris@franklinfire.com	<i>[Signature]</i>
	Greg	MUDS	NO Building Dept	greg@no.com	<i>[Signature]</i>
	John	Morgan	ADVISOR	john@morgan.com	<i>[Signature]</i>
	Tom	Conroy			<i>[Signature]</i>
	Mike	Spencer	Franklin	mike@franklin.com	<i>[Signature]</i>
	Andy	Rosner	Franklin	arosner@franklin.com	<i>[Signature]</i>
	Greg	Park	Maplewood	gpark@maplewoodcenter.com	<i>[Signature]</i>
	Paul	Shaw	Franklin	pshaw@franklin.com	<i>[Signature]</i>

Meeting 1

Table No.	First Name	Last Name	Agency	Email Address	Signature
	Anthony	Terrace	Lebanon	aterrace@lebanonohio.gov	<i>[Signature]</i>
	Ken	Spicer	Franklin	kenspicer@franklinfire.com	<i>[Signature]</i>
	Stephanie	Austin	Zoning	stephanie@warrencountyohio.gov	<i>[Signature]</i>
	Mike	Schmitt	Franklin	mschmitt@franklinfire.com	<i>[Signature]</i>
	Steve	Turner	Lebanon	stturner@lebanonohio.gov	<i>[Signature]</i>
	Robert	Carter	Franklin	rcarter@franklinfire.com	<i>[Signature]</i>
	Keary	Hickley	Franklin	keary@franklinfire.com	<i>[Signature]</i>
	Robert	Spencer	Waynesville	rspencer@waynesville.com	<i>[Signature]</i>
	Rob	Rose	Franklin	rob.rose@franklinfire.com	<i>[Signature]</i>

APPENDIX 1.3 – COMMUNITY MEETING SIGN-IN SHEETS

Meeting 2 Attendance

Sign-in sheet for Board Meeting on Meeting #1
3/27/2020

Name	Home Agency or Organization	E-Mail	Check if you would like to receive a calendar invite to March's Meeting
Marie Schmitt	W. Heights	marie.schmitt@wheights.org	<input checked="" type="checkbox"/>
Walt Rogge	Central	waltrogge@centralia.org	<input checked="" type="checkbox"/>
Paul Riley	Chancellor's Institute	Paul.Riley@centralia.org	<input checked="" type="checkbox"/>
Paul R. Roberts	Washington State	prroberts@centralia.org	<input checked="" type="checkbox"/>
Paul Roberts	WASH STATE		
Paul Roberts	WASH STATE		
Paul Roberts	WASH STATE		
Paul Roberts	WASH STATE		

Sign-in sheet for Board Meeting on Meeting #2
3/27/2020

Name	Home Agency or Organization	E-Mail	Check if you would like to receive a calendar invite to March's Meeting
Bruce Baker	Wash. State	bruce.baker@wstate.edu	<input checked="" type="checkbox"/>
George Blake	Livingston S.D.	george.blake@livingston.edu	<input checked="" type="checkbox"/>
Brent Carter	Health-Tri-City	brent.carter@health-tri-city.org	<input checked="" type="checkbox"/>
Kevin Boring	Health-Tri-City	kevin.boring@health-tri-city.org	<input checked="" type="checkbox"/>
David Johnson	City of Kelso	djohnson@kelso.wa.gov	<input checked="" type="checkbox"/>
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		
David Johnson	City of Kelso		

Sign-in sheet for Board Meeting on Meeting #3
3/27/2020

Name	Home Agency or Organization	E-Mail	Check if you would like to receive a calendar invite to March's Meeting
Matthew Unbur	Chenook Tribal	matt.unbur@chenooktribe.com	<input checked="" type="checkbox"/>
Liz FEARNING	Wash State	liz.fearning@wstate.edu	<input checked="" type="checkbox"/>
Paul R. Roberts	Washington State	prroberts@centralia.org	<input checked="" type="checkbox"/>
Matt Clark	Chenook Trib	matt.clark@chenooktribe.com	<input checked="" type="checkbox"/>
Steve Antonson	Chenook T.P.	stev@chenooktribe.com	<input checked="" type="checkbox"/>

Sign-in sheet for Board Meeting on Meeting #4
3/27/2020

Name	Home Agency or Organization	E-Mail	Check if you would like to receive a calendar invite to March's Meeting
Timmy Gifford	Wash State	timmy.gifford@wstate.edu	<input checked="" type="checkbox"/>
Timmy Gifford	Wash State		<input checked="" type="checkbox"/>
Mike Hovine	Wash State	mike.hovine@wstate.edu	<input checked="" type="checkbox"/>
David Johnson			<input type="checkbox"/>
Kevin Taylor			<input type="checkbox"/>
Matthew Feur			<input type="checkbox"/>
Leslie Hall			<input type="checkbox"/>

Sign-in sheet for Board Meeting on Meeting #7
3/27/2020

Name	Home Agency or Organization	E-Mail	Check if you would like to receive a calendar invite to March's Meeting
Rob Rose	Franklin Township	rob.rose@franklin-twp.org	<input checked="" type="checkbox"/>
Michael E. Harpold	Franklin Township	michael.e.harpold@franklin-twp.org	<input checked="" type="checkbox"/>
Deanna Perry	Franklin Township	deanna.perry@franklin-twp.org	<input checked="" type="checkbox"/>
Mike Johnson	Franklin Township	mike.johnson@franklin-twp.org	<input checked="" type="checkbox"/>
ALAN KIMMEL	JEMS	alan.kimmel@jems.com	<input checked="" type="checkbox"/>
Adam Roberts	Franklin City Schools	adam@franklin.k12.wa.us	<input checked="" type="checkbox"/>
Mike Johnson	Franklin City Schools	mjohnson@franklin.k12.wa.us	<input checked="" type="checkbox"/>
Traci Stivers	Franklin Twp	traci.stivers@franklin-twp.org	<input checked="" type="checkbox"/>
Russ W. Long	City of Franklin	rwlong@franklin-wa.gov	<input checked="" type="checkbox"/>
Clay Cardinal	Wagonsville	ccardinal@wagonsville.com	<input checked="" type="checkbox"/>
Scott Johnson	Wagonsville	scottjohnson@wagonsville.com	<input checked="" type="checkbox"/>
Karisa Steed	City of Franklin	ksteed@franklin.wa.gov	<input checked="" type="checkbox"/>
Susan Johnson	Wash State	susan.johnson@wstate.edu	<input checked="" type="checkbox"/>
Pat Johnson	Wash State	pat.johnson@wstate.edu	<input checked="" type="checkbox"/>
Paul Schubert	Wash State	paul.schubert@wstate.edu	<input checked="" type="checkbox"/>
John Don Reed	Wash State	john.donreed@wstate.edu	<input checked="" type="checkbox"/>
Michael Perry	City of Franklin	michael.perry@franklin-wa.gov	<input checked="" type="checkbox"/>
Dustin Raloff	Wash State	draloff@wstate.edu	<input checked="" type="checkbox"/>
Philip S. Clayton	OHIO EM A	psclayton@ps.org	<input checked="" type="checkbox"/>

APPENDIX 2 – RECORD OF STORM EVENTS IN WARREN COUNTY

NORTHEAST REGION

WAYNESVILLE/ WAYNE TWP/ CORWIN/ CROSSWICK / HAMMEL / EDGETOWN

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES	LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
Waynesville	6/19/1994	0	0	0	\$50,000	CROSSWICK / Wayne Twp	6/18/2015	50	0	0	\$500
Corwin	5/28/1995	0	0	0	\$3,000	HAMMEL / Waynesville	7/14/2015	50	0	0	\$1,000
WAYNESVILLE	5/10/1996	50	0	0	\$5,000	HAMMEL / Waynesville	7/14/2015	50	0	0	\$0
WAYNESVILLE	7/2/1997	50	0	0	\$15,000	WAYNESVILLE ARPT	5/29/2016	50	0	0	\$2,000
WAYNESVILLE	6/12/1999	50	0	0	\$2,000	EDGETOWN / Waynesville	6/23/2016	65	0	0	\$75,000
WAYNESVILLE	7/9/1999	50	0	0	\$5,000	EDGETOWN / Waynesville	6/23/2016	70	0	0	\$75,000
WAYNESVILLE	5/18/2000	50	0	0	\$5,000	CROSSWICK / Wayne Twp	6/23/2016	70	0	0	\$25,000
WAYNESVILLE ARPT	6/2/2000	51	0	0	\$5,000	CROSSWICK / Wayne Twp	1/10/2017	50	0	0	\$1,000
WAYNESVILLE	6/2/2000	52	0	0	\$0	HAMMEL / Waynesville	6/27/2019	50	0	0	\$2,000
WAYNESVILLE	9/20/2002	50	0	0	\$3,000	Total		30 events			\$333,500
WAYNESVILLE	8/27/2003	50	0	0	\$3,000						
WAYNESVILLE	5/27/2004	55	0	0	\$3,000						
WAYNESVILLE	6/28/2005	50	0	0	\$3,000						
WAYNESVILLE	6/30/2005	50	0	0	\$6,000						
WAYNESVILLE	4/14/2006	50	0	0	\$3,000						
WAYNESVILLE	6/22/2006	50	0	0	\$3,000						
WAYNESVILLE	1/8/2008	50	0	0	\$2,000						
HAMMEL / Waynesville	6/28/2008	50	0	0	\$10,000						
CROSSWICK / Wayne Twp	11/17/2013	50	0	0	\$1,000						
CROSSWICK / Wayne Twp	6/19/2014	65	0	0	\$25,000						
CROSSWICK / Wayne Twp	4/8/2015	63	0	0	\$0						

Hail Events for Waynesville Area

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
WAYNESVILLE	5/14/1997	1	0	0	\$0
WAYNESVILLE	4/22/1998	1.75	0	0	\$0
WAYNESVILLE	6/2/2000	1	0	0	\$0
WAYNESVILLE	5/30/2009	1	0	0	\$10,000
WAYNESVILLE	6/10/2011	1	0	0	\$0
Total		5 events			\$10,000

NORTHEAST REGION cont.

HARVEYSBURG

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
HARVEYSBURG	7/19/1998	60	0	0	\$10,000
HARVEYSBURG	9/18/2002	60	0	0	\$25,000
HARVEYSBURG	6/28/2008	50	0	0	\$3,000
HARVEYSBURG	8/14/2010	52	0	0	\$1,000
HARVEYSBURG	5/31/2013	50	0	0	\$1,000
HARVEYSBURG	1/10/2017	50	0	0	\$2,000
Totals		6 events			\$42,000

No reported significant hail events for Harveysburg

OREGONIA

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
OREGONIA	8/8/2012	50	0	0	\$3,000
OREGONIA	9/7/2012	50	0	0	\$1,000
OREGONIA	6/16/2018	50	0	0	\$4,000
OREGONIA	6/28/2019	50	0	0	\$1,000
Total		4 events			\$9,000

No reported significant hail events for Oregonia or Wellman

WELLMAN

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
WELLMAN	4/20/2011	55	0	0	\$7,000
WELLMAN	8/8/2011	50	0	0	\$1,000
WELLMAN	6/23/2016	61	0	0	\$55,000
Total		3 events			\$63,000

APPENDIX 2 – RECORD OF STORM EVENTS IN WARREN COUNTY

NORTHWEST REGION

SPRINGBORO / CLEARCREEK

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
Springboro	6/21/1994	0	0	0	\$5,000
RIDGEVILLE	8/15/1996	50	0	0	\$5,000
SPRINGBORO	3/13/2001	50	0	0	\$2,000
SPRINGBORO	6/12/2001	60	0	0	\$6,000
SPRINGBORO	5/25/2002	50	0	0	\$5,000
SPRINGBORO	7/27/2002	50	0	0	\$2,000
SPRINGBORO	6/13/2004	50	0	0	\$3,000
SPRINGBORO	6/30/2005	50	0	0	\$5,000
SPRINGBORO	4/14/2006	50	0	0	\$3,000
SPRINGBORO	5/15/2007	56	0	0	\$5,000
SPRINGBORO	1/8/2008	50	0	0	\$3,000
SPRINGBORO	5/31/2008	50	0	0	\$2,000
FIVE PTS	6/28/2008	50	0	0	\$3,000
SPRINGBORO	5/31/2013	50	0	0	\$1,000
SPRINGBORO	6/23/2014	50	0	0	\$5,000
SPRINGBORO	5/30/2015	50	0	0	\$1,000
SPRINGBORO	6/18/2015	50	0	0	\$2,000
FIVE PTS	6/18/2015	50	0	0	\$2,000
FIVE PTS	7/13/2015	50	0	0	\$1,000
SPRINGBORO	6/23/2016	61	0	0	\$10,000
SPRINGBORO	6/23/2016	70	0	0	\$100,000
FIVE PTS	6/23/2016	61	0	0	\$7,000
SPRINGBORO	4/12/2019	56	0	0	\$7,000
SPRINGBORO	4/12/2019	56	0	0	\$25,000
SPRINGBORO	4/12/2019	56	0	0	\$15,000
SPRINGBORO	4/12/2019	56	0	0	\$10,000
SPRINGBORO	4/12/2019	56	0	0	\$2,000
Total		27 events			\$237,000

One hail event caused \$8,000 damage in Springboro (6/28/2008)

CARLISLE

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
CARLISLE	9/20/2000	60	0	0	\$450,000
CARLISLE	7/13/2016	50	0	0	\$2,000
CARLISLE	8/27/2016	50	0	0	\$1,000
Total		3 events			\$453,000

FRANKLIN/FRANKLIN TOWNSHIP

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
TOWNSHIP	8/28/1993	0	0	0	\$5,000
FRANKLIN	6/17/1994	0	0	0	\$50,000
FRANKLIN	7/20/1994	0	0	0	\$5,000
FRANKLIN	8/24/1996	60	0	0	\$0
FRANKLIN	5/6/1999	52	0	1	\$13,000
FRANKLIN	7/26/1999	50	0	0	\$7,000
FRANKLIN	9/18/2002	50	0	0	\$3,000
FRANKLIN	4/4/2003	50	0	0	\$5,000
FRANKLIN	4/3/2007	50	0	0	\$20,000
FRANKLIN	5/15/2007	50	0	0	\$7,000
FRANKLIN	7/10/2007	50	0	0	\$6,000
FRANKLIN	6/2/2010	60	0	0	\$20,000
FRANKLIN	6/29/2012	50	0	0	\$2,000
FRANKLIN	6/29/2012	50	0	0	\$25,000
FRANKLIN	10/31/2013	55	0	1	\$10,000
FRANKLIN	6/8/2018	50	0	0	\$10,000
FRANKLIN	6/8/2018	50	0	0	\$500
FRANKLIN	6/16/2018	50	0	0	\$2,000
Total		18 Events			190,500

APPENDIX 2 – RECORD OF STORM EVENTS IN WARREN COUNTY

SOUTHWEST REGION

MORROW AREA

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
MORROW	7/26/1995	0	0	0	\$2,000
MORROW	6/18/1996	60	0	0	\$5,000
MORROW	7/28/1997	70	0	0	\$25,000
MORROW	6/12/1999	50	0	0	\$3,000
MORROW	4/20/2000	50	0	0	\$5,000
MORROW	9/20/2000	51	0	0	\$5,000
MORROW	9/20/2000	50	0	0	\$5,000
COZADDALE	4/2/2006	65	0	0	\$80,000
MORROW	8/3/2006	50	0	0	\$3,000
MORROW	6/17/2007	50	0	0	\$3,000
MORROW	7/18/2007	50	0	0	\$2,000
MORROW	8/4/2010	50	0	0	\$1,000
MORROW	8/14/2010	50	0	0	\$1,000
MORROW	5/22/2011	50	0	0	\$5,000
M- FRITH ARPT	8/15/2016	48	0	0	\$1,000
M- FRITH ARPT	8/15/2016	50	0	0	\$2,000
M- FRITH ARPT	7/5/2018	50	0	0	\$5,000
ROSSBURG	10/6/2014	50	0	0	\$2,000
ROSSBURG	5/20/2018	50	0	0	\$4,000
ROSSBURG	4/14/2019	50	0	0	\$1,000
STUBBS MILLS	8/14/2010	50	0	0	\$1,000
STUBBS MILLS	4/29/2014	50	0	0	\$1,000
STUBBS MILLS	7/18/2015	50	0	0	\$2,000
Total		23 events			\$164,000

One incident of hail reported in Morrow with no damages reported.

MAINEVILLE

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
MAINEVILLE	5/28/1995	0	0	0	\$3,000
MAINEVILLE	4/29/1996	52	0	0	\$2,000
MAINEVILLE	6/22/1998	50	0	0	\$10,000
MAINEVILLE	4/20/2000	50	0	0	\$10,000
MAINEVILLE	10/24/2001	52	0	0	\$0
MAINEVILLE	9/20/2002	50	0	0	\$3,000
MAINEVILLE	6/9/2004	50	0	0	\$5,000
MAINEVILLE	6/28/2008	50	0	0	\$3,000
MAINEVILLE	5/21/2010	50	0	0	\$1,000
MAINEVILLE	7/11/2011	50	0	0	\$1,000
MAINEVILLE	6/29/2012	50	0	0	\$1,000
MAINEVILLE	7/14/2015	50	0	0	\$1,000
MAINEVILLE	6/23/2016	50	0	0	\$500
MAINEVILLE	8/15/2016	50	0	0	\$1,000
MAINEVILLE	5/20/2018	50	0	0	\$3,000
MAINEVILLE	5/30/2018	50	0	0	\$2,000
Total		16 events			\$46,500

Hail Events for Maineville

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
MAINEVILLE	4/19/2002	1	0	0	\$2,500,000
MAINEVILLE	6/2/2009	1	0	0	\$0
MAINEVILLE	5/22/2011	1	0	0	\$0
MAINEVILLE	4/16/2013	1.25	0	0	\$0
MAINEVILLE	4/16/2013	1.25	0	0	\$0
Total		5 events			\$2,500,000

APPENDIX 2 – RECORD OF STORM EVENTS IN WARREN COUNTY

SOUTHEAST REGION

MASON

DEERFIELD TWP/FOSTERS/MURDOCK/HAM TWP.

