

## **APPENDIX 1: ACRONYMS**



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AEP	Annual Exceedance Probability
AHPS	Advanced Hydrologic Prediction Service
AICP	American Institute of Certified Planners
BRIC	Building Resilient Infrastructure and Communities
CBBEL	Christopher B. Burke Engineering, LLC
CFM	Certified Floodplain Manager
COAD	Community Organizations Active in Disaster
CPRI	Calculated Priority Risk Index
CRS	Community Rating System
DFIRMs	Digital Flood Insurance Rate Maps
DHS	Department of Homeland Security (US)
DMA	Disaster Mitigation Act
EHS	Extremely Hazardous Substance
EMA	Emergency Management Agency
EPCRA	Emergency Planning and Community Right to Know Act
ERP	Emergency Response Plan
FEMA	Federal Emergency Management Agency
FIRM	Flood Insurance Rate Map
FMA	Flood Mitigation Act
FRP	Flood Response Plan
GIS	Geographic Information System
HAZUS-MH	Hazard US – Multi-Hazard
HMGP	Hazard Mitigation Grant Program
MHMP	Multi-Hazard Mitigation Plan
HMRT	Hazardous Materials Response Team
HUC	Hydrologic Unit Code

IDEM	Indiana Department of Environmental Management
IDHS	Indiana Department of Homeland Security
IDNR	Indiana Department of Natural Resources
IEAP	Incident and Emergency Action Plan
INAFSM	Indiana Association of Floodplain and Stormwater Managers
LEPC	Local Emergency Planning Commission
MHMP	Multi-Hazard Mitigation Plan
MPH	Miles Per Hour
MRCC	Midwestern Regional Climate Center
MSDS	Material Safety Data Sheet
NCDC	National Climatic Data Center
NFIP	National Flood Insurance Program
NLD	National Levee Database
NOAA	National Oceanic Atmospheric Administration
NRCS	National Resource Conservation Service
NWS	National Weather Service
OSHA	Occupational Safety and Health Administration
RFC	Repetitive Flood Claims
SARA	Superfund Amendment Reauthorization Act
SFHA	Special Flood Hazard Area
SRL	Severe Repetitive Loss
USDA	United States Department of Agriculture
US DHS	United States Department of Homeland Security
USGS	United States Geological Service
WCT	Wind Chill Temperature

**APPENDIX 2: PLANNING COMMITTEE MEETING AGENDAS  
AND SUMMARIES**



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# Ripley County Multi-Hazard Mitigation Plan Update

## Project Team Meeting

Ripley County Annex  
102 W. First North Street  
Versailles, IN 47042

Batesville Fire and EMS  
115 E. Catherine Street  
Batesville, IN 47006

September 27, 2023  
9 am to Noon

September 27, 2023  
1 pm to 4 pm

### AGENDA

1. Welcome and Introductions
2. Approach for the MHMP Update/Meeting Purpose
3. Hazard Risk Assessment:
  - a) Review Hazard Data
  - b) Discuss Vulnerability to Hazards
  - c) Determine Probability & Severity
4. Next Steps
5. Adjournment

## CALCULATED PRIORITY RISK INDEX

The CPRI evaluates each hazard based on its probability of occurrence, severity, prior warning time, and duration. Thus, the CPRI provides a means to assess a hazard relative to others for a community. To determine the CPRI, a value of 1 through 4 is assigned to the categories for probability, magnitude/severity, warning time, and duration of event.

$CPRI = Probability \times 0.45 + Magnitude/Severity \times 0.30 + Warning\ Time \times 0.15 + Duration\ of\ Event \times 0.10.$

### PROBABILITY

1. **Unlikely** – event is possible within the next 10 years; up to 1 in 10 years chance of occurring (10%); historic events is less than or equal to 10% likely per year
2. **Possible** – event is possible within the next 5 years; up to 1 in 5 years chance of occurring (20%); historic events is greater than 10% but less than or equal to 20% likely per year
3. **Likely** – event if probable within the next 3 years; up to 1 in 3 years chance of occurring (33%); historic events greater than 20% but less than or equal to 33% likely per year.
4. **Highly Likely** – event is probable within the calendar year; up to 1 in 1 year chance of occurring (100%); historic events greater than 33% likely per year.

### MAGNITUDE/SEVERITY

1. **Negligible** – few injuries OR shutdown of critical facilities and services for 24 hours or less OR less than 10% of property is severely damaged OR average response duration of less than 6 hours.
2. **Limited** – few injuries OR complete shutdown of critical facilities and services for more than 1 week OR more than 10% of property is severely damaged OR average response duration of less than 1 day.
3. **Significant** – multiple injuries OR complete shutdown of critical facilities and services for at least 2 weeks OR more than 25% of property is severely damaged OR average response duration of less than 1 week.
4. **Critical** – multiple deaths OR complete shutdown of critical facilities and services for 30+ days OR more than 50% of property is severely damaged OR average response duration time of less than 1 month.

#### WARNING TIME

1. >24 hrs.
2. 12-24 hrs.
3. 6-12 hrs.
4. < 6 hrs.

#### DURATION OF EVENT

1. < 6 hrs.
2. < 1 day
3. < 1 wk.
4. > 1 wk

### Assumptions for Estimating Potential Losses

90% mean assessed value for structures (County GIS) x # structures x replacement

25% of structures=100% damage    35% of structures=50% damage    40% of structures=25% damage

# Ripley County Multi-Hazard Mitigation Planning Team Meeting

Ripley County Annex  
102 W. First North Street  
Versailles, IN 47042

Batesville Fire and EMS  
115 E. Catherine Street  
Batesville, IN 47006

September 27, 2023  
9 am to Noon

September 27, 2023  
1 pm to 4 pm

## Meeting Summary

1. Welcome and Introductions
  - . EMA Director, Randy Miller and Deputy Director Todd Schutte, welcomed all those in attendance. Randy and Todd explained to those in attendance that two meetings were held to accommodate the large number of team members and team availability. Both the morning and afternoon sessions would have identical presentations to assure all the members were receiving the same base information. They also discussed the need to update the Multi-Hazard Mitigation Plan and the benefits of participating in the update process. Afterward, Randy and Todd introduced Manuela Johnson from Christopher Burke Engineering (Burke), who would be moderating the Risk and Hazard Analysis discussion. All the team members were asked to introduce themselves and highlight one great thing or one challenge they face in their community. A key theme for all the participants is the willingness for all the communities and agencies to work together to overcome obstacles and make the community a great place to live.
2. Approach for the MHMP Update/Meeting Purpose
  - . Manuela presented the process that would be utilized for the assessment of the hazards and risks for Ripley County. She also presented some basic demographic information about the county, commuting trends and the growth of the population over the past 10 years. Many more people commute out of Ripley County for work than commute into Ripley County. The goal of this meeting was to identify the hazards posing the greatest risks to the county and discuss how those risks have changed over time. The National Risk Index map tool was briefly introduced to participants to help guide some of the future discussions.
3. Hazard Risk Assessment:
  - a) Review Hazard Data – Hazard data for each specific hazard was presented for the past 5 years. This data included frequency and impacts as available from a variety of data sources. It was noted that precipitation and temperature trends are increasing, and the frequency of high-volume short duration rain events are more likely to occur and cause flash flooding issues.

- b) Discuss Vulnerability to Hazards – The team discussed how the hazard events have impacted the community in the past and the challenges they anticipate in the future.
- c) Determine Probability & Severity – Using the CPRI model, probability, severity, warning time and duration were assigned through the consensus of the team and the community specific representatives. The score was calculated and then an overall risk level was assigned using the score. All team members used the CPRI score guidance sheet to guide the determinations.

#### 4. Next Steps

- . The team discussed the next steps in the process. Team members were asked to prepare for the second meeting by making notes of mitigation actions that have taken place in their communities and to begin thinking about how they can address the risks for the future. At the next meeting the team will discuss opportunities for mitigating the hazards and risks. The team will examine the projects identified in the 2017 plan recognizing those which have been completed as well as look at innovative projects and community needs based on recent events. The team will also be looking for any photographs to include with the planning documents. The team will focus on mitigation needs for all the communities including the underserved populations.

#### 5. Adjournment

- Director Miller and Deputy Director Schutte thanked all of the participants and told team members the next meeting would be announced. The meetings would have a similar format with a morning and an afternoon session.

## **CALCULATED PRIORITY RISK INDEX**

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CPRI = Probability X 0.45 + Magnitude/Severity X 0.30 + Warning Time X 0.15 + Duration of Event X 0.10.

### **PROBABILITY**

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### **MAGNITUDE/SEVERITY**

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4. Critical – multiple deaths; complete shutdown of critical facilities and services for 30+ days; more than 50% of property is severely damaged; average response duration time of less than 1 month.

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### **Assumptions for Estimating Potential Losses**

90% mean assessed value for structures (County GIS) x # structures x replacement.

25% of structures=100% damage

35% of structures=50% damage

40% of structures=25% damage

# Ripley County Multi-Hazard Mitigation Planning Team Meeting

Ripley County Annex  
102 W. First North Street  
Versailles, IN 47042

Batesville Fire and EMS  
115 E. Catherine Street  
Batesville, IN 47006

January 24, 2024  
9 am to Noon

January 24, 2024  
1 pm to 4 pm

## Agenda

1. Welcome and Introductions
2. Review Approach for the Multi-Hazard Mitigation Plan (MHMP )  
Update/Meeting Purpose
3. Review Hazard Risk Assessment/CPRI
4. Review and Prioritize Proposed Mitigation Measures
5. Next Steps

## **CALCULATED PRIORITY RISK INDEX**

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### **PROBABILITY**

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### **MAGNITUDE/SEVERITY**

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January 24, 2024  
9 am to Noon

January 24, 2024  
1 pm to 4 pm

## Meeting Summary

### 1. Welcome and Introductions

EMA Director Randy Miller welcomed the team members at both sessions and thanked them for taking time from their busy schedules to work on the plan update. He also re-introduced Manuela Johnson, from Burke Engineering who would moderate the remainder of the meeting. All team members had been emailed and were presented with a copy of the previous plan's mitigation actions. Team members were asked to review the actions to identify any that had been completed and identify any new actions they would like to implement in the next 5 years. All the team members were asked to reintroduce themselves and their role to better understand the perspectives of the participants.

### 2. Review Approach for the Multi-Hazard Mitigation Plan (MHMP ) Update/Meeting Purpose

Manuela reviewed the overall approach of two team meetings in which we could address the hazard identification and risk ranking and the second meeting would examine previous mitigation actions identifying those which needed to be continued as well as new actions the communities wished to undertake to help make the community more resilient.

### 3. Review Hazard Risk Assessment/CPRI

A copy of the hazard ranking was reviewed. There were slight differences between the southern communities and the northern communities in the county. However, the team agreed that the differences were not significant and agreed the rankings were accurate.

### 4. Review and Prioritize Proposed Mitigation Measures

The first order of business was to review each of the previous plan's mitigation actions. The team determined the continued need for the actions which were not completed. The actions were modified through enhancement statements to make the action more specific and then assigned a priority to each action. Once all the actions were prioritized, the team identified new

actions which they wanted to accomplish under the new plan. Each of the new actions was also assigned a priority.

#### 5. Next Steps

Manuela explained that the mitigation actions would be incorporated into the plan. For each high priority an implementation strategy would be prepared to help guide the implementation leaders to a successful outcome. For medium and low priority actions implementation strategies would be developed once the actions were elevated. Manuela thanked the team members for their contributions and taking time to help assemble the new mitigation actions for Ripley County. Director Miller and Deputy Director Schutte thanked all the participants and reminded them to send in any other actions they may have forgotten to bring to the meeting. The meeting was then adjourned.



**APPENDIX 3: Public Participation and Involvement  
of Other Interested Parties**



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## **MEDIA RELEASE**

### **For Immediate Release**

**Media Release Date:** [REDACTED]

**Contact:** James Coffey, Ripley County EMA

### **Public Presentation of the Ripley County Multi-Hazard Mitigation Plan Update**

**VERSAILLES, IN** (Date of Release) – Ripley County, in cooperation with the City of Batesville, and the Towns of Holton, Milan, Napoleon, Osgood, Sunman, and Versailles have prepared an update to the Ripley County Multi-Hazard Mitigation Plan (MHMP) to address the risk and vulnerability of communities in the county which may be affected by known natural, technological, and political hazards.

The Disaster Mitigation Act of 2000 (DMA 2000) requires communities to update their MHMP every five years in order to be eligible for any future mitigation funding through the Indiana Department of Homeland Security and the Federal Emergency Management Agency. The intent of the MHMP is to plan for a disaster before it occurs in order to reduce the physical, social and economic impact of that disaster.

The draft Ripley County MHMP Update may be accessed at [web page address](#) at your convenience. Topics covered in the update include: an overview of the planning requirements; a summary of the risk assessment and vulnerability analysis; and proposed mitigation projects for prevention, property protection, natural resource protection, emergency services, structural control projects, and public information.

