

APPENDIX 1: ACRONYMS

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AEP	Annual Exceedance Probability
AHPS	Advanced Hydrologic Prediction Service
AICP	American Institute of Certified Planners
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
PDM	Pre-Disaster Mitigation
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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Newton County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Newton County Government Building
4117 S 240 W
Morocco IN 47963

July 22, 2020

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 (Newton County GIS) x # structures x replacement

25% of structures=100% damage

35% of structures=50% damage

40% of structures=25% damage

Newton County Multi-Hazard Mitigation Plan Update
Project Team Meeting

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4117 S 240 W
Morocco IN 47963

July 22, 2020

9:00 am

SUMMARY

Project Team Members Present:

NAME	OFFICE	REPRESENTING
Ray Chambers	Newton County EMA	Newton County
Brianna Ciara	Newton County SWCD	Newton County
Mike Clements	Morocco Volunteer Fire Department	Town of Morocco
Kim Durham	Newton County Health Department	Newton County
Dillon Hall	Goodland Town Marshal	Town of Goodland
Nikki Hanger	Lake Twp Trustee	Newton County
Jim Large	E911 Director/Kentland Volunteer Fire Dept	Newton County/Town of Kentland
David Pluimer	Newton County Highway Department	Newton County
Nick Snodgrass	Superintendent	Town of Brook

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

To begin, Director Chambers thanked everyone for attending the meeting and asked those present to introduce themselves.

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 Newton County.

3. Hazard Risk Assessment:

a) Review Hazard Data

During each session, the Committee reviewed the hazards to be studied as determined by Newton 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 2010 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 Newton 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. An afternoon session will be held to review the listing of the potential mitigation measures and provide a ranking of High, Moderate, or Low.

Newton County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Newton County Government Building
4117 S 240 W
Morocco IN 47963

July 22, 2020

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

Newton County Multi-Hazard Mitigation Plan Update
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July 22, 2020

1:00 pm

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Brianna Ciara	Newton County SWCD	Newton County
Mike Clements	Morocco Volunteer Fire Department	Town of Morocco
Dillon Hall	Goodland Town Marshal	Town of Goodland
Jim Large	E911 Director/Kentland Volunteer Fire Dept	Newton County/Town of Kentland
Howard Marshall	Mount Ayr Sewage and Water	Town of Mount Ayr
David Pluimer	Newton County Highway Department	Newton County
Jane Risky	Iroquois Twp Trustee	Newton County
Jacob Shufflebarger	Jefferson Twp /Newton County Maintenance	Newton County
Nick Snodgrass	Superintendent	Town of Brook

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

Heather and Director Chambers 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 2010 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: March 1, 2021

Contact: Ray Chambers, Newton County Emergency Management Agency (888.663.9866 ext 5300)

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

Morocco, IN (March 1, 2020) – Newton County, in cooperation with Brook, Goodland, Kentland, Morocco, and Mount Ayr have prepared an update to the 2010 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 State 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 Newton County MHMP Update may be accessed at www.newtoncounty.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, March 12, 2021. Please submit comments to Ray Chambers at 888.663.9866 ext 5300 or rchambers@newtoncounty.in.gov.

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Newton County Multi-Hazard Mitigation Plan 5-Year Update



Please take some time to
review and provide
comments on the

**The 2021 Newton
County MHMP Update**

This helps us create a better
plan, prepare for hazards
that may affect Newton
County and the
communities, and
become more resilient
should an event occur.

Your time and efforts are
appreciated!

The Newton County Multi-Hazard Mitigation Plan (MHMP) Update is a multi-jurisdictional planning effort led by the Newton County Emergency Management Office. The previous MHMP, adopted in 2010 was the necessary first step of a multi-step process to implement programs, policies, and projects to mitigate the effect of hazards in Newton County. A Federal Emergency Management Agency (FEMA) approved MHMP is required to be eligible for disaster mitigation funds.

FEMA also requires communities to update and resubmit the MHMP every five years to continue to be eligible for mitigation project grant funding. The intent of this current planning effort is to replicate the process of identifying the hazards and the social, physical, and economic impact that they affect Newton County as well as to discuss mitigation measures implemented within the last five years.