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
MASON	7/14/1997	50	0	0	\$3,000
MASON	6/14/2000	57	0	0	\$10,000
MASON	6/16/2000	55	0	0	\$18,000
MASON	6/16/2000	52	0	0	\$4,000
MASON	11/9/2000	63	0	0	\$15,000
MASON	5/12/2002	50	0	0	\$5,000
MASON	6/8/2003	50	0	0	\$5,000
MASON	9/27/2003	78	0	0	\$4,000,000
MASON	7/10/2004	50	0	0	\$5,000
MASON	8/20/2005	50	0	0	\$5,000
MASON	7/31/2006	50	0	0	\$3,000
MASON	8/24/2008	50	0	0	\$6,000
MASON	6/2/2010	50	0	0	\$1,000
MASON	6/21/2010	50	0	0	\$1,000
MASON	8/4/2010	50	0	0	\$1,000
MASON	10/26/2010	60	0	0	\$1,000
MASON	4/20/2011	52	0	0	\$0
MASON	6/29/2012	50	0	0	\$1,000
MASON	7/24/2012	52	0	0	\$0
MASON	7/24/2012	50	0	0	\$5,000
MASON	12/21/2013	50	0	0	\$1,000
MASON	10/6/2014	52	0	0	\$2,000
MASON	5/20/2018	50	0	0	\$5,000
MASON	5/31/2018	50	0	0	\$1,000
MASON	7/5/2018	50	0	0	\$3,000
Total		25 events			\$4,101,000

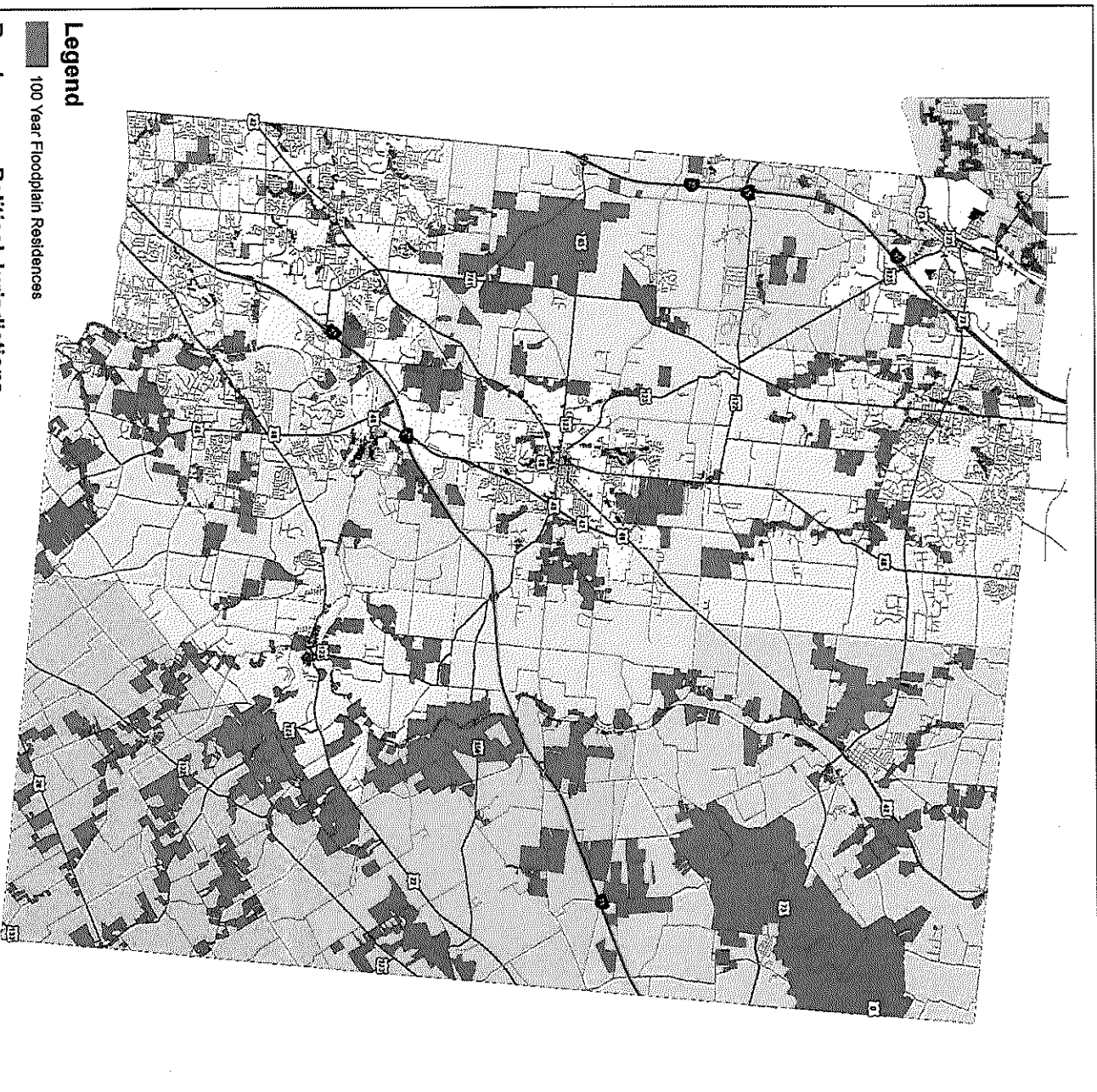
LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
DEERFIELD TWP.	6/18/1994	0	0	0	\$5,000
MURDOCK/ HAM TWP	6/18/2015	60	0	0	\$25,000
MURDOCK/ HAM TWP	6/18/2015	50	0	0	\$2,000
FOSTERS / HAM TWP	8/15/2016	50	0	0	\$2,000
FOSTERS / HAM TWP	8/15/2016	50	0	0	\$1,500
FOSTERS / HAM TWP	7/10/2017	50	0	0	\$1,000
SOCIALVILLE	2/11/2009	50	0	0	\$5,000
Total		7 events			\$41,500

LOVELAND PARK

LOCATION	DATE	MAGNITUDE	DEATHS	INJURIES	DAMAGES
LOVELAND PARK	6/29/2012	52	0	0	\$0
LOVELAND PARK	6/12/2015	50	0	0	\$1,000
LOVELAND PARK	8/15/2016	50	0	0	\$1,000
Total		3 events			\$2,000

One hail incident reported for Mason with no damages reported

Residences in 100 Year Floodplain



Legend

100 Year Floodplain Residences

Roads

- County
- Interstate
- Municipal
- State
- Township
- US

Political Jurisdictions

Blanchester	Franklin TWP	Mason	South Lebanon
Bullerville	Hamilton TWP	Massie TWP	Springboro
Carlisle	Harlan TWP	Middletown	Turtlecreek TWP
Clearcreek TWP	Harveysburg	Monroe	Union TWP
Corwin	Lebanon	Morrow	Washington TWP
Deerfield TWP	Loveland	Pleasant Plain	Wayne TWP
Franklin	Maineville	Salem TWP	Waynesville

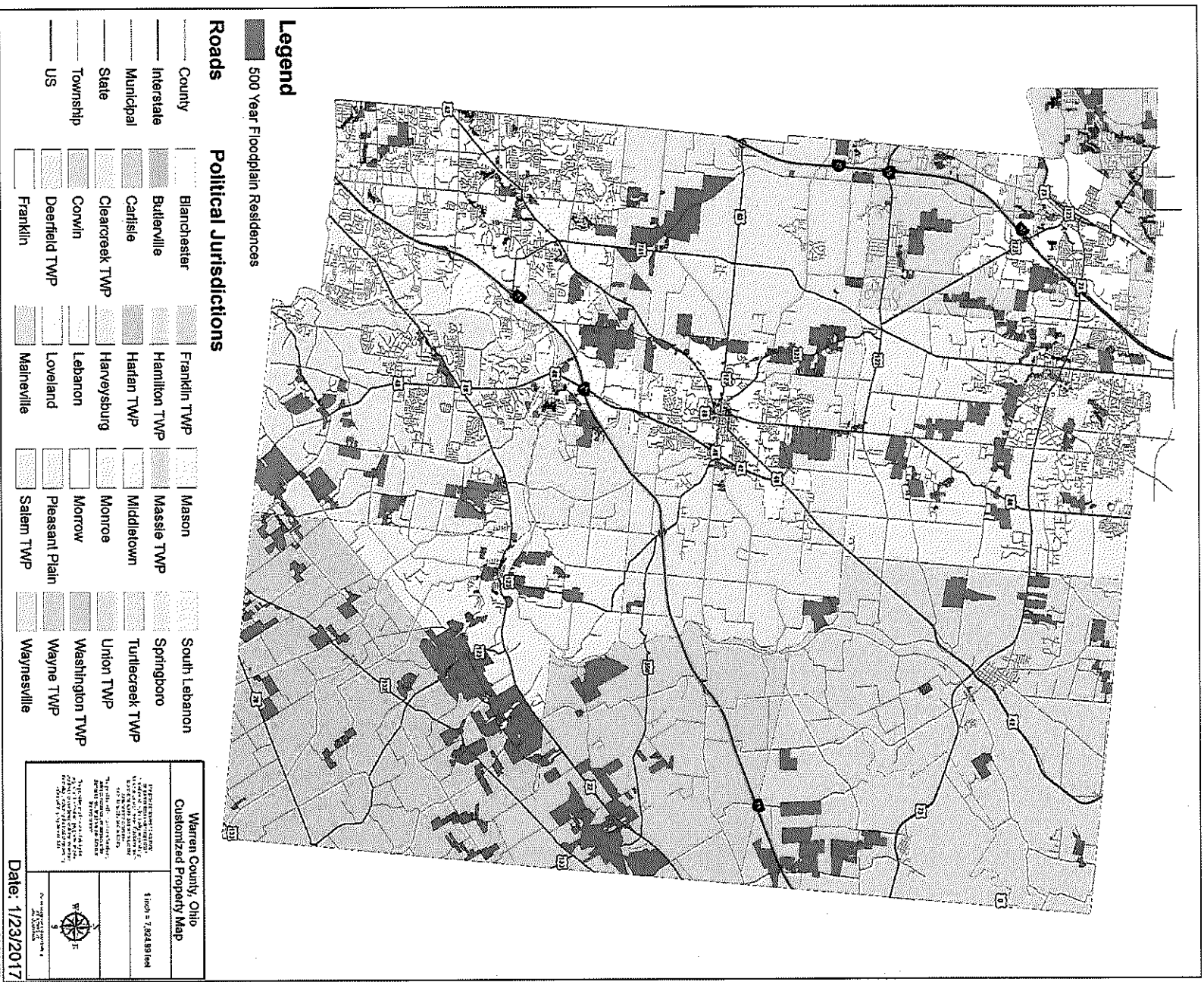
Warren County, Ohio
Customized Property Map

1 inch = 7,824.89 feet

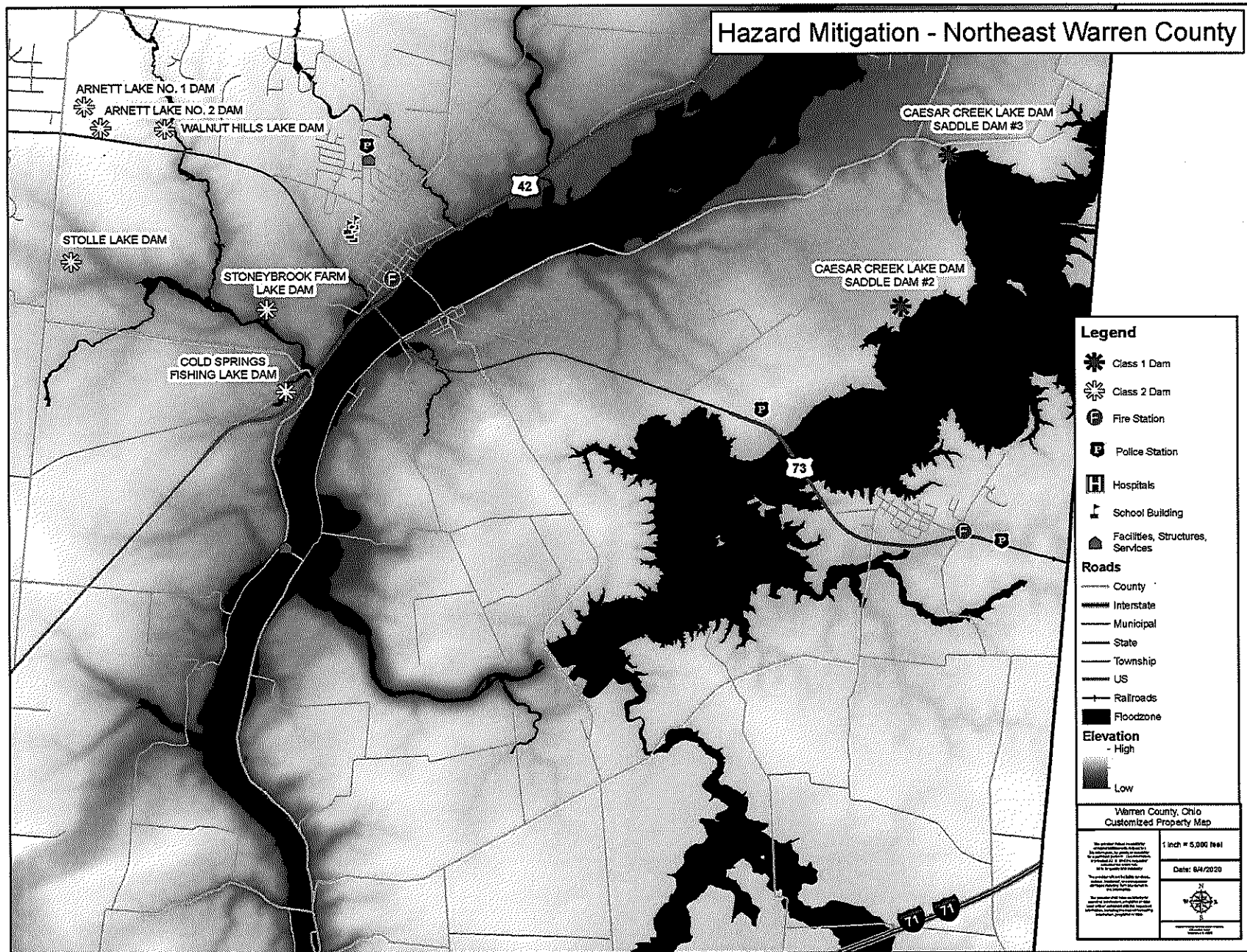
Warren County, Ohio
Map of the 100 Year Floodplain
Residences in the 100 Year Floodplain
Map Date: 1/23/2017
Map Scale: 1 inch = 7,824.89 feet
Map Projection: NAD 83 UTM Zone 18N
Map Contour Interval: 10 feet
Map Contour Elevation: 100 feet
Map Contour Interval: 10 feet
Map Contour Elevation: 100 feet