Comments will be accepted through Friday, [return date](#). Please submit comments to James Coffey, EMA Director at [EMA TX](#) or [EMA Director email](#)

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Flyer

Web posting

Social media clips

## **APPENDIX 4: CRITICAL INFRASTRUCTURE BY COMMUNITY**

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Map ID	Name	Category	Community
60	Francis	Airport	Holton
61	Lewis Airfield	Airport	Milan
62	Buell	Airport	Milan
63	Litzinger	Airport	Versailles

Map ID	Name	Category	Community
35	Batesville Vineyard Community Church	Church	Batesville
36	Voice Of the Nazarene Holton Trinity Tabernacle	Church	Holton
37	Batesville Area Ministerial Association Inc	Church	Batesville
38	St Johns Evangelical Lutheran Church	Church	Napoleon
39	Crossroads Community Wesleyan Church	Church	Holton
40	Bear Creek Baptist Church	Church	Versailles
41	Tanglewood Baptist Church	Church	Versailles
42	Osgood 1st Baptist Church	Church	Osgood
43	Cross Plains Baptist Church	Church	Cross Plains
44	St Paul Lutheran Church	Church	Milan
45	Christian International Family Worship Center Inc	Church	Versailles
46	St Paul Crossroads Lutheran Church	Church	Batesville
47	Church On the Rock Assembly Of God	Church	Batesville
48	Milan Wesleyan Church	Church	Milan
49	Union Flat Rock Baptist Church	Church	Osgood
50	Rodney Wesleyan Church	Church	Osgood
51	Cavehill Independent Church of God Inc	Church	Milan
52	Solid Rock Bible Fellowship Inc	Church	Napoleon
53	His Hands Extended Ministries and Outreach Foundation Inc	Church	Morris
54	Cross Plains United Methodist Church	Church	Versailles
55	St Pauls Lutheran Church	Church	Versailles
56	Adams Evangelical Lutheran Church	Church	Batesville
57	Dabney Baptist Church	Church	Holton
58	Saint Paul Lutheran Church	Church	Cross Plains

Map ID	Name	Category	Community
59	New Marion Baptist Church	Church	Holton

Map ID	Name	Category	Community
88	WRBI	Communications	Batesville
89	WRBI	Communications	Batesville
90	WXCH	Communications	Versailles
91	WXCH	Communications	Versailles
92	W248af	Communications	Batesville
93	WKRY	Communications	Versailles
31	Ripley County Courthouse	Courthouse	Versailles

Map ID	Name	Category	Community
32	Southeastern Indiana Ymca Learning Center	Daycare	Batesville
33	Jackson Street Kids Academy Daycare & Preschool	Daycare	Napoleon

Map ID	Name	Category	Community
128	Sunman Elementary School	Education	Sunman
129	Ripley-Ohio-Dearborn Center	Education	Sunman
130	South Ripley Elementary School	Education	Versailles
131	South Ripley Jr & Sr High Sch	Education	Versailles
132	Batesville Middle School	Education	Batesville
133	Milan High School	Education	Milan
134	Milan Middle School	Education	Milan
135	Milan Elementary School	Education	Milan
136	Saint Nicholas School	Education	Sunman
137	Jac-Cen-Del Jr-Sr High School	Education	Osgood
138	Jac-Cen-Del Elementary	Education	Osgood
139	Southeastern Career Center	Education	Versailles
140	Batesville Intermediate School	Education	Batesville
141	Cross Plains Christian School	Education	Cross Plains
142	Southeastern In First Steps	Education	Batesville
143	Saint Louis School	Education	Batesville
144	Ivy Tech State College	Education	Batesville
154	St Nicholas Catholic School	Education	Sunman

Map ID	Name	Category	Community
155	St Louis School	Education	Batesville
156	Lake Side	Education	Versailles

Map ID	Name	Category	Community
17	Milan Rescue 30	EMS	Milan
18	Otter Creek Township Holton Volunteer Fire Department	EMS	Holton
19	Milan Volunteer Fire Department	EMS	Milan
20	Ripley County Emergency Medical Services	EMS	Osgood
21	Morris Volunteer Fire Department	EMS	Batesville
22	Southern Ripley County Emergency Life Squad Rescue 69	EMS	Versailles
23	Tri - County Ambulance	EMS	Batesville
24	Sunman Rural Fire Department Incorporated	EMS	Sunman
25	Sunman Area Life Squad Incorporated	EMS	Sunman
26	Versailles Volunteer Fire Department	EMS	Versailles
27	Osgood Volunteer Fire Department	EMS	Osgood
28	Napoleon Volunteer Fire Company	EMS	Napoleon
29	Delaware Community Volunteer Fire Department Incorporated	EMS	Osgood
30	Batesville Volunteer Fire And Rescue Department And Emergency Medical Services 10	EMS	Batesville
34	American Red Cross Ripley County Chapter	EMS	Versailles
176	Batesville Urgent Care	EMS	Batesville

Map ID	Name	Category	Community
64	Ripley County Emergency Management	EOC	Versailles

Map ID	Name	Category	Community
113	Batesville Fire Dept	Fire Station	Batesville
114	Sunman Fire Dept	Fire Station	Sunman
115	Holton Fire Dept	Fire Station	Holton
116	Friendship Fire Dept	Fire Station	Cross Plains
117	Milan Fire Dept	Fire Station	Milan
118	Napoleon Volunteer Fire Dept	Fire Station	Napoleon
119	Osgood Volunteer Fire Dept	Fire Station	Osgood
120	Morris Volunteer Fire Dept	Fire Station	Morris

Map ID	Name	Category	Community
65	Batesville Mfg. Inc. - Hageman Plant	HazMat	Batesville
66	Batesville Mfg. Inc. - Hageman Plant	HazMat	Batesville
67	Batesville Mfg. Inc. - Hageman Plant	HazMat	Batesville
68	Batesville Mfg. Inc. - Hageman Plant	HazMat	Batesville
69	Batesville Mfg. Inc. - Hageman Plant	HazMat	Batesville
70	Batesville Mfg. Inc. - Hageman Plant	HazMat	Batesville
71	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
72	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
73	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
74	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
75	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
76	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
77	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
78	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
79	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
80	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
81	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
82	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
83	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
84	Batesville Mfg. Inc.-Doll Plant	HazMat	Batesville
85	Hill-Rom Inc. Ritter Plant	HazMat	Batesville
86	Hill-Rom Inc. Plating Plant	HazMat	Batesville
87	Hill-Rom Inc. Plating Plant	HazMat	Batesville

Map ID	Name	Category	Community
16	Margaret Mary Health	Hospital	Batesville

Map ID	Name	Category	Community
121	Versailles Police Dept	Law Enforcement	Versailles
122	Milan Town Police Dept	Law Enforcement	Milan
123	Batesville Police Dept	Law Enforcement	Batesville
124	Osgood Police Dept	Law Enforcement	Osgood
125	Ripley County Sheriff's Dept	Law Enforcement	Versailles
126	Indiana State Police Dept	Law Enforcement	Versailles
127	Sunman Police Dept	Law Enforcement	Sunman

Map ID	Name	Category	Community
9	Westvue Mhp	Mobile Home Park	Sunman
10	Gaslight Village Mobile Home	Mobile Home Park	Versailles
11	Not Available	Mobile Home Park	Sunman
12	Fairview Village	Mobile Home Park	Osgood
13	Kings Mobile Home Park	Mobile Home Park	Osgood
14	Milan Terrace Mobile Home Park	Mobile Home Park	Milan
15	Walnut Grove	Mobile Home Park	Osgood

Map ID	Name	Category	Community
2	Ripley Crossing	Nursing Home	Milan
3	Chateau Of Batesville	Nursing Home	Batesville
4	Silver Memories Health Care	Nursing Home	Versailles
5	Assisted Living at Romweber Flats	Nursing Home	Batesville
6	Waters Of Batesville, The	Nursing Home	Batesville
7	St Andrews Health Campus	Nursing Home	Batesville
8	Manderley Health Care Center	Nursing Home	Osgood

Map ID	Name	Category	Community
1	Batesville	Petroleum	Batesville

Map ID	Name	Category	Community
157	Unknown124895	Electrical Power	Batesville
158	Unknown124896	Electrical Power	Sunman
159	Unknown124902	Electrical Power	Osgood
160	Unknown124903	Electrical Power	Batesville
161	Unknown124904	Electrical Power	Batesville

Map ID	Name	Category	Community
162	Unknown124905	Electrical Power	Batesville
163	Unknown124906	Electrical Power	Sunman
164	Unknown125511	Electrical Power	Osgood
165	Unknown125512	Electrical Power	Versailles
166	Unknown125514	Electrical Power	Dillsboro
167	Tap137552	Electrical Power	Batesville
168	Tap137553	Electrical Power	Batesville
169	Tap137554	Electrical Power	Batesville
170	Tap137562	Electrical Power	Sunman
171	Tap137563	Electrical Power	Versailles
172	Tap137564	Electrical Power	Versailles
173	Batesville	Electrical Power	Batesville
174	Tap174247	Electrical Power	Holton
175	Unknown174248	Electrical Power	Holton

Map ID	Name	Category	Community
94	Batesville Methodist Church	Storm Shelter	Batesville
95	Batesville City Hall	Storm Shelter	Batesville
96	Benham United Methodist Church	Storm Shelter	Versailles
97	Delaware United Methodist Church	Storm Shelter	Versailles
98	Friendship Fire Dept	Storm Shelter	Friendship
99	Olean St. Paul Lutheran Church	Storm Shelter	Versailles
100	Holton Christian Church	Storm Shelter	Holton
101	United Methodist Church	Storm Shelter	Milan
102	First Baptist Church	Storm Shelter	Milan
103	St Anthony School Basement	Storm Shelter	Morris
104	St. Peters Church	Storm Shelter	Osgood
105	Shelby Christian Church	Storm Shelter	Versailles
106	Osgood United Methodist Church	Storm Shelter	Osgood
107	Osgood Christian Church	Storm Shelter	Osgood
108	Osgood First Baptist Church	Storm Shelter	Osgood
109	St. John's Catholic Church	Storm Shelter	Osgood
110	Sunman Town Hall	Storm Shelter	Sunman
111	Versailles Tyson Church	Storm Shelter	Versailles
112	Versailles Church Of Christ	Storm Shelter	Versailles

Map ID	Name	Category	Community	
145	Versailles Municipal WWTP Site	Waste Water Plant	Versailles	
146	Sunman Wastewater Tr. Plant	Waste Water Plant	Sunman	
147	Osgood WWTP	Waste Water Plant	Osgood	
148	Milan WWTP	Waste Water Plant	Milan	
149	Napoleon Municipal STP	Waste Water Plant	Napoleon	
150	Friendship Regional Sewer Dist.	Waste Water Plant	Friendship	
151	Holton Municipal WWTP	Waste Water Plant	Holton	

Map ID	Name	Category	Community	
152	Batesville Water & Gas Utility	Water Plant	Batesville	
153	Versailles Public Water Supply	Water Plant	Versailles	

Map ID	Dams	Community
D1	Ammerman Lake Dam	Ripley County
D2	Bischoff Reservoir Dam	Batesville
D3	Broughton Lake Dam	Ripley County
D4	Cornetts Paradise Lake	Ripley County
D5	Crosstie Lake Dam	Batesville
D6	Dale Gunter Dam	Ripley County
D7	Eugene Gunter Lake Dam	Ripley County
D8	Feller Reservoir Dam	Batesville
D9	Hahn Reservoir Dam	Batesville
D10	Hardwood Lake Dam	Ripley County
D11	Indian Lakes Preserve Dam	Ripley County
D12	Lake Ilene Dam	Ripley County
D13	Liberty Park Reservoir Dam	Batesville
D14	Milan Lake Dam	Milan
D15	Mollenkramer Reservoir Dam	Ripley County
D16	Neil Lake Dam	Ripley County
D17	Old Timbers Lake	Ripley County
D18	Oser Reservoir Dam	Batesville
D19	Robinson Swales Dam	Ripley County
D20	Timbers Subdivision Dam	Batesville
D21	Versailles Lake Dam	Ripley County
D22	Wood Lake Dam	Ripley County
D23	Bob's Creek (In-Channel) Dam	Ripley County
D24	Friendship Mill Dam	Ripley County
D25	Old Timbers Lodge Dam (Breached)	Ripley County

Map ID	Large Employers	Community
L1	Baylor Trucking	Milan
L2	Blue Flame LP Gas	Versailles
L3	Enhanced Telecommunications	Sunman
L4	Friendship Flea Market	Versailles
L5	Hazen Paper Co	Osgood
L6	Helena Agri-Enterprises	Versailles
L7	Indiana State Police	Versailles
L8	Jac-Cen-Del Elementary School	Osgood
L9	Jac-Cen-Del Jr/Sr High School	Osgood
L10	Jay C Food Stores	Milan
L11	Krueger-Maddux Greenhouses	Sunman
L12	Laudick Trucking Inc	Sunman
L13	Manderley Health Care Ctr	Osgood
L14	Mc Donald's	Versailles
L15	Milan Elementary School	Milan
L16	Milan Middle School	Milan
L17	Napoleon Hardwood	Napoleon
L18	Occasions Group	Sunman
L19	Ohio Rod Products Div	Versailles
L20	Ripley County Auditor	Versailles
L21	Ripley Crossing	Milan
L22	South Ripley High School	Versailles
L23	Southeastern Indiana REMC	Osgood
L24	Sunman Elementary School	Sunman
L25	United Parcel Svc	Versailles