A copy of the draft MHMP Update may be accessed at
www.newtoncounty.in.gov

Comments will be accepted through March 12, 2021.

Any comments or questions should be directed to Ray Chambers at
888.663.9866 ext 5300 or rchambers@newtoncounty.in.gov

APPENDIX 4: CRITICAL INFRASTRUCTURE BY COMMUNITY

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Map ID	Communication	Community
1	55 & 450 South	Newton County
2	Camalot Tower	Newton County
3	Convergence Technologies Old 41	Newton County
4	Crown Castle GT Co 550 East	Newton County
5	Gerbracht Farms 825 South	Newton County
6	GILLIATT PAMELA & LYNNE	Newton County
7	Lake Village Elementary	Newton County
8	Mailloux Richard 1500 South	Newton County
9	Midwest Antenna Monan	Newton County
10	NIPSCO 1200 North	Newton County
11	NIPSCO 600 East	Newton County
12	Radio Tower Churchill	Newton County
13	Radio Tower County Highway	Town of Morocco
14	Radio Tower EMA	Newton County
15	Radio Tower Goodland	Town of Goodland
16	Radio Tower Sheriff	Town of Kentland
17	Radio Tower Water Tower	Newton County
18	SBA Properties 1400 South	Newton County
19	SBA Properties 800 North	Newton County
20	SBA Structures 600 West	Newton County
21	SBA Tower 400 South	Town of Morocco
22	Spectrasite Com 600 East	Newton County
23	Sprint 1500 South	Newton County
24	Trunkline Gas State Road 55	Newton County
25	Verizon Tower 600 East	Newton County

Map ID	Emergency Management Agency	Community
26	EMA	Newton County

Map ID	Emergency Medical Services	Community
27	EMS North	Newton County
28	EMS South	Newton County

Map ID	Fire Department	Community
29	Brook FD	Town of Brook
30	Goodland FD	Town of Goodland
31	Kentland FD	Town of Kentland
32	Lake FD	Newton County
33	Lincoln FD	Newton County
34	Morocco FD	Town of Morocco

Map ID	Government Facilities	Community
35	County Highway	Town of Morocco
36	Courthouse	Town of Kentland

Map ID	Government Facilities	Community
37	Enos Service Center	Newton County
38	Generation Center	Newton County
39	Government Center	Town of Morocco
40	Jail	Town of Kentland
41	Kentland Municipal Airport 50i	Town of Kentland
42	Surveyors Office	Town of Kentland

Map ID	Health/Daycare Facilities	Community
43	Aperion Care	Newton County
44	Generation Center	Newton County
45	George Ade	Newton County
46	Headstart Goodland	Town of Goodland
47	Headstart Roselawn	Newton County
48	IMH Kentland	Town of Kentland

Map ID	Large Gathering Places	Community
49	Fair Oaks Farms Adventure Center	Newton County
50	Fairfield Inn Fair Oaks	Newton County
51	Goodland Community Center	Town of Goodland
52	LaSalle Fish & Wildlife State Park	Newton County
53	Newton County Fairground	Newton County
54	Oak Lake RV Resort	Newton County
55	Pioneer Family Campground	Newton County
56	Ponderosa Sun Club	Newton County
57	Red Roof Inn Kentland	Town of Kentland
58	Sun Aura	Newton County
59	US 41 Motorplex	Newton County
60	Willow Slough Fish & Wildlife State Park	Newton County

Map ID	Police Station	Community
61	Brook PD	Town of Brook
62	Goodland PD	Town of Goodland
63	Kentland PD	Town of Kentland
64	Morocco PD	Town of Morocco
65	Sheriff Office	Town of Kentland

Map ID	Potable Water Treatment	Community
66	Brook Water Treatment	Newton County
67	Dairy Water Treatment	Newton County
68	Goodland Water Treatment	Town of Goodland
69	Kentland Water Treatment	Town of Kentland
70	Morocco Water Treatment	Town of Morocco

