

## **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
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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**Montgomery County Multi-Hazard Mitigation Plan Update**  
Project Team Meeting

Fusion 54  
101 W Main Street  
Crawfordsville IN 47933

September 23, 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 (Montgomery County GIS) x # structures x replacement

25% of structures=100% damage

35% of structures=50% damage

40% of structures=25% damage

**Montgomery County Multi-Hazard Mitigation Plan Update**  
Project Team Meeting

Fusion 54  
101 W Main Street  
Crawfordsville IN 47933

September 23, 2021

9:00 am

**SUMMARY**

**Project Team Members Present:**

Name	Office	Representing
Brandy Allen	City Planning Department	Crawfordsville
Jessica Burget	Emergency Management Agency / Fire Department	Montgomery County / New Richmond
Scott Busenbark	Fire Department	Crawfordsville
Brian Campbell	Emergency Management Agency	Montgomery County
Mike Davis	Mapping Department / Resident	Montgomery County / Ladoga
Shari Harrington	Emergency Management Agency	Montgomery County
Earl Heide	Town Superintendent	Linden
Janet Heide	Clerk – Treasurer	Linden
Tom Klein	County Administrator	Montgomery County
Jake Lough	Highway Department / Resident	Montgomery County / Darlington
Aaron Mattingly	Police Department	Crawfordsville
Chris Moore	Stormwater Department / Resident	Crawfordsville / New Market
James Peck	Engineer's Department	Montgomery County

**Others Present:**

Heather Buck, CBBEL

**1. Welcome and Introductions**

To begin, EMA Director Shari Harrington thanked everyone for attending the meeting and asked those present to introduce themselves. Director Harrington 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 Montgomery County.

**3. Hazard Risk Assessment:**

a) Review Hazard Data

The Committee reviewed the hazards to be studied as determined by Montgomery 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 Montgomery 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 second session will be held to review the listing of the potential mitigation measures and provide a ranking of High, Moderate, or Low.

## **Montgomery County Multi-Hazard Mitigation Plan Update**

Project Team Meeting

Fusion 54  
101 W Main Street  
Crawfordsville IN 47933

September 23, 2021

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

## Montgomery County Multi-Hazard Mitigation Plan Update

Project Team Meeting

Fusion 54  
101 W Main Street  
Crawfordsville IN 47933

September 23, 2021

1:00 pm

### SUMMARY

#### Project Team Members Present:

Name	Office	Representing
Brandy Allen	City Planning Department	Crawfordsville
Jessica Burget	Emergency Management Agency / Fire Department	Montgomery County / New Richmond
Scott Busenbark	Fire Department	Crawfordsville
Brian Campbell	Emergency Management Agency	Montgomery County
Mike Davis	Mapping Department / Resident	Montgomery County / Ladoga
Shari Harrington	Emergency Management Agency	Montgomery County
Earl Heide	Town Superintendent	Linden
Janet Heide	Clerk – Treasurer	Linden
Tom Klein	County Administrator	Montgomery County
Jake Lough	Highway Department / Resident	Montgomery County / Darlington
Aaron Mattingly	Police Department	Crawfordsville
Chris Moore	Stormwater Department / Resident	Crawfordsville / New Market
James Peck	Engineer's Department	Montgomery County

#### Others Present:

Heather Buck, CBBEL

#### 1. Welcome and Introductions

Heather and EMA Director Harrington 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

## **Montgomery County Multi-Hazard Mitigation Plan Update**

Project Team Meeting

Montgomery EMA  
1201 Elmore Street  
Crawfordsville IN 47933

December 13, 2021

6:00 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



## Montgomery County Multi-Hazard Mitigation Plan Update

Project Team Meeting

Montgomery EMA  
1201 Elmore Street  
Crawfordsville IN 47933

December 13, 2021

6:00 pm

### SUMMARY

#### Project Team Members Present:

Name	Office	Representing
Shari Harrington	Montgomery County EMA	Montgomery County
Earl Heide	Town Superintendent	Town of Linden
Janet Heide	Clerk Treasurer	Town of Linden

#### Others Present:

Heather Buck, CBBEL

#### 1. Welcome and Introductions

Heather and EMA Director Harrington thanked the Heide's for attending. Introductions were made.

