

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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Owen County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Owen County EMA
129 S Main Street, #101
Spencer IN 47460

November 2, 2021

9:00 am

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 X 0.45 + Magnitude/Severity X 0.30 + Warning Time X 0.15 + Duration of Event X 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; shutdown of critical facilities and services for 24 hours or less; less than 10% of property is severely damaged; average response duration of less than 6 hours
2. Limited – few injuries; complete shutdown of critical facilities and services for more than 1 week; more than 10% of property is severely damaged; average response duration of less than 1 day
3. Significant – multiple injuries; complete shutdown of critical facilities and services for at least 2 weeks; more than 25% of property is severely damaged; average response duration of less than 1 week
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

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 (Owen County GIS) x # structures x replacement

25% of structures=100% damage

35% of structures=50% damage

40% of structures=25% damage

Owen County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Owen County EMA
129 S Main Street, #101
Spencer IN 47460

November 2, 2021

9:00 am

SUMMARY

Project Team Members Present:

Name	Office	Representing
Bill Browne	Owen County Sheriff; Spencer/Owen County Schools	Owen County
Andy Cline	Spencer/Owen County Schools	Owen County
Nathan Cross	Owen County Emergency Medical Services	Owen County
Bob Curry	Owen County Commissioner	Owen County
Shelley Edwards	Spencer Sewer Department	Town of Spencer
Richard Foutch	Spencer Police Department	Town of Spencer
Lee Freeman	Owen Valley Fire Territory	Owen County
Aaron LaGrange	Owen County Sheriff; Spencer/Owen County Schools	Owen County
Kathleen Lamb	Owen County Communications/911	Owen County
Cris Lunsford	Owen County Emergency Medical Services	Owen County
Allan McBride	Owen County Health Department	Owen County
Greg Melton	Owen County Highway Department	Owen County
Matt Miller	Owen County Sheriff	Town of Gosport (Resident)
Jamie Neibel	IU Health Emergency Management	Owen County
Larry Norman	Gosport Town Council	Town of Gosport
Daniel Rhienhart	Owen County Sheriff Department	Owen County
Matt Riddle	Owen Valley Fire Territory	Owen County
Jerry Sears	Indiana Department of Homeland Security	Indiana
Suzanne Simmerman	Owen County Building and Mapping	Owen County
Mike Spinks	Spencer Town Council	Town of Spencer
Jack White	Owen County Emergency Management Agency	Owen County
Andy Wood	Owen County Council	Owen County

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

To begin, EMA Director Jack White thanked everyone for attending the meeting and asked those present to introduce themselves. Director White briefly explained the purpose of the meeting and the planning effort and introduced Heather Buck, CBBEL.

2. Approach for the MHMP Update/Meeting Purpose

Heather explained to the group that the MHMP Update is a requirement to be completed every five years. The overall approach, utilizing a larger Planning Committee similar to the previous

approach was described. The meetings will follow steps to reach the end result of an updated MHMP for all incorporated communities within Owen County.

3. Hazard Risk Assessment:

a) Review Hazard Data

The Committee reviewed the hazards to be studied as determined by Owen County EMA and agreed that these are the hazards which most affect the County. Heather shared data that CBBEL had gathered from the Nation Climatic Data Center (NCDC), local media outlets, and various agencies and offices since the 2016 MHMP was completed.

b) Discuss Vulnerability to Hazards

The Committee was engaged during the discussions regarding the hazards, specific events, and damages experienced. This information will be utilized to guide additional data collection for the MHMP Update, as well as enhance the discussion with the Planning Committee.

c) Determine Probability & Severity

The Committee, considering the data collected, their knowledge, and the prior discussions, determined the probability and severity of the hazards considered during this planning effort. This information will be utilized to determine the Calculated Priority Risk Index (CPRI) and will be reviewed by the Planning Committee.

4. Critical Infrastructure

Heather explained that the listing of Critical Infrastructure was partly provided by Owen County, and partly obtained from state-wide databases as needed. The information was then categorized into sectors, mapped, and utilized to perform additional data analyses to prepare “what-if” scenarios.