Date: 1/23/2017

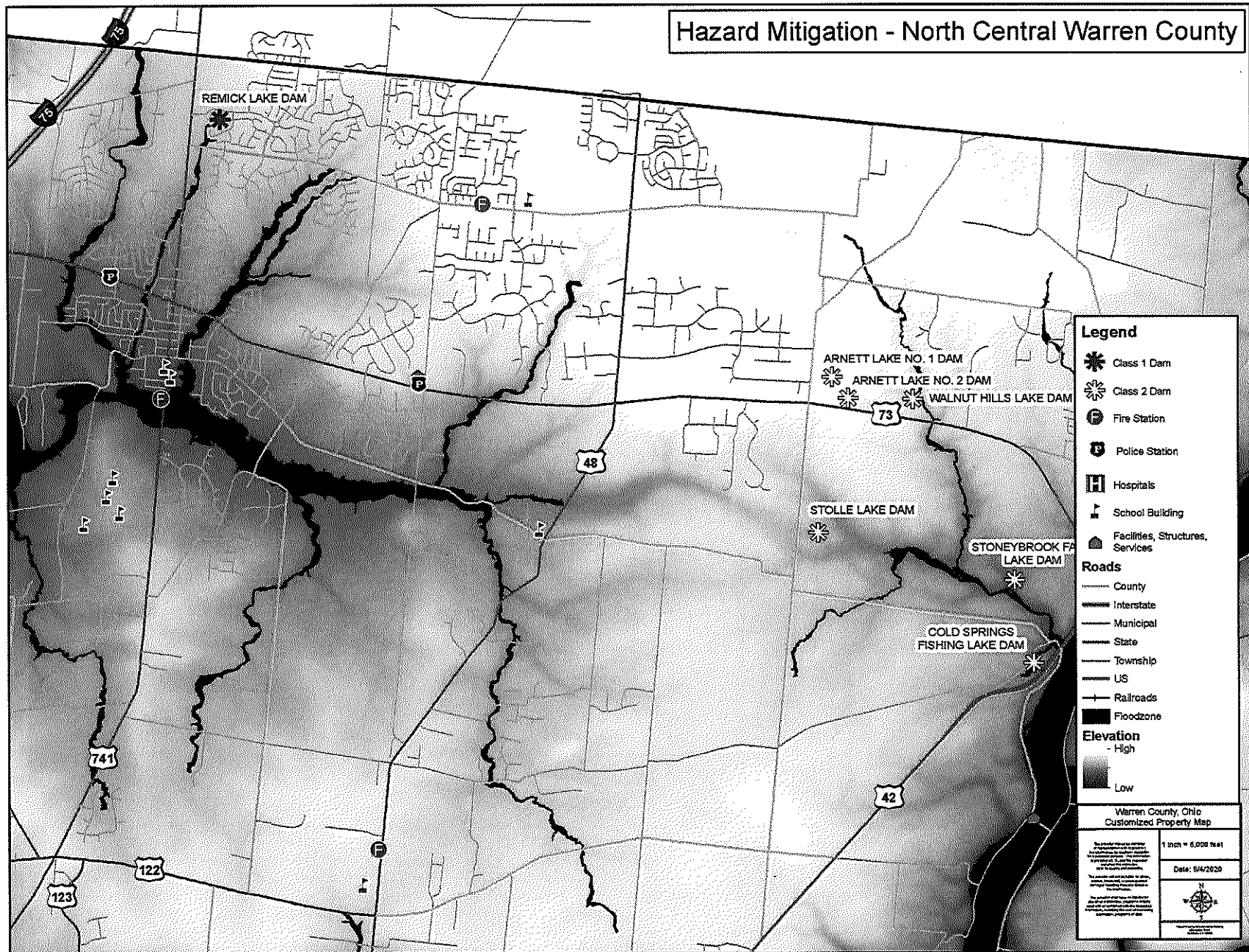
Residences in 500 Year Floodplain



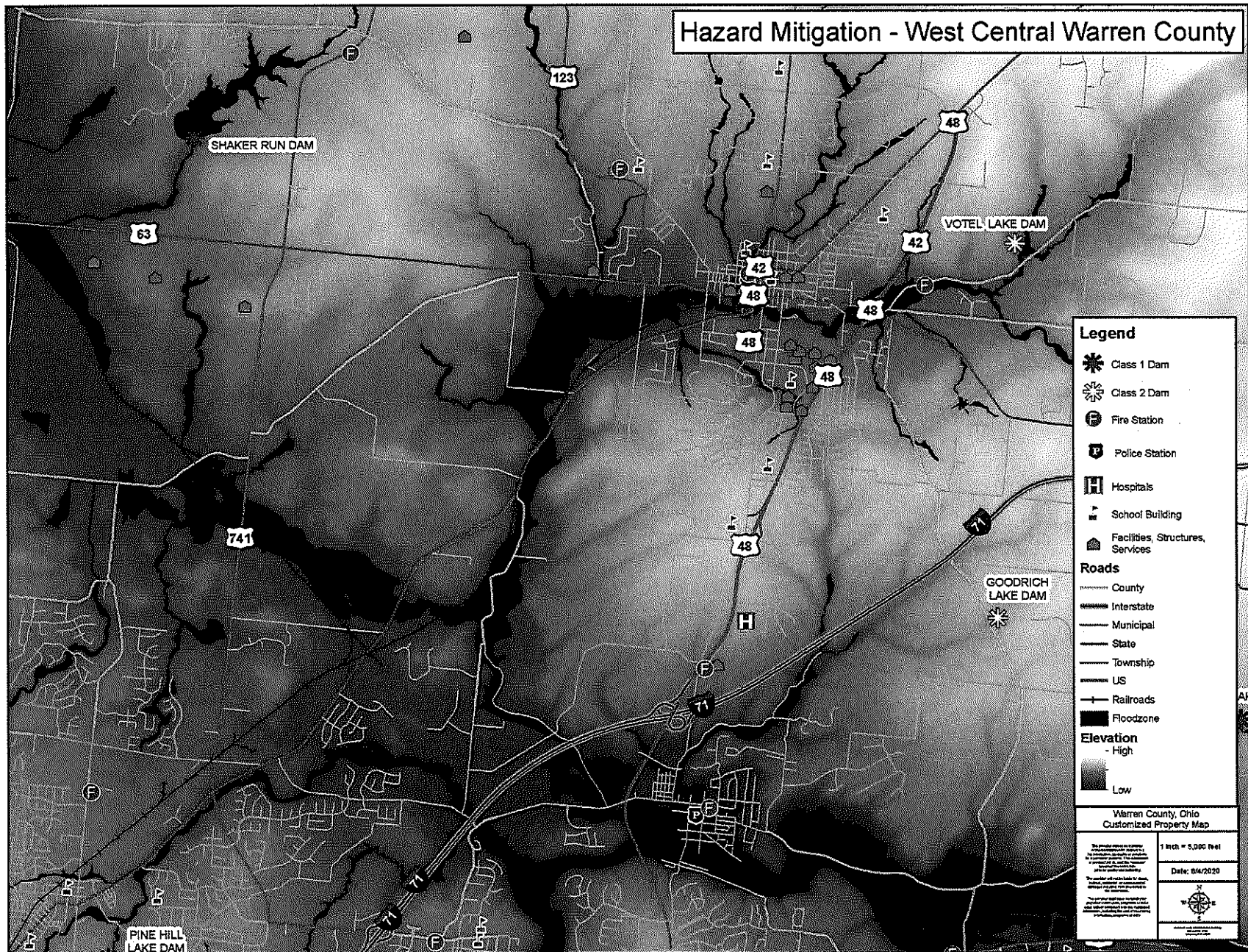
APPENDIX 5 –DAMAGES TO CRITICAL INFRASTRUCTURE FROM CLASS I OR II DAM BREACH

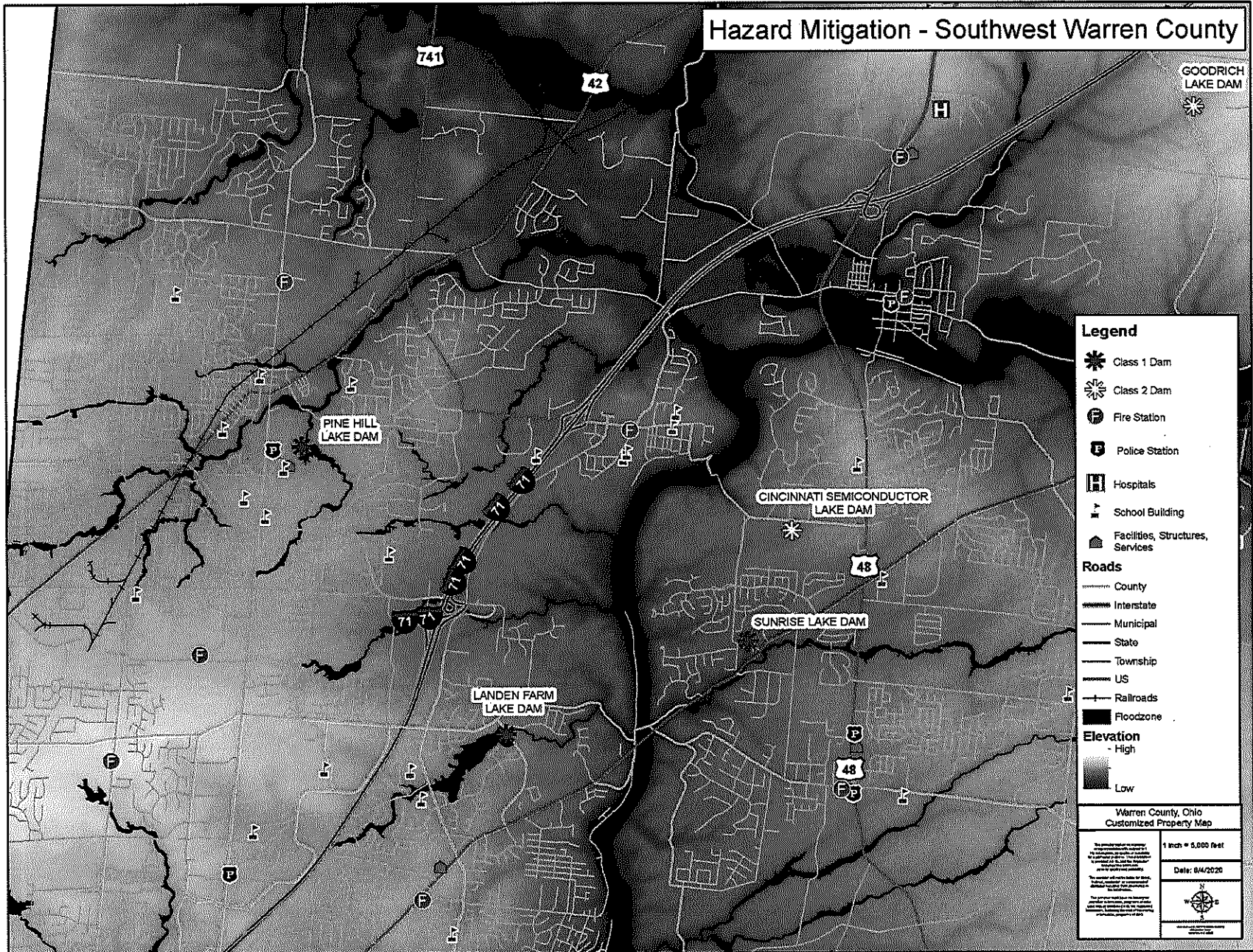


APPENDIX 5 – DAMAGES TO CRITICAL INFRASTRUCTURE FROM CLASS I OR II DAM BREACH

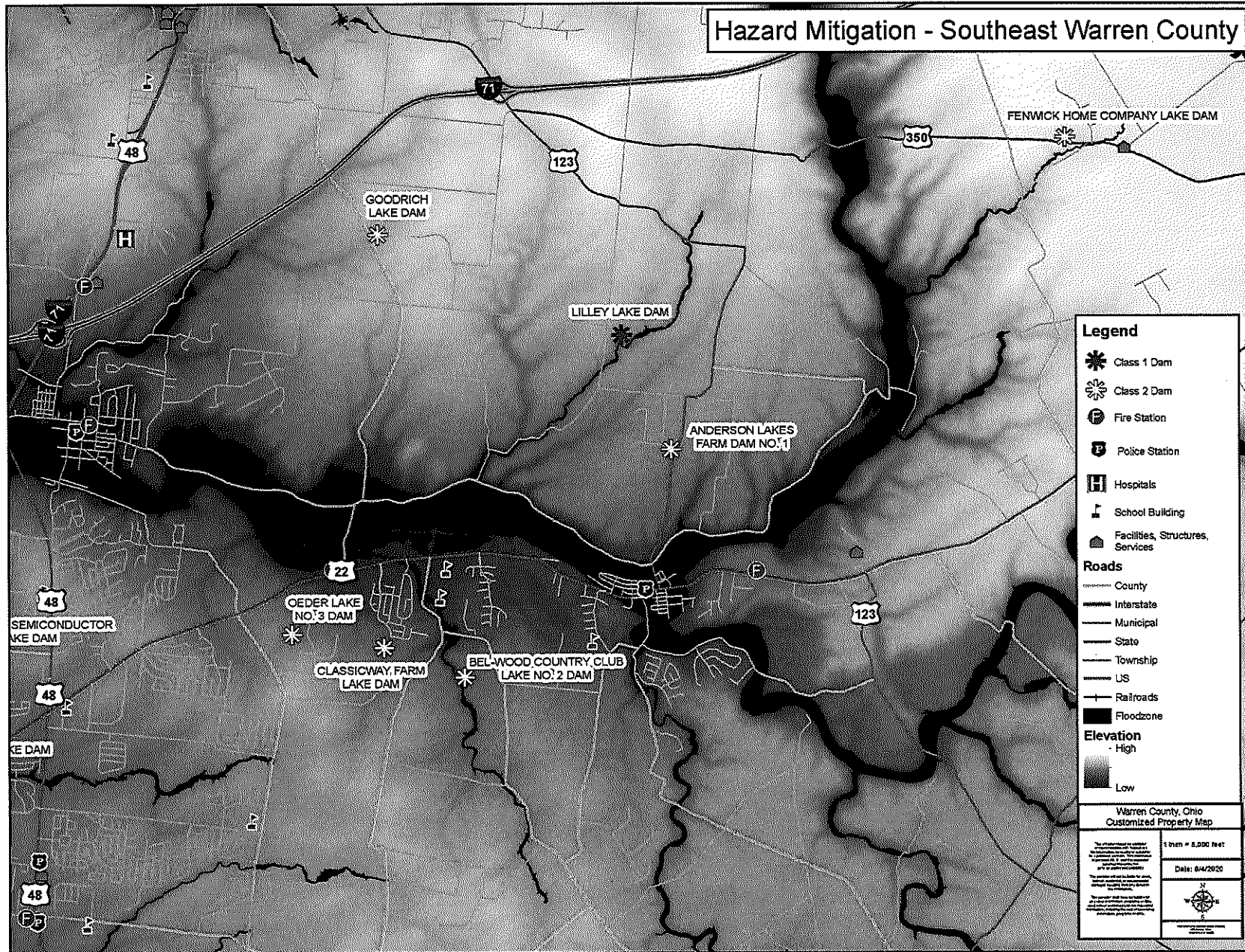


APPENDIX 5 –DAMAGES TO CRITICAL INFRASTRUCTURE FROM CLASS I OR II DAM BREACH





APPENDIX 5 –DAMAGES TO CRITICAL INFRASTRUCTURE FROM CLASS I OR II DAM BREACH



APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Resp Party	Time Frame	Funding Source	Jurisdictional Priority
Village of Butlerville							
3	Multi-Hazard	2A,3A,3B,	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Administrator/ Fire Chief	Less Than 1 Year	Grants	33
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Administrator/ Fire Chief	Greater Than 3 Years	Grants	31
19A	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Assistant Fire Chief	Continuous Project	Existing Funds	26
5	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Administrator/ Fire Chief	Less Than 1 Year	Existing Funds	25
43	Hazardous Materials Incident	1B,2A,4B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Assistant Fire Chief	Continuous Project	Existing Funds	25
129A	Tornado	1A,2B,2C,2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Administrator/ Fire Chief	Continuous Project	Grants	25
34A	Flooding/Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	Administrator/ Fire Chief	Greater Than 3 Years	Existing Funds	24
25	Wind/Severe Storms and Tornadoes	2A,2E	Install safe rooms to shelter the population during tornado events.	Administrator/ Fire Chief	1 to 3 Years	Grants	19
48	Winter Storms	2A,2B,5B	Evaluate and retrofit older buildings, especially large span buildings that may have inadequate snow load tolerances.	Administrator/ Fire Chief	1 to 3 Years	Grants	19
Village of Carlisle							
20	Multi-Hazard	1A,1B,2A,2C	Support and increase participation in Sky Warn Program.	Village Manager	Less Than 1 Year	Existing Funds	36
18	Multi-Hazard	5A	Encourage on-going education for seasoned and newly elected officials to familiarize them with the disaster cycle of prevention, preparedness, mitigation, response and recovery.	Village Manager	Less Than 1 Year	Existing Funds	35
2	Multi-Hazard	1A,1B,2C	Increase the use of social media to warn residents and visitors of extreme weather and man-made events.	Village Manager	Less Than 1 Year	Existing Funds	34

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Village of Carlisle cont.							
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Village Manager	Less Than 1 Year	Grants	30
12	Multi-Hazard	2A,2E	Build/establish shelters with generators that can serve displaced citizens. Include how animals (domestic and rural) will be addressed in sheltering.	Village Manager	1 to 3 Years	Grants	27
40	Hazardous Materials Incident	1A,1B,3A	Create public education campaign about illicit discharge and how to report spills.	Village Manager / Floodplain Administrator	Continuous Project	Existing Funds	23
42	Hazardous Materials Incident	2B,2F,4A, 4D	Conduct jurisdictional fire inspections of facilities that contain hazardous materials.	Fire Chief	Continuous Project	Existing Funds	22
30	Flooding / Dam	2A,2B,2D, 2F,5B	Relocate structures or systems in flood prone or hazard areas - especially those properties identified as historically or culturally significant to the community.	Village Manager / Floodplain Administrator	1 to 3 Years	Grants	21
36	Flooding / Dam	5B	Conduct engineering/impact studies for flood mitigation.	Village Manager / Floodplain Administrator	1 to 3 Years	Grants	20
44	Hazardous Materials Incident	2A,3A,3B ,3C,5A	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Service Dept.	Continuous Project	Grants	20
47	Winter Storms	3A,3C,4A, 4B	Enhance existing snow removal equipment and supplies.	Service Dept.	Continuous Project	Existing Funds	18
34	Flooding / Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	Zoning Official	Greater Than 3 Years	Existing Funds	17
38	Flooding / Dam	4B,4C,5B	Conduct regular maintenance for flood control structures such as dams/levees.	Village Manager / Floodplain Administrator	Continuous Project	Existing Funds	15
51	Winter Storms	2A,3A	Install or plant snow fences or "living snow fences" (rows of trees or vegetation) to limit blowing and drifting of snow over critical roadway segments.	Service Dept.	Continuous Project	Existing Funds	14
52	Man-Made Events	2A,3A,5B	Install physical protective measures for critical infrastructures. (i.e. fences, lighting, bollards, etc.)	Service Dept.	Continuous Project	Grants	13