#### 2. Review of the Approach for the MHMP Update

A brief review of the first two sessions was provided.

#### 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 for review and comment. Discussion was had regarding the Town of Linden to provide 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



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



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# **MEDIA RELEASE**

**For Immediate Release**

**Media Release Date:** August 31, 2022

**Contact:** Shari Harrington, Montgomery County EMA (765.364.5154)

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

**Crawfordsville, IN** (August 31, 2022) – Montgomery County, in cooperation with the towns of Alamo, Darlington, Ladoga, Linden, New Market, New Richmond, New Ross, Waveland, Waynetown and Wingate, and the City of Crawfordsville 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, man-made, and technological 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 Montgomery County MHMP Update may be accessed at [www.montgomerycounty.in.gov](http://www.montgomerycounty.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, September 16, 2022. Please submit comments to Shari Harrington at 765.364.5154 or [shari.harrington@montgomerycounty.in.gov](mailto:shari.harrington@montgomerycounty.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	Crawfordsville Airport	Montgomery County

Map ID	Communication Tower	Community
2	Bamish Everett & Mary Elizabeth	Montgomery County
3	Bane Equipment	Montgomery County
4	Bannon Max M	Montgomery County
5	Calhan Mary M	Montgomery County
6	Campbell, Phillip And Karen	Montgomery County
7	CEL&P Electric Co	Montgomery County
8	Chadwick, Delmas	Montgomery County
9	City of Crawfordsville (Commerce Park)	Crawfordsville
10	Clb Development Corp	Crawfordsville
11	Communication Properties LLC	Montgomery County
12	Duke Energy Indiana Inc	Montgomery County
13	Freight Station LLC	Crawfordsville
14	Himes, Mark	Montgomery County
15	Indiana RSA #5 Limited Partners	Crawfordsville
16	Intermedia Partners Southeast (Comcast)	Montgomery County
17	McCutchan, James & Elizabeth	Montgomery County
18	Moore Family Tree Farm	Montgomery County
19	Murphy, Bruce And Lorna	Montgomery County
20	Quality CA TV Inc.	New Market
21	Quiggle, Betty	Montgomery County
22	Radio Tower	Crawfordsville
23	SBA Structures	Montgomery County
24	Tower 5 5 A LLC	Montgomery County
25	Turner Richard E & Beverly J	Lake Holiday CDP
26	Turner, Richard E & Beverly	Montgomery County
27	Unisite LLC	Montgomery County
28	US of America	Montgomery County

Map ID	Daycare	Community
29	Crawfordsville Head Start	Crawfordsville
30	Creation Station Pre-School	Montgomery County
31	Daystar Christian Academy	Crawfordsville
32	Discovery Pre-School	Crawfordsville
33	First United Methodist Church	Crawfordsville
34	Fuzzy Bear Pre-School	Ladoga
35	Giggles N' Grins	Crawfordsville
36	Guiding Light Child Care Minsitries	Crawfordsville
37	Happy Town Daycare	Crawfordsville
38	Joni Flynn	Crawfordsville
39	Kidco Daycare	Crawfordsville
40	Kids Kingdom Pre-School	Montgomery County
41	Kountry Kids Daycare	Lake Holiday CDP
42	Lisa'S Child Care	Linden

Map ID	Daycare	Community
43	Little Creations Daycare	Crawfordsville
44	Montessori School Of Crawfordsville	Crawfordsville
45	New Hope Channel of Wingate	Wingate
46	New Hope Christian Pre-School	Montgomery County
47	Penny E Kadinger	Crawfordsville
48	Rosie's Garden Daycare	Crawfordsville
49	Sonny Acres Daycare	Crawfordsville
50	Sylvan Learning Center	Crawfordsville
51	Teresa J Shubert	Crawfordsville
52	The Story Book House	Crawfordsville
53	Wabash Early Childhood Academy	Crawfordsville
54	Zoey's Zoo Daycare	Ladoga