5. Next Steps

The process was further explained to the Committee to include the next session, a public review period, and submission of the draft report for all Committee members, the public, and FEMA’s review and comment. It was also explained that it will be very important that all Committee members provide their information in a timely manner so that the draft MHMP Update can be prepared.

6. Adjournment

The first Committee session adjourned. A second session will be held to review the listing of the potential mitigation measures and provide a ranking of High, Moderate, or Low.

Owen County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Owen County EMA
129 South Washington Street

November 2, 2021

1:00 pm

1:00 pm

1. Welcome and Introductions
2. Review of the approach for the MHMP Update
3. Review the Hazard Risk Assessment/CPRI
4. Review and Prioritize Proposed Mitigation Measures
5. Next Steps
6. Adjournment

Owen County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Owen County EMA
129 South Washington Street

November 2, 2021

1:00 pm

SUMMARY

Project Team Members Present:

Name	Office	Representing
Bill Browne	Owen County Sheriff; Spencer/Owen County Schools	Owen County
Andy Cline	Spencer/Owen County Schools	Owen County
Nathan Cross	Owen County Emergency Medical Services	Owen County
Bob Curry	Owen County Commissioner	Owen County
Shelley Edwards	Spencer Sewer Department	Town of Spencer
Richard Foutch	Spencer Police Department	Town of Spencer
Lee Freeman	Owen Valley Fire Territory	Owen County
Aaron LaGrange	Owen County Sheriff; Spencer/Owen County Schools	Owen County
Kathleen Lamb	Owen County Communications/911	Owen County
Cris Lunsford	Owen County Emergency Medical Services	Owen County
Allan McBride	Owen County Health Department	Owen County
Greg Melton	Owen County Highway Department	Owen County
Matt Miller	Owen County Sheriff	Town of Gosport (Resident)
Jamie Neibel	IU Health Emergency Management	Owen County
Larry Norman	Gosport Town Council	Town of Gosport
Daniel Rhienhart	Owen County Sheriff Department	Owen County
Matt Riddle	Owen Valley Fire Territory	Owen County
Jerry Sears	Indiana Department of Homeland Security	Indiana
Suzanne Simmerman	Owen County Building and Mapping	Owen County
Mike Spinks	Spencer Town Council	Town of Spencer
Jack White	Owen County Emergency Management Agency	Owen County
Andy Wood	Owen County Council	Owen County

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

Heather and EMA Director White once again thanked everyone for attending. Introductions were made by those present.

2. Review of the Approach for the MHMP Update

A brief review was provided for those committee members not present at the first session.

3. Review the Hazard Risk Assessment/CPRI

The results of the completed CPRI were shared with those present. Utilizing the discussion from the previous Committee session, the “draft” CPRI was presented. Adjustments were made based on additional discussion with the Committee once they were able to see the final prioritizations.

4. Review and Prioritize Proposed Mitigation Practices

Utilizing the mitigation practices described in the 2016 MHMP and information gathered through the planning process, a list of proposed mitigation practices was presented to the Committee for review and comment. Several members provided insight and input to wording and options for each proposed mitigation measure which was then ranked as High, Moderate, or Low in implementation priority. It was explained that those practices ranked as High would have additional steps outlined within the MHMP Update to assist with the implementation process.

5. Next Steps & Future Meetings

It was explained that the next step in the process is to prepare the draft MHMP Update for review first by the EMA staff and then by the Planning Committee members. Comments accepted by the EMA will be incorporated into the plan. Once this has been completed, a public review period will be set and the draft will be submitted to FEMA and IDHS for review and comment.