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Village of Carlisle cont.							
58	Invasive/Harmful Species	1B,5A,5B	Develop jurisdictional educational programs for public works (and other applicable) employees to better identify and report possible invasive species.	Village Admin	Continuous Project	Existing Funds	11
59	Invasive/Harmful Species	1A,5B	Remove infected vegetation or organisms to eradicate invasive species.	Service Dept.	Continuous Project	Existing Funds	10
62	Extreme Temperatures/Drought	2A,3A,3B,3C,5B	Establish and implement water conservation programs.	Village Admin	Greater Than 3 Years	Existing Funds	9
61	Extreme Temperatures/Drought	1A,2A,2B,3A,3B,3C,4A,4B	Acquire warming and/or cooling equipment for facilities with inadequate systems or for response to power outages.	Village Admin	Greater Than 3 Years	Existing Funds	8
65	Earthquakes	1B,2A,2B,4A	Conduct a public building seismic study to determine which buildings are more at risk for damages from an earthquake.	Village Admin	Continuous Project	Existing Funds	7
64	Earthquakes	2B,2D,2F,3A,3B,4A	Safeguard and harden critical infrastructure systems to meet seismic design standards for "lifelines".	Village Admin	Continuous Project	Grants	6
66	Landslides/Erosion	2A,3A	Establish natural means (such as tree planting and conservation) that protects steep slopes from landslides.	Service Dept.	Continuous Project	Grants	5
71	Infectious Disease Outbreak	1A,1B,2A,4B,5A	Promote seasonal influenza vaccination and facilitate on-campus vaccination clinics.	Village Admin/Fire Chief	Continuous Project	Existing Funds	4
74	Wildfires	2A,3A,5B	Clear fuel loads created by downed trees and dry brush.	Fire Chief	Continuous Project	Existing Funds	1
Clearcreek Township							
28	Wind/Severe Storms and Tornadoes	1A,1B,2A,2E,3A,5A	Assist jurisdictional plan for debris management, mass sheltering, and animal sheltering operations.	Fire Chief	Less Than 1 Year	Existing Funds	29
Deerfield Township							
14	Multi-Hazard	1A,1B,4A	Require event planners to incorporate emergency and disaster planning into their event plans and to submit a copy of this plan to local elected/ public safety officials.	Organizer	Less Than 1 Year	Grants	33
5	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Property Owner	Continuous Project	Existing Funds	30
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	Fire Department	Continuous Project	Existing Funds	29
15	Multi-Hazard	2A,3A,4B	Adopt a debris management plan that allows the jurisdiction to recover quicker from hazard events.	Township	1 to 3 Years	Grants	27

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Deerfield Township cont.							
19	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Fire Department / Property Owner	Continuous Project	Existing Funds	26
32	Flooding / Dam	1B,4C	Provide information to property owners in flood-prone areas on the need for NFIP coverage.	Fire Department / Zoning	Continuous Project	Existing Funds	25
129	Tornado	1A,2B,2C,2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Fire Department	Continuous Project	Grants	25
34	Flooding/Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	Zoning	Greater Than 3 Years	Existing Funds	24
4	Multi-Hazard	1A,1B	Develop a plan for evacuating populations at any given time. **To also include consideration for person's with access and functional needs.**	Fire Department	Continuous Project	Existing Funds	22
16A	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Zoning	Continuous Project	Grants	17
Franklin Township							
3	Multi-Hazard	2A,3A,3B,	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Township Administrator	Less Than 1 Year	Grants	33
24	Multi-Hazard	3C,4B	Establish MOU's to provide potable and non-potable water to meet the public's needs.	Township Administrator	1 to 3 Years	Grants	30
15	Multi-Hazard	2A,3A,4B	Adopt a debris management plan that allows the jurisdiction to recover quicker from hazard events.	Township Administrator	Less Than 1 Year	Grants	27
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Service Dept.	Continuous Project	Existing Funds	25
47	Winter Storms	3A,3C,4A,4B	Enhance existing snow removal equipment and supplies.	Service Dept.	Continuous Project	Existing Funds	20
69	Landslides/ Erosion	2F,3A	Install stream bank erosion prevention methods.	Township Administrator	Continuous Project	Grants	5
City of Franklin							
3	Multi-Hazard	2A,3A,3B,	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Public Works	Less Than 1 Year	Existing Funds	31
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	Public Works	Continuous Project	Existing Funds	31

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
City of Franklin cont.							
45	Hazardous Materials Incident	1A,1B,2D,3A	Require public permitting process to include calling 811 & providing a copy of their dig ticket.	Public Works	Continuous Project	Existing Funds	24
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Public Works	Continuous Project	Grants	23
51	Winter Storms	2A,3A	Install or plant snow fences or "living snow fences" (rows of trees or vegetation) to limit blowing and drifting of snow over critical roadway segments.	Public Works	Continuous Project	Existing Funds	16
52	Man-Made Events	2A,3A,5B	Install physical protective measures for critical infrastructures. (i.e. fences, lighting, bollards, etc.)	Public Works / Police Chief	Continuous Project	Grants	13
Hamilton Township							
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	Township Administrator/ Fire Chief	Less Than 1 Year	Existing Funds	31
7	Multi-Hazard	1A,1B,5A	Develop education programs for residents, tourists, businesses, etc. for hazard-specific threats.	Township Administrator/ Fire Chief	Less Than 1 Year	Existing Funds	31
Harlan Township							
3	Multi-Hazard	2A,3A,3B,	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Administrator/ Fire Chief	Less Than 1 Year	Grants	33
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Administrator/ Fire Chief	Greater Than 3 Years	Grants	31
19A	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Assistant Fire Chief	Continuous Project	Existing Funds	26
5	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Administrator/ Fire Chief	Less Than 1 Year	Existing Funds	25
43	Hazardous Materials Incident	1B,2A,4B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Assistant Fire Chief	Continuous Project	Existing Funds	25
129A	Tornado	1A,2B,2C,2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Administrator/ Fire Chief	Continuous Project	Grants	25
34A	Flooding/Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	Administrator/ Fire Chief	Greater Than 3 Years	Existing Funds	24
25	Wind/Severe Storms and Tornadoes	2A,2E	Install safe rooms to shelter the population during tornado events.	Administrator/ Fire Chief	1 to 3 Years	Grants	19
48	Winter Storms	2A,2B,5B	Evaluate and retrofit older buildings, especially large span buildings that may have inadequate snow load tolerances.	Administrator/ Fire Chief	1 to 3 Years	Grants	19

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Village of Harveysburg							
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Fire Chief	Greater than 3 years	Grants	20
25	Wind	2A,2E	Install safe rooms to shelter the population during tornado events.	Fire Chief	1 to 3 Years	Grants	19
City of Lebanon							
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Fire Chief	Less Than 1 Year	Grants	31
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	City Manager/ Fire Chief	Less Than 1 Year	Existing Funds	31
7	Multi-Hazard	1A,1B,5A	Develop education programs for residents, tourists, businesses, etc. for hazard-specific threats.	City Manager/ Fire Chief	Less Than 1 Year	Existing Funds	31
2	Multi-Hazard	1A,1B,2C	Increase the use of social media to warn residents and visitors of extreme weather and man-made events.	City Manager	Less Than 1 Year	Existing Funds	29
19	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Engineer/ Public Works Director	1 to 3 Years	Existing Funds	29
32	Flooding/Dam	1B,4C	Provide information to property owners in flood-prone areas on the need for NFIP coverage.	City Manager/ Floodplain Administrator	Less Than 1 Year	Existing Funds	22
33	Flooding/Dam	2A,3B	Install and support additional river gauges, especially in communities with repetitive flood events or repetitive (flood) loss structures.	City Manager/ Floodplain Administrator	Less Than 1 Year	Existing Funds	22
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Engineer/ Public Works Director	Continuous Project	Grants	18
45	Hazardous Materials Incident	1A,1B,2D, 3A	Require public permitting process to include calling 811 and providing a copy of their dig ticket.	City Manager	Less Than 1 Year	Existing Funds	18
City of Mason							
15	Multi-Hazard	2A,3A,4B	Adopt a debris management plan that allows the jurisdiction to recover quicker from hazard events.	Safety Director/ Fire Chief	Less Than 1 Year	Existing Funds	33
1	Multi-Hazard	1A,1B,2C	Identify and install hazard notification systems (consider device-neutral systems as well as conventional notification systems)	Safety Director/ Fire Chief	Less Than 1 Year	Existing Funds	27
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Safety Director/ Fire Chief	Less Than 1 Year	Existing Funds	26

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
City of Mason cont.							
129A	Tornado	1A,2B,2C,2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Safety Director/ Fire Chief	Continuous Project	Existing funds	25
106A	Winter Storms	1B,3C,4A,5A	Develop a resource manual that can be used to inventory emergency resources that can be deployed to aid in the event of a severe winter storm.	Safety Director/ Fire Chief	Less Than 1 Year	Existing funds	23
16A	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Safety Director/ Fire Chief	Greater than 3 years	Grants	20
5A	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Safety Director/ Fire Chief	Less Than 1 Year	Existing funds	18
19A	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Safety Director/ Fire Chief	Less Than 1 Year	Existing funds	18
25	Wind/Severe Storms and Tornadoes	2A,2E	Install safe rooms to shelter the population during tornado events.	Safety Director/ Fire Chief	Greater Than 3 Years	Grants	18
City of Monroe							
2	Multi-Hazard	1A,1B,2C	Increase the use of social media to warn residents and visitors of extreme weather and man-made events.	City Manager	Continuous Project	Existing Funds	33
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	Fire	Continuous Project	Existing Funds	33
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Public Works	Less Than 1 Year	Grants	31
26	Wind/Severe Storms and Tornadoes	2B,4A	Adopt and enforce building codes for residential and commercial construction that prevents wind damage.	Development	Less Than 1 Year	Existing Funds	31
46	Hazardous Materials Incident	1A,1B,2D,3A	Promote use of 811 to residents and businesses that sell products that require digging.	Public Works	Less Than 1 Year	Existing Funds	28
12	Multi-Hazard	2A,2E	Build/establish shelters with generators that can serve displaced citizens. Include how animals (domestic and rural) will be addressed in sheltering.	Fire	1 to 3 Years	Grants	27
15	Multi-Hazard	2A,3A,4B	Adopt a debris management plan that allows the jurisdiction to recover quicker from hazard events.	Public Works	Continuous Project	Existing Funds	26
19	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Fire	Continuous Project	Existing Funds	26

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
City of Monroe cont.							
36	Flooding/Dam	5B	Conduct engineering/impact studies for flood mitigation.	Public Works	Less Than 1 Year	Existing Funds	24
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Public Works	Greater Than 3 Years	Grants	22
47	Winter Storms	3A,3C, 4A, 4B	Enhance existing snow removal equipment and supplies.	Public Works	1 to 3 Years	Grants	20
53	Man-Made Events	1A,1B,2A, 4B,5A	Develop a training and education program for active aggressor incidents in facilities.	Fire	1 to 3 Years	Existing Funds	16
Morrow							
47	Winter Storms	3A,3C,4A, 4B	Enhance existing snow removal equipment and supplies.	Zoning Inspector / Public Works	1 to 3 Years	Existing Funds	20
16A	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Public Works	Greater than 3 years	Grants	13
26A	Wind/Severe Storms and Tornadoes	2B,4A	Adopt and enforce building codes for residential and commercial construction that prevents wind damage.	Zoning Inspector	Continuous Project	Existing Funds	12
153A	Flood	1A,1B,3A	Place depth markers on frequently flooded roads to advise travelers of flooding depths.	Public Works	1 to 3 Years	Existing Funds	11
Village of Pleasant Plain							
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Administrator/ Fire Chief	Less Than 1 Year	Grants	33
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Administrator/ Fire Chief	Greater Than 3 Years	Grants	31
19A	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Assistant Fire Chief	Continuous Project	Existing Funds	26
5	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Administrator/ Fire Chief	Less Than 1 Year	Existing Funds	25
43	Hazardous Materials Incident	1B,2A,4B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Assistant Fire Chief	Continuous Project	Existing Funds	25
129A	Tornado	1A,2B,2C, 2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Administrator/ Fire Chief	Continuous Project	Grants	25
34A	Flooding/Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	Administrator/ Fire Chief	Greater Than 3 Years	Existing Funds	24

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Village of Pleasant Plain cont.							
25	Wind/Severe Storms and Tornadoes	2A,2E	Install safe rooms to shelter the population during tornado events.	Administrator/ Fire Chief	1 to 3 Years	Grants	19
48	Winter Storms	2A,2B,5B	Evaluate and retrofit older buildings, especially large span buildings that may have inadequate snow load tolerances.	Administrator/ Fire Chief	1 to 3 Years	Grants	19
City of Springboro							
5A	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Community Relations Director	Less Than 1 Year	Grants	34
129A	Tornado	1A,2B,2C, 2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Community Relations Director	Less Than 1 Year	Grants	31
16A	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	City Engineer	1 to 3 Years	Grants	25
19A	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	City Engineer	1 to 3 Years	Grants	25
Turtlecreek Township							
2	Multi-Hazard	1A,1B,2C	Increase the use of social media to warn residents and visitors of extreme weather and man-made events.	Township Administrator	1 to 3 Years	Existing Funds	34
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Township Administrator	Greater Than 3 Years	Existing Funds	27
15	Multi-Hazard	2A,3A,4B	Adopt a debris management plan that allows the jurisdiction to recover quicker from hazard events.	Township Administrator	1 to 3 Years	Grants	27
53	Man-Made Events	1A,1B,2A, 4B, 5A	Develop a training and education program for active aggressor incidents in facilities.	Warren County Sheriff's Office	Less Than 1 Year	Existing Funds	15
5	Multi-Hazard	2B,2F	Protect propane tanks or other external fuel sources.	Fire Chief	1 to 3 Years	Existing Funds	13
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	Public Works	Greater than 3 years	Grants	13
19	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Fire Chief	1 to 3 Years	Existing Funds	13
129A	Tornado	1A,2B,2C, 2D	Reduce damages resulting from straight line winds/tornadoes by providing warning to citizens to store loose/unsecured items on property in advance of the storm.	Township Administrator	Continuous Project	Existing Funds	12

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Turtlecreek Township cont.							
32	Flooding/Dam	1B,4C	Provide information to property owners in flood-prone areas on the need for NFIP coverage.	Township Administrator	Continuous Project	Existing Funds	11
34	Flooding/Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	Zoning Official	Continuous Project	Existing Funds	11
Wayne Township							
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Administrator	1 to 3 Years	Existing Funds	30
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	Fire Chief	1 to 3 Years	Existing Funds	30
19A	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Fire Chief	1 to 3 Years	Existing Funds	26
27	Wind/Severe Storms and Tornadoes	1B,5A	Promote Ohio's Safe Room Application program to residents for installation of tornado safe rooms in their homes.	Administrator and Fire Chief	Less Than 1 Year	Existing Funds	25
46	Hazardous Materials Incident	1A,1B,2D, 3A	Promote use of 811 to residents and businesses that sell products that require digging.	Administrator	Less Than 1 Year	Existing Funds	22
16	Multi-Hazard	3A,4A	Develop/upgrade storm water drainage systems and maintenance to guide surface water and increase capacity.	County Engineer	Continuous Project	Grants	20
25A	Wind/Severe Storms and Tornadoes	2A,2E	Install safe rooms to shelter the population during tornado events.	Administrator	Continuous Project	Grants	20
44	Hazardous Materials Incident	2A,3A,3B, 3C,5A	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Administrator	Less Than 1 Year	Grants	17
Village of Waynesville							
26	Wind/Severe Storms and Tornadoes	2B,4A	Adopt and enforce building codes for residential and commercial construction that prevents wind damage.	Telecom	Less Than 1 Year	Existing Funds	34
31	Flooding/Dam	2A,2B,2D, 5B	Purchase properties susceptible to repeated flooding, remove structures, and enforce permanent restrictions on development.	Village Administrator	Less Than 1 Year	Existing Funds	28
32	Flooding/Dam	1B,4C	Provide information to property owners in flood-prone areas on the need for NFIP coverage.	Village Administrator	Less Than 1 Year	Existing Funds	28
30	Flooding/Dam	2A,2B,2D, 2F, 5B	Relocate structures or systems in flood prone or hazard areas - especially those identified as historically or culturally significant to the community.	Village Administrator	1 to 3 Years	Existing Funds	23
35	Flooding/Dam	2A,3A,3C	Conduct an upgrade study on storm/sewer line mitigation options.	Public Works	1 to 3 Years	Existing Funds	21