Map ID	Power Generation	Community
71	Lake Village Solar Panel Farm	Newton County
72	NIPSCO Substation Brook	Newton County
73	NIPSCO Substation Goodland	Newton County
74	NIPSCO Substation Kentland	Town of Kentland
75	NIPSCO Substation Morocco	Town of Morocco
76	NIPSCO Substation Thayer	Newton County

Map ID	Schools	Community
77	Lake Village Elementary	Newton County
78	Lincoln Elementary	Newton County
79	Morocco Elementary	Town of Morocco
80	North Newton High School	Newton County
81	South Newton	Newton County

Map ID	Shelters	Community
82	(Shelter) American Legion Post #238	Newton County
83	(Shelter) Aperion Care Demotte	Newton County
84	(Shelter) Beaver Township Community Center	Town of Morocco
85	(Shelter) Brook Community Center	Town of Brook
86	(Shelter) Brook United Methodist Church	Town of Brook
87	(Shelter) Community Christian Reform Church	Newton County
88	(Shelter) First Baptist Church of Roselawn	Newton County
89	(Shelter) First Christian Church	Town of Brook
90	(Shelter) George Ade Memorial Healthcare	Newton County
91	(Shelter) Goodland Community Center	Town of Goodland
92	(Shelter) Goodland Fire Dept.	Town of Goodland
93	(Shelter) Kentland Community Center	Town of Kentland
94	(Shelter) Lake Township Community Center	Newton County
95	(Shelter) Lake Village Elementary School	Newton County
96	(Shelter) Lincoln Elementary School	Newton County
97	(Shelter) Lincoln Township Volunteer Fire Dept	Newton County
98	(Shelter) Morocco Elementary School	Town of Morocco
99	(Shelter) Mt. Ayr Community Center	Town of Mount Ayr
100	(Shelter) Sumava Resorts Improvement Club	Newton County
101	(Shelter) United Methodist Church My Ayr	Town of Mount Ayr
102	(Shelter) United Methodist Church of Mt. Ayr	Town of Mount Ayr

Map ID	Tier II (Hazardous Materials)	Community
103	Adkev, Inc.	Town of Goodland
104	Boezeman Co Oil	Newton County
105	Ceres Solutions Cooperative Brook	Newton County
106	Ceres Solutions Cooperative Kentland	Newton County
107	Ceres Solutions Cooperative Lake Village	Newton County
108	Ceres Solutions Cooperative Roselawn	Newton County
109	Co-Alliance LLP Goodland Agronomy	Town of Goodland

Map ID	Tier II (Hazardous Materials)	Community
110	Co-Alliance LLP Goodland Grain	Newton County
111	Gavilon Fertilizer	Newton County
112	Heritage FS, Inc.	Newton County
113	Hicksgas Thayer	Newton County
114	Indiana Bell Telephone Company, Inc./AT&T Indiana	Town of Morocco
115	Indiana DOT Kentland	Newton County
116	Indiana DOT Roselawn	Newton County
117	Milestone Contractors, L.P.	Newton County
118	Republic Services Newton Co Landfill	Newton County
119	Rose Acre Farms, Inc.	Newton County
120	Ruan Transport Corporation Fair Oaks	Newton County
121	United Telephone Company Indiana DBA CenturyLink Brook	Town of Brook
122	United Telephone Company Indiana DBA CenturyLink Goodland	Town of Goodland
123	United Telephone Company Indiana DBA CenturyLink Kentland	Town of Kentland
124	Verdesian Life Sciences	Town of Kentland
125	Wilson Fertilizer Brook	Town of Brook
126	Wilson Fertilizer Kentland	Town of Kentland
127	Wilson Industrial Sales Co. Goodland	Newton County

Map ID	Warning Siren	Community
128	Siren 01	Town of Morocco
129	Siren 02	Newton County
130	Siren 03	Town of Goodland
131	Siren 04	Town of Goodland
132	Siren 05	Town of Brook
133	Siren 06	Newton County
134	Siren 07	Town of Mount Ayr
135	Siren 08	Town of Kentland
136	Siren 09	Town of Kentland
137	Siren 10	Town of Kentland
138	Siren 11	Newton County
139	Siren 12	Newton County
140	Siren 13	Newton County
141	Siren 14	Newton County
142	Siren 15	Newton County
143	Siren 16	Newton County
144	Siren 17	Newton County
145	Siren 18	Newton County
146	Siren 19	Newton County
147	Siren 20	Newton County