6. Adjournment

The Committee adjourned

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

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MEDIA RELEASE

For Immediate Release

Media Release Date: November 2, 2022

Contact: Jack White, Owen County EMA (812.829.5035)

Public Presentation of the Owen County Multi-Hazard Mitigation Plan Update

Spencer, IN (November 2, 2022) – Owen County, in cooperation with Town of Gosport and the Town of Spencer have prepared an update to the 2016 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 Owen County MHMP Update may be accessed at www.owencounty.in.gov 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, November 18, 2022. Please submit comments to Jack White at 812.829.5035 or jack.white@owencounty.in.gov

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Flyer

Web posting

Social media clips

APPENDIX 4: CRITICAL INFRASTRUCTURE BY COMMUNITY

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Map ID	Airport	Community
1	Miller Airport	Owen County
2	Shenandoah Flying Field	Owen County

Map ID	Church	Community
3	Antioch Church	Owen County
4	Beech Church	Owen County
5	Bethany Church	Owen County
6	Bethel Church	Owen County
7	Bible Baptist Church	Owen County
8	Buckskin Church	Owen County
9	Carolina Church	Owen County
10	Christian Church	Gosport
11	Church of Christ	Spencer
12	Church of God of Prophecy	Spencer
13	Coal City Community Bible Church	Owen County
14	Dutch Bethel Church	Owen County
15	Freedom Baptist Church	Owen County
16	Freedom Church of Nazarene	Owen County
17	Freedom Methodist Church	Owen County
18	Garrard Church	Owen County
19	Gosport Baptist Church	Gosport
20	Gosport Methodist Church	Gosport
21	Hedding Church	Owen County
22	Hudson Hill Church	Owen County
23	Laymon Church	Owen County
24	Lighthouse Tabernacle	Gosport
25	Little Flock Church	Owen County
26	McCormicks Creek Church	Owen County
27	Mill Grove Church	Owen County
28	Montgomery Chapel	Owen County
29	Mount Calvary Church	Owen County
30	Mount Olive Church	Owen County
31	Mount Pleasant Church	Owen County
32	New Union Church	Owen County
33	Otterbein Church	Owen County
34	Patrickburg United Methodist Church	Owen County
35	Pleasant Bethel Church	Owen County
36	Pleasant Hill Church	Owen County
37	Pleasant View Church	Owen County
38	Quincy Baptist Church	Owen County
39	Shiloh Church	Owen County
40	Spencer First Church of The Nazarene	Spencer
41	Spencer Presbyterian Church	Spencer
42	Spencer Wesleyan Church	Spencer
43	The General Assembly & Church of Firstborn	Gosport
44	Wesley Chapel	Owen County
45	Whitehall Holiness Church	Owen County

Map ID	Church	Community
46	Word of Life Tabernacle	Owen County

Map ID	Communications	Community
47	AT&T Cell Tower	Owen County
48	AT&T Cell Tower	Owen County
49	AT&T Junction Station	Owen County
50	Cell Phone Tower (Verizon)	Owen County
51	Cell Tower	Owen County
52	Comcast (Tower)	Owen County
53	Communication Tower	Owen County
54	Communications Tower	Owen County
55	Endeavor	Owen County
56	Endeavor	Owen County
57	Endeavor Communications	Owen County
58	Endeavor Communications	Owen County
59	Endeavor Electronics Hut	Owen County
60	FAA Communications Tower	Owen County
61	Radio Tower	Owen County
62	Smithville Remote	Gosport
63	Smithville Remote	Owen County
64	Tower	Owen County
65	Verizon Cell Tower	Owen County

Map ID	Community Center	Community
66	Freedom Community Center	Owen County
67	Millgrove Community Center	Owen County

Map ID	Daycare	Community
68	A Joyful Noise	Owen County
69	Church of God Daycare	Spencer
70	Country Mouse City Mouse	Spencer
71	Headstart	Spencer
72	Home Suite Home	Owen County
73	Tiny Town Daycare	Spencer
74	Truesdel Daycare	Spencer

Map ID	Emergency Operations Center	Community
75	Owen County Emergency Management	Spencer

Map ID	Emergency Medical Services	Community
76	Owen County EMS	Spencer

Map ID	Energy	Community
77	Community Natural Gas	Spencer
78	Duke Sub Station	Spencer
79	Hoosier Energy	Owen County
80	Natural Gas Co.	Owen County
81	Natural Gas Regulator	Spencer
82	Sub Station	Owen County
83	Sub Station	Owen County
84	Sub Station (Cinergy)	Owen County
85	Sub Station (CUNOT)	Owen County