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Miami Conservancy District							
80	Flooding/ Dam	2A,3A	Conduct analyses and flood studies to identify risks, evaluate removal of existing structures in flood zone, and/or identify other potential structural or nature-based solutions to mitigate flooding in Franklin.	Technical and Engineering Services	1 to 3 Years	Grants	20
149A	Flooding/ Dam	3A,5B	Conduct Stream Restoration and Floodplain enhancement via Re-establish/remove fill to enhance floodplain, natural channel design.	Technical and Engineering Services	1 to 3 Years	Grants	21
151A	Flooding/Dam	3A,5B	Conduct Buyout / Demolition of Carlisle and / or Franklin properties susceptible to flood losses.	Engineering and Property	1 to 3 Years	Grants	20
150A	Flooding/Dam	3A,5B	Conduct Buyout program/ Acquisition - Relocation of the Franklin & Carlisle Great Miami River Overflow.	Engineering and Property	Greater Than 3 Years	Existing Funds	18
Warren County Career Center							
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Director of Facility Operations	Less Than 1 Year	Grants	29
3	Multi-Hazard	2A,3A,3B	Procure generators and transfer switches for critical facilities such as admin and public safety buildings, schools, etc.	Director of Facility Operations	Less Than 1 Year	Grants	29
Warren County Health District							
28	Wind/Severe Storms and Tornadoes	1A,1B,2A, 2E,3A,5A	Assist jurisdictional plan for debris management, mass sheltering, and animal sheltering operations.	Sanitarian Supervisor	Less Than 1 Year	Existing Funds	30
39	Flooding / Dam	2F,3A	Develop inspection and maintenance programs on dams in coordination with dam owners.	Sanitarian Supervisor	Less Than 1 Year	Existing Funds	26
40	Hazardous Materials	1A,1B,3A	Create public education campaign about illicit discharge / reporting spills.	Sanitarian Supervisor	Less Than 1 Year	Existing Funds	26
54	Man-Made Events	1A,3C,5A	Designate an Intelligence Liaison Officer (ILO) to help facilitate intelligence and information sharing regarding man-made events/threats.	Sanitarian Supervisor	1 to 3 Years	Existing Funds	16
60	Invasive/ Harmful Species	1A,1B	Increase Public Health prevention and awareness programs for disease caused by invasive species for county residents.	Sanitarian Supervisor	Less Than 1 Year	Existing Funds	15
Warren County Regional Planning Commission							
2	Multi-Hazard	1A,1B,2C	Increase the use of social media to warn residents / visitors of severe weather & man-made events.	Environmental planner (EP) Subdivision Specialist (SS) EP / SS	1 to 3 Years	Existing Funds	31

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Warren County Regional Planning Commission cont.							
4	Multi-Hazard	1A,1B	Develop a plan for evacuating populations at any given time.	EP / SS	1 to 3 Years	Existing Funds	30
28	Wind/Severe Storms and Tornadoes	1A,1B,2A, 2E,3A,5A	Assist jurisdictional plan for debris management, mass sheltering, and animal sheltering operations.	EP / SS	1 to 3 Years	Existing Funds	29
34	Flooding/Dam	2B,5B	Adopt or amend zoning ordinance for better floodplain regulations.	EP / SS	1 to 3 Years	Existing Funds	28
43	Hazardous Materials Incident	1B,2A,4B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	EP / SS	Less Than 1 Year	Existing Funds	27
18	Multi-Hazard	5A	Encourage on-going education for seasoned and newly elected officials to familiarize them with the disaster cycle of prevention, preparedness, mitigation, response and recovery.	EP / SS	1 to 3 Years	Existing Funds	26
32	Flooding/Dam	1B,4C	Provide information to property owners in flood-prone areas on the need for NFIP coverage.	EP / SS	Continuous Project	Existing Funds	24
40	Hazardous Materials Incident	1A,1B,3A	Create public education campaign about illicit discharge and how to report spills.	EP / SS	Continuous Project	Existing Funds	23
53	Man-Made Events	1A,1B,2A, 4B,5A	Develop a training and education program for active aggressor incidents in facilities.	EP / SS	Continuous Project	Existing Funds	17
51	Winter Storms	2A,3A	Install or plant snow fences or "living snow fences" (rows of trees or vegetation) to limit blowing and drifting of snow over critical roadway segments.	EP / SS	1 to 3 Years	Existing Funds	16
60	Invasive/Harmful Species	1A,1B	Increase Public Health prevention and awareness programs for disease caused by invasive species for county residents.	EP / SS	Continuous Project	Existing Funds	14
70	Infectious Disease Outbreak	2A,4C,5A	Develop plans to respond to infectious diseases, including but not limited to reporting illnesses, social distancing, telecommuting, and facility closures.	EP / SS	Continuous Project	Existing Funds	5
76	Wildfires	1B,2B,2F,5B	Promote conservation of open space or wildland-urban boundary zones to separate developed areas from high-hazard areas.	EP / SS	Continuous Project	Existing Funds	2
78	Wildfires	3A,3C,5B	Construct defensible zones around power lines, oil and gas lines, and other infrastructure systems.	EP / SS	Continuous Project	Existing Funds	2
79	Wildfires	1B,2A,2B, 2D,4D	Establish wildfire mitigation planning requirements for large scale developments or planned unit developments.	EP / SS	Continuous Project	Existing Funds	2

APPENDIX 6 –LIST OF HAZARD MITIGATION PROJECTS BY JURISDICTION

Mitigation Action #	Hazard Applied to	Goal/Objective	Action	Responsible Party	Time Frame	Funding Source	Jurisdictional Priority
Warren County Sheriff's Office							
4	Multi-Hazard	1A,1B	Develop a plan for evacuating populations at any given time.	Chief Deputy	1 to 3 Years	Existing Funds	30
6	Multi-Hazard	1B,2E	Educate the public on what "shelter in place" means and how this action is performed.	Chief Deputy	1 to 3 Years	Existing Funds	29
21	Multi-Hazard	4A,4B,4C	Conduct all-hazard vulnerability assessments at critical infrastructures.	Chief Deputy	Continuous Project	Existing Funds	30
28	Wind/Severe Storms and Tornadoes	1A,1B,2A,2E,3A,5A	Assist jurisdictional plan for debris management, mass sheltering, and animal sheltering operations.	Chief Deputy	1 to 3 Years	Existing Funds	24
43	Hazardous Materials Incident	1B,2A,4B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Chief Deputy	1 to 3 Years	Existing Funds	20
44	Hazardous Materials Incident	2A,3A,3B,3C,5A	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Chief Deputy	Continuous Project	Grants	17
53	Man-Made Events	1A,1B,2A,4B,5A	Develop a training and education program for active aggressor incidents.	Chief Deputy	Less Than 1 Year	Existing Funds	18
56	Man-Made Events	1A,1B,5A	Develop an active public reporting system for suspicious activity.	Chief Deputy	Greater Than 3 Years	Existing Funds	15
63	Extreme Temperatures/Drought	3A,3B,3C,4A,4B	Establish ordinances on non-essential use of water during drought conditions.	Chief Deputy	Greater Than 3 Years	Existing Funds	7
Warren County Emergency Services							
6	Multi-Hazard	1B,2E	Develop a plan for evacuating populations at any given time.	Emergency Services Director	Continuous Project	Existing Funds	29
54	Man-Made Events	1A,3C,5A	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Emergency Services Director	Less Than 1 Year	Existing Funds	28
19	Multi-Hazard	1A,2A,5B	Develop and conduct training between first responders and chemical facilities for response to a chemical incident.	Emergency Services Director	Continuous Project	Existing Funds	27
18	Multi-Hazard	5A	Assist jurisdictional plan for debris management, mass sheltering, and animal sheltering operations.	Emergency Services Director	Continuous Project	Existing Funds	26
23	Multi-Hazard	2A,2B,3C,4B	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Emergency Services Director	Continuous Project	Existing Funds	26
12	Multi-Hazard	2A,2E	Educate the public on what "shelter in place" means and how this action is performed.	Emergency Services Director	1 to 3 Years	Existing Funds	25
13	Multi-Hazard	1A,1B,2A,2C	Conduct hazard vulnerability assessments on critical infrastructures.	Emergency Services Director	Continuous Project	Existing Funds	25
40	Hazardous Materials Incident	1A,1B,3A	Conduct a commodity flow study to determine the amount of hazardous materials that travel through communities/county.	Emergency Services Director	Continuous Project	Existing Funds	24

APPENDIX 7

COPIES OF LOCAL RESOLUTIONS ADOPTING THE 2020 HAZARD MITIGATION PLAN

*BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO*

Resolution

Number 20-1412

Adopted Date October 06, 2020

ACKNOWLEDGE PAYMENT OF BILLS

BE IT RESOLVED, to acknowledge payment of bills from 9/29/20 and 10/1/20 as attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

/tao

cc: Auditor

Resolution

Number 20-1413

Adopted Date October 06, 2020

APPROVE BOND RELEASE FOR EDWARD VA LIM FOR COMPLETION OF
IMPROVEMENTS IN LIMWOOD SITUATED IN HAMILTON/SALEM TOWNSHIPS

BE IT RESOLVED to approve the following bond release upon recommendation of the Warren
County Soil and Water Conservation District:

EROSION CONTROL PERFORMANCE BOND RELEASE

Bond Number	:	N/A
Development	:	Limwood
Developer	:	Edward VA Lim
Township	:	Hamilton/Salem
Amount	:	\$25,870
Surety Company	:	International Fidelity Insurance Co. #0744611

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Developer
Surety Co.
Soil & Water (file)
Bond Agreement file

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1414

Adopted Date October 06, 2020

ENTER INTO A SUBDIVISION PUBLIC IMPROVEMENT PERFORMANCE AND MAINTENANCE SECURITY AGREEMENT WITH PRUS PROPERTIES LLC FOR INSTALLATION OF CERTAIN IMPROVEMENTS IN THE VILLAGES OF CLASSICWAY SUBDIVISION, SECTION 7 SITUATED IN HAMILTON TOWNSHIP

BE IT RESOLVED, upon recommendation of the Warren County Sanitary Engineer, to enter into the following security agreement:

AGREEMENT

Bond Number	:	20-022 (W/S)
Development	:	The Villages of Classicway Subdivision, Section 7
Developer	:	Prus Properties, LLC
Township	:	Hamilton
Amount	:	\$24,510.00
Surety Company	:	Ohio Farmers Insurance Company (066755V)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

CGB

cc: Prus Properties, LLC, 5325 Wooster Road, Cincinnati, OH 45226
Ohio Farmers Ins Co, One Park Circle, Westfield Center, OH 44251
Water/Sewer (file)
Bond Agreement file

**SUBDIVISION PUBLIC IMPROVEMENT PERFORMANCE AND MAINTENANCE
SECURITY AGREEMENT**

WATER AND/OR SANITARY SEWER

Security Agreement No.

20-022 (w/s)

This Agreement made and concluded at Lebanon, Ohio, by and between Prus Properties, LLC.
(1) (hereinafter the "Developer") and the
Warren County Board of County Commissioners, (hereinafter the "County Commissioners"), and
Ohio Farmers Insurance Company (2) (hereinafter the "Surety").

WITNESSETH:

WHEREAS, the Developer is required to install certain improvements in The Villages of
Classicway **Subdivision, Section/Phase** 7 (3) (hereinafter the "Subdivision") situated in
Hamilton (4) Township, Warren County, Ohio, in accordance with the Warren County
Subdivision regulations (hereinafter called the "Improvements"); and,

WHEREAS, it is estimated that the total cost of the Improvements is \$245,100.00,
and that the Improvements that have yet to be completed and approved may be constructed in the sum of
\$0.00; and,

WHEREAS, the County Commissioners have determined to require all developers to post security
in the sum of one hundred thirty percent (130%) of the estimated cost of uncompleted or unapproved
Improvements to secure the performance of the construction of uncompleted or unapproved Improvements
in accordance with Warren County subdivision regulations and to require all Developers to post security in
the sum of ten percent (10%) of the estimated total cost of the Improvements after the completion of the
Improvements and their tentative acceptance by the County Commissioners to secure the performance of
all maintenance upon the Improvements as may be required between the completion and tentative
acceptance of the Improvements and their final acceptance by the County Commissioners.

NOW, THEREFORE, be it agreed:

1. The Developer will provide **performance security** to the County Commissioners in the sum
of \$0.00 to secure the performance of the construction of the
uncompleted or unapproved Improvements in accordance with Warren County subdivision
regulations (hereinafter the Performance Obligation). If any sum greater than zero (0) is
inserted herein, the **minimum performance security** shall be ten percent (10%) of the total
cost of the Improvements.

2. The County Commissioners will, upon approval of the County Sanitary Engineer of all Improvements in the Subdivision, tentatively accept all Improvements.
3. The Developer shall be in default of the Performance Obligation if the construction or installation of any Improvement by the Developer is not completed within one years from the date of the execution of this agreement, as determined by the County Sanitary Engineer. The same shall apply whenever construction of the Improvements is not performed in accordance with the Warren County subdivision regulations.
4. The condition of the Performance Obligation shall be that whenever the Developer shall be declared by the County Commissioners to be in default, the Surety and the Developer shall, upon written notification of default by the County Commissioners to the Surety promptly make sufficient funds available to the County Commissioners to pay the cost of the completion of the construction of the uncompleted or unapproved Improvements in accordance with Warren County subdivision regulations, including any costs incurred by the County Commissioners which are incidental to the completion of the construction of the uncompleted or unapproved Improvements, including, but not limited to costs associated with publication of legal notices, preparation of such additional plans, specifications and drawings as may, in the judgment of the County Commissioners, be necessary, preparation of bid documents, etc., but not exceeding the amount set forth in Item 1 hereof. The Developer shall have the opportunity to respond in writing within two (2) weeks of receipt of notice of intent to find the Developer in default. In the case that the performance security given is in the form of a cashier's check or certified check provided directly to the County Commissioners, the County Commissioners may apply such funds as set forth herein upon notification of default to the Surety. The determination of the amount of funds to be disbursed by Surety to the County Commissioners as set forth in the aforesaid notification is final and binding upon the parties hereto. However, the foregoing shall not release Developer from any liability for any deficiency between the amount of funds disbursed and the actual costs incurred by the County Commissioners in the completion of the construction or installation of the uncompleted or unapproved Improvements and Developer expressly agrees to be liable to the County Commissioners for any such deficiency.
5. The County Commissioners, the Developer and Surety mutually agree that the Performance Obligation created herein shall continue until the completion of the installation of the Improvements in accordance with Warren County subdivision regulations and that upon the Improvements having been inspected and approved for one year maintenance, the Performance Obligation shall become null and void.
6. The Developer will provide **maintenance security** to the County Commissioners in the sum of \$24,510.00 to secure the performance of all maintenance upon the Improvements as determined to be necessary by the County Sanitary Engineer (hereinafter the Maintenance Obligation). In no event shall the sum provided for herein be less than ten percent (10%) of the estimated total cost of the Improvements as set forth above.

7. The Developer, upon being notified by the County Sanitary Engineer of the maintenance required upon the Improvements to bring the same into compliance with Warren County Subdivision regulations shall immediately undertake to perform and complete such required maintenance within the time set forth in the notice from the County Sanitary Engineer.
8. The Developer shall be in default of the Maintenance Obligation should the Developer fail to complete or cause to be undertaken and completed required maintenance upon the Improvements as set forth in Item 7 hereof.
9. The condition of the Maintenance Obligation shall be that whenever the Developer shall be declared by the County Commissioners to be in default, the Surety and the Developer shall, upon written notification of default by the County Commissioners to the Surety promptly make sufficient funds available to the County Commissioners to pay the cost of the required maintenance upon the Improvements, including any costs incurred by the County Commissioners which are incidental to the performance of such maintenance, including, but not limited to costs associated with the publication of legal notices, preparation of additional plans, specifications and drawings, as may, in the judgment of the County Commissioners, be necessary, preparation of bid documents, etc. but not exceeding the amount set forth in Item 6 hereof. The Developer shall have the opportunity to respond in writing within two (2) weeks of receipt of notice of intent to find the Developer in default. In the case that the maintenance security given is in the form of a cashier's check or certified check provided directly to the County Commissioners, the County Commissioners may apply such funds to the completion of the required maintenance upon the Improvements upon notification of default to the Surety. The determination of the amount of funds to be disbursed by Surety to the County Commissioners as set forth in the aforesaid notification is final and binding upon the parties hereto. However, the foregoing shall not release Developer from any liability for any deficiency between the amount of funds disbursed and the actual costs incurred by the County Commissioners in the performance of maintenance upon the Improvements and Developer expressly agrees to be liable to the County Commissioners for any such deficiency.
10. That upon expiration of the one year from the date of the tentative acceptance of the Improvements by the County Commissioners and upon satisfactory completion of any required maintenance upon the Improvements to bring the Improvements into compliance with Warren County subdivision regulations, the County Commissioners hereby agree to release the maintenance security and give final acceptance to the Improvements. The Developer shall request, in writing directed to the County Sanitary Engineer, a final inspection of the Improvements and the Developer shall be responsible for all maintenance as may be necessary and as may accrue from the commencement of the one year maintenance period and until such written request for inspection is delivered.
11. In the case of default pursuant to Items 3 and 4 or 8 and 9 hereof, Developer shall make available to the County Commissioners all plans, specifications and drawing relating to the Improvements and hereby directs all third parties, including engineers and consultants, who may possess such plans, specifications and drawings, or copies thereof, to provide the same

to the County Commissioners upon request and presentation of this security agreement or a copy thereof and agrees to hold such third parties harmless from the provision of such plan specifications and drawings pursuant to this item. Developer does hereby consent to the use of such plans, specifications and drawings by the County Commissioners to complete the construction of the uncompleted or unapproved Improvements or the performance of maintenance upon the same in the case of default pursuant to Items 3 and 4 or 8 and 9 hereof.