Map ID	WWTP	Community
148	Brook Waste Water	Newton County

Map ID	WWTP	Community
149	Goodland Waste Water	Newton County
150	Kentland Waste Water	Town of Kentland
151	Morocco Waste Water	Newton County

Map ID	Water Tower	Community
152	Brook Water Tower	Town of Brook
153	County Water Tower	Newton County
154	Dairy Water Tower	Newton County
155	Goodland Water Tower	Newton County
156	Kentland Water Tower 1	Town of Kentland
157	Kentland Water Tower 2	Town of Kentland
158	Morocco Water Tower	Town of Morocco

Map ID	Dam	Community
159	JC Murphey Lake Dam	Newton County
160	South Marsh Dam	Newton County

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

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Stream Gage Location	
Site Number	Site Name
05524500	Iroquois River near Foresman
05524546	Hunter Ditch at Goodland
05518000	Kankakee River at Shelby, IN

Major Waterways		
Ade McCray Ditch	Garrard Ditch	Mud Lake Ditch
Baird Ditch	Gregory Ditch	Narrows Ditch
Barten Ditch	Gushwa Ditch	O'Brien Ditch
Battleday Ditch	Haines Ditch	Otis-Boyle Ditch
Beasy Lateral	Hambridge Ditch	Redden Ditch
Beaver Creek	Hanger Ditch	Rich Ditch
Beaver Lake Ditch	Hanley Ditch	Riner Houseworth Ditch
Bergren Ditch	Hibler Ditch	S Garrard Ditch
Best Ditch	Hickory Branch	Salisbury Ditch
Bogus Island Ditch	Hooper Branch	Sheep Ditch
Bonham Ditch	Hunter Ditch	Sheldon Ditch Number 1
Bower Ditch	Iroquois River	Shuey Ditch
Bowton Ditch	Jones Ditch	Spitler Ditch
Camblin Ditch	Kankakee River	Stack Ditch
Carlson Ditch	Kasta Ditch	Strole Ditch
Chizum Ditch	Kent Ditch	Talley Ditch
Clark Ditch	Kirkpatrick Ditch	Templeton Ditch
Cline Ditch	Lawler Ditch	Thompson Ditch
Curtis Creek	Lawler Ditch	Turner Ditch
Darroch Ditch	Lintner Ditch	Wedelburg Ditch
David Ditch	Moffitt Ditch	Weiss Ditch
Deardurff Ditch	Montgomery Ditch	Wentworth Ditch
Deardurff Ditch	Moran Ditch	Whaley Ditch
Defries Ditch	Morrison Ditch Number One	Zaborosky Ditch
Dehaan Ditch	Morrison Ditch Number Two	
Elijah Ditch	Mosquito Creek	

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APPENDIX 6: NCDC HAZARD DATA

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The following data tables indicate those events that have impacted Newton 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 complete tables listing all incidents impacting Newton 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	\$1.0K	\$0K
<u>KENTLAND MUNI ARPT</u>	07/13/2016	Flash Flood	0	0	\$1.0K	\$0.00K
Totals:			0	0	\$1.0K	\$0K

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
Totals:			0	1	\$64.0K	\$0.0K
<u>ENOS</u>	06/21/2010	Thunderstorm Wind	0	0	\$0.50K	\$0.00K
<u>LAKE VLG</u>	05/29/2011	Thunderstorm Wind	0	0	\$0.50K	\$0.00K
<u>ENOS</u>	08/02/2011	Thunderstorm Wind	0	0	\$25.0K	\$0.00K
<u>MAROCCO</u>	04/18/2013	Thunderstorm Wind	0	0	\$3.0K	\$0.00K
<u>KENTLAND</u>	05/31/2013	Thunderstorm Wind	0	0	\$2.0K	\$0.00K
<u>BROOK</u>	05/31/2013	Thunderstorm Wind	0	0	\$2.0K	\$0.00K
<u>ROSELAWN AIRSTrip AR</u>	06/24/2013	Thunderstorm Wind	0	1	\$0.0K	\$0.00K
<u>MOROCCO</u>	06/07/2015	Thunderstorm Wind	0	0	\$20.0K	\$0.00K
<u>EFFNER</u>	07/21/2017	Thunderstorm Wind	0	0	\$10.0K	\$0.00K
<u>KENTLAND</u>	07/21/2017	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
Totals:			0	1	\$64.0K	\$0.0K