Map ID	Fire Stations/EMS	Community
86	Cataract Volunteer Fire Department	Owen County
87	Clay Township Fire Company	Owen County
88	Coal City Volunteer Fire Department	Owen County
89	Franklin Township Volunteer Fire Dept	Owen County
90	Gosport Volunteer Fire Department	Gosport
91	Owen Valley Volunteer Fire Department	Spencer
92	Patrickburg Community VFD	Owen County
93	Poland Fire Department	Owen County

Map ID	Government	Community
94	Coroner's Office/Maintenance Dept	Spencer
95	Gosport Town Hall	Gosport
96	Gosport Town Hall	Gosport
97	Gosport Town Marshal	Gosport
98	Highway Department	Owen County
99	Owen County Coroner	Spencer
100	Owen County Court Services	Spencer
101	Owen County Courthouse	Spencer
102	Owen County Fairgrounds	Spencer
103	Owen County Public Library	Spencer
104	Patrickburg Landfill	Owen County
105	Purdue Extension Office	Spencer
106	Spencer Street Department	Spencer

Map ID	Medical	Community
107	IU Health	Spencer
108	IU Health	Spencer

Map ID	Mobile Home Park	Community
109	Leonard White (Previously Casida)	Spencer
110	Goss David E & Susan R	Spencer
111	Jenner Properties LLC	Spencer
112	Key Donald G & Bryan G & Gary D	Spencer

Map ID	Mobile Home Park	Community
113	Kothe William H	Owen County
114	Robertson Nicholas R & Peggy E	Owen County
115	Sands Constance Ferguson	Owen County
116	Terrell Donald R & Elizabeth L	Spencer
117	Truax John D & Elizabeth	Spencer
118	Truax John David & Elizabeth Marie	Owen County
119	Truax John I & Elizabeth M	Owen County
120	White Ernest M Farms Inc	Owen County

Map ID	Nursing Home	Community
121	The Residence at McCormick's Creek	Owen County

Map ID	Police Department	Community
122	Gosport Police Department	Gosport
123	Owen County Sheriff	Spencer
124	Owen County Sheriff Department/Jail	Spencer
125	Spencer Police Department	Spencer

Map ID	Red Cross Shelter	Community
126	CUNOT Community Center	Owen County
127	Jefferson Baptist Church	Owen County
128	Owen County Family YMCA	Owen County

Map ID	School	Community
129	Hilltop Christian School	Owen County
130	Gosport Elementary School	Gosport
131	McCormick's Creek Elementary School	Owen County
132	Owen Valley High School	Spencer
133	Owen Valley Middle School	Spencer
134	Patrickburg Elementary School	Owen County
135	Spencer Elementary School	Spencer

Map ID	Tier II	Community
136	AT&T - INE810	Owen County
137	AT&T - USID42438	Owen County
138	Co Alliance LLP Quincy Energy	Owen County
139	Co Alliance LLP Spencer Propane	Owen County
140	Cook Incorporated	Spencer
141	Gosport Substation	Owen County
142	Hoosier Energy PDOC	Owen County
143	Speedway 5556	Spencer
144	Spencer 230 KV Substation	Owen County
145	Spencer 69 KV Substation	Spencer

Map ID	Tier II	Community
146	Spencer Boston Scientific	Spencer
147	SPENCER CO - N33113	Spencer
148	Spencer Municipal Wastewater Treatment Plant	Spencer
149	Water Treatment Facility	Spencer

Map ID	Wastewater Treatment Plant	Community
150	CCRTC Transfer Station	Owen County
151	Gosport WWTP	Owen County
152	Spencer Municipal WWTP (HMH)	Spencer

Map ID	Water Tower	Community
153	Water Tower	Gosport
154	Water Tower	Owen County
155	Water Tower	Owen County
156	Water Tower	Owen County
157	Water Tower	Spencer
158	Water Tower (Eastern Green Co. Utilities)	Owen County