12. In the case of conflict between the provisions of this agreement and any other security agreement relating to the same Improvements, the provisions of this agreement shall take precedence.
13. Any notice, correspondence, inquiry or request for inspection permitted or required under this security agreement shall be given as follows:

A. To the County Commissioners:

Warren County Commissioners
Attn: County Administrator
406 Justice Drive
Lebanon, OH 45036
Ph. (513) 695-1250

B. To the County Sanitary Engineer:

Warren County Water & Sewer Department
Attn: Sanitary Engineer
406 Justice Drive
Lebanon, OH 45036
Ph. (513) 695-1380

C. To the Developer:

Prus Properties, LLC.

5325 Wooster Rd.

Cincinnati, OH 45226

Ph. (513) 321 - 7774

D. To the Surety:

Ohio Farmers Insurance Company

One Park Circle

Westfield Center, OH 44251

Ph. (800) 243 - 0210

All notices and requests for inspection, unless otherwise specifically provided herein, shall be by certified mail, return receipt requested and shall be complete upon mailing. **All parties are obligated to give notice of any change of address.**

14. The security to be provided herein shall be by:

___ **Certified check or cashier's check** (attached) (CHECK # _____)

___ **Original Letter of Credit** (attached) (LETTER OF CREDIT # _____)

___ **Original Escrow Letter** (attached)

X **Surety Bond** (this security agreement shall serve as the bond when signed by an authorized representative of a surety company authorized to do business within the State of Ohio with a **power of attorney attached** evidencing such authorized signature).

___ **Surety obligation of national bank** (by signing this security agreement the authorized representative of the national bank undertaking this surety obligation does certify, for and on behalf of the undersigned national bank, that the bank has a segregated deposit sufficient in amount to the bank's total potential liability).

15. **The term "Surety" as used herein includes a bank, savings and loan or other financial institution where the security provided is a letter of credit, escrow letter or surety obligation of a national bank. The term "Surety" when referring to a bank, savings and loan or other financial institution is not intended to create obligations beyond those provided by Paragraphs 4 and/or 9 of this security agreement.**

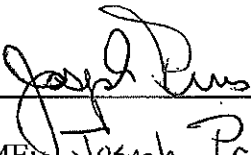
16. **In the event that Surety shall fail to make funds available to the County Commissioners in accordance with Paragraphs 4 or 9, as applicable, within thirty (30) days after notification of default, then amounts due shall bear interest at eight per cent (8%) per annum.**

17. This Agreement shall not be assignable or transferrable by the Developer or Surety to any third party or parties without the express written consent of the County Commissioners. Developer and Surety waive any successor developer or successor surety claim or defense unless the County Commissioners have executed a written consent of assignment.
18. This Agreement shall be construed under the laws of the State of Ohio. The Developer and Surety hereby stipulate to the venue for any and all claims, disputes, interpretations and litigation of any kind arising out of this Agreement, being exclusively in the Warren County, Ohio Court of Common Pleas (unless both parties mutually agree in writing to attempt to resolve by alternate dispute resolution prior to litigation), and do further waive any right to bring or remove such claims, disputes, interpretation and litigation of any kind arising out of this Agreement, in or to any other state or a federal court.

IN EXECUTION WHEREOF, the Developer and the Surety have caused this security agreement to be executed on the date stated below.

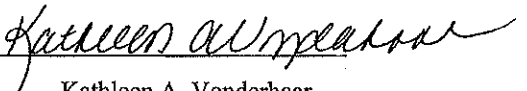
DEVELOPER:

Pursuant to a resolution authorizing the undersigned to execute this agreement.

SIGNATURE: 
PRINTED NAME: Joseph Prus
TITLE: Managing Member
DATE: 9-29-2020

SURETY:

Pursuant to an instrument authorizing the undersigned to execute this agreement.

SIGNATURE: 
PRINTED NAME: Kathleen A. Vonderhaar
TITLE: Attorney-in-fact
DATE: 9-28-2020

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK]

IN EXECUTION WHEREOF, the Warren County Board of County Commissioners have caused this security agreement to be executed by the ^{Vice} President of the Board, on the date stated below, pursuant to Board Resolution Number 80-1414, dated 10/6/2020.

WARREN COUNTY
BOARD OF COUNTY COMMISSIONERS

SIGNATURE: Tom Grossmann

PRINTED NAME: Tom Grossmann

TITLE: Vice President

DATE: 10/6/2020

RECOMMENDED BY:

By: Chris Boych
SANITARY ENGINEER

APPROVED AS TO FORM:

By: Ken W. Auler
COUNTY PROSECUTOR

Key:

1. Name of Developer
2. Name of Person, Firm, Entity, etc. who is providing the security whether that be a bank or other financial institution (in the case of a letter of credit or escrow letter) (Surety Company in the case of a bond) or the Developer itself (in the case of a certified check or cashier's check)
3. Name of subdivision with section number and phase number where applicable
4. Name of Township

General
Power
of Attorney

POWER NO. 3411882 01

**Westfield Insurance Co.
Westfield National Insurance Co.
Ohio Farmers Insurance Co.**
Westfield Center, Ohio

CERTIFIED COPY

Know All Men by These Presents, That WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, corporations, hereinafter referred to individually as a "Company" and collectively as "Companies," duly organized and existing under the laws of the State of Ohio, and having its principal office in Westfield Center, Medina County, Ohio, do by these presents make, constitute and appoint
KATHLEEN A. VONDERHAAR, PATRICK J. MORGAN, SUSAN M. RINDERLE, JOINTLY OR SEVERALLY

of CINCINNATI and State of OH its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings, or other instruments or contracts of suretyship.

LIMITATION: THIS POWER OF ATTORNEY CANNOT BE USED TO EXECUTE NOTE GUARANTEE, MORTGAGE DEFICIENCY, MORTGAGE GUARANTEE, OR BANK DEPOSITORY BONDS.

and to bind any of the Companies thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the applicable Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolution adopted by the Board of Directors of each of the WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY:

"Be It Resolved, that the President, any Senior Executive, any Secretary or any Fidelity & Surety Operations Executive or other Executive shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

The Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements of Indemnity and other conditional or obligatory undertakings and any and all notices and documents canceling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed by the President and sealed and attested by the Corporate Secretary."

"Be It Further Resolved, that the signature of any such designated person and the seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signatures or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached." (Each adopted at a meeting held on February 8, 2000).

In Witness Whereof, WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY have caused these presents to be signed by their National Surety Leader and Senior Executive and their corporate seals to be hereto affixed this 02nd day of JANUARY A.D., 2020.

Corporate
Seals
Affixed



WESTFIELD INSURANCE COMPANY
WESTFIELD NATIONAL INSURANCE COMPANY
OHIO FARMERS INSURANCE COMPANY

By:
Gary W. Stumper, National Surety Leader and Senior Executive

State of Ohio
County of Medina ss.:

On this 02nd day of JANUARY A.D., 2020, before me personally came Gary W. Stumper to me known, who, being by me duly sworn, did depose and say, that he resides in Hartford, CT; that he is National Surety Leader and Senior Executive of WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, the companies described in and which executed the above instrument; that he knows the seals of said Companies; that the seals affixed to said instrument are such corporate seals; that they were so affixed by order of the Boards of Directors of said Companies; and that he signed his name thereto by like order.

Notarial
Seal
Affixed



David A. Kotnik, Attorney at Law, Notary Public
My Commission Does Not Expire (Sec. 147.03 Ohio Revised Code)

State of Ohio
County of Medina ss.:

I, Frank A. Carrino, Secretary of WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; and furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Westfield Center, Ohio, this 29th day of

September 2020



Frank A. Carrino, Secretary

Office of Risk Assessment
50 West Town Street
Third Floor - Suite 300
Columbus, Ohio 43215
(614)644-2658
Fax(614)644-3256
www.insurance.ohio.gov

Ohio Department of Insurance

Mike DeWine - Governor

Jillian Froment - Director

Certificate of Compliance



Issued 06/02/2020

Effective 07/01/2020

Expires 06/30/2021

I, Jillian Froment, hereby certify that I am the Director of Insurance in the State of Ohio and have supervision of insurance business in said State and as such I hereby certify that

OHIO FARMERS INSURANCE COMPANY

of Ohio is duly organized under the laws of this State and is authorized to transact the business of insurance under the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Accident & Health

Aircraft

Allied Lines

Boiler & Machinery

Burglary & Theft

Collectively Renewable A & H

Commercial Auto - Liability

Commercial Auto - No Fault

Commercial Auto - Physical Damage

Credit Accident & Health

Earthquake

Fidelity

Financial Guaranty

Fire

Glass

Group Accident & Health

Guaranteed Renewable A & H

Inland Marine

Medical Malpractice

Multiple Peril - Commercial

Multiple Peril - Farmowners

Multiple Peril - Homeowners

Noncancellable A & H

Nonrenew- Stated Reasons (A&H)

Ocean Marine

Other Accident only

Other Liability

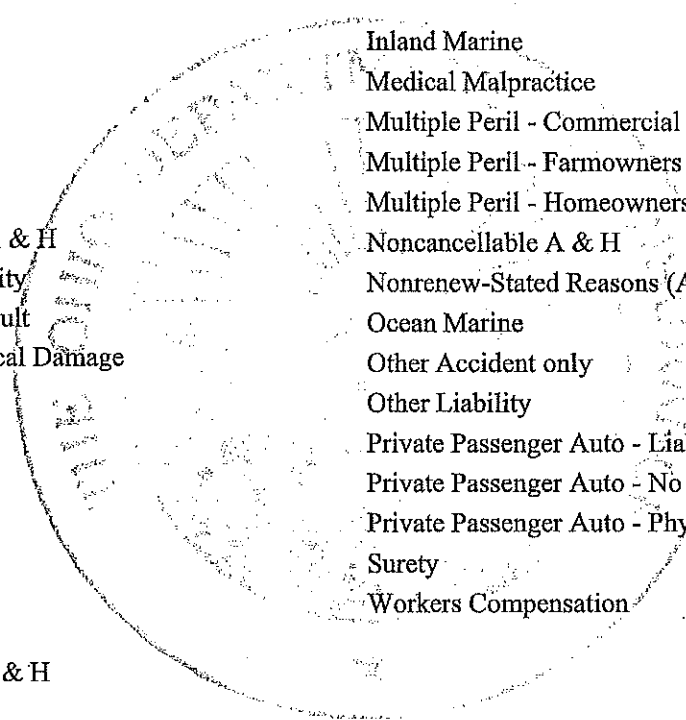
Private Passenger Auto - Liability

Private Passenger Auto - No Fault

Private Passenger Auto - Physical Damage

Surety

Workers Compensation



OHIO FARMERS INSURANCE COMPANY certified in its annual statement to this Department as of December 31, 2019 that it has admitted assets in the amount of \$3,270,649,085, liabilities in the amount of \$759,472,413, and surplus of at least \$2,511,176,672.

IN WITNESS WHEREOF, I have hereunto subscribed my name and caused my seal to be affixed at Columbus, Ohio, this day and date.

Handwritten signature of Jillian Froment in cursive.

Jillian Froment, Director



**Financial
Statement**

December 31, 2019

Ohio Farmers Insurance Co.

Westfield Center, Ohio 44251-5001

**OHIO FARMERS INSURANCE COMPANY
BALANCE SHEET**

12/31/19
(in thousands)

Assets	
Cash, cash equivalents, and short term investments	29,473
Bonds	444,935
Stocks	144,750
Subsidiaries	2,206,906
Real estate	160,044
Premiums receivable	112,354
Other assets	<u>172,187</u>
Total assets	<u>3,270,649</u>
Liabilities	
Reserve for unearned premiums	167,924
Reserve for unpaid losses and loss expenses	332,025
Reserve for taxes and other liabilities	<u>259,523</u>
Total liabilities	759,472
Surplus	
Surplus to policyholders	<u>2,511,177</u>
Total surplus	2,511,177
Total liabilities and surplus	<u>3,270,649</u>

State of Ohio

ss:

County of Medina

The undersigned, being duly sworn, says: That he is National Surety Leader - Surety Operations of Ohio Farmers Insurance Company, Westfield Center, Ohio; that said Company is a corporation duly organized, existing and engaged in business as a Surety Company by virtue of the Laws of the State of Ohio and authorized to do business in the State of and has duly complied with all the requirements of the laws of said State applicable to said Company and is duly qualified to act as Surety under such laws; that said Company has also complied with and is duly qualified to act as Surety under the Act of Congress approved July 1947, 6 U.S.C. sec. 6-13; and that to the best of his knowledge and belief the above statement is a full, true, and correct statement of the financial condition of the said Company on the 31st day of December, 2019.

Attest:

Frank Carrino
.....
Frank A. Carrino
Group Legal Leader, Secretary

Gary W. Stumper
.....
Gary W. Stumper
National Surety Leader
Senior Executive



Sworn to before me this 12th day of February A.D. 2020.

My Commission Does Not Expire
Sec. 147.03 Ohio Revised Code

David A. Kotnik
.....
David A. Kotnik
Attorney at Law
Notary Public – State of Ohio



**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1415

Adopted Date October 06, 2020

ENTER INTO STREET AND APPURTENANCES (INCLUDING SIDEWALKS) SECURITY AGREEMENT WITH PRUS PROPERTIES, LLC FOR INSTALLATION OF CERTAIN IMPROVEMENTS IN THE VILLAGES OF CLASSICWAY SUBDIVISION, SECTION 7 SITUATED IN HAMILTON TOWNSHIP

BE IT RESOLVED, upon recommendation of the Warren County Engineer, to enter into the following Street and Appurtenances (including sidewalks) Security Agreement:

SECURITY AGREEMENT

Bond Number	:	20-024 (P/S)
Development	:	The Villages of Classicway Subdivision, Section 7
Developer	:	Prus Properties, LLC
Township	:	Hamilton
Amount	:	\$101,270.00
Surety Company	:	Ohio Farmers Insurance Company (066755W)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Developer
Surety Company
Engineer (file)
Bond Agreement file

Form ST-1
Rev. 08/2016

**SUBDIVISION PUBLIC IMPROVEMENT PERFORMANCE AND MAINTENANCE
SECURITY AGREEMENT**

**STREETS AND APPURTENANCES
(including Sidewalks)**

Security Agreement No.

20-024 (P/S)

This Agreement made and concluded at Lebanon, Ohio, by and between Prus Properties, LLC. (1) (hereinafter the "Developer") and the Warren County Board of County Commissioners, (hereinafter the "County Commissioners"), and Ohio Farmers Insurance Company (2) (hereinafter the "Surety").

WITNESSETH:

WHEREAS, the Developer is required to install certain improvements in The Villages of Classicway **Subdivision, Section/Phase** 7 (3) (hereinafter the "Subdivision") situated in Hamilton (4) Township, Warren County, Ohio, in accordance with the Warren County Subdivision regulations (hereinafter called the "Improvements"); and,

WHEREAS, it is estimated that the total cost of the Improvements is \$455,000.00, and that the Improvements that have yet to be completed and approved may be constructed in the sum of \$77,900.00; and,

WHEREAS, the County Commissioners require all developers to post security in the sum of one hundred thirty percent (130%) of the estimated cost of uncompleted or unapproved Improvements to secure the performance of the construction of uncompleted or unapproved Improvements in accordance with Warren County subdivision regulations and to require all Developers to post security in the sum of twenty percent (20%) of the estimated total cost of the Improvements after the completion of the Improvements and their tentative acceptance by the County Commissioners to secure the performance of all maintenance upon the Improvements as may be required between the completion and tentative acceptance of the Improvements and their final acceptance by the County Commissioners.

NOW, THEREFORE, be it agreed:

1. The Developer will provide **performance security** to the County Commissioners in the sum of \$101,270.00 to secure the performance of the construction of the uncompleted or unapproved Improvements in accordance with Warren County subdivision regulations (hereinafter the Performance Obligation). If any sum greater than zero (0) is inserted herein, the **minimum performance security** shall be twenty percent (20%) of the total cost of the Improvements.

2. The County Commissioners will, upon approval of the County Engineer of all Improvements in the Subdivision, tentatively accept all Improvements.
3. The Developer shall be in default of the Performance Obligation if the construction or installation of any Improvement by the Developer is not completed within two years from the date of the execution of this agreement, as determined by the County Engineer. The same shall apply whenever construction of the Improvements is not performed in accordance with the Warren County subdivision regulations.
4. The condition of the Performance Obligation shall be that whenever the Developer shall be declared by the County Commissioners to be in default, the Surety and the Developer shall, upon written notification of default by the County Commissioners to the Surety promptly make sufficient funds available to the County Commissioners to pay the cost of the completion of the construction of the uncompleted or unapproved Improvements in accordance with Warren County subdivision regulations, including any costs incurred by the County Commissioners which are incidental to the completion of the construction of the uncompleted or unapproved Improvements, including, but not limited to costs associated with publication of legal notices, preparation of such additional plans, specifications and drawings as may, in the judgment of the County Commissioners, be necessary, preparation of bid documents, etc., but not exceeding the amount set forth in Item 1 hereof. The Developer shall have the opportunity to respond in writing within two (2) weeks of receipt of notice of intent to find the Developer in default. In the case that the performance security given is in the form of a cashier's check or certified check provided directly to the County Commissioners, the County Commissioners may apply such funds as set forth herein upon notification of default to the Surety. The determination of the amount of funds to be disbursed by Surety to the County Commissioners as set forth in the aforesaid notification is final and binding upon the parties hereto. However, the foregoing shall not release Developer from any liability for any deficiency between the amount of funds disbursed and the actual costs incurred by the County Commissioners in the completion of the construction or installation of the uncompleted or unapproved Improvements and Developer expressly agrees to be liable to the County Commissioners for any such deficiency.
5. **The County Commissioners, the Developer and Surety mutually agree that the Performance Obligation created herein shall continue until the completion of the installation of the Improvements in accordance with Warren County subdivision regulations and that upon the Improvements having been inspected and approved for two years maintenance, the Performance Obligation shall become null and void after the Developer posts the maintenance security provided for herein.**
6. The Developer will provide **maintenance security** to the County Commissioners in the sum of \$91,000.00 to secure the performance of all maintenance upon the Improvements as determined to be necessary by the County Engineer (hereinafter the Maintenance Obligation). In no event shall the sum provided for herein be less than twenty percent (20%) of the estimated total cost of the Improvements as set forth above.