Map ID	Emergency Operations Center	Community
55	Emergency Operations Center (Backup)	Crawfordsville
56	Emergency Operations Center (Main)	Crawfordsville

Map ID	Fire Stations	Community
57	Coal Creek Fire & Rescue	Wingate
58	Crawfordsville Fire District 1	Crawfordsville
59	Crawfordsville Fire District 2	Crawfordsville
60	Darlington Fire Dept	Darlington
61	Linden Fire Dept	Linden
62	New Ladoga Fire Dept	Ladoga
63	New Market Fire Dept	Montgomery County
64	New Richmond Fire Dept	New Richmond
65	New Ross Fire Dept	New Ross
66	Old Ladoga Fire Dept	Ladoga
67	Ripley Township Fire Dept	Alamo
68	Waveland Fire Dept	Waveland
69	Wayne Township Fire Dept	Waynetown

Map ID	Hazardous Materials Handlers	Community
70	811055-Crown Castle-CRAWFORDSVILLE	Crawfordsville
71	Acuity Brands Lighting, Inc.	Crawfordsville
72	Acuity Brands Lighting, Inc.	Crawfordsville
73	Amerigas	Montgomery County
74	Amerigas	Montgomery County
75	AT&T Indiana	Crawfordsville
76	Atco Rubber Products, Inc. - Indianapolis	Crawfordsville
77	Banjo Corp.	Montgomery County
78	Ceres Solutions Cooperative 202	Crawfordsville
79	Ceres Solutions Cooperative 220	Montgomery County
80	Ceres Solutions Cooperative 248	Montgomery County
81	Ceres Solutions Cooperative 260	Wingate

Map ID	Hazardous Materials Handlers	Community
82	Ceres Solutions Cooperative 260	Montgomery County
83	Closure Systems International Incorporated	Crawfordsville
84	Closure Systems International Incorporated	Crawfordsville
85	Closure Systems International Incorporated	Crawfordsville
86	Closure Systems International Incorporated	Crawfordsville
87	Crawford Industries LLC	Crawfordsville
88	CRAWFORDSVILLE ESS - N11113	New Market
89	Crawfordsville Headend	Montgomery County
90	Crawfordsville Regen	Crawfordsville
91	Crawfordsville Substation	Montgomery County
92	Crown Beverage Packaging	Crawfordsville
93	Darlington	Montgomery County
94	DARLINGTON CDO - N11117	Darlington
95	Ferrellgas DBA Skelgas	Montgomery County
96	Ferrellgas DBA Skelgas Incorporated	Crawfordsville
97	Gavilon - Whitesville	Montgomery County
98	Gavilon Grain	Montgomery County
99	Helena Agri Enterprises	Montgomery County
100	Heritage Products Inc	Crawfordsville
101	Indiana American Water	Montgomery County
102	Indiana American Water Company	Montgomery County
103	International Paper	Crawfordsville
104	Irving Materials, Inc.	Montgomery County
105	Irving Materials, Inc.	Montgomery County
106	Koch Fertilizer, LLC - Crawfordsville Terminal	Montgomery County
107	Ladoga (Indy Propane)	Montgomery County
108	LADOGA CDO - N11166	Ladoga
109	LSC Communications Crawfordsville North	Crawfordsville
110	LSC Communications Crawfordsville South	Crawfordsville
111	Mervis Recycling	Montgomery County
112	Mt Tabor Mixing Station	Montgomery County
113	NEW MKT CDO - N11142	New Market
114	Nucor Steel	Montgomery County
115	Overpeck Gas Company, Inc	Montgomery County
116	Pace Dairy Foods of Indiana	Crawfordsville
117	Pilot Travel Center 247	Montgomery County
118	Raybestos Powertrain LLC	Crawfordsville
119	Speedway 7346	Crawfordsville
120	Steel Technologies LLC	Montgomery County
121	The Home Depot Store #8918	Crawfordsville
122	Tipmont REMC	Linden
123	United Parcel Service Crawfordsville	Crawfordsville
124	US Aggregates - Crawfordsville Plant	Montgomery County
125	Valero Linden Plant	Montgomery County
126	Walmart Pharmacy DC 6028	Crawfordsville
127	WAVELAND CDO - N11190	Waveland
128	WAYNETOWN CDO - N11196	Waynetown
129	Whitesville Mill Service	Montgomery County