**APPENDIX 5:**

**APPENDIX 6: USGS STREAM GAGE LOCATIONS,  
MAJOR WATERWAYS**

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Stream Gage Location	
Site Number	Site Name
None	No USGS or NWPS gauges

Major Waterways		
Bear Branch	Honey Creek	Rost Run
Bear Creek	Horse and Poplar Branch	Rush Branch
Benham Branch	Indian Kentucky Creek	Salem Branch
Big Creek	Jericho Creek	South Hogan Creek
Black Branch	Laughery Creek	Square Run
Black Creek	Leatherwood Creek	Sugar Creek
Bobs Creek	Little Creek	Taylor Branch
Boyd Branch	Little Graham Creek	Tub Creek
Brush Creek	Little Laughery Creek	Turkey Creek
Butternut Run	Little Otter Creek	Vernon Fork Muscatatuck River
Caesar Creek	Little Otter Fork	Vestal Branch
Campfire Creek	Little Raccoon Creek	Walnut Fork
Castators Creek	Little Turkey Creek	West Fork Indian Kentucky Creek
Cedar Creek	Long Branch	Western Creek
Clear Fork	Mahler Creek	Whitaker Creek
Droege Creek	Marble Creek	Wilson Fork
Falling Timber Branch	Mosquito Creek	
Falling Timber Creek	North Branch Ripley Creek	
Finch Branch	North Fork Graham Creek	
Flatrock Creek	North Hogan Creek	
Goose Creek	Otter Creek	
Graham Creek	Pipe Creek	
Grapevine Branch	Plum Creek	
Hayes Branch	Raccoon Creek	
Hickory Lick Creek	Ripley Creek	

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## **APPENDIX 7: NCDC HAZARD DATA**

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The Following Data Tables Indicate Those Events That Have Impacted Owen County And The Communities Within. Please Note That These Tables Only Provide The Information For Those Incidents Where Deaths, Injuries, Or Property And/Or Crop Damages Were Reported Through The NCDc For This Planning Period. For Complete Tables Listing All Incidents Impacting Owen County, Please Visit:

<Http://Www.Ncdc.Noaa.Gov/Stormevents/Choosedates.Jsp?Statefips=18%2CINDIANA>

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Ripley County	7/19/2019	Excessive Heat	0	0	\$0	\$0
Ripley County	7/20/2019	Excessive Heat	0	0	\$0	\$0
Ripley County	8/25/2023	Excessive Heat	0	0	\$0	\$0
<b>Totals: 3</b>			0	0	\$0	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Ripley County	1/30/2019	Extreme Cold/Wind Chill	0	0	\$0	\$0
Ripley County	12/22/2022	Extreme Cold/Wind Chill	0	0	\$0	\$0
<b>Totals: 2</b>			0	0	\$0	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Lookout	3/1/2017	Flash Flood	0	0	0	0
Delaware	3/1/2017	Flash Flood	0	0	0	0
New Marion	3/1/2017	Flash Flood	0	0	0	0
Versailles	3/1/2017	Flash Flood	0	0	0	0
Dabney	4/29/2017	Flash Flood	0	0	0	0
Versailles	6/15/2017	Flash Flood	0	0	0	0
Holton	6/15/2017	Flash Flood	0	0	0	0
Napoleon	6/5/2017	Flash Flood	0	0	0	0
Pierceville	6/15/2017	Flash Flood	0	0	0	0
Elrod	6/23/2017	Flash Flood	0	0	0	0
Rexville	6/23/2017	Flash Flood	0	0	\$30000	0
Holton	11/6/2017	Flash Flood	0	0	\$25000	0
Napoleon	11/6/2017	Flash Flood	0	0	\$5000	0
Versailles	2/24/2018	Flash Flood	0	0	\$1000	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Versailles	2/7/2019	Flash Flood	0	0	\$0	\$0
Penntown	6/16/2019	Flash Flood	0	0	\$0	\$0
Osgood	6/16/2019	Flash Flood	0	0	\$0	\$0
Friendship	6/16/2019	Flash Flood	0	0	\$0	\$0
Olean	5/23/2020	Flash Flood	0	0	\$0	\$0
Napoleon	6/12/2021	Flash Flood	0	0	\$0	\$0
New Marion	6/12/2021	Flash Flood	0	0	\$0	\$0
Batesville	6/19/2021	Flash Flood	0	0	\$5000	\$0
Penntown	12/6/2021	Flash Flood	0	0	\$1000	\$0
Batesville	5/7/2024	Flash Flood	0	0	\$0	\$0
Penntown	5/7/2024	Flash Flood	0	0	\$0	\$0
<b>Totals: 25</b>			<b>0</b>	<b>0</b>	<b>\$67000</b>	<b>\$0</b>

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Osgood	3/1/2017	Flood	0	0	0	0
Versailles	4/28/2017	Flood	0	0	0	0
Versailles	5/28/2017	Flood	0	0	0	0
Napoleon	10/8/2017	Flood	0	0	0	0
Napoleon	10/8/2017	Flood	0	0	\$1000	0
Napoleon	10/8/2017	Flood	0	0	\$1000	0
Batesville	2/24/2018	Flood	0	0	\$0	\$0
Versailles	6/12/2018	Flood	0	0	\$0	\$0
Friendship	9/8/2018	Flood	0	0	\$0	\$0
Friendship	9/9/2018	Flood	0	0	\$1000	\$0
Old Milan	1/23/2019	Flood	0	0	\$0	\$0
Osgood	2/6/2019	Flood	0	0	\$0	\$0
Penntown	5/3/2019	Flood	0	0	\$0	\$0
Napoleon	6/15/2019	Flood	0	0	\$0	\$0
Holton	6/15/2019	Flood	0	0	\$0	\$0
Friendship	6/16/2019	Flood	0	0	\$0	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Holton	8/3/2020	Flood	0	0	\$0	\$0
Holton	8/3/2020	Flood	0	0	\$0	\$0
Old Milan	5/17/2021	Flood	0	0	\$0	\$0
Lookout	5/17/2021	Flood	0	0	\$0	\$0
Napoleon	6/12/2021	Flood	0	0	\$0	\$0
Elrod	6/29/2021	Flood	0	0	\$0	\$0
Versailles	6/29/2021	Flood	0	0	\$0	\$0
Batesville	7/16/2021	Flood	0	0	\$0	\$0
Osgood	8/30/2021	Flood	0	0	\$2000	\$0
Holton	8/30/2021	Flood	0	0	\$0	\$0
Sunman	12/6/2021	Flood	0	0	\$0	\$0
Morris	12/6/2021	Flood	0	0	\$0	\$0
Penntown	12/6/2021	Flood	0	0	\$1000	\$0
Pierceville	2/17/2022	Flood	0	0	\$0	\$0
Friendship	2/17/2022	Flood	0	0	\$0	\$0
Napoleon	3/3/2023	Flood	0	0	\$0	\$0
Friendship	3/25/2023	Flood	0	0	\$5000	\$0
Morris	7/23/2023	Flood	0	0	\$0	\$0
Friendship	4/2/2024	Flood	0	0	\$0	\$0
Lookout	5/8/2024	Flood	0	0	\$10000	\$0
Old Milan	7/9/2024	Flood	0	0	\$0	\$0
Napoleon	7/9/2024	Flood	0	0	\$0	\$0
Sunman	7/9/2024	Flood	0	0	\$0	\$0
<b>Totals: 39</b>			0	0	\$21000	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Sunman	2/24/2017	Hail	0	0	0	0
Lookout	3/1/2017	Hail	0	0	0	0
Old Milan	3/1/2017	Hail	0	0	0	0
Napoleon	4/28/2017	Hail	0	0	0	0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Napoleon	4/28/2017	Hail	0	0	\$2000	0
Lookout	7/20/2018	Hail	0	0	\$0	\$0
Rexville	7/20/2018	Hail	0	0	\$0	\$0
Holton	7/20/2018	Hail	0	0	\$0	\$0
Milan	5/7/2021	Hail	0	0	\$0	\$0
Sunman	6/25/2023	Hail	0	0	\$0	\$0
Sunman	7/2/2023	Hail	0	0	\$0	\$0
<b>Totals: 11</b>			0	0	\$2000	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Ripley County	11/27/2019	High Wind	0	0	\$0	\$0
Ripley County	3/25/2021	High Wind	0	0	\$10000	\$0
Ripley County	3/30/2022	High Wind	0	0	\$0	\$0
Ripley County	9/27/2024	High Wind	0	0	0	0
<b>Totals: 4</b>			0	0	\$10000	\$0

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	Property Damage	Crop Damage
Ripley County	11/14/2018	Ice Storm	0	0	\$0	\$0
<b>Totals: 1</b>			0	0	\$0	\$0