Map ID	Water Treatment	Community
159	BBP Pumphouse	Owen County
160	BBP Water Corporation	Spencer
161	Gosport Water Department	Gosport
162	Pump House/Water Tower	Owen County

Map ID	Dams	Community
d1	Amazon Lake Dam	Owen County
d2	Bass Haven Lake Dam	Owen County
d3	Camp Otto Dam	Owen County
d4	Dugan Lake Dam	Owen County
d5	Duling Lake Dam	Owen County
d6	Dutton Lake Dam	Owen County
d7	Ellis Lake Dam	Owen County
d8	Elliston Creek Dam	Owen County
d9	Farm Pond	Owen County
d10	Graybrook Lake Dam	Owen County
d11	Hollybrook Lake Dam	Owen County
d12	Larry Smith Lake Dam	Owen County
d13	Locust Lake Dam	Owen County
d14	Miller Pond Dam	Owen County
d15	Mills Lake Dam	Owen County
d16	Monds Lake Dam	Owen County
d17	Paw Paw Lake Dam	Owen County
d18	Ralph Ketchum Dam	Owen County
d19	Salter Lake Dam	Owen County

Map ID	Dams	Community
d20	Spencer Cons. Club Dam	Owen County
d21	Strouse's Little Pine Dam	Owen County
d22	Thomas Lake Dam	Owen County
d23	Thurston Lake Dam	Owen County
d24	Timber Ridge Lake Dam	Owen County
d25	Trimble Lake Dam	Owen County
d26	Wagner Lake Dam	Owen County
d27	Wasatch Lake Dam	Owen County

Map ID	Large Employers	Community
e1	Babb's Supervalu	Spencer
e2	Boston Scientific Corp	Spencer
e3	Canyon Inn	Owen County
e4	Cook Urological Inc	Spencer
e5	Mc Donald's	Spencer
e7	McCormick Creek Elementary Sch	Owen County
e6	McCormick's Creek Rehab	Owen County
e8	Owen Valley Health Campus	Spencer
e9	Owen Valley High School	Spencer
e10	Owen Valley Middle School	Spencer
e11	Residence At McCormick's Creek	Owen County
e12	Spencer Elementary School	Spencer
e13	Walmart	Spencer
e14	World Arts Inc	Spencer
e15	YMCA Owen County Family	Owen County

**APPENDIX 5: USGS STREAM GAGE LOCATIONS,
MAJOR WATERWAYS**

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Stream Gage Location	
Site Number	Site Name
03357000	White River (IN) at Spencer
03358000	Mill Creek near Cataract

Major Waterways		
Beanblossom Creek	Indian Creek	Muddy Branch
Beech Creek	Jack Creek	Naans Branch
Big Creek	Jordan Creek	North Fork Jordan Creek
Brush Creek	Lagoon Creek	Raccoon Creek
Buckhall Creek	Lenning Branch	Rattlesnake Creek
Butler Creek	Lick Creek	Richland Creek
Coon Creek	Limestone Creek	Sand Lick Creek
Doe Creek	Littens Branch	Sixmile Creek
East Fork Fish Creek	Little Mill Creek	Sulphur Creek
Eel River	Little Raccoon Creek	Turkey Creek
Elliston Creek	Mack Creek	West Fork Creek
Fall Creek	McBride Branch	West Fork Fish Creek
Fish Creek	McCormick's Creek	West Fork Lick Creek
Goose Creek	Mill Creek	White River
Hauser Creek	Mills Creek	

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APPENDIX 6: 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>

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
Totals:			0	0	\$20.01M	\$10.0K
ROMONA	7/13/2017	Flash Flood	0	0	\$0.5K	\$0.5K
CARP	4/3/2018	Flash Flood	0	0	\$5.0K	\$0.5K
ATKINSONVILLE	9/8/2018	Flash Flood	0	0	\$1.0K	\$0.0K
FREEDOM	6/18/2021	Flash Flood	0	0	\$1.0K	\$1.0K
Totals:			0	0	\$20.01M	\$10.0K