Map ID	Hazardous Materials Handlers	Community
130	Whitesville Substation	Montgomery County
131	Winfield United - Crawfordsville	Montgomery County

Map ID	Health Care Facilities	Community
132	Achillies Podiatry Group	Crawfordsville
133	Active Podiatry	Crawfordsville
134	All Smiles Dental	Crawfordsville
135	Andre & Justice DDS	Crawfordsville
136	API Minor Emergency Clinic	Crawfordsville
137	Ben Hur Nursing Home	Crawfordsville
138	Bickford Assisted Living	Crawfordsville
139	Crawfordsville Eye Care	Crawfordsville
140	Crawfordsville Pediatric Center	Crawfordsville
141	Crawfordsville Proactive MD	Crawfordsville
142	Diagnostic And Surgical Center	Crawfordsville
143	Eastside Family Medicine	Crawfordsville
144	Family Care Pediatrics Allergy/Asthma	Crawfordsville
145	Franciscan Physician Network Southside Family Medi	Crawfordsville
146	Franciscan Sports Therapy And Rehab	Crawfordsville
147	Franciscan St. Elizabeth Health Hospital	Crawfordsville
148	Gentle Family Foot Care	Crawfordsville
149	Gordon Boyd Optometry	Crawfordsville
150	Greenacres Family Medicine	Crawfordsville
151	Hickory Creek Nursing Home	Crawfordsville
152	Indiana Home Care Plus	Crawfordsville
153	Internal Medicine & Surgical Specialist	Crawfordsville
154	Internal Medicine And Surgical Specialist	Crawfordsville
155	Janet Rucker DDS	Crawfordsville
156	Lane House Nursing Home	Crawfordsville
157	Ledgewood Eye Care	Crawfordsville
158	Magnante Eye Care	Crawfordsville
159	Marie Canine Cancer Center	Crawfordsville
160	Maze Family Dental	Crawfordsville
161	Morse Dentistry	Crawfordsville
162	Northridge Family Medicine	Crawfordsville
163	Northridge Internal Medicine	Crawfordsville
164	Nuvision Optical	Crawfordsville
165	Orthopedics & Sports Medicine	Crawfordsville
166	Rasmussen Family Dentistry	Crawfordsville
167	Scot White Dentistry	Ladoga
168	Sleep Center	Crawfordsville
169	St Elizabeth Home Health Care	Crawfordsville
170	St. Vincent Health Care	Crawfordsville
171	Star Ambulance	Crawfordsville
172	Star Ambulance	Crawfordsville
173	Sugar Creek Eye Care	Crawfordsville
174	Sugar Creek Smiles Dentistry	Crawfordsville

Map ID	Health Care Facilities	Community
175	The Kids Dentist	Crawfordsville
176	"The Montgomery County Free Clinic	Crawfordsville
177	Walker Dentistry	Crawfordsville
178	Wellbrook Assisted Living	Crawfordsville
179	Whitlock Place Nursing Home	Crawfordsville
180	Witham Speciality Services	Crawfordsville
181	Women's Health Services	Crawfordsville
182	Women's Health Specialists	Crawfordsville

Map ID	Law Enforcement	Community
183	Crawfordsville	Crawfordsville
184	Darlington	Darlington
185	Ladoga	Ladoga
186	Linden	Linden
187	Montgomery County	Crawfordsville
188	New Market	Montgomery County
189	New Richmond	New Richmond
190	New Ross	New Ross
191	Waveland	Waveland
192	Waynetown	Waynetown
193	Wingate	Wingate