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	Property Damage	Crop Damage
Ripley County	2/24/2019	Strong Wind	0	0	\$3000	\$0
Ripley County	11/15/2020	Strong Wind	0	0	\$3000	\$0
<b>Totals: 2</b>			0	0	\$26000	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Penntown	1/10/2017	Thunderstorm Wind	0	0	\$1000	\$0
Olean	1/10/2017	Thunderstorm Wind	0	0	\$3000	\$0
Holton	3/1/2017	Thunderstorm Wind	0	0	\$5000	\$0
Cross Plains	3/1/2017	Thunderstorm Wind	0	0	\$5000	\$0
Osgood	4/28/2017	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	5/19/2017	Thunderstorm Wind	0	0	0	\$0
Olean	5/19/2017	Thunderstorm Wind	0	0	\$1000	\$0
Cross Plains	5/20/2017	Thunderstorm Wind	0	0	\$1000	\$0
Spades	2/21/2018	Thunderstorm Wind	0	0	\$2000	\$0
Versailles	5/31/2018	Thunderstorm Wind	0	0	10000	\$0
Holton	5/31/2018	Thunderstorm Wind	0	0	\$3000	\$0
Cross Plains	5/31/2018	Thunderstorm Wind	0	0	\$3000	\$0
Napoleon	5/31/2018	Thunderstorm Wind	0	0	\$5000	\$0
Osgood	5/31/2018	Thunderstorm Wind	0	0	\$3000	\$0
Batesville	7/26/2018	Thunderstorm Wind	0	0	\$4000	\$0
Morris	8/25/2018	Thunderstorm Wind	0	0	\$1000	\$0
Old Milan	8/25/2018	Thunderstorm Wind	0	0	\$4000	\$0
Elrod	8/25/2018	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	3/14/2019	Thunderstorm Wind	0	0	\$1000	\$0
Penntown	3/14/2019	Thunderstorm Wind	0	0	\$1000	\$0
Benham	4/25/2019	Thunderstorm Wind	0	0	\$2000	\$0
Osgood	5/16/2019	Thunderstorm Wind	0	0	\$3000	\$0
Penntown	6/15/2019	Thunderstorm Wind	0	0	\$4000	\$0
Dabney	4/8/2020	Thunderstorm Wind	0	0	\$5000	\$0
Versailles	4/8/2020	Thunderstorm Wind	0	0	\$10000	\$0
Versailles	4/8/2020	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	4/8/2020	Thunderstorm Wind	0	0	\$30000	\$0
Friendship	4/8/2020	Thunderstorm Wind	0	0	\$15000	\$0
Penntown	7/11/2020	Thunderstorm Wind	0	0	\$4000	\$0
Napoleon	6/12/2021	Thunderstorm Wind	0	0	\$5000	\$0
Osgood	6/12/2021	Thunderstorm Wind	0	0	\$500	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Lookout	6/18/2021	Thunderstorm Wind	0	0	\$10000	\$0
Versailles	6/18/2021	Thunderstorm Wind	0	0	\$50000	\$0
Batesville	6/18/2021	Thunderstorm Wind	0	0	\$10000	\$0
Osgood	6/29/2021	Thunderstorm Wind	0	0	\$2000	\$0
Holton	7/16/2021	Thunderstorm Wind	0	0	\$1000	\$0
Sunman	7/16/2021	Thunderstorm Wind	0	0	\$1000	\$0
Cross Plains	8/27/2021	Thunderstorm Wind	0	0	\$20000	\$0
Milan	12/11/2021	Thunderstorm Wind	0	0	\$3000	\$0
Penntown	12/11/2021	Thunderstorm Wind	0	0	\$8000	\$0
Osgood	3/7/2022	Thunderstorm Wind	0	0	\$30000	\$0
Napoleon	4/13/2022	Thunderstorm Wind	0	0	\$5000	\$0
Napoleon	4/13/2022	Thunderstorm Wind	0	0	\$4000	\$0
Morris	4/13/2022	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	5/20/2022	Thunderstorm Wind	0	0	\$1000	\$0
Napoleon	5/21/2022	Thunderstorm Wind	0	0	\$8000	\$0
Penntown	5/21/2022	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	5/25/2022	Thunderstorm Wind	0	0	\$1000	\$0
Holton	5/25/2022	Thunderstorm Wind	0	0	\$1000	\$0
Batesville	6/6/2022	Thunderstorm Wind	0	0	\$1000	\$0
Batesville	6/6/2022	Thunderstorm Wind	0	0	\$1000	\$0
Batesville	6/13/2022	Thunderstorm Wind	0	0	\$3000	\$0
Batesville	6/13/2022	Thunderstorm Wind	0	0	\$3000	\$0
Batesville	6/13/2022	Thunderstorm Wind	0	0	\$10000	\$0
Pierceville	6/13/2022	Thunderstorm Wind	0	0	\$3000	\$0
Spades	6/13/2022	Thunderstorm Wind	0	0	\$6000	\$0
Napoleon	7/6/2022	Thunderstorm Wind	0	0	\$4000	\$0
New Marion	7/6/2022	Thunderstorm Wind	0	0	\$10000	\$0
Osgood	7/6/2022	Thunderstorm Wind	0	0	\$3000	\$0
Dabney	9/21/2022	Thunderstorm Wind	0	0	\$5000	\$0
Versailles	9/21/2022	Thunderstorm Wind	0	0	\$3000	\$0
Batesville	2/27/2023	Thunderstorm Wind	0	0	\$15000	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Delaware	3/31/2023	Thunderstorm Wind	0	0	\$1000	\$0
Cold Spgs	3/31/2023	Thunderstorm Wind	0	0	\$0	\$0
Milan	3/31/2023	Thunderstorm Wind	0	0	\$5000	\$0
Versailles	3/31/2023	Thunderstorm Wind	0	0	\$5000	\$0
Benham	5/13/2023	Thunderstorm Wind	0	0	\$5000	\$0
Versailles	6/29/2023	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	6/29/2023	Thunderstorm Wind	0	0	\$1000	\$0
Dabney	6/30/2023	Thunderstorm Wind	0	0	\$1000	\$0
Elrod	6/30/2023	Thunderstorm Wind	0	0	\$1000	\$0
Old Milan	7/2/2023	Thunderstorm Wind	0	0	\$4000	\$0
Sunman	7/2/2023	Thunderstorm Wind	0	0	\$200	\$0
Pierceville	7/17/2023	Thunderstorm Wind	0	0	\$1000	\$0
Penntown	7/23/2023	Thunderstorm Wind	0	0	\$5000	\$0
Spades	7/23/2023	Thunderstorm Wind	0	0	\$4000	\$0
Sunman	7/23/2023	Thunderstorm Wind	0	0	\$1000	\$0
Milan	7/23/2023	Thunderstorm Wind	0	0	\$25000	\$0
Lookout	7/29/2023	Thunderstorm Wind	0	0	\$1000	\$0
Versailles	4/2/2024	Thunderstorm Wind	0	0	\$5000	\$0
Versailles	4/2/2024	Thunderstorm Wind	0	0	\$0	\$0
Versailles	4/2/2024	Thunderstorm Wind	0	0	\$10000	\$0
Batesville	5/7/2024	Thunderstorm Wind	0	0	\$1000	\$0
Napoleon	5/7/2024	Thunderstorm Wind	0	0	\$1000	\$0
Osgood	5/22/2024	Thunderstorm Wind	0	0	\$1000	\$0
Dabney	5/26/2024	Thunderstorm Wind	0	0	\$4000	\$0
Versailles	5/26/2024	Thunderstorm Wind	0	0	\$200	\$0
Napoleon	5/26/2024	Thunderstorm Wind	0	0	\$4000	\$0
<b>Totals: 88</b>			0	0	\$430600	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Sunman	10/7/2017	Tornado	0	0	\$65000	0
Versailles	4/8/2020	Tornado	0	0	\$50000	\$0
Cross Plains	4/8/2020	Tornado	0	0	\$20000	\$0
Elrod	4/8/2020	Tornado	0	0	\$50000	\$0
Lookout	6/18/2021	Tornado	0	0	\$165000	\$0
Osgood	3/7/2022	Tornado	0	0	\$100000	\$0
<b>Totals: 6</b>			0	0	\$320000	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Ripley County	3/20/2018	Winter Storm	0	0	\$0	\$0
Ripley County	1/12/2019	Winter Storm	0	0	\$0	\$0
Ripley County	1/19/2019	Winter Storm	0	0	\$0	\$0
Ripley County	2/8/2021	Winter Storm	0	0	\$0	\$0
Ripley County	2/15/2021	Winter Storm	0	0	\$0	\$0
Ripley County	12/22/2022	Winter Storm	0	0	\$0	\$0
Ripley County	1/24/2023	Winter Storm	0	0	\$0	\$0
<b>Totals: 7</b>			0	0	\$0	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Ripley County	1/8/2017	Winter Weather	0	0	\$0	\$0
Ripley County	1/29/2017	Winter Weather	0	0	\$0	\$0
Ripley County	2/8/2017	Winter Weather	0	0	\$0	\$0
Ripley County	3/13/2017	Winter Weather	0	0	\$0	\$0
Ripley County	12/9/2017	Winter Weather	0	0	\$0	\$0
Ripley County	12/24/2017	Winter Weather	0	0	\$0	\$0
Ripley County	12/29/2017	Winter Weather	0	0	\$0	\$0
Ripley County	1/12/2018	Winter Weather	0	0	\$0	\$0
Ripley County	1/15/2018	Winter Weather	0	0	\$0	\$0
Ripley County	2/6/2018	Winter Weather	0	0	\$0	\$0

Location	Date	Type	Death	Injury	Property Damage	Crop Damage
Ripley County	2/17/2018	Winter Weather	0	0	\$0	\$0
Ripley County	3/7/2018	Winter Weather	0	0	\$0	\$0
Ripley County	3/24/2018	Winter Weather	0	0	\$0	\$0
Ripley County	4/1/2018	Winter Weather	0	0	\$0	\$0
Ripley County	2/1/2019	Winter Weather	0	0	\$0	\$0
Ripley County	2/20/2019	Winter Weather	0	0	\$0	\$0
Ripley County	3/3/2019	Winter Weather	0	0	\$0	\$0
Ripley County	3/7/2019	Winter Weather	0	0	\$0	\$0
Ripley County	11/11/2019	Winter Weather	0	0	\$0	\$0
Ripley County	12/15/2019	Winter Weather	0	0	\$0	\$0
Ripley County	2/6/2020	Winter Weather	0	0	\$0	\$0
Ripley County	2/8/2020	Winter Weather	0	0	\$0	\$0
Ripley County	2/12/2020	Winter Weather	0	0	\$0	\$0
Ripley County	2/26/2020	Winter Weather	0	0	\$0	\$0
Ripley County	2/28/2020	Winter Weather	0	0	\$0	\$0
Ripley County	11/30/2020	Winter Weather	0	0	\$0	\$0
Ripley County	12/1/2020	Winter Weather	0	0	\$0	\$0
Ripley County	12/16/2020	Winter Weather	0	0	\$0	\$0
Ripley County	12/24/2020	Winter Weather	0	0	\$0	\$0
Ripley County	1/17/2021	Winter Weather	0	0	\$0	\$0
Ripley County	1/27/2021	Winter Weather	0	0	\$0	\$0
Ripley County	1/30/2021	Winter Weather	0	0	\$0	\$0
Ripley County	2/10/2021	Winter Weather	0	0	\$0	\$0
Ripley County	2/17/2021	Winter Weather	0	0	\$0	\$0
Ripley County	4/20/2021	Winter Weather	0	0	\$0	\$0
Ripley County	1/28/2022	Winter Weather	0	0	\$0	\$0
Ripley County	2/2/2022	Winter Weather	0	0	\$0	\$0
Ripley County	3/11/2022	Winter Weather	0	0	\$0	\$0
Ripley County	2/16/2024	Winter Weather	0	0	\$0	\$0
<b>Totals: 39</b>			0	0	\$0	\$0

## **APPENDIX 8: POTENTIAL FUNDING SOURCES**

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## **Assistance to Firefighters Grant**

The Assistance to Firefighters Grant (AFG) is a competitive grant opportunity for local fire departments and Emergency Medical Service (EMS) organizations that are not affiliated with a hospital.

**Previous Activities Funded:** The AFG funds activities such as purchasing firefighting equipment, personal protection equipment, training, firefighting vehicles, and firefighter/first responder safety projects.

<https://www.fema.gov/grants/preparedness/firefighters>

## **Challenge 21, Floodplain**

Challenge 21, the Army Corps' flood hazard mitigation and riverine ecosystem restoration initiative, will focus on more sustainable approaches. Through its focus on non-structural alternatives to flood protection, it will, where appropriate, move families and businesses out of harm's way and strive to return the floodplains of rivers and creeks to a condition where they can naturally moderate floods as well as provide other benefits to communities and the environment. Watershed by watershed, Challenge 21 builds on existing programs and initiates and expands partnerships with other Federal agencies and non-Federal national and local entities. Key Federal partners include the FEMA, the Department of Agriculture, the Department of Interior and the EPA.

**Previous Activities Funded:** A project might include the relocation of threatened homes or businesses, conservation or restoration of wetlands and natural floodwater storage areas and planning for responses and solutions to potential future floods

[http://www.americanrivers.org/site/PageServer?pagename=AMR\\_content\\_d156](http://www.americanrivers.org/site/PageServer?pagename=AMR_content_d156)

## **Clean Water State Revolving Loan Fund**

Clean Water State Revolving Loan Fund (CWSRLF) programs operate much like environmental infrastructure banks that are capitalized with federal and state contributions. CWSRLF monies are loaned to communities and loan repayments are recycled back into the program to fund additional water quality protection projects. The revolving nature of these programs provides for an ongoing funding source that will last far into the future.

**Previous Activities Funded:** The CWSRF funds a broad range of projects—from wastewater systems and nonpoint source pollution control to estuary management and a range of projects focusing on water quality. Funding is typically directed to state-identified high priority projects based on several factors, including: public health protection; condition of impacted waters; and communities' regulatory compliance status.

<https://www.epa.gov/cwsrf>

## **Community Development Block Grants**

Communities receiving Community Development Block Grants (CDBG) funds from the State may use the funds for many kinds of community development activities including, but not limited to property acquisition, public services, planning activities, and community development activities.

**Previous Activities Funded:** Funds have been used in Indiana for purposes such as Public facility improvements, flood and drainage facilities, Fire stations and equipment, and various community related activities and facilities.

<https://www.in.gov/ocra/cdbg.htm>

### **Community Facilities Grants and Loans**

The Rural Development (RD) of the Department of Agriculture offers loans and grants to create jobs and support economic development and essential services such as housing; health care; first responder services and equipment; and water, electric and communications infrastructure.

**Previous Activities Funded:** Priority for funding will be given to those projects that will enhance public safety such as fire, police, rescue, and ambulance services, and projects for health care facilities. The fire service can use the funding for fire stations, fire trucks and rescue vehicles.

<https://www.rd.usda.gov/programs-services/community-facilities-direct-loan-grant-program>

### **Community Rating System**

The National Flood Insurance Program's (NFIP) Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community actions meeting the three goals of the CRS: (1) reduce flood losses; (2) facilitate accurate insurance rating; and (3) promote the awareness of flood insurance.

**Previous Activities Funded:** While the CRS does not provide direct funding, reductions in insurance premiums can be significant for participants.

<https://www.fema.gov/flood-insurance/rules-legislation/community-rating-system>

### **Conservation Reserve Program**

The Conservation Reserve Program (CRP) is a voluntary program for agricultural landowners. Through CRP, landowners can receive annual rental payments and cost-share assistance to establish long-term, resource conserving covers on eligible farmland to reduce soil erosion, and potential flood loss and damage.

**Previous Activities Funded:** Filter Strip Establishment, Wetland Restoration, Riparian Buffer Establishment

<https://www.fsa.usda.gov/programs-and-services/conservation-programs/conservation-reserve-program/>

### **Department of Interior Rural Fire Assistance Program**

The Department of Interior (DOI) Rural Fire Assistance Program is aimed at enhancing the fire protection capabilities of rural fire districts in the wildland urban interface. The rural fire department must serve a community with a population of 10,000 or less and must have a statewide agreement with the state forester who maintains cooperative agreements with the rural fire departments or volunteer fire departments or a cooperative fire agreement with an agency in the DOI.

**Previous Activities Funded:** The program assists with training, equipment purchase, and prevention activities, on a 90/10 cost-share basis.

<http://www.nifc.gov/rfa/steps.html>

### **Disposal of Federal Surplus Real Property for Parks, Recreation, and Historic Monuments**

Surplus real property may be conveyed for public park and recreation use at discounts up to 100 percent of fair market value and for historic purposes without monetary consideration. Property conveyed for park and recreation use or historic purposes must be used for these purposes in perpetuity or be reverted to Federal ownership.

**Previous Activities Funded:** Property, either real or land, varies with time with items available for public sale, lease or extended use in perpetuity.