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
Totals:			0	0	\$122.0K	\$0.0K
GOSPORT	5/10/2017	Thunderstorm Wind	0	0	\$4.0K	\$0.0K
SPENCER	4/8/2020	Thunderstorm Wind	0	0	\$5.0K	\$0.0K
ADEL	7/11/2020	Thunderstorm Wind	0	0	\$3.0K	\$0.0K
ARNEY	7/11/2020	Thunderstorm Wind	0	0	\$0.5K	\$0.0K
ARNEY	7/11/2020	Thunderstorm Wind	0	0	\$0.5K	\$0.0K
SOUTHPORT	6/18/2021	Thunderstorm Wind	0	0	\$100.0K	\$0.0K
WALLACE JCT	7/15/2021	Thunderstorm Wind	0	0	\$4.0K	\$0.0K
SOUTHPORT	12/11/2021	Thunderstorm Wind	0	0	\$5.0K	\$0.0K
Totals:			0	0	\$122.0K	\$0.0K

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
Totals:			0	0	\$100.0K	\$0.0K
FREEDOM	6/15/2019	Tornado – EF1	0	0	\$100.0K	\$0.00K
Totals:			0	0	\$100.0K	\$0.0K

APPENDIX 7: 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

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

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

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

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#LLI>

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

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 8: CRS CHECKLIST

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CRS 10-Step Planning Process	Max. Points	Est. Points	Comments
1. Organize and Prepare the Plan	15	13	
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	
2. Involve the Public	120	60	
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
3. Coordinate with Other Agencies	35	25	
Review of existing studies and plans (required)	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
4. Assess the Hazard	35	35	
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
5. Assess the Problem	52	34	
Summary of hazard and impact on community (required)	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		
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

CRS 10-Step Planning Process	Max. Points	Est. Points	Comments
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
6. Set Goals (required)	2	2	Section 4.1 list goal for MHMP - to reduce social, physical, and economic losses from hazards
7. Review Possible Activities	35	35	
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
8. Draft Action Plan	60	60	
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
9. Adopt the Plan	2	2	
10. Implement, Evaluate and Revise	26	26	
Procedures to monitor and recommend revisions (required)	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.
TOTAL	382	292	

APPENDIX 9: COMMUNITY CAPABILITY ASSESSMENT

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Plans	Comprehensive Plan	Local Emergency Plan	Economic Development	Watershed Plan
Owen County	2010	Owen County MHMP – 2016 and 2022 serve as a multi-jurisdictional approach to emergency planning.	Owen County Economic Development Corporation Marce King	Fish Creek Lower White River
Town of Gosport				Fish Creek
Town of Spencer				Fish Creek

Ordinances	Zoning Ordinance	Subdivision Control Ordinance	Stormwater Ordinance	Burning Ordinance	Water Conservation Ordinance
Owen County	Ch 159 (2019)		Ch 154 (2020)		
Town of Gosport	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of Spencer	<i>With Montgomery County</i>		<i>With Montgomery County</i>		

Programs	NFIP	CRS	Tree City	Storm Ready	Mutual Aid Agreements
Owen County	180481#	No	No	No	Yes Fire, Police, EMS
Town of Gosport		No	No	No	
Town of Spencer	180191#	No	No	No	

Studies/Maps	FIRMs	Evacuation Routes	Vulnerable Populations	At-Risk Structures	River Basin Partnership
Owen County	03/03/2014	HazMat			No
Town of Gosport		HazMat			No
Town of Spencer	03/03/2014	HazMat			No

Staffing	Building/ Planning	GIS	Engineer / Surveyor	Street/ Highway	Floodplain Admin
Owen County	Rick Smeltzer Building Inspector	Suzanne Simmerman, Building Administrator	Bill Pursell Surveyor	Greg Melton Highway Superintendent	Suzanne Simmerman Building Administrator
Town of Gosport					
Town of Spencer					