Map ID	Military Installation	Community
194	Indiana National Guard Armory	Crawfordsville

Map ID	Parks	Community
195	Shades State Park	Montgomery County

Map ID	Potable Water	Community
196	Crawfordsville Water Treatment (American Water)	Montgomery County
197	Ladoga Water Treatment Facility	Ladoga
198	Linden Water Treatment Facility	Linden
199	New Market Water Facility	New Market
200	New Richmond Water Treatment Facility	New Richmond
201	Waveland Water Treatment Facility (American Water)	Montgomery County
202	Wingate Water Treatment Facility	Montgomery County

Map ID	Power Substations	Community
203	Big Four	Crawfordsville
204	Dry Branch	Crawfordsville
205	Duke Energy Sub Station	Montgomery County
206	Elm St.	Crawfordsville
207	Grace Ave.	Crawfordsville



Map ID	Power Substations	Community
208	Kentucky St.	Crawfordsville
209	Memorial Dr.	Crawfordsville
210	North St.	Crawfordsville
211	Parke Co Rural Electric (REMC)	Montgomery County
212	Public Service Co of Indiana, Inc	Ladoga
213	Public Service Co of Indiana, Inc	Montgomery County
214	Public Service Co of Indiana, Inc	Montgomery County
215	Public Service Co of Indiana, Inc	Montgomery County
216	Spann Ave.	Crawfordsville
217	Tipmont REMC Office	Linden
218	Tipmont REMC Substation	Montgomery County
219	Tipmont REMC Substation	Montgomery County
220	Tipmont REMC Substation	Montgomery County
221	Wabash Valley Power Associates	Montgomery County
222	West St.	Crawfordsville

Map ID	Schools	Community
223	Crawfordsville High School	Crawfordsville
224	Ivy Tech Community College	Crawfordsville
225	Joseph A Tuttle Middle School	Crawfordsville
226	Ladoga Elementary School	Ladoga
227	Laura Hose Elementary School	Crawfordsville
228	Lester B Sommer Elementary School	Montgomery County
229	Meredith Nicholson Elementary School	Crawfordsville
230	Mollie B Hoover Elementary School	Crawfordsville
231	New Market Elementary School	New Market
232	North Montgomery High School	Montgomery County
233	Northridge Middle School	Montgomery County
234	Pleasant Hill Elementary School	Montgomery County
235	South Montgomery High School	Montgomery County
236	South Montgomery Junior High School	Montgomery County
237	Sugar Creek Elementary School	Montgomery County
238	Wabash College	Crawfordsville
239	Walnut Elementary School	Montgomery County
240	Wilson Kindergarten Center	Crawfordsville

Map ID	Transportation	Community
241	Amtrak Train Station	Crawfordsville

Map ID	Wastewater Treatment Plant	Community
242	Crawfordsville Wastewater Facility	Crawfordsville
243	Darlington Wastewater Facility	Darlington
244	Ladoga Wastewater Facility	Montgomery County
245	Linden Wastewater Facility	Linden
246	Little Raccoon Regional Sewer (Waveland)	Montgomery County

Map ID	Wastewater Treatment Plant	Community
247	Montgomery County Regional Sewer District	Montgomery County
248	New Market Wastewater Facility	Montgomery County
249	New Richmond Wastewater Facility	Montgomery County
250	New Ross Wastewater Facility	Montgomery County
251	Waynetown Wastewater Facility	Waynetown
252	Wingate Wastewater Facility	Montgomery County

Map ID	Dams	Community
d1	Alamo Cons. Club Dam	Montgomery County
d2	Big Raccoon Creek Dam (In-Channel)	Montgomery County
d3	Crawfordsville Community Sportsmen's Club Lake Dam	Montgomery County
d4	Crawfordsville Energy LLC Dam (In-Channel)	Crawfordsville
d5	Lake Holiday Dam	Lake Holiday
d6	Lake Vista Dam	Montgomery County
d7	Little Raccoon Dam No.8 - Waveland Lake Dam	Montgomery County
d8	Morrison Lake Dam	Montgomery County
d9	Shades Pond Dam	Montgomery County
d10	Sugar Creek Dam--54-4	Montgomery County