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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#LLLI>

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>

Pre-Disaster Mitigation Program

The Pre-Disaster Mitigation (PDM) program provides technical and financial assistance to States and local governments for cost-effective pre-disaster hazard mitigation activities that complement a comprehensive mitigation program, and reduce injuries, loss of life, and damage and destruction of property. FEMA provides grants to States and Federally recognized Indian tribal governments that, in turn, provide sub-grants to local governments (to include Indian Tribal governments) for mitigation activities such as planning and the implementation of projects identified through the evaluation of natural hazards.

Previous Activities Funded: Acquisition and/or relocation of flood-prone properties, Drainage/stormwater management projects, and hazard mitigation planning activities.

<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/>

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/Levee 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/Levee 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/Levee 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; 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/Levee 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/Levee 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
Newton County		Newton County MHMP – 2010 and 2020 serve as a multi-jurisdictional approach to emergency planning.	Newton County Economic Development Commission	
Town of Brook				
Town of Goodland				
Town of Kentland				
Town of Morocco				
Town of Mount Ayr				

Ordinances	Zoning Ordinance	Subdivision Control Ordinance	Stormwater Ordinance	Burning Ordinance	Water Conservation Ordinance
Newton County					
Town of Brook					
Town of Goodland					
Town of Kentland					
Town of Morocco					
Town of Mount Ayr					

Programs	NFIP	CRS	Tree City	Storm Ready	Mutual Aid Agreements
Newton County	180179#	No	No	Yes	Yes Fire, Police, EMS
Town of Brook	180180#	No	Yes	Yes	
Town of Goodland	180181#	No	No	Yes	
Town of Kentland	180182A	No	No	Yes	
Town of Morocco	180301A	No	No	Yes	
Town of Mount Ayr		No	Yes	Yes	

Studies/Maps	FIRMs	Evacuation Routes	Vulnerable Populations	At-Risk Structures	River Basin Partnership
Newton County	05/04/2015				
Town of Brook	05/04/2015				
Town of Goodland	NSFHA				
Town of Kentland					
Town of Morocco	05/04/2015(M)				
Town of Mount Ayr					

Staffing	Building/ Planning	GIS	Engineer / Surveyor	Street/ Highway	Floodplain Admin
Newton County	Glen Cain, Building Commissioner	Schneider Corp is a contract service provider	Chris Knochel, County Surveyor	David Pluimer, Highway Superintendent	Glen Cain, Building Commissioner
Town of Brook					Jeff Snodgrass
Town of Goodland					
Town of Kentland				Richard Purdy, Public Works	Judy King, Clerk-Treasurer
Town of Morocco					
Town of Mount Ayr					