[http://www.federalgrantswire.com/disposal\\_of\\_federal\\_surplus\\_real\\_property\\_for\\_parks\\_recreation\\_and\\_historic\\_monuments.html](http://www.federalgrantswire.com/disposal_of_federal_surplus_real_property_for_parks_recreation_and_historic_monuments.html)

### **Emergency Conservation Program**

The United States Department of Agriculture (USDA) Farm Service Agency's (FSA) Emergency Conservation Program (ECP) provides emergency funding and technical assistance for farmers and ranchers to rehabilitate farmland damaged by natural disasters and for carrying out emergency water conservation measures in periods of severe drought.

**Previous Activities Funded:** This assistance is in the form of a direct payment to affected eligible landowners and is administered through the Farm Service Agency.

<http://disaster.fsa.usda.gov/ecp.htm>

### **Environmental Quality Incentive Program**

The Environmental Quality Incentive Program (EQIP) offers contracts with a minimum term that ends one year after the implementation of the last scheduled practices and a maximum term of ten years. These contracts provide incentive payments and cost-shares to implement conservation practices. Persons who are engaged in livestock or agricultural production on eligible land may participate in the EQIP program. EQIP activities are carried out according to an environmental quality incentives program plan of operations developed in conjunction with the producer that identifies the appropriate conservation practice or practices to address the resource concerns. The practices are subject to Natural Resources Conservation Service (NRCS) technical standards adapted for local conditions. The local conservation district approves the plan.

**Previous Activities Funded:** Cost sharing may pay up to 75 percent of the costs of certain conservation practices, such as grassed waterways, filter strips, manure management facilities, capping abandoned wells, and other practices important to improving and maintaining the health of natural resources in the area.

<http://www.nrcs.usda.gov/programs/eqip/>

### **Emergency Rehabilitation of Flood Control Works**

Assistance does not extend to major improvements of flood control or federally authorized coastal protection structures, nor to reimbursement of individuals or communities for funds expended in repair or rehabilitation efforts.

**Previous Activities Funded:** Authorized assistance includes emergency repair or rehabilitation of flood control works damaged by flood, and restoration of federally authorized coastal protection structures damaged by extraordinary wind, wave, or water action.

[http://www.federalgrantswire.com/emergency\\_rehabilitation\\_of\\_flood\\_control\\_works\\_or\\_federally\\_authorized\\_coastal\\_protection\\_works.html](http://www.federalgrantswire.com/emergency_rehabilitation_of_flood_control_works_or_federally_authorized_coastal_protection_works.html)

### **Emergency Watershed Protection Program**

The Emergency Watershed Protection Program (EWPP) work is not limited to any one set of prescribed measures. A case by case investigation of the needed work is made by NRCS.

**Previous Activities Funded:** EWPP work can include: removing debris from stream channels, road culverts, and bridges; reshaping and protecting eroded banks; correcting damaged drainage facilities; repairing levees and structures; reseeding damaged areas; and purchasing floodplain easements.

<http://www.nrcs.usda.gov/programs/ewp/questions.html>

### **Farmland Protection Program**

The Farmland Protection Program provides funds to help purchase development rights to keep productive farmland in agricultural uses. To qualify, farmland must: be part of a pending offer from a State, tribe, or local farmland protection program; be privately owned; have a conservation plan; be large enough to sustain agricultural production; be accessible to markets for what the land produces; have adequate infrastructure and agricultural support services; and have surrounding parcels of land that can support long-term agricultural production. Depending on funding availability, proposals must be submitted by the government entities to the appropriate NRCS State Office during the application window.

**Previous Activities Funded:** Working through existing programs, USDA joins with State, tribal, or local governments to acquire conservation easements or other interests from landowners. USDA provides up to 50 percent of the fair market easement value.

<http://www.info.usda.gov/nrcs/fpcp/fpp.htm>

### **Fire Prevention & Safety Grant**

The purpose of these grants is to enhance the safety of the public and firefighters with respect to fire and fire-related hazards. The primary goal of the Assistance to Firefighters Grant (AFG) Program's Fire Prevention and Safety Grant (FP&S) is to reach high-risk target groups in order to mitigate the high incidences of death and injuries. Additionally for Fiscal Year (FY) 2005 Congress amended the authorization to include funding for Firefighter Safety Research and Development. This guidance provides details for applying for either of these financial assistance instruments. There is no cost share requirement for the FY 2005 Fire Prevention and Safety grants.

**Previous Activities Funded:** Grants have been awarded to assist with the costs associated with training, equipment, vehicles for fire departments and firefighter safety research.

<https://www.fema.gov/grants/preparedness/firefighters/safety-awards>

### **Flood Mitigation Assistance Program**

The Flood Mitigation Assistance (FMA) program provides funding to assist States and communities in implementing measures to reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the National Flood Insurance Program (NFIP). There are three types of grants available under FMA: Planning, Project, and Technical Assistance Grants. FMA Planning Grants are available to States and communities to prepare Flood Mitigation Plans. NFIP-participating communities with approved Flood Mitigation Plans can apply for FMA Project Grants. FMA Project Grants are available to States and NFIP participating communities to implement measures to reduce flood losses.

**Previous Activities Funded:** A few examples of eligible FMA projects include: the elevation, acquisition, and relocation of NFIP-insured structures.

<http://www.fema.gov/fima/mitgrant.shtm>

### **Hazards Mitigation Grant Program**

Authorized under Section 404 of the Stafford Act, the Hazard Mitigation Grant Program (HMGP) provides grants to States and local governments to implement long-term hazard mitigation measures after a major disaster declaration. The purpose of the program is to reduce the loss of life and property due to natural disasters and to enable mitigation measures to be implemented during the immediate recovery from a disaster declaration. The purpose of the program is to reduce the loss of life and property due to natural disasters and to enable mitigation measures to be implemented during the immediate recovery from a disaster.

**Previous Activities Funded:** Acquisition of hazard-prone property; stormwater management, elevation of flood-prone structures, and infrastructure protection measures are all considered eligible projects and have been funded in the past.

<http://www.fema.gov/fima/mitgrant.shtm>

### **Hazardous Materials Emergency Preparedness Grant**

The Hazardous Materials Emergency Preparedness (HMEP) grant program is intended to provide financial and technical assistance as well as national direction and guidance to enhance State, Territorial, Tribal, and local hazardous materials emergency planning and training. The HMEP Grant Program distributes fees collected from shippers and carriers of hazardous materials to emergency responders for hazmat training and to Local Emergency Planning Committees (LEPCs) for hazmat planning.

**Previous Activities Funded:** These grants have been used for developing, improving, and implementing emergency plans, and training public sector employees to respond safely and efficiently to accidents and incidents involving the transportation of hazardous materials.

<http://hazmat.dot.gov/training/state/hmep/hmep.htm>

### **Indiana Family and Social Services Administration**

The Family and Social Services Administration provides services to help keep children healthy and safe and help families to self-sufficient.

**Previous Activities Funded:** The agency may provide programs related to heating/cooling of residential buildings, temporary housing, and other important contacts in the event of an emergency or disaster.

<http://www.in.gov/fssa/families/>

### **Indiana Resource Conservation & Development Districts**

The purpose of the Resource Conservation and Development (RC&D) program is to accelerate the conservation, development and utilization of natural resources, improve the general level of economic activity, and to enhance the environment and standard of living in designated RC&D areas. It improves the capability of State, tribal and local units of government and local nonprofit organizations in rural areas to plan, develop and carry out programs for resource conservation and development. The program also establishes or improves coordination systems in rural areas.

**Previous Activities Funded:** Forestry projects, wetland development, Community training projects, and other projects related to community and natural resource enhancement and protection.

<http://www.in.nrcs.usda.gov/programs/RC&D/RC&Dhomepage.html>

### **Indiana Rural Development Council**

The Indiana Rural Development Council (IRDC) is a partnership of local, state, federal, profit and not-for-profit stakeholders that serve Indiana communities. The IRDC's purpose is to coordinate efforts of citizens and governments to meet the economic and social needs of rural Indiana.

**Previous Activities Funded:** These funds will be utilized to address a variety of rural issues in the areas of economic/community development, planning, leadership, infrastructure, health, telecommunication/education, workforce development, agriculture, and rural regional development initiatives.

<http://www.in.gov/irdc/index.html>

### **Indiana State Revolving Loan Fund**

The Indiana State Revolving Fund (SRF) Loan Program provides low-interest loans to Indiana communities for projects that improve wastewater and drinking water infrastructure. The Indiana Department of Environmental Management (IDEM) and the Indiana State Budget Agency work together to administer this program and to protect public health and the environment. Recently, SRF has implemented a program to fund nonpoint source projects, as well.

**Previous Activities Funded:** Activities include Treatment plant improvements and upgrades, Riparian Buffers and Conservation Easements, and Wetland protection and restoration measures.

<http://www.in.gov/idem/srf/factsht0704.doc>

### **Indiana Transportation Enhancements Program**

Transportation enhancements (TE) are transportation-related activities that are designed to strengthen the cultural, aesthetic, and environmental aspects of the Nation's inter-modal transportation system.

**Previous Activities Funded:** The transportation enhancements program provides for the implementation of a variety of non-traditional projects, with examples ranging from Acquisition of scenic easements, landscaping and scenic beautification, and to the mitigation of water pollution from highway runoff all of which could be utilized as measures to control or mitigate flood damage.

[http://www.enhancements.org/statecontacts\\_TE.asp](http://www.enhancements.org/statecontacts_TE.asp)

### **Land and Water Conservation Fund**

The Land and Water Conservation Fund (LWCF) program provides matching grants to States and local governments for the acquisition and development of public outdoor recreation areas and facilities. The program is intended to create and maintain a nationwide legacy of high quality recreation areas and facilities and to stimulate non-federal investments in the protection and maintenance of recreation resources across the United States.

**Previous Activities Funded:** Funds have been widely utilized for land acquisition, open space/greenspace development, which can include wetland development, critical seeding areas and other projects that can reduce the impacts of flooding.

<http://www.nps.gov/lwcf/>

### **Low Interest Loan Incentives**

Loan amounts up to \$700,000 with interest rates of 2.5 percent to 3.0 percent are available to cities, towns and counties. The loan pays for the cost of remediation and/or demolition at identified brownfield sites.

**Previous Activities Funded:** Eligible activities include: soil and groundwater cleanup, demolition activities, asbestos/lead paint abatement, and additional investigations.

<http://www.idfabrownfields.com/assistance.aspx#LILI>

### **National Flood Insurance Program**

The National Flood Insurance Program (NFIP) is a Federal program enabling property owners in participating communities to purchase insurance protection against losses from flooding. This insurance is designed to provide an insurance alternative to disaster assistance to meet the escalating costs of repairing damage to buildings and their contents caused by floods. Participation in the NFIP is based on an agreement between local communities and the Federal Government that states if a community will adopt and enforce a floodplain management ordinance

to reduce future flood risks to new construction in Special Flood Hazard Areas, the Federal Government will make flood insurance available within the community as a financial protection against flood losses.

**Previous Activities Funded:** Flood insurance is made available within the community as a financial protection against flood losses.

<http://www.fema.gov/nfip/intnfip.shtm>

### **Office for Domestic Preparedness Terrorism Formula Grants**

The Office for Domestic Preparedness (ODP) provides funding through the states awards to enhance the capacity of emergency responders to prevent, deter, or respond to terrorist incidents involving weapons of mass destruction. The funding is awarded to a point of contact in each state and then distributed within the state.

**Previous Activities Funded:** Activities have included training, technical assistance, equipment, planning and exercises related to domestic terrorism events.

<http://www.ojp.gov/state.htm>

### **Petroleum Remediation Grant Incentive**

Grant amounts up to \$250,000 per applicant and per funding round are available to cities, towns and counties. The grant pays for the cost of petroleum remediation at identified brownfield sites.

**Previous Activities Funded:** Eligible activities include: underground storage tank removal, Corrective Action Plan preparation, IDEM approved remediation and monitoring.

<http://www.idfabrownfields.com/assistance.aspx#PRGI>

<http://www.fema.gov/fima/mitgrant.shtm>

### **Public Assistance Grant Program**

FEMA's Public Assistance (PA) Grant Program allows State and Local governments and Non-Profit Organizations to respond to disasters, to recover from their impact and to mitigate impact from future disasters. The PA Program provides the basis for consistent training and credentialing of staff who administer the program; more accessible and understandable guidance and policy for participating in the grant program; improved customer service through a more efficient grant delivery process, applicant-centered management, and better information exchange; and continuing performance evaluations and program improvements.

**Previous Activities Funded:** Debris removal from public roads and rights-of-way, Emergency protective measures including search and rescue, warning of hazards, and demolition of unsafe structures, Utility Distribution Systems, such as water treatment and delivery systems; and sewage collection and treatment facilities and public parks.