7. The Developer, upon being notified by the County Engineer of the maintenance required upon the Improvements to bring the same into compliance with Warren County Subdivision regulations shall immediately undertake to perform and complete such required maintenance within the time set forth in the notice from the County Engineer.
8. The Developer shall be in default of the Maintenance Obligation should the Developer fail to complete or cause to be undertaken and completed required maintenance upon the Improvements as set forth in Item 7 hereof.
9. The condition of the Maintenance Obligation shall be that whenever the Developer shall be declared by the County Commissioners to be in default, the Surety and the Developer shall, upon written notification of default by the County Commissioners to the Surety promptly make sufficient funds available to the County Commissioners to pay the cost of the required maintenance upon the Improvements, including any costs incurred by the County Commissioners which are incidental to the performance of such maintenance, including, but not limited to costs associated with the publication of legal notices, preparation of additional plans, specifications and drawings, as may, in the judgment of the County Commissioners, be necessary, preparation of bid documents, etc. but not exceeding the amount set forth in Item 6 hereof. The Developer shall have the opportunity to respond in writing within two (2) weeks of receipt of notice of intent to find the Developer in default. In the case that the maintenance security given is in the form of a cashier's check or certified check provided directly to the County Commissioners, the County Commissioners may apply such funds to the completion of the required maintenance upon the Improvements upon notification of default to the Surety. The determination of the amount of funds to be disbursed by Surety to the County Commissioners as set forth in the aforesaid notification is final and binding upon the parties hereto. However, the foregoing shall not release Developer from any liability for any deficiency between the amount of funds disbursed and the actual costs incurred by the County Commissioners in the performance of maintenance upon the Improvements and Developer expressly agrees to be liable to the County Commissioners for any such deficiency.
10. That upon expiration of the two years from the date of the tentative acceptance of the Improvements by the County Commissioners and upon satisfactory completion of any required maintenance upon the Improvements to bring the Improvements into compliance with Warren County subdivision regulations, the County Commissioners hereby agree to release the maintenance security and give final acceptance to the Improvements. The Developer shall request, in writing directed to the County Engineer, a final inspection of the Improvements and the Developer shall be responsible for all maintenance as may be necessary and as may accrue from the commencement of the **two year maintenance period** and until such written request for inspection is delivered.
11. In the case of default pursuant to Items 3 and 4 or 8 and 9 hereof, Developer shall make available to the County Commissioners all plans, specifications and drawing relating to the Improvements and hereby directs all third parties, including engineers and consultants, who may possess such plans, specifications and drawings, or copies thereof, to provide the same

to the County Commissioners upon request and presentation of this security agreement or a copy thereof and agrees to hold such third parties harmless from the provision of such plan specifications and drawings pursuant to this item. Developer does hereby consent to the use of such plans, specifications and drawings by the County Commissioners to complete the construction of the uncompleted or unapproved Improvements or the performance of maintenance upon the same in the case of default pursuant to Items 3 and 4 or 8 and 9 hereof.

12. In the case of conflict between the provisions of this agreement and any other security agreement relating to the same Improvements, the provisions of this agreement shall take precedence.
13. Any notice, correspondence, inquiry or request for inspection permitted or required under this security agreement shall be given as follows:

A. To the County Commissioners:

Warren County Board of County Commissioners
Attn: County Administrator
406 Justice Drive
Lebanon, OH 45036
Ph. (513) 695-1250

B. To the County Engineer:

Warren County Engineer
105 Markey Road
Lebanon, OH 45036
Ph. (513) 695-3336

C. To the Developer:

Prus Properties, LLC.

5325 Wooster Rd.

Cincinnati, OH 45226

Ph. (513) 321 - 7774

D. To the Surety:

Ohio Farmers Insurance Company

One Park Circle

Westfield Center, OH 44251

Ph. (800) 243 - 0210

All notices and requests for inspection, unless otherwise specifically provided herein, shall be by certified mail, return receipt requested, and shall be complete upon mailing. **All parties are obligated to give notice of any change of address.**

14. The security to be provided herein shall be by:

_____ **Certified check or cashier's check** (attached) (**CHECK #** _____)

_____ **Original Letter of Credit** (attached) (**LETTER OF CREDIT #** _____)

_____ **Original Escrow Letter** (attached)

Surety Bond (this security agreement shall serve as the bond when signed by an authorized representative of a surety company authorized to do business within the State of Ohio with a **power of attorney attached** evidencing such authorized signature).

_____ **Surety obligation of national bank** (by signing this security agreement the authorized representative of the national bank undertaking this surety obligation does certify, for and on behalf of the undersigned national bank, that the bank has a segregated deposit sufficient in amount to the bank's total potential liability).

15. **The term "Surety" as used herein includes a bank, savings and loan or other financial institution where the security provided is a letter of credit, escrow letter or surety obligation of a national bank. The term "Surety" when referring to a bank, savings and loan or other financial institution is not intended to create obligations beyond those provided by Paragraphs 4 and/or 9 of this security agreement.**

16. **In the event that Surety shall fail to make funds available to the County Commissioners in accordance with Paragraphs 4 or 9, as applicable, within thirty (30) days after notification of default, then amounts due shall bear interest at eight per cent (8%) per annum.**


17. This Agreement shall not be assignable or transferrable by the Developer or Surety to any third party or parties without the express written consent of the County Commissioners. Developer and Surety waive any successor developer or successor surety claim or defense unless the County Commissioners have executed a written consent of assignment.

18. This Agreement shall be construed under the laws of the State of Ohio. The Developer and Surety hereby stipulate to the venue for any and all claims, disputes, interpretations and litigation of any kind arising out of this Agreement, being exclusively in the Warren County, Ohio Court of Common Pleas (unless both parties mutually agree in writing to attempt to resolve by alternate dispute resolution prior to litigation), and do further waive any right to bring or remove such claims, disputes, interpretation and litigation of any kind arising out of this Agreement, in or to any other state or a federal court.

IN EXECUTION WHEREOF, the Developer and the Surety have caused this security agreement to be executed on the date stated below.


DEVELOPER:

Pursuant to a resolution authorizing the undersigned to execute this agreement.

SIGNATURE: 
 PRINTED NAME: Joseph Prus
 TITLE: Managing Member
 DATE: 9-29-2020

SURETY:

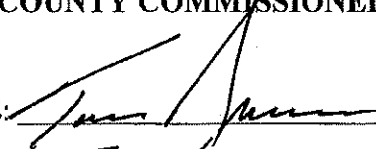
Pursuant to an instrument authorizing the undersigned to execute this agreement.

SIGNATURE: 
 PRINTED NAME: Kathleen A. Vonderhaar
 TITLE: Attorney-in -fact
 DATE: 9-28-2020

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK]

IN EXECUTION WHEREOF, the Warren County Board of County Commissioners have caused this security agreement to be executed by the ^{Vice} President of the Board, on the date stated below, pursuant to Board Resolution Number 20.1415, dated 10/6/2020

**WARREN COUNTY
BOARD OF COUNTY COMMISSIONERS**

SIGNATURE: 

PRINTED NAME: Tom Grossmann

TITLE: Vice President

DATE: 10/6/2020

RECOMMENDED BY:

By: 
COUNTY ENGINEER

APPROVED AS TO FORM:

By: 
COUNTY PROSECUTOR

Key:

1. Name of Developer
2. Name of Person, Firm, Entity, etc. who is providing the security whether that be a bank or other financial institution (in the case of a letter of credit or escrow letter) (Surety Company in the case of a bond) or the Developer itself (in the case of a certified check or cashier's check)
3. Name of subdivision with section number and phase number where applicable
4. Name of Township

General
Power
of Attorney

POWER NO. 3411882 01

**Westfield Insurance Co.
Westfield National Insurance Co.
Ohio Farmers Insurance Co.**
Westfield Center, Ohio

CERTIFIED COPY

Know All Men by These Presents, That WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, corporations, hereinafter referred to individually as a "Company" and collectively as "Companies," duly organized and existing under the laws of the State of Ohio, and having its principal office in Westfield Center, Medina County, Ohio, do by these presents make, constitute and appoint
KATHLEEN A. VONDERHAAR, PATRICK J. MORGAN, SUSAN M. RINDERLE, JOINTLY OR SEVERALLY

of CINCINNATI and State of OH its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings, or other instruments or contracts of suretyship

LIMITATION: THIS POWER OF ATTORNEY CANNOT BE USED TO EXECUTE NOTE GUARANTEE, MORTGAGE DEFICIENCY, MORTGAGE GUARANTEE, OR BANK DEPOSITORY BONDS.

and to bind any of the Companies thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the applicable Company and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolution adopted by the Board of Directors of each of the WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY:

"Be It Resolved, that the President, any Senior Executive, any Secretary or any Fidelity & Surety Operations Executive or other Executive shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for and on behalf of the Company subject to the following provisions:

The Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements of indemnity and other conditional or obligatory undertakings and any and all notices and documents cancelling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be as binding upon the Company as if signed by the President and sealed and attested by the Corporate Secretary."

"Be It Further Resolved, that the signature of any such designated person and the seal of the Company heretofore or hereafter affixed to any power of attorney or any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signatures or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached." (Each adopted at a meeting held on February 8, 2000).

In Witness Whereof, WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY have caused these presents to be signed by their National Surety Leader and Senior Executive and their corporate seals to be hereto affixed this 02nd day of JANUARY A.D., 2020.

Corporate
Seals
Affixed



WESTFIELD INSURANCE COMPANY
WESTFIELD NATIONAL INSURANCE COMPANY
OHIO FARMERS INSURANCE COMPANY

By:
Gary W. Stumper, National Surety Leader and Senior Executive

State of Ohio
County of Medina ss.:

On this 02nd day of JANUARY A.D., 2020, before me personally came Gary W. Stumper to me known, who, being by me duly sworn, did depose and say, that he resides in Hartford, CT; that he is National Surety Leader and Senior Executive of WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, the companies described in and which executed the above instrument; that he knows the seals of said Companies; that the seals affixed to said instrument are such corporate seals; that they were so affixed by order of the Boards of Directors of said Companies; and that he signed his name thereto by like order.

Notarial
Seal
Affixed



David A. Kotnik, Attorney at Law, Notary Public
My Commission Does Not Expire (Sec. 147.03 Ohio Revised Code)

State of Ohio
County of Medina ss.:

I, Frank A. Carrino, Secretary of WESTFIELD INSURANCE COMPANY, WESTFIELD NATIONAL INSURANCE COMPANY and OHIO FARMERS INSURANCE COMPANY, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney, executed by said Companies, which is still in full force and effect; and furthermore, the resolutions of the Boards of Directors, set out in the Power of Attorney are in full force and effect.

In Witness Whereof, I have hereunto set my hand and affixed the seals of said Companies at Westfield Center, Ohio, this 26th day of

September

A.D., 2020



Frank A. Carrino, Secretary

Office of Risk Assessment
50 West Town Street
Third Floor - Suite 300
Columbus, Ohio 43215
(614)644-2658
Fax(614)644-3256
www.insurance.ohio.gov

Ohio Department of Insurance

Mike DeWine - Governor

Jillian Froment - Director

Certificate of Compliance



Issued 06/02/2020

Effective 07/01/2020

Expires 06/30/2021

I, Jillian Froment, hereby certify that I am the Director of Insurance in the State of Ohio and have supervision of insurance business in said State and as such I hereby certify that

OHIO FARMERS INSURANCE COMPANY

of Ohio is duly organized under the laws of this State and is authorized to transact the business of insurance under the following section(s) of the Ohio Revised Code:

Section 3929.01 (A)

Accident & Health

Aircraft

Allied Lines

Boiler & Machinery

Burglary & Theft

Collectively Renewable A & H

Commercial Auto - Liability

Commercial Auto - No Fault

Commercial Auto - Physical Damage

Credit Accident & Health

Earthquake

Fidelity

Financial Guaranty

Fire

Glass

Group Accident & Health

Guaranteed Renewable A & H

Inland Marine

Medical Malpractice

Multiple Peril - Commercial

Multiple Peril - Farmowners

Multiple Peril - Homeowners

Noncancellable A & H

Nonrenew- Stated Reasons (A&H)

Ocean Marine

Other Accident only

Other Liability

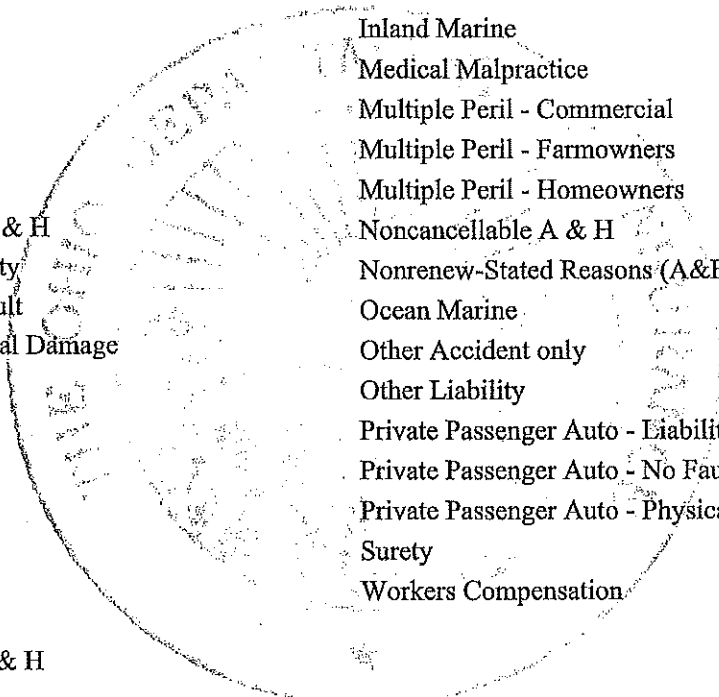
Private Passenger Auto - Liability

Private Passenger Auto - No Fault

Private Passenger Auto - Physical Damage

Surety

Workers Compensation



OHIO FARMERS INSURANCE COMPANY certified in its annual statement to this Department as of December 31, 2019 that it has admitted assets in the amount of \$3,270,649,085, liabilities in the amount of \$759,472,413, and surplus of at least \$2,511,176,672.

IN WITNESS WHEREOF, I have hereunto subscribed my name and caused my seal to be affixed at Columbus, Ohio, this day and date.

Jillian Froment, Director



**Financial
Statement**

December 31, 2019

Ohio Farmers Insurance Co.
Westfield Center, Ohio 44251-5001

**OHIO FARMERS INSURANCE COMPANY
BALANCE SHEET**

12/31/19
(in thousands)

Assets	
Cash, cash equivalents, and short term investments	29,473
Bonds	444,935
Stocks	144,750
Subsidiaries	2,206,906
Real estate	160,044
Premiums receivable	112,354
Other assets	172,187
Total assets	3,270,649
Liabilities	
Reserve for unearned premiums	167,924
Reserve for unpaid losses and loss expenses	332,025
Reserve for taxes and other liabilities	259,523
Total liabilities	759,472
Surplus	
Surplus to policyholders	2,511,177
Total surplus	2,511,177
Total liabilities and surplus	3,270,649

State of Ohio

ss:

County of Medina

The undersigned, being duly sworn, says: That he is National Surety Leader - Surety Operations of Ohio Farmers Insurance Company, Westfield Center, Ohio; that said Company is a corporation duly organized, existing and engaged in business as a Surety Company by virtue of the Laws of the State of Ohio and authorized to do business in the State of and has duly complied with all the requirements of the laws of said State applicable to said Company and is duly qualified to act as Surety under such laws; that said Company has also complied with and is duly qualified to act as Surety under the Act of Congress approved July 1947, 6 U.S.C. sec. 6-13; and that to the best of his knowledge and belief the above statement is a full, true, and correct statement of the financial condition of the said Company on the 31st day of December, 2019.

Attest:

Frank Carrino

Frank A. Carrino
Group Legal Leader, Secretary

Gary W. Stumper

Gary W. Stumper
National Surety Leader
Senior Executive

Sworn to before me this 12th day of February A.D. 2020.