Map ID	Large Employers	Community
e1	Accelerated Rehab Ctr Ltd	Crawfordsville
e2	Accelplus	Crawfordsville
e3	Acuity Brands Lighting Inc	Crawfordsville
e4	Amc Classic Crawfordsville 8	Crawfordsville
e5	Applebee's	Crawfordsville
e6	Bane-welker Equipment	Montgomery County
e7	Bane Equipment Sales	Montgomery County
e8	Banjo Corp	Montgomery County
e9	Ben Hur Health & Rehab	Crawfordsville
e10	California Pellet Mill Co	Crawfordsville
e11	Container The Americas Tin	Crawfordsville
e12	Cracker Barrel Old Country Str	Crawfordsville
e13	Crawford Industries	Crawfordsville
e14	Crawfordsville Community High	Crawfordsville
e15	Crawfordsville High School (Admin Bldg)	Crawfordsville
e16	Crawfordsville Middle School	Crawfordsville
e17	Crown Cork & Seal Co Inc	Crawfordsville
e18	Franciscan St Elizabeth Health	Crawfordsville
e19	Franciscan St Elizabeth Health	Crawfordsville
e20	Heritage Products	Crawfordsville
e21	Home Depot	Crawfordsville
e22	Hose School	Crawfordsville
e23	Indiana Department of Transportation	Montgomery County
e24	Indiana Home Care Plus	Crawfordsville
e25	Kroger	Crawfordsville
e26	Kroger	Crawfordsville

Map ID	Large Employers	Community
e27	Lane House	Crawfordsville
e28	Lester B Sommer Elementary Sch	Montgomery County
e29	LSC Communications	Crawfordsville
e30	Mc Donald's	Crawfordsville
e31	Mc Donald's	Crawfordsville
e32	Meredith Nicholson Elementary	Crawfordsville
e33	Montgomery County Sheriff	Crawfordsville
e34	New Market Elementary School	New Market
e35	Nor-cote International Inc	Crawfordsville
e36	North Montgomery High School	Montgomery County
e37	North Montgomery School Corp	Montgomery County
e38	Northridge Middle School	Montgomery County
e39	Northridge Middle School	Crawfordsville
e40	Nucor Steel	Montgomery County
e41	Pace Dairy Foods of Indiana	Crawfordsville
e42	Pizza Hut	Crawfordsville
e43	Random House Inc	Crawfordsville
e44	Raybestos Products Co	Crawfordsville
e45	Sodexo	Crawfordsville
e46	Southmont Sr High School	Montgomery County
e47	Temple Inland	Crawfordsville
e48	Tipmont REMC	Linden
e49	United Steelworkers	Crawfordsville
e50	UPS Customer Ctr	Crawfordsville
e51	US Post Office	Crawfordsville
e52	Valero Renewables	Montgomery County
e53	Walmart Supercenter	Crawfordsville
e54	Weaver Popcorn Co	Montgomery County
e55	Wellbrooke Of Crawfordsville	Crawfordsville
e56	Wesley Thrift Shop	Crawfordsville

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

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Stream Gage Location	
Site Number	Site Name
03339305	Sugar Creek (IN) near Thorntown
03339500	Sugar Creek (IN) at Crawfordsville

Major Waterways		
Big Raccoon Creek	Honey Creek	Old Shoe Branch
Black Creek	Indian Creek	Rass Clore Branch
Bowers Creek	Joseph Ludlow Ditch	Rattlesnake Creek
Charles Ludlow Ditch	Karnes Creek	Romney Fraley Ditch
Clarkson Ditch	Lick Creek	Smith Branch
Compton Branch	Little Creek	Sommer Ditch
Cornstalk Creek	Little Potato Creek	South Fork Little Raccoon Creek
Cross Ditch	Little Raccoon Creek	Spencer Branch
Davis Branch	Little Sugar Creek	Stillwater Creek
Demeree Creek	Lye Creek	Stoddard Ditch
Dewey Ditch	Lye Creek Drain	Stonebraker Branch
Dry Branch	McFarland Ditch	Sugar Creek
Dry Run	Mill Creek	Sugar Mill Creek
East Fork Coal Creek	Mud Run	Turkey Run
Gray Ditch	Needham Booher Ditch	Walnut Fork Sugar Creek
Haw Creek	North Fork Coal Creek	Withe Creek
Hazel Creek	Offield Creek	