<http://www.fema.gov/rrr/pa/>

## **Purdue Cooperative Extension Service**

Purdue Cooperative Extension Service provides valuable educational materials and training programs to assist in the event of a disaster or emergency

Steve Cain  
Disaster Communication Specialist  
615 W. State Street  
Purdue University  
West Lafayette, IN 47907  
765-494-8410

**Previous Activities Funded:** Activities are educational in nature and not generally monetary offerings.

<http://www.ces.purdue.edu/eden/index.html>

## **Severe Repetitive Loss**

This purpose of this FEMA program is to reduce or eliminate claims under the NFIP. This program applies to residential properties covered under an NFIP flood insurance policy and has at least 4 NFIP claim payments over \$5,000 each and a cumulative amount exceeds \$20,000 OR for which 2 separate claims payments have been made with the cumulative amount of the building portion exceeding the market value of the building.

**Previous Activities Funded:** Acquisition and demolition or relocation of at risk structures and conversion of the land to open space; elevation of existing structures to at least the Base Flood Elevation (BFE); minor physical localized flood reduction projects; and dry floodproofing for historic properties only.

<http://www.fema.gov/government/grant/srl/index.shtm>

## **Staffing for Adequate Fire and Emergency Response Grants**

The purpose of the Staffing for Adequate Fire and Emergency Response (SAFER) grants is to award grants directly to volunteer, combination, and career fire departments to help the departments increase their cadre of firefighters. Ultimately, the goal is for SAFER grantees to enhance their ability to attain 24-hour staffing and thus assuring their communities have adequate protection from fire and fire-related hazards.

**Previous Activities Funded:** The SAFER grants have two activities that will help grantees attain this goal: 1) hiring of firefighters and 2) recruitment and retention of volunteer firefighters.

<http://www.firegrantsupport.com/safer/>

## **Volunteer Fire Assistance Program**

The purpose of the Volunteer Fire Assistance (VFA) Program, formerly known as the Rural Community Fire Protection (RCFP) Program, is to provide Federal financial, technical, and other assistance to State foresters to train, and equip fire departments in rural areas and rural communities to prevent and suppress fires. A rural community is defined as having 10,000 or less

population. This 10,000-population limit for participation in the VFA Program facilitates distribution of available VFA funding to the most needy fire departments. The funding must be matched on a 50-50% basis by non-federal dollars or in-kind.

**Previous Activities Funded:** Purchase of Self-Contained Breathing Apparatus, Protective clothing, installation of dry hydrants, and training for volunteer fire fighters.

[www.fs.fed.us/fire/planning/vfa](http://www.fs.fed.us/fire/planning/vfa)

### **Weatherization Assistance Program**

Indiana's Weatherization Assistance Program provides residential energy conservation services to the low-income citizens of Indiana. Funding comes from federal sources and is allocated to Community Action Agencies (CAA) to provide services in each of Indiana's 92 counties. The CAAs use their own crews or private contractors to provide comprehensive energy conservation services.

**Previous Activities Funded:** A thorough evaluation of the structures, including the safe and efficient operation of the furnace and water heater, is included in the treatment of each home.

<http://www.in.gov/fssa/families/housing/wap.html>

### **Wetland Reserve Program**

The Wetlands Reserve Program (WRP) is a voluntary program offering landowners the opportunity to protect, restore, and enhance wetlands on their property. The NRCS goal is to achieve the greatest wetland functions and values, along with optimum wildlife habitat, on every acre enrolled in the program. This program offers landowners an opportunity to establish long-term conservation and wildlife practices and protection.

**Previous Activities Funded:** The USDA Natural Resources Conservation Service (NRCS) provides technical and financial support to help landowners with their wetland restoration efforts.

<http://www.nrcs.usda.gov/programs/wrp/>

### **Wildlife Habitat Incentive Program**

The Wildlife Habitat Incentives Program (WHIP) is a voluntary program for people who want to develop and improve wildlife habitat primarily on private land. Through WHIP USDA's Natural Resources Conservation Service provides both technical assistance and up to 75 percent cost-share assistance to establish and improve fish and wildlife habitat. WHIP agreements between NRCS and the participant generally last from 5 to 10 years from the date the agreement is signed.

**Previous Activities Funded:** Development of areas primarily targeted for wildlife habitat also serve as beneficial areas for flood mitigation activities such as wetland construction/restoration, native grass plantings, and filter area establishment.

<http://www.nrcs.usda.gov/programs/whip/>

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## **APPENDIX 9: CRS CHECKLIST**

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CRS 10-Step Planning Process	Max. Points	Est. Points	Comments
<b>1. Organize and Prepare the Plan</b>	<b>15</b>	<b>13</b>	
Involvement of office responsible for community planning	4	4	Table 1-1 lists Planning Committee name, title, and department/agency represented
Planning committee of department staff	9	9	Table 1-1 lists Planning Committee name, title, and department/agency represented
Process formally created by the community's governing board	2	0	
<b>2. Involve the Public</b>	<b>120</b>	<b>60</b>	
Planning process conducted through a planning committee	60	30	Appendix 2 contains Planning Committee meeting agendas and summaries; Planning Committee reviewed draft MHMP, assisted with public review, and assisted with local adoption
Public meetings held at the beginning of the planning process	15	0	
Public meeting held on the draft plan	15	15	Full draft presented to the public; draft plan made available for public review on webpage, EMA office, Planning Office
Other public information activities to encourage input	30	15	Plan posted to website, press release; outreach flyer
<b>3. Coordinate with Other Agencies</b>	<b>35</b>	<b>25</b>	
Review of existing studies and plans ( <b>required</b> )	5	5	Conducted a Community Capability Assessment to better understand existing mitigation programs, policies, and projects
Coordinating with communities and other agencies	30	20	Appendix 3 includes the invitation sent to the surrounding County EMA Directors; IDNR, FEMA and IDHS involved in planning process
<b>4. Assess the Hazard</b>	<b>35</b>	<b>35</b>	
Map of known flood hazards	5	5	Exhibit illustrates FIRM floodplains as well as the location of critical facilities.
Description of known flood hazards	5	5	Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains
Discussion of past floods	5	5	Section provides an overview of the most recent floods of note as identified by the Planning Committee, local media sources, and NCDC data; Table shows Repetitive Loss numbers; Table shows flood insurance claims
Plan includes assessment of less frequent floods	10	10	Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains
Plan includes assessment of areas likely to flood	5	5	Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains
Describes other natural hazards (required DMA)	5	5	Section 3 includes information related to Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials
<b>5. Assess the Problem</b>	<b>52</b>	<b>34</b>	
Summary of hazard and impact on community ( <b>required</b> )	2	2	Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Impact on life, safety, health, procedures for warning and evacuation	5	5	Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Impact on public health including health hazards to floodwater/mold	5		

<b>CRS 10-Step Planning Process</b>	<b>Max. Points</b>	<b>Est. Points</b>	<b>Comments</b>
Impact on critical facilities and infrastructure	5	5	Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Impact on community's economy and tax base	5	0	
Number and types of buildings subject to the hazards	5	5	Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Review of all flood insurance claims	5	5	Table list flood insurance claims
Natural and beneficial function of natural areas	5	5	Section 3 discusses the natural and beneficial function of floodplains for flood storage
Development, redevelopment, and population trends	7	7	Section2 discusses population and demographics
<b>6. Set Goals (required)</b>	<b>2</b>	<b>2</b>	Section 4.1 list goal for MHMP - to reduce social, physical, and economic losses from hazards
<b>7. Review Possible Activities</b>	<b>35</b>	<b>35</b>	
Preventive activities	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Preventive
Floodplain management regulatory/current and future conditions	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Property Protection
Property protection activities	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Property Protection
Natural resource protection activities	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Natural Resource Protection
Emergency services activities	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Emergency Services
Structural projects	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Structural Projects
Public information activities	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Public Information
<b>8. Draft Action Plan</b>	<b>60</b>	<b>60</b>	
Recommendations for activities 2 of 6 categories from #7 (prioritized)	10	0	
Recommendations for activities 3 of 6 categories from #7 (prioritized)	20	0	
Recommendations for activities 4 of 6 categories from #7 (prioritized)	30	0	
Recommendations for activities 5 of 6 categories from #7s (prioritized)	45	45	Table 4-1 lists and prioritizes proposed Mitigation Practices for all 6 possible activities (Prevention, Property Protection, Natural Resource Protection, Emergency Services, Structural Projects, and Public Information); Section 5.0 includes an Implementation Plan for High Priority Mitigation Practices
Post-disaster mitigation policies and procedures	10	10	Section 6.1 recommends the EMA Director reassemble the Planning Committee following a significant hazard incident to review the effectiveness of existing Mitigation Practices and make recommendations for improvement
Action items for mitigation other hazards	5	5	Table 4-1 includes Mitigation Practices for Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials Section 5.0 includes an Implementation Plan for High Priority Mitigation Practices
<b>9. Adopt the Plan</b>	<b>2</b>	<b>2</b>	
<b>10. Implement, Evaluate and Revise</b>	<b>26</b>	<b>26</b>	
Procedures to monitor and recommend revisions ( <b>required</b> )	2	2	Section 6.1 includes a process to monitor, evaluate, and update the MHMP; effort to be led by EMA Director
Plan evaluated by same (or equally qualified) planning committee	24	24	Section 6.1 acknowledges that the successful implementation of the Mitigation Practices identified in this MHMP will require cooperation and participation of entire Planning Committee.
<b>TOTAL</b>	<b>382</b>	<b>292</b>	



## **APPENDIX 10: COMMUNITY CAPABILITY ASSESSMENT**

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Plans	Comprehensive Plan	Local Emergency Plan	Economic Development	Watershed Plan
Ripley County	Ripley County Comprehensive Plan (2002)	<b>County MHMP</b> – 2017 and 2024 serve as a multi-jurisdictional approach to emergency planning.	Ripley County Economic Development Corporation  Gary Norman, Executive Director	Salt-Pipe Creek WMP
City of Batesville	Comprehensive Plan 1997 (Section 150)			Whitewater River WMP
Town of Holton				Hogan Creek WMP
Town of Milan				South Laughery Creek WMP
Town of Napoleon				North Laughery Creek WMP
Town of Osgood				
Town of Sunman				Muscatatuck (Central) WMP
Town of Versailles				

Ordinances	Zoning Ordinance	Subdivision Control Ordinance	Stormwater Ordinance	Burning Ordinance	Water Conservation Ordinance
Ripley County	Ord. passed 2006	Ord. passed 6-5-1991			
City of Batesville	Section 151	Section 152			
Town of Holton					
Town of Milan	Ord. 10-8-01-2 passed 2001				
Town of Napoleon					
Town of Osgood					
Town of Sunman	1995 Code Section 154	1995 Code Section 153			
Town of Versailles		Chapter 30, 4/10/2003	Chapter 34 Article IV, 9/12/2017	Chapter 14, Article 2, 2000	

Programs	NFIP	CRS	Tree City	Storm Ready	Mutual Aid Agreements
Ripley County	180436A	No	No	Yes	Yes Fire, Police, EMS
City of Batesville	180456A	No	No	No	
Town of Holton	180079A	No	No	No	
Town of Milan		No	No	No	
Town of Napoleon		No	No	No	
Town of Osgood		No	No	No	
Town of Sunman		No	No	No	
Town of Versailles		No	No	No	

Studies/Maps	FIRMs	Evacuation Routes	Vulnerable Populations	At-Risk Structures	River Basin Partnership
Ripley County	18137C0014C, 0020C, 0036C, 0038C, 0039C, 0100C, 0104C, 0105C, 0110C, 0115C, 0120C, 0130C, 0135C, 0140C, 0145C, 0155C, 0180C, 0185C, 0190C, 0195C, 0205C, 0210C, 0215C, 0220C, 0230C, 0240C, 0245C, 0300C, 0325C, 0350C	Hazardous Materials			No
City of Batesville	18137C0036C, 0038C, 0039C				No
Town of Holton	18137C0185C, 0205C				No
Town of Milan	18137C0145C				No
Town of Napoleon	18137C0104C				No
Town of Osgood	18137C0120C, 0210C				No
Town of Sunman	18137C0155C				No
Town of Versailles	18137C0210C, 0220C, 0230C, 0240C				No

Staffing	Building/ Planning	GIS	Engineer / Surveyor	Street/ Highway	Floodplain Admin
Ripley County	Tad Brinson/Derick Welton	Contracted with WTH Engineering	Jeff French, Surveyor	Jason Edwards	Tad Brinson
City of Batesville	Mike Wells			Tim Macyauski	Not Listed
Town of Holton	Tad Brinson/Derick Welton			Not Listed	Tad Brinson
Town of Milan				Not Listed	
Town of Napoleon				Not Listed	
Town of Osgood				Steve Wilhoit	
Town of Sunman				Not Listed	
Town of Versailles				Randall Miller	