My Commission Does Not Expire
Sec. 147.03 Ohio Revised Code

David A. Kotnik

David A. Kotnik
Attorney at Law
Notary Public – State of Ohio



**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1416

Adopted Date October 06, 2020

APPROVE VARIOUS RECORD PLATS

BE IT RESOLVED, upon recommendation of the Warren County Regional Planning Commission, to approve the following Record Plats and authorize County Administrator to sign same:

- Villages of Classicway Subdivision, Section 7 – Hamilton Township
- Fullenkamp Subdivision - Wayne Township

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Plat File
RPC

BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO

Resolution

Number 20-1417

Adopted Date October 06, 2020

APPROVE OPERATING TRANSFERS FROM WATER 5510 (SURPLUS) INTO 5583 WATER REVENUE PROJECTS FUND

WHEREAS, it has previously been determined that all of the projects in Fund 5583 are going to be financed fully or partially through Water Revenue Funds (surplus); and

WHEREAS, a portion of those funds are necessary to pay current and anticipated obligations within Fund 5583; and

NOW THEREFORE BE IT RESOLVED, to approve the following operating transfers:

\$3,988,808.54	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833208-AAREVENUE-5583-49000	(Water Softening Project)
\$357.61	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833210-AAREVENUE-5583-49000	(Red Lion Interconnect Proj)
\$47,844.00	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833212-AAREVENUE-5583-49000	(Well Redevelopment Project)
\$379,763.00	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833215-AAREVENUE-5583-49000	(Snider Rd. Tank Painting Proj)
\$100,000.00	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833218-AAREVENUE-5583-49000	(Socialville Trans Main Proj)
\$62,000.00	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833219-AAREVENUE-5583-49000	(Middletown Interconnect Proj)
\$75,252.00	from	#E-55103219-AAEXPENSE-55103219-5997	(Operational Transfers)
	into	#F-55833219-AAREVENUE-5583-49000	(SR 22/3 Waterline Proj)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

mbz

cc: Auditor
Operational Transfer file

Water/Sewer (File)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1418

Adopted Date October 06, 2020

APPROVE A CASH ADVANCE FROM THE COUNTY MOTOR VEHICLE FUND #2202 INTO THE LIBERTY WAY/MASON RD TURN LANES PROJECT FUND #4434

WHEREAS, Neil Tunison, Warren County Engineer and appointing authority for the Liberty Way/Mason Rd Turn Lanes Project has requested a cash advance until monies are received from fund #2202; and

WHEREAS, said cash advance will be repaid upon receipt of said funds from fund #2202; and

NOW THEREFORE BE IT RESOLVED, to approve the following cash advance:

\$236,971.00 from 2202-45556 (Advances of Cash Out)
into 4434-45555 (Cash Advance In)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Auditor
Cash Advance File
Engineer (file)

Resolution

Number 20-1419

Adopted Date October 06, 2020

APPROVE REPAYMENT OF CASH ADVANCE AND APPROVE CASH ADVANCE FOR COAP GRANT FUND #2251

WHEREAS, pursuant to Resolution #19-0469, adopted April 16, 2019, this board approved a cash advance from the County General Fund #1101 into the COAP Grant Fund #2251; and

WHEREAS, said grant funds have not yet been received and the 2019 cash advance must be repaid, and

NOW THEREFORE BE IT RESOLVED, to approve the following 2020 cash advance to cover the extension of the grant period and repay the 2019 cash advance:

\$400,000.00 from #1101 45556 (GF - Advance of Cash Out)
into #2251 45555 (COAP Grant – Advance of Cash In)

BE IT FURTHER RESOLVED, to approve the repayment of said 2019 cash advance:

\$400,000.00 from #2251 45556 (COAP Grant – Advance of Cash Out)
into #1101 45555 (GF-Advance of Cash In)

BE IT FURTHER RESOLVED, that said cash advance shall be repaid upon the receipt of reimbursement from US Dept. of Justice – Bureau of Justice Assistance.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

/sm

cc: Auditor
Cash Advance file
OGA (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1420

Adopted Date October 06, 2020

APPROVE SUPPLEMENTAL APPROPRIATION INTO WARREN COUNTY TRANSIT FUND #2299

BE IT RESOLVED, in order to prepare a purchase order for four new transit buses, funded with grant funds from Ohio Department of Transportation, it is necessary to approve the following supplemental appropriation:

\$150,000.00 into #22997000-5310 (Vehicles – Capital Outlay)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

/sm

cc: Auditor
Supplemental Appropriation file
OGA (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1421

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENT WITHIN THE BUILDING AND ZONING
DEPARTMENT FUND #11012300

BE IT RESOLVED, to approve the following appropriation adjustment:

\$4,914.00 from #11012300-5830 (Workers' Comp)
 into #11012300-5318 (Data Board Approv. - Non Capital)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Auditor
Appropriation Adjustment file
Building/Zoning (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1422

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENT WITHIN EMERGENCY SERVICES/
COMMUNICATIONS CENTER FUND #11012850

BE IT RESOLVED, to approve the following appropriation adjustment:

\$1,000.00	from	#11012850 5830	(Workers Comp.)
	into	#11012850 5317	(Non-Capital Purchases)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Auditor
Appropriation Adjustment file
Emergency Services (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1423

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENTS WITHIN PROSECUTOR FUND 2245

BE IT RESOLVED, to approve the following appropriation adjustments:

\$303.00	from	#22452450-5210	(Material & Supplies)
	into	#22452450-5950	(Refunds)
\$1,000.00	from	#22452450-5850	(Training/Education)
	into	#22452450-5950	(Refunds)
\$1257.16	from	#22452450-5910	(Other Expense)
	into	#22452450-5950	(Refunds)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

MRB/

cc: Auditor
Appropriation Adj. file
Prosecutor (file)

*BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO*

Resolution

Number 20-1424

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENT WITHIN MARY HAVEN FELONY
DELINQUENT CARE & CUSTODY GREENHOUSE FUND #2247

BE IT RESOLVED, to approve the following supplemental appropriation adjustment within The
Mary Haven Felony Delinquent Care & Custody Greenhouse project #2247:


\$1,000.00 from 22471240-5317 (Non Capital Purchase)
into 22471240-5210 (Material and Supplies)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Auditor
Appropriation Adj. file
Juvenile (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1425

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENT WITHIN THE AUDITOR'S COUNTY WIDE
FINANCIAL SOFTWARE FUND 4401

BE IT RESOLVED, to approve the following appropriation adjustment:

10,000.00 from # 44011120-5850 (Training)
 into # 44011120-5317 (Non Capital Purchase)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Auditor (file)
Appropriation Adj. file

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1426

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENT WITHIN THE WATER REVENUE FUND
NO. 5510

WHEREAS, the Water and Sewer department incurs costs for purchased services; and

WHEREAS, an appropriation adjustment is necessary to accommodate said costs; and

NOW THEREFORE BE IT RESOLVED, to approve the following appropriation adjustment:

\$50,000.00 from #55103209-5210 (Materials & Supplies)
into #55103200-5400 (Purchased Services)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann.
Upon call of the roll, the following vote resulted:


Mr. Young – yea

Mr. Grossmann – yea

Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

mbz

cc: Auditor ✓
Appropriation Adjustment File
Water/Sewer (File)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1427

Adopted Date October 06, 2020

APPROVE APPROPRIATION ADJUSTMENTS WITHIN HEALTH INSURANCE FUND
#6632

BE IT RESOLVED, to approve the following appropriation adjustments within Health Insurance Fund #6632 in order to process upcoming health claims:

\$126,000.00	from	#66320100-5933	(Health – Dental Claims)
\$ 20,000.00	from	#66320100-5934	(Health – Vision Claims)
\$ 3,000.00	from	#66320100-5850	(Health – Training/Education)
\$ 1,123.84	from	#66320100-5830	(Health – Workers Comp)
\$ 500.00	from	#66320100-5114	(Health – Overtime)
\$150,623.84	into	#66320100-5932	(Health – Medical/RX Claims)

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young – yea
Mr. Grossmann – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Auditor _____
Appropriation Adjustment file
OMB (file)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1428

Adopted Date October 06, 2020

APPROVE PARTIAL FEE WAIVER FOR FAITH BAPTIST CHURCH IN FRANKLIN TOWNSHIP

BE IT RESOLVED, to approve a waiver of the Building Permit Fee and the Zoning Permit Fee for Faith Baptist Church in Franklin Township for the purpose of constructing a new 8784 square foot church building located at 6355 Manchester Road in Franklin Township, Warren County, Ohio; and

BE IT FURTHER RESOLVED, that Faith Baptist Church be responsible for the Conditional Use and Variance Application Fees; and

BE IT FURTHER RESOLVED that Faith Baptist Church be responsible for the surcharge from the State of Ohio.

Mr. Young moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mrs. Jones – yea

Mr. Grossmann – yea

Mr. Young – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: Building/Zoning (file)
Faith Baptist Church (gayle@donwrightrealty.com)

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1429

Adopted Date October 06, 2020

APPROVE REQUISITIONS AND AUTHORIZE COUNTY ADMINISTRATOR TO SIGN DOCUMENTS RELATIVE THERETO

BE IT RESOLVED, to approve requisitions as listed in the attached document and authorize Tiffany Zindel, County Administrator, to sign on behalf of this Board of County Commissioners.

Mr. Young moved for adoption of the foregoing resolution being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mrs. Jones – yea
Mr. Grossmann – yea
Mr. Young – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

cc: Commissioners file

Department	Vendor Name	Description	Amount
CSV	STEPHANIE SAVELY	LYFT LEARNING SUBSCRIPTION AGREEMENT	\$ 2,100.00
FAC	NUCTECH US INC	NEW JAIL BODY SCANNER INSPECTION SYSTEM	\$ 95,500.00
HUM	WARREN CO CHILDREN SERVICES	PCSA TITLE XX TANF TRANSFER	\$ 125,000.00
HUM	WARREN CO CHILDREN SERVICES	PCSA TANF/PRC CONTRACT	\$ 31,250.00
ENG	WARREN CO CLERK OF COURTS	ENG. TEMP EASE -LYTLE FIVE PTS	\$ 5,632.00
ENG	WARREN CO CLERK OF COURTS	ENG. PERM-TEMP EASE LYTLE FIVE	\$ 21,340.00
ENG	WARREN CO CLERK OF COURTS	ENG. PERM-TEMP EASE LYTLE FIVE	\$ 11,335.00

10/6/2020 APPROVED:



 Tiffany Zindel, County Administrator

Resolution

Number 20-1430

Adopted Date October 6, 2020

APPROVE CEDAR BAY PUD STAGE 2 LOCATED IN TURTLECREEK TOWNSHIP SUBJECT TO CONDITIONS

WHEREAS, this Board met this 6th day of October 2020, in the Commissioners' Meeting Room and virtually to consider the PUD Stage 2 application for the Cedar Bay PUD located in Turtlecreek Township; and

WHEREAS, this Board has considered the recommendation from the Regional Planning Commission and all those present to speak in favor of or in opposition to said application; and

NOW THEREFORE BE IT RESOLVED, to approve the PUD Stage 2 for the Cedar Bay PUD located in Turtlecreek Township subject to the following conditions:

1. All plans and proposals of the applicant shall be made conditions of approval, unless modified by one of the following conditions.
2. Compliance with the Warren County Rural Zoning Code which is in effect at the time of issuance of any Zoning Permit so long as the underlining district provisions do not conflict with the intent of the PUD, the Warren County Subdivision Regulations, and the PUD Stage 1 approval conditions.
3. Compliance with the standards for wedding and event facilities outlined in section: 3.206.17 of the Warren County Rural Zoning Code.
4. The applicant submits a stormwater management plan approved by the Warren County Engineer's Office prior to PUD Stage 3.
5. The sites internal vehicular circulation receives approval by the Warren County Engineer's Office prior to the approval of PUD Stage 3. The Engineer's Office shall determine if a traffic impact analysis is necessary. If a traffic impact analysis is required, it shall be done prior to PUD Stage 3.
6. The proposed septic system design receives approval by the Warren County Health District/ Ohio Environmental Protections Agency (OEPA) prior to the approval of PUD Stage 3. If it is determined that the venue will generate more than 1,000 gallons of wastewater per day, the OEPA will have jurisdiction to review the septic system.
7. The duration of an event shall not exceed 12 hours per day and the hours of operation shall be limited to 7:00am to 1:00am, as stated in the PUD Standards that were submitted during PUD Stage 1.
8. Based on the parking, the event facility occupancy shall not exceed 150 persons at one time.
9. No temporary or permanent signs shall be placed within the road right of way and all signs shall comply with Article 3, Chapter 6 of the Warren County Rural Zoning Code.
10. The landscaping shall be installed within 24 months of the issuance of a zoning permit for the wedding/event center.


11. The applicant shall submit a PUD Stage 3 site plan that:
 - A. Identifies the width and nature of the driveways (Minimum of 24 feet –Section 3.311 Design Requirements).
 - B. Provides the number of ADA parking spaces in the smaller parking area (Minimum of 5 parking spaces per parking area—Section 3.3311 A) and increases the total parking spaces to 49 spaces.
 - C. States how each parking space will be identified (wheel stops, landscaping, or other means).
 - D. Labels the level of lighting intensity at the property line. Future lighting will need to be approved under a separate zoning certificate.
 - E. Illustrates the 50 feet buffer.
12. Install a 25-foot apron for all access points to Drake Road as illustrated in Figure 3.311-2 of the Warren County Rural Zoning Code.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Young. Upon call of the roll, the following vote resulted:

Mr. Grossmann – yea
Mr. Young – yea
Mrs. Jones – yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: RPC (file)
Administrative Hearing file
Applicant

Resolution

Number 20-1431

Adopted Date October 6, 2020

APPROVE THE REZONING APPLICATION OF SOLID ROCK MINISTRIES INTERNATIONAL TO AMEND THE MULTI-FAMILY RESIDENTIAL R-3 PLANNED UNIT DEVELOPMENT STANDARDS TO CHANGE USE FROM SENIOR LIVING TO A FOSTER HOME FOR BOYS (RESTORATION RANCH)

WHEREAS, this Board met this 6th day of October 2020, both virtually and in the Commissioners' Meeting Room, to consider the rezoning application (Case #2020-05) of Solid Rock Ministries International to consider a change of use in the Planned Unit Development Standards to change the use from senior living to a foster home for boys (Restoration Ranch) on their Multi-Family Residence "R3" Planned Unit Development zoned property consisting of 14.88 acres located at 903 Union Road in Turtlecreek Township (Parcel # 0701400011); and

WHEREAS, this Board has considered the recommendation of the Regional Planning Commission, the Rural Zoning Commission and all those present to speak in favor of or in opposition to said application; and


NOW THEREFORE BE IT RESOLVED, to approve the rezoning application (Case #2020-05) of Solid Rock Ministries International to approve a change of use in the Planned Unit Development Standards from senior living to a foster home for boys (Restoration Ranch) on their Multi-Family Residence "R3" Planned Unit Development zoned property.

Mrs. Jones moved for adoption of the foregoing resolution being seconded by Mr. Young. Upon call of the roll, the following vote resulted:

Mr. Grossmann - yea
Mr. Young - yea
Mrs. Jones - yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS



Tina Osborne, Clerk

cc: RPC
RZC
Rezoning file
Applicant

**BOARD OF COUNTY COMMISSIONERS
WARREN COUNTY, OHIO**

Resolution

Number 20-1432

Adopted Date October 6, 2020

**APPROVE MEDIATION SETTLEMENT AGREEMENT RELATIVE TO WARREN
COUNTY BOARD OF COMMISSIONERS VS. JAMES W PRICE**

WHEREAS, the Warren County Prosecutor's Office, on behalf of this Board and the County Engineer, filed an action with the Warren County Common Pleas Court to appropriate a temporary easement from James W. Price for the Lytle Five Points Road and Bunnell Hill Road Roundabout Project; and

WHEREAS, a settlement agreement was approved pending approval of this Board and the Warren County Assistant Prosecutor has recommended approval; and

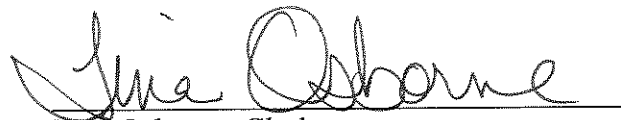
NOW THEREFORE BE IT RESOLVED, to approve the Mediation Settlement Agreement relative to Warren County Board of Commissions vs. James W Price; copy of said agreement attached hereto and made a part hereof.

Mrs. Jones moved for adoption of the foregoing resolution, being seconded by Mr. Grossmann. Upon call of the roll, the following vote resulted:

Mr. Young - yea
Mr. Grossmann - yea
Mrs. Jones - yea

Resolution adopted this 6th day of October 2020.

BOARD OF COUNTY COMMISSIONERS


Tina Osborne, Clerk

/tao

cc: Bruce McGary
Engineer (file)
Project file

COURT OF COMMON PLEAS
WARREN COUNTY, OHIO

Warren Co. Board of Commissioners : Case No. 20cv93170

Plaintiffs : Judge Tepe
vs. :
: Mediation Settlement Agreement
James W Price : October 1 2020
Defendants.

Plaintiff shall pay \$\$6,650.00 for the temporary easement, and accrued costs.

Other provisions

1. Easement to be prepared by plaintiff and executed by defendant
2. Plaintiff to install and maintain a Lip or dip at juncture of driveway to road pavement so as to decrease road surface water from draining onto ~~road~~ driveway.
3. Plaintiff, at its costs, to extend driveway culvert pipe N to existing culvert on BH Rd north of driveway.
4. Remove old large tree s/w corner of easement, as it likely will die

Subject to approval of County Commissioners

Recommended by

Plaintiff(s) and Counsel

Neil F. Murrin
Bruce A. M. Shantz

Defendants and Counsel

Paul Gray
Travis Brown
Donna W. Brown SR.

William H. Kaufman
William H. Kaufman ESQ. (0012339)
Mediator