APPENDIX 10: IMPLEMENTATION CHECKLIST

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MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2025 STATUS
Building Protection 1. Protect existing critical facilities in floodplains <i>(Will assist with NFIP compliance)</i>	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input 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	Ongoing – 1. George Ade Center, Sumava Resort Improvement Club, NIPSCO Substation, and Brook water tower are located in SFHA Proposed Enhancements – 1. Complete studies to determine needs to protect each facility and make improvements as able	High	
Flood Studies and Protection 1. Conduct detailed flood protection studies for problem areas and/or areas with repetitive flooding problems 2. Prepare a detailed Flood Response Plan to improve response and reduce losses from a flood event <i>(Will assist with NFIP compliance)</i>	<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	Ongoing – 1. Studies have been completed for various areas throughout the county Proposed Enhancements – 1. Evaluate local areas with repetitive flooding and prepare county prioritized listing for additional studies 2. Prioritize areas in need of Flood Response Plan and develop team to prepare plan	High	
Community Rating System 1. Investigate potential to reduce flood insurance premiums through participation in the NFIP's CRS Program. <i>(Will assist with NFIP compliance)</i>	<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	Ongoing – 1. No communities currently participate in the CRS program Proposed Enhancement – 1. Participation from Newton County	Moderate	
Land Use Planning & Zoning 1. Incorporate hazard information, risk assessment, and hazard mitigation practices into the Comprehensive Land Use Plan and Development Review to better guide future growth and development	<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	Ongoing – Proposed Enhancement – 1. Update the Newton County Comprehensive Plan and include information related to hazards, more definitively outline higher risk areas and those that should be avoided for future development	Moderate	

MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2025 STATUS
Transportation 1. Complete transportation survey to determine typical types and quantities of chemicals being transported throughout Newton County	<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	Ongoing – Proposed Enhancement – 1. Complete updated commodity flow study for Newton County focusing on Interstate 65, US Routes, and rail lines	Moderate	
Water Conservation 1. Research and adopt a water conservation ordinance and contingency plans to implement during water shortages	<input checked="" type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input checked="" 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 type="checkbox"/> HazMat Incident	Ongoing – Proposed Enhancement – 1. Review existing ordinances, and if needed, propose water conservation ordinance	Moderate	
Emergency Response & Recovery 1. Inventory needs for mobile data terminals and/or upgrades in prioritized response vehicles and purchase and install as feasible 2. Establish procedures to evacuate the population in known hazard areas 3. Coordinate communications, documentation, and record keeping between communities and agencies including a database of accurate and community specific information following each hazard events 4. Investigate reciprocal agreements between neighboring communities/counties for structural inspections following hazardous events 5. Establish a water rescue team in Newton County 6. Investigate most efficient and protected method to back up county and municipal records	<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	Ongoing – 1. Some departments have needed equipment, Fire/EMS struggle; Goodland not equipped 2. Evacuation procedures have been developed for hazmat incidents 3. Post event information is provided in varying degrees 4. Many communities have Mutual Aid for medical, fire, and police response efforts 6. Backup of records occurs in varied levels within each community Proposed Enhancement – 1. Inventory hardware/software needs to equip prioritized vehicles 2. Establish procedures to evacuate areas during floods 3. Create a more consistent reporting and documentation effort following hazard events 4. Investigate ability to enter into similar agreements for activities related to structural inspections or other activities following hazard events 5. Establish a county team for dive, swift water, and water rescues 6. Establish location of remote back up storage in accordance with COG/COOP outline	High <i>(data terminals, evacuations, recordkeeping,)</i> Moderate <i>(reciprocal agreements, water rescue team)</i> Low <i>(records back-up)</i>	

MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2025 STATUS
Safer Rooms and Community Shelters 1. Research incentives for private buildings with approved safe rooms 2. Develop temporary and/or long-term shelter agreements within the County. Potential for tiered levels of shelters, domestic animal shelters, etc., especially in small communities 3. Clearly advertise location of safe rooms and community shelters for large gatherings of people	<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 type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	Ongoing – 2. Shelters locations are spaced throughout the county as available and as needed Proposed Enhancement – 1. Research incentives and provide to structures with approved safe rooms 2. Continue to evaluate shelter locations and needs throughout the county 3. Develop education materials for large gatherings	High <i>(incentives)</i> Moderate <i>(shelter agreements advertise for large gatherings)</i>	
Public Education & Outreach 1. Clearly advertise location of safe rooms and community shelters for large gatherings of people (sporting events, community events, etc.) 2. Establish an FM or AM station to alert the public of weather announcements	<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	Ongoing – Proposed Enhancement – 1. Work with coordinators of events to develop methods of advertising safe locations and evacuation procedures 2. Develop an FM or AM station to provide announcements related to hazards or impending weather	Moderate <i>(advertise safe rooms and shelters)</i> Low <i>(radio station)</i>	