## **APPENDIX 11: IMPLEMENTATION CHECKLIST**

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Mitigation Practice	Hazard Addressed	Status	Priority	Status
<p><b>Emergency Preparedness and Warning</b></p> <ol style="list-style-type: none"> <li>1. Create lists of available medical personnel and their associated skills in handling hazardous situations; implement more training as necessary. (on-going)</li> <li>2. Implement and improve communication systems for all Emergency Services within the County including improve cellular phone access within the county (on-going)</li> <li>3. Install new sirens in communities where they do not currently exist.</li> <li>4. Purchase weather radios for all public buildings and mobile homes through joint funding.</li> <li>5. Identify and procure a single or multiple designated storage facility(ies) for logistical staging.</li> <li>6. Recruit, train and equip a CERT Team for the County.</li> <li>7. Explore alternative transportation for people in remote locations for medical care and evacuations.</li> </ol>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p><b>Proposed Enhancements –</b></p> <ol style="list-style-type: none"> <li>1. Create lists of available medical personnel and their associated skills in handling hazardous situations; implement more training as necessary.</li> <li>2. Encourage installation of signal boosters for both cell and emergency communication signals. There has been some improvement over the years, but there are many "dead" areas due to terrain. This also hampers public information via EAS and social media.</li> <li>3. Identify the need for and install outdoor warning devices with a focus on large outdoor venues/gatherings.</li> <li>4. Continue to identify areas of need and distribute weather radios. Encourage use of the Hyperreach system with Nixle as a backup. Include identifying maintenance costs and funding sources.</li> <li>5. Secure a place to store equipment and material</li> <li>6. Continue to recruit and train professionals.</li> <li>7. Assemble information on current transportation available within the county, including how to access services, cost, scheduling, etc. Share information using a variety of methods. (Catch-a-ride program, hospital pickups for medical appointments, etc.)</li> </ol>	<p>High #1, #4</p> <p>Medium #3, #5</p> <p>Low #2, #6, #7</p>	
<p><b>Public Education and Outreach</b></p> <ol style="list-style-type: none"> <li>1. Identify warming centers throughout Ripley County.</li> <li>2. Inform the community through informational brochures/ magnets, as well as public safety television commercials on the risks of potential hazard.</li> <li>3. Encourage the public to sign up for the mass emergency notification system, Nixle.</li> <li>4. Continue with implementation of the "Turn Around Don't Drown" campaign.</li> <li>5. Continue providing outreach materials at health department vaccine clinics for families and jail inmates.</li> <li>6. Explore ways to provide swimming lessons and life jackets for those swimming at local parks. Distribute information about lessons and the importance of personal floatation devices when recreating on or near local lakes and rivers.</li> </ol>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p><b>Proposed Enhancements –</b></p> <ol style="list-style-type: none"> <li>1. Keep an updated inventory of warming center locations. Conduct public awareness campaign advising people where warming centers are located and what services they may expect at the centers.</li> <li>2. Continue to keep community informed through informational brochures/ magnets, as well as radio commercials and social media posts on the risks of potential hazards. Hand out materials at county fairs and other events.</li> <li>3. Continue to encourage the public to sign up for the mass emergency notification system.</li> <li>4. Post on social media, Identify locations for health department. Have high water signs on hand and possibly replace them with Turn Around Don't Drown signs.</li> <li>5. Continue providing outreach materials at health department vaccine clinics for families and jail inmates.</li> <li>6. Explore ways to provide swimming lessons and life jackets for those swimming at local parks. Distribute information about lessons and the importance of personal floatation devices when recreating on or near local lakes and rivers.</li> </ol>	<p>High #1, #3</p> <p>Medium #2, #4, #5, #6</p>	

Mitigation Practice	Hazard Addressed	Status	Priority	Status
<p><b>Safer Rooms and Community Shelters</b></p> <p>1. Explore window glazing and hardening at all county schools.</p> <p>2. Develop infrastructure for emergency warnings</p>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p><b>Proposed Enhancements –</b></p> <p>1. Explore ways to protect students and faculty</p> <p>2. Identify potential shelter locations and update the agreement for Red Cross shelters.</p>	<p>High #1</p> <p>Medium #2</p>	
<p><b>Energy Security – Power Backup</b></p> <p>1. Ensure that police stations, fire stations, and schools have emergency generators</p>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p><b>Proposed Enhancements –</b></p> <p>1. During the renovation of the courthouse encourage the installation of electrical generator connections, at a minimum. Encourage schools to install emergency power backup generators. (St. Louis School and 2 of 4 Batesville's schools still need units).</p>	<p>High #1</p>	
<p><b>Floodplain Management</b></p> <p>1. Stream gage along Laughery Creek (Friendship).</p> <p>2. Continued compliance with the NFIP by restricting new development from the special flood hazard area.</p> <p>3. Enhance the relationship with the Railroad, get good contact information to assure 2-way communications on crossing closures, repairs, etc.</p> <p>4. Survey Floodplain areas to identify changes in streams. Consider relocation or changing structures. FEH study, solutions, physical actions such as possible reinforcement.</p> <p>5. Identify and acquire flood prone properties as community interest and funding is available.</p>	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<p><b>Proposed Enhancements –</b></p> <p>1. Work with the USGS to pursue the acquisition of a stream gage on Laughery Creek to warn people in and near Friendship The current gage is not connected to USGS or NOAA. It is used by local FD, EMA and County Commissioners. If the cell signal is poor cannot get readings. There are thousands of people attending shoots in Friendship that are adversely impacted when it rains. Flooding is MAJOR.</p> <p>2. Edit local maps with railroad crossing ID# which is needed when reporting or discussing crossings. Issues are caused due to no notice closures.</p> <p>3. Continue restricting new development in floodplain</p> <p>4. Conduct more outreach for flood insurance and be aware of floodplains and weather events.</p>	<p>High #1, #2, #3, #4</p> <p>Low #5</p>	
<p><b>Management of High Hazard Dams</b></p> <p>1. Update and exercise the IEAP regularly (City of Batesville)</p>	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<p><b>Proposed Enhancements –</b></p> <p>1. Encourage the City of Batesville to continue to update and exercise the IEAP.</p>	<p>High #1</p>	

Mitigation Practice	Hazard Addressed	Status	Priority	Status
<b>Hazardous Materials</b> 1. Update Commodity Flow Study	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Proposed Enhancements</b> 1. Continue to update the Commodity Flow Study	High #1	
<b>Land Subsidence/FEH</b> 1. Determine the structural stability of Highway 62 and make necessary improvements (County & Friendship).	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<b>Proposed Enhancements –</b> 1. South of Versailles State Park Laughery Creek causes road slippage and scour at the bridge at Friendship. Monitor continued slippage of SR 62. Research potential long term solution for slippage.	High #1	
<b>Cybersecurity</b> 1. Develop and maintain a plan to address cybersecurity issues.	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Proposed Enhancements –</b> 1. The ability to develop and maintain a plan to prevent cybersecurity.	High #1	
<b>Emergency Response and Recovery</b> 1. Continue assisting in connecting underserved people with services before, during, and after hazardous events.	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Proposed Enhancements –</b> 1. Work to assist all residents during, before, and after all events.	Medium #1	

Mitigation Practice	Hazard Addressed	Status	Priority	Status
<p><b>Land Use Planning and Zoning</b></p> <ol style="list-style-type: none"> <li>1. Review state and local building codes and revise as necessary, especially regarding tie-downs for mobile homes.</li> <li>2. Update the Continuity of Government plans.</li> </ol>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Drought</li> <li><input checked="" type="checkbox"/> Earthquake</li> <li><input checked="" type="checkbox"/> Extreme Temperature</li> <li><input checked="" type="checkbox"/> Fire</li> <li><input checked="" type="checkbox"/> Flood</li> <li><input checked="" type="checkbox"/> Hail/Thunder/Wind</li> <li><input checked="" type="checkbox"/> Landslide/Subsidence</li> <li><input checked="" type="checkbox"/> Tornado</li> <li><input checked="" type="checkbox"/> Winter Storm/Ice</li> <li><input checked="" type="checkbox"/> Dam Failure</li> <li><input checked="" type="checkbox"/> HazMat Incident</li> </ul>	<p><b>Proposed Enhancements –</b></p> <ol style="list-style-type: none"> <li>1. Create new codes as needed.</li> <li>2. Continue the government plans already in place.</li> </ol>	<p>Low #1</p> <p>Medium #2</p>	

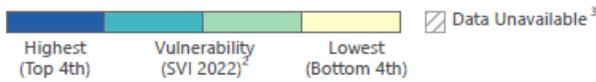
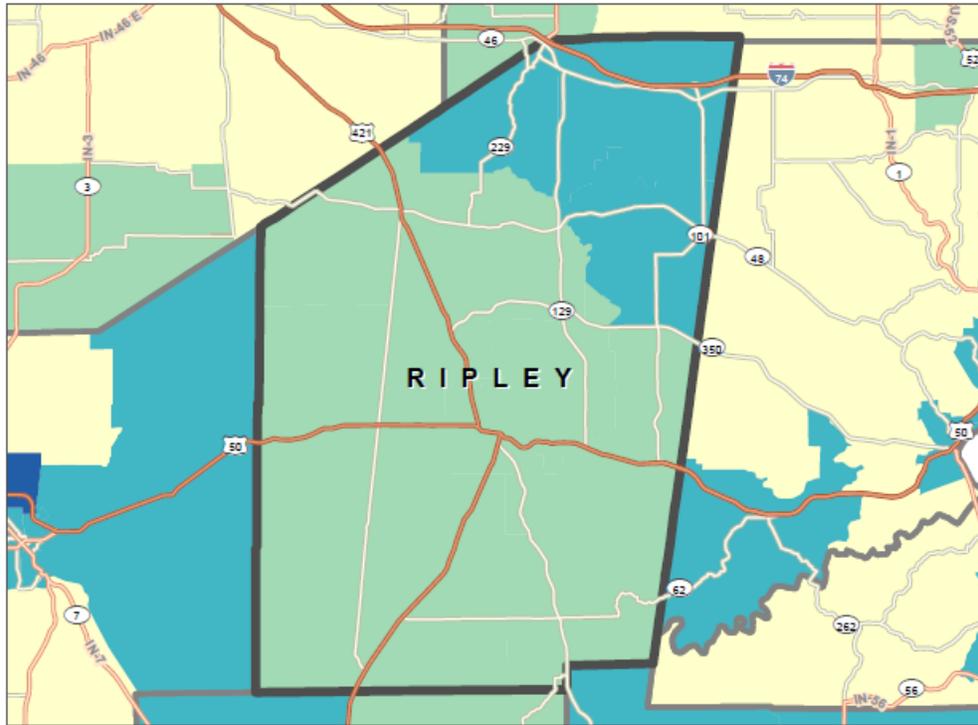
**APPENDIX 11: DISADVANTAGED AND UNDERSERVED  
POPULATIONS**

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# CDC/ATSDR Social Vulnerability Index 2022

RIPLEY COUNTY, INDIANA

## Overall Social Vulnerability<sup>1</sup>



**Social vulnerability** refers to a community's capacity to prepare for and respond to the stress of hazardous events ranging from natural disasters, such as tornadoes or disease outbreaks, to human-caused threats, such as toxic chemical spills. The **CDC/ATSDR Social Vulnerability Index (CDC/ATSDR SVI 2022)<sup>4</sup> County Map** depicts the social vulnerability of communities, at census tract level, within a specified

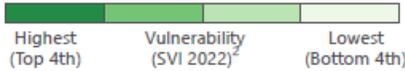
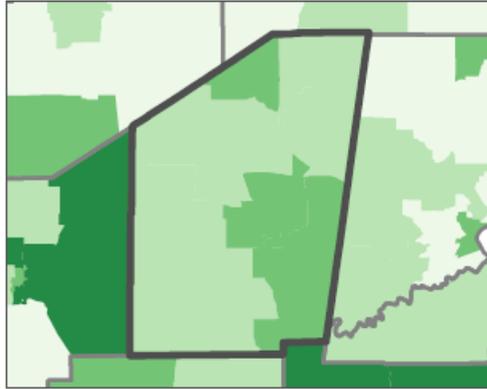
county. CDC/ATSDR SVI 2022 groups **sixteen census-derived factors** into **four themes** that summarize the extent to which the area is socially vulnerable to disaster. The factors include economic data as well as data regarding education, family characteristics, housing, language ability, ethnicity, and vehicle access. Overall Social Vulnerability combines all the variables to provide a comprehensive assessment.