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## **APPENDIX 6: NCDC HAZARD DATA**



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The following data tables indicate those events that have impacted Montgomery 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 Montgomery 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>
<b>Totals:</b>			<b>0</b>	<b>0</b>	<b>\$8.5K</b>	<b>\$3.0K</b>
LINDEN	5/1/2016	Flood	0	0	\$0.5K	\$0.5K
DARLINGTON	9/25/2018	Flood	0	0	\$5.0K	\$0.5K
LINDEN	6/5/2019	Flash Flood	0	0	\$1.0K	\$0.0K
LINDEN	6/5/2019	Flash Flood	0	0	\$1.0K	\$1.0K
BOWERS	6/5/2019	Flood	0	0	\$1.0K	\$1.0K
<b>Totals:</b>			<b>0</b>	<b>0</b>	<b>\$8.5K</b>	<b>\$3.0K</b>

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
<b>Totals:</b>			<b>0</b>	<b>0</b>	<b>\$75.0K</b>	<b>\$0.0K</b>
CRAWFORDSVILLE	6/7/2015	Thunderstorm Wind	0	0	\$1.0K	\$0.0K
CRAWFORDSVILLE	7/13/2015	Thunderstorm Wind	0	0	\$3.0K	\$0.0K
CRAWFORDSVILLE	5/26/2017	Thunderstorm Wind	0	0	\$5.0K	\$0.0K
CRAWFORDSVILLE	5/26/2017	Thunderstorm Wind	0	0	\$7.0K	\$0.0K
LADOGA	7/11/2017	Thunderstorm Wind	0	0	\$8.0K	\$0.0K
KIRKPATRICK	11/18/2017	Thunderstorm Wind	0	0	\$12.0K	\$0.0K
WAYNETOWN	5/23/2019	Thunderstorm Wind	0	0	\$25.0K	\$0.0K
LINDEN	6/5/2019	Thunderstorm Wind	0	0	\$5.0K	\$0.0K
WAYNETOWN	6/16/2019	Thunderstorm Wind	0	0	\$1.0K	\$0.0K
NEW MARKET	7/20/2019	Thunderstorm Wind	0	0	\$1.0K	\$0.0K
CRAWFORDSVILLE ARPT	7/11/2020	Thunderstorm Wind	0	0	\$1.0K	\$0.0K
WHITESVILLE	12/11/2021	Thunderstorm Wind	0	0	\$1.0K	\$0.0K
LADOGA	12/11/2021	Thunderstorm Wind	0	0	\$5.0K	\$0.0K
<b>Totals:</b>			<b>0</b>	<b>0</b>	<b>\$75.0K</b>	<b>\$0.0K</b>

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
<b>Totals:</b>			<b>0</b>	<b>0</b>	<b>\$75.0K</b>	<b>\$0.0K</b>
CRAWFORDSVILLE	8/24/2016	Tornado – EF2	0	0	\$75.0K	\$0.00K
<b>Totals:</b>			<b>0</b>	<b>0</b>	<b>\$75.0K</b>	<b>\$0.0K</b>

## **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](http://www.americanrivers.org/site/PageServer?pagename=AMR_content_d156)