APPENDIX 10: IMPLEMENTATION CHECKLIST

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MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2027 STATUS
<p>Flood Studies and Protection</p> <p>1. Conduct detailed flood studies for problem areas (such as stream crossing and culverts) and/or areas with poor drainage or repetitive flooding problems <i>(2016 Measure)</i></p> <p>2. Encourage 1 or more staff for each NFIP community to become a Certified Floodplain Manager (CFM)</p> <p><i>(Will assist with NFIP compliance)</i></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 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>Ongoing –</p> <p>1. Studies are completed as funding becomes available</p> <p>Proposed Enhancements –</p> <p>1. Develop prioritized listing of needed studies and continue to complete as funding becomes available</p> <p>2. Have at least one Owen County and one Spencer staff person certified as a CFM</p>	High	
<p>Land Use Planning and Zoning</p> <p>1. Incorporate hazard information, risk assessment, and hazard mitigation practices into the Comprehensive Land Use Plan to better guide future growth and development <i>(2016 Measure)</i></p> <p>2. Establish overlay zones in the Zoning Ordinance to restrict development, especially critical facilities in known hazard areas or require setbacks of noncritical facilities <i>(2016 Measure)</i></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 checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <p>Proposed Enhancements –</p> <p>1. Increase the number of hazards considered, more definitively outline higher risk areas and those that should be avoided for future development</p> <p>2. Establish overlay zones to restrict development</p>	High	
<p>Community Rating System</p> <p>1. Investigate potential to reduce flood insurance premiums through additional participation in the NFIP's CRS Program. <i>(2016 Measure)</i></p> <p><i>(Will assist with NFIP compliance)</i></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 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>Ongoing –</p> <p>Proposed Enhancement –</p> <p>1. Participation from Spencer and Owen County</p>	Moderate	
<p>Geographic Information Systems</p> <p>1. Train GIS staff in HAZUS-MH to quantitatively estimate losses in “what if scenarios” and continue to use the most recent GIS data in land use planning efforts <i>(2016 Measure)</i></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>Ongoing –</p> <p>1. GIS layers have been developed and are utilized by some departments</p> <p>Proposed Enhancements –</p> <p>1. Provide training opportunities for GIS staff related to HAZUS-MH and continue to keep critical facilities information up to date</p>	Moderate	

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<p>Management of Dams</p> <ol style="list-style-type: none"> 1. Participate in the IEAP and annual exercise for existing and new high hazard dams 2. Review regular inspection and maintenance records of high hazard dams 3. Encourage high hazard dam owners to develop an IEAP. 	<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>Ongoing –</p> <p>Proposed Enhancements –</p> <ol style="list-style-type: none"> 1. Contact high hazard dam owners to remain on contact list for IEAP exercise and review 2. Contact high hazard dam owners to review inspection and maintenance records for high hazard dams 3. Contact high hazard dam owners to encourage them to develop an IEAP 	Moderate	
<p>Power Backup Generators</p> <ol style="list-style-type: none"> 1. Inventory generator, wiring, or switch capabilities at critical facilities and prioritize upgrades or installations 2. Secure a fuel reserve, or ensure contractual emergency provisions so critical infrastructure may run on power backup for extended periods of time 	<input 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>Ongoing –</p> <ol style="list-style-type: none"> 1. Many critical facilities have generators or have added since the last plan <p>Proposed Enhancements –</p> <ol style="list-style-type: none"> 1. Inventory generator capabilities and needs and prioritize within each community to determine needs for future purchases 2. Secure fuel reserves via contract service agreements 	Moderate	
<p>Safer Rooms and Community Shelters</p> <ol style="list-style-type: none"> 1. Investigate critical facilities and public buildings to determine most appropriate location of safer room or area 	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <ol style="list-style-type: none"> 1. Many buildings have plans on where to go in the event of a hazard <p>Proposed Enhancement –</p> <ol style="list-style-type: none"> 1. Inventory municipal/public buildings, large employers, and vulnerable areas to determine if safest places are being utilized 	Moderate	

MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2027 STATUS
<p>Building Protection</p> <ol style="list-style-type: none"> 1. Adopt construction standards and building codes to ensure that hazard protection, especially of critical facilities, are incorporated into local building codes 2. Inventory critical facilities to determine what improvements are needed to harden against various hazards 3. Enforce zoning laws and restrict the development of new critical infrastructure in 1% & 0.2% annual chance flood hazard, FEH, karst, and potential dam failure inundation areas. 4. Inventory which critical facilities are out of date regarding building codes <i>(2016 Measure)</i> 5. Increase the number of dry hydrants available to use for emergency fire protection <p><i>(Will assist with NFIP compliance)</i></p>	<input 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>Ongoing –</p> <ol style="list-style-type: none"> 1. The County and Spencer follow the Indiana State Building Code 3. Ordinances prohibit construction of new critical facilities in 0.2% annual chance flood area 5. Some dry hydrants exist in rural areas <p>Proposed Enhancements –</p> <ol style="list-style-type: none"> 1. Review and adopt State Building Codes (Gosport) 2. Develop inventory of critical facilities and upgrades needed to harden against hazards 3. Continue to prohibit development in floodplains and include potential dam failure inundation areas, karst geology and FEH areas 4. Develop an inventory of out-of-date structures and work to bring them up to code 5. Inventory existing dry hydrants and work with landowners to increase the number throughout the county 	<p>High <i>(building codes, harden facilities)</i></p> <p>Moderate <i>(prohibit development critical facilities, out of date, dry hydrants)</i></p>	
<p>Emergency Response & Recovery</p> <ol style="list-style-type: none"> 1. Inventory and prioritize needs for mobile data terminals, including hardware and software, to be placed in appropriate response vehicles 2. Investigate most efficient and protected method to back up county and municipal records 3. Coordinate communications, documentation, and record keeping between communities and agencies including a database of accurate and community specific information following each hazard events <i>(2016 Measure)</i> 4. Review and update as necessary the detailed Flood Response Plan (FRP) for Spencer to improve response and reduce losses from a flood event 	<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>Ongoing –</p> <ol style="list-style-type: none"> 1. Some response agencies and vehicles currently have equipment 3. Post-event information is provided in varying degrees 4. Town of Spencer has an FRP <p>Proposed Enhancement –</p> <ol style="list-style-type: none"> 1. Work with agency liaison to inventory needs for each response agency and prioritize on a countywide basis 2. Establish consistent protocols regarding records back up throughout the county 3. Create a more consistent reporting and documentation effort following hazard events 4. Develop team to review and update FRP 	<p>High <i>(mobile data terminals, records backup)</i></p> <p>Moderate <i>(communications, FRP)</i></p>	

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<p>Emergency Preparedness & Warning</p> <ol style="list-style-type: none"> Investigate options and select a hazard broadcast system to distribute mass notifications to residents and visitors <i>(2016 Measure)</i> Evaluate flood forecasting capabilities including stream gages, flood forecast maps, and flood alerts <i>(2016 Measure)</i> Evaluate overall outdoor warning siren coverage or complete software upgrades to alert populations of severe weather conditions <i>(2016 Measure)</i> Coordinate with private building owners utilizing large dynamic message boards for business to use during hazard events <i>(2016 Measure)</i> 	<ul style="list-style-type: none"> <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>Ongoing –</p> <ol style="list-style-type: none"> The county has one real-time AHPS stream gage Sirens provide coverage for most populated areas Many private facilities throughout the county operate an electronic message board <p>Proposed Enhancements –</p> <ol style="list-style-type: none"> Select and utilize mass notification system for the county Determine if additional gages upstream (Bowling Green in Clay County) would provide advanced warning Additional siren may be useful near Jordan Village area and review software/hardware needs for existing sirens Coordinate with facility owners who operate dynamic message boards and provide them with pre-scripted messages to use during hazard events. 	<p>High <i>(mass notifications, stream gages)</i></p> <p>Moderate <i>(siren coverage)</i></p> <p>Low <i>(private message boards)</i></p>	