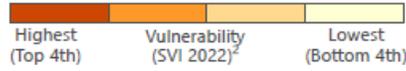
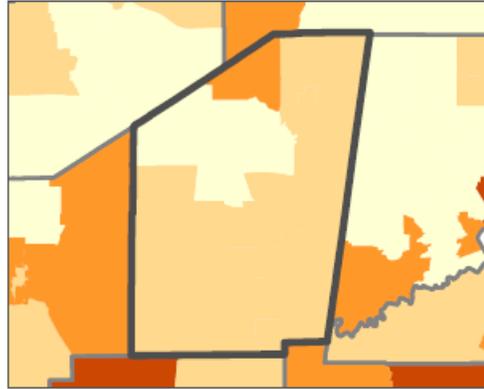
**CDC/ATSDR SVI Themes**



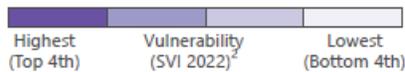
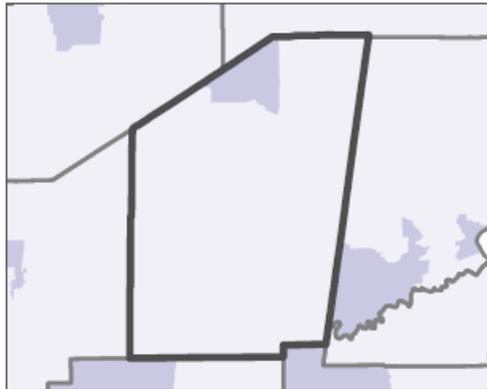
Socioeconomic Status<sup>5</sup>



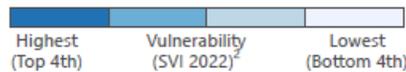
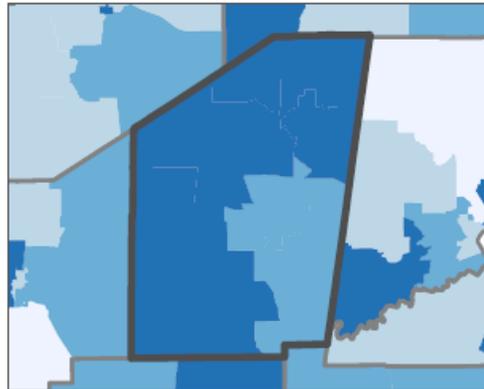
Household Characteristics<sup>6</sup>



Racial and Ethnic Minority Status<sup>7</sup>



Housing Type/Transportation<sup>8</sup>



**Data Sources:** <sup>2</sup>CDC/ATSDR/GRASP, U.S. Census Bureau, ArcGIS StreetMap Premium.

**Notes:** <sup>1</sup>Overall Social Vulnerability. All 16 variables. <sup>2</sup>One or more variables unavailable at census tract level. <sup>3</sup>The CDC/ATSDR SVI combines percentile rankings of U.S. Census American Community Survey (ACS) 2018-2022 variables, for the state, at the census tract level. <sup>4</sup>Socioeconomic Status: Below 150% Poverty, Unemployed, Housing Costs Burden, No High School Diploma, No Health Insurance. <sup>5</sup>Household Characteristics: Aged 65 and Older, Aged 17 and Younger, Civilian with a Disability, Single-Parent Household, English Language Proficiency. <sup>6</sup>Race/Ethnicity: Hispanic or Latino (of any race); Black and African American, Not Hispanic or Latino; American Indian and Alaska Native, Not Hispanic or Latino; Asian, Not Hispanic or Latino; Native Hawaiian and Other Pacific Islander, Not Hispanic or Latino; Two or More Races, Not Hispanic or Latino; Other Races, Not Hispanic or Latino. <sup>7</sup>Housing Type/Transportation: Multi-Unit Structures, Mobile Homes, Crowding, No Vehicle, Group Quarters.

**Projection:** NAD 1983 StatePlane Indiana East FIPS 1301.

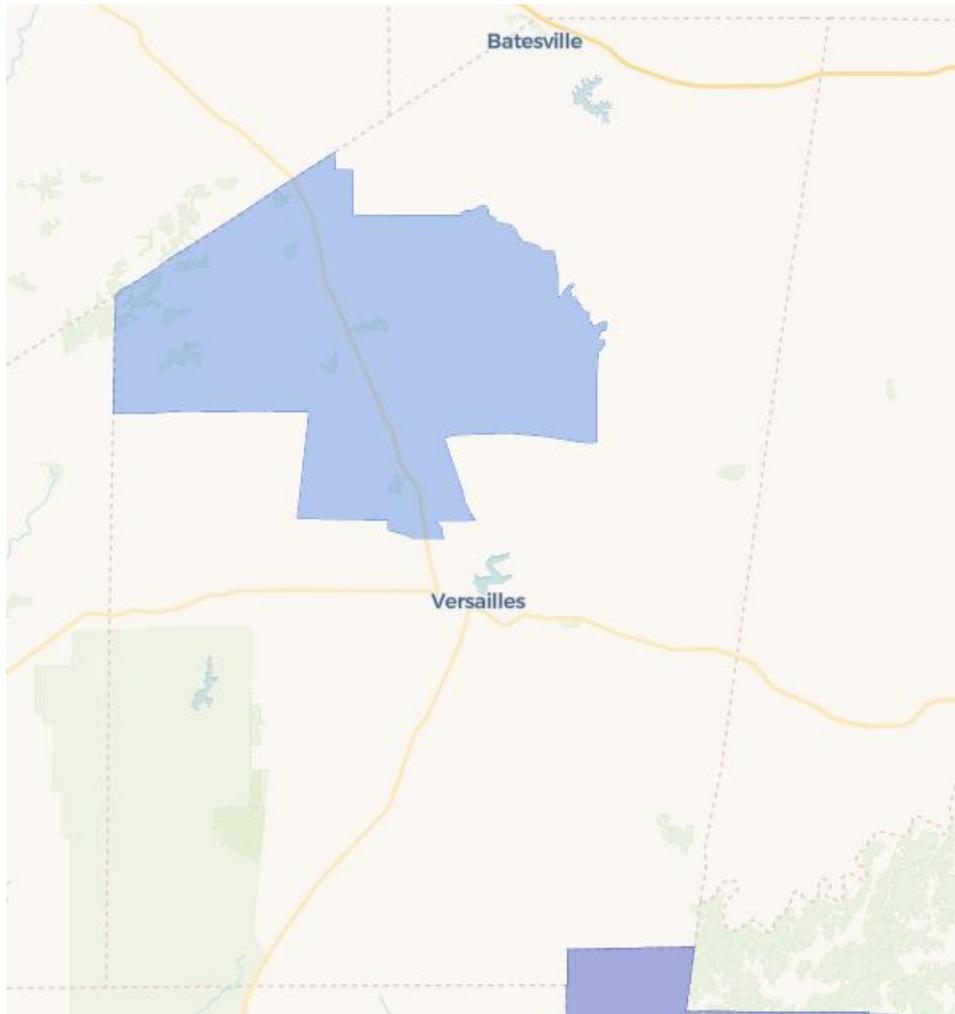
**References:** Flanagan, B.E., et al., A Social Vulnerability Index for Disaster Management. *Journal of Homeland Security and Emergency Management*, 2011. 8(1).  
 CDC/ATSDR SVI web page: <https://www.atsdr.cdc.gov/placeandhealth/svi/index.html>.

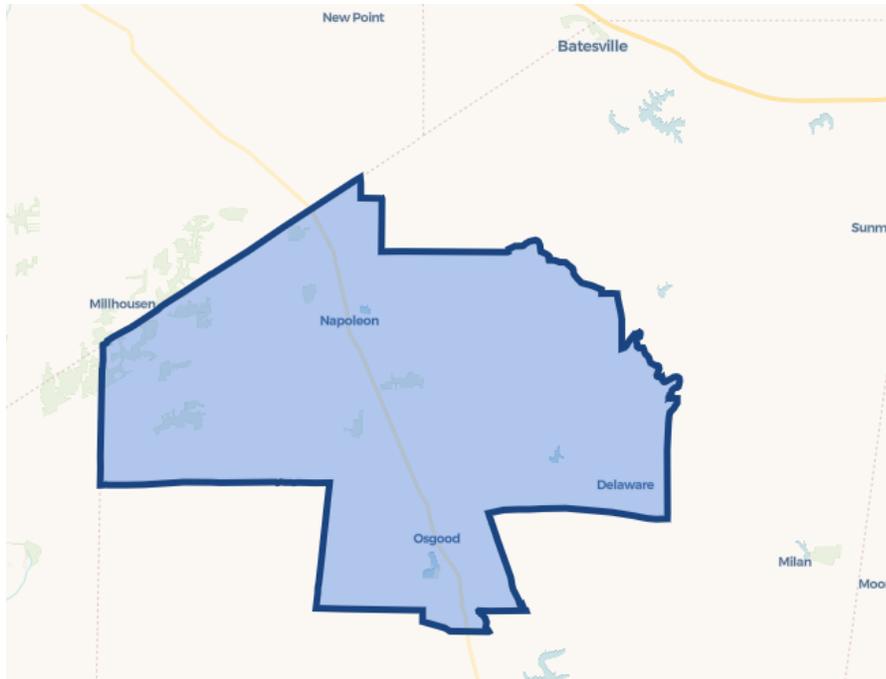
# Climate and Economic Justice Screening Tool

## Disadvantaged populations

### CEJ Data in perspective

Tract #	Population	Disadvantaged	Census Block Descriptor
18137968500	4,616	No	Batesville (northwest corner of county)
18137968400	7,295	No	Sunman (northeast corner of county)
18137968600	5,096	Yes	Napoleon, Osgood, Delaware
18137968900	4,905	No	Milan and south
18137968800	3,203	No	Versailles
18137968700	3,276	No	Holton (southwest corner of county)
Total	28,391		





### Tract information

Number: 18137968600  
 County: Ripley County  
 State: Indiana  
 Population: 5,096

### Tract demographics

Race / Ethnicity ([Show](#) ▾)  
 Age ([Show](#) ▾)

Identified as disadvantaged?

**YES**

This tract is considered disadvantaged because it meets 1 burden threshold **AND** the associated socioeconomic threshold.

### Expected population loss rate

Fatalities and injuries resulting from natural hazards each year

**87th**  
not above 90th percentile

### Low income

People in households where income is less than or equal to twice the federal poverty level, not including students enrolled in higher ed

**74th**  
above 65th percentile

### Transportation barriers

Average of relative cost and time spent on transportation

**90th**  
above 90th percentile

### High school education

Percent of people ages 25 years or older whose high school education is less than a high school diploma

**17%**  
above 10% percent

## **APPENDIX 12: 2017 Mitigation Actions Status**

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#	Action	2017 Priority	Completed? Yes or No	Continue or End?	Status
2	Create lists of available medical personnel and their associated skills in handling hazardous situations; implement more training as necessary.	Low	No	Ongoing	
3	Ensure that police stations, fire stations, and schools have emergency generators	Medium	No	Ongoing	St. Louis School and 2 of 4 Batesville's schools still need units.
4	For all public facilities and key industry buildings in the county which have gas lines, add inertial shut-off valves	Medium	No	End	
5	Identify warming centers throughout Ripley County.	Medium	No	Continue	Started, but not completed
6	Implement and improve communication systems for all Emergency Services within the County	High	No	Continue	Terrain continues to hamper communications. Efforts have been made to raise towers and add repeaters
7	Implement and improve communication systems for all Emergency Services within the County	High			DUPLICATE
8	Improve cellular phone access within the county	Medium	No	Continue	Landline costs are increasing, but there is not reinvestment in the infrastructure. Cell coverage is spotty so internet signals as well as voice communication are not good..
9	Install new sirens in communities where they do not currently exist.	Medium	Yes	End	Batesville has 8 sirens, Versailles has 2 sirens, others are manually activated by the FD.
11	Purchase weather radios for all public buildings and mobile homes through joint funding.	Medium	No	Continue	Have been distributing radios as funding and supplies are available. Continue to identify areas of need and distribute as funding permits.
18	Stream gage along Laughery Creek (Friendship)	Medium	No	Continue	Working with the USGS to pursue the acquisition of a stream gage on Laughery Creek to warn people in and near Friendship.
22	Develop infrastructure for emergency warnings	High	No	Continue	There are currently no FEMA compliant places of refuge Identifying potential shelter locations and update the agreement for Red Cross shelters

#	Action	2017 Priority	Completed? Yes or No	Continue or End?	Status
12	Continue with implementation of the "Turn Around Don't Drown" campaign	Low	No	Continue	Have high water signs on hand.
13	Investigate each fire station and EMS facility, especially Napoleon Fire Station and Friendship Volunteer Fire Dept, to ensure emergency services will be able to enter and exit the facility before, during, and after an earthquake or tornado event.	Low		End	Success - both FDs have been moved from the floodplain. Most departments have a plan to mitigate damages.
14	Review state and local building codes and revise as necessary, especially regarding tie-downs for mobile homes. Create new codes in addition.	Medium	No	Continue	On hold since the state has not adopted updated codes.
19	Update Commodity Flow Study	High	No	Continue	Attempted to get funding, grant request was denied. Trying again.
20	Encourage the development of an IEAP (Batesville)	High	No	Continue	IEAP created. Now it needs to remain updated and exercised regularly.
23	Determine the structural stability of Highway 62 and make necessary improvements (County & Friendship)	High	No	Continue	Study was conducted South of Versailles State Park Laughery Creek. Causes of road slippage and scour at the bridge at Friendship are identified \.
24	Continued compliance with the NFIP by restricting new development from the special flood hazard area.	High	No	Continue	This is an ongoing effort.
1	CSX rail line fixed. (Milan)		yes		The rail line was repaired.
15	Purchase repetitive loss properties in flood-prone areas.	Low	No	Continue	Limited community interest and need a grant sponsor.
16	Inform the community through informational brochures/magnets, as well as public safety television commercials on the risks of potential hazards	Low	No	Continue	Continued to provide outreach materials. TV commercials not really an option.
17	Promote public safety education through the "Turn Around Don't Drown" campaign	Low			DUPLICATE
21	Encourage the public to sign up for the mass emergency notification system, Nixle.	Medium	No	Continue	Continuous ongoing process.