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

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

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

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

### **Community Development Block Grants**

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

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

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

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

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

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

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

### **Community Rating System**

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

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

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

### **Conservation Reserve Program**

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

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

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

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

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

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

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

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

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

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

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

### **Emergency Conservation Program**

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

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

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

### **Environmental Quality Incentive Program**

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

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

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

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

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

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

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

### **Emergency Watershed Protection Program**

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



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

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

### **Farmland Protection Program**

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

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

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

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

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

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

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

### **Flood Mitigation Assistance Program**

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

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

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

### *Hazards Mitigation Grant Program*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

### **Indiana Rural Development Council**

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

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

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

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

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

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

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

### **Indiana Transportation Enhancements Program**

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

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

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

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

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

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

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

### **Low Interest Loan Incentives**

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

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

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

### **National Flood Insurance Program**

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

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

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

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

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

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

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

### **Petroleum Remediation Grant Incentive**

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

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

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

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

### **Public Assistance Grant Program**

FEMA's Public Assistance (PA) Grant Program allows State and Local governments and Non-Profit Organizations to respond to disasters, to recover from their impact and to mitigate impact from future disasters. The PA Program provides the basis for consistent training and credentialing of staff who administer the

program; more accessible and understandable guidance and policy for participating in the grant program; improved customer service through a more efficient grant delivery process, applicant-centered management, and better information exchange; and continuing performance evaluations and program improvements.

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

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

### **Purdue Cooperative Extension Service**

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

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

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

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

### **Severe Repetitive Loss**

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

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

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

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

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

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

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

### **Volunteer Fire Assistance Program**

The purpose of the Volunteer Fire Assistance (VFA) Program, formerly known as the Rural Community Fire Protection (RCFP) Program, is to provide Federal financial, technical, and other assistance to State foresters to train, and equip fire departments in rural areas and rural communities to prevent and suppress fires. A rural community is defined as having 10,000 or less population. This 10,000-population limit for participation in the VFA Program facilitates distribution of available VFA funding to the most needy fire departments. The funding must be matched on a 50-50% basis by non-federal dollars or in-kind.

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

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

### **Weatherization Assistance Program**

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

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

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

### **Wetland Reserve Program**

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

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

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

### **Wildlife Habitat Incentive Program**

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

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

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

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## **APPENDIX 8: CRS CHECKLIST**



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CRS 10-Step Planning Process	Max. Points	Est. Points	Comments
<b>1. Organize and Prepare the Plan</b>	<b>15</b>	<b>13</b>	
Involvement of office responsible for community planning	4	4	Table 1-1 lists Planning Committee name, title, and department/agency represented
Planning committee of department staff	9	9	Table 1-1 lists Planning Committee name, title, and department/agency represented
Process formally created by the community's governing board	2	0	
<b>2. Involve the Public</b>	<b>120</b>	<b>60</b>	
Planning process conducted through a planning committee	60	30	Appendix 2 contains Planning Committee meeting agendas and summaries; Planning Committee reviewed draft MHMP, assisted with public review, and assisted with local adoption
Public meetings held at the beginning of the planning process	15	0	
Public meeting held on the draft plan	15	15	Full draft presented to the public; draft plan made available for public review on webpage, EMA office, Planning Office
Other public information activities to encourage input	30	15	Plan posted to website, press release; outreach flyer
<b>3. Coordinate with Other Agencies</b>	<b>35</b>	<b>25</b>	
Review of existing studies and plans ( <b>required</b> )	5	5	Conducted a Community Capability Assessment to better understand existing mitigation programs, policies, and projects
Coordinating with communities and other agencies	30	20	Appendix 3 includes the invitation sent to the surrounding County EMA Directors; IDNR, FEMA and IDHS involved in planning process
<b>4. Assess the Hazard</b>	<b>35</b>	<b>35</b>	
Map of known flood hazards	5	5	Exhibit illustrates FIRM floodplains as well as the location of critical facilities.
Description of known flood hazards	5	5	Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains
Discussion of past floods	5	5	Section provides an overview of the most recent floods of note as identified by the Planning Committee, local media sources, and NCDC data; Table shows Repetitive Loss numbers; Table shows flood insurance claims
Plan includes assessment of less frequent floods	10	10	Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains
Plan includes assessment of areas likely to flood	5	5	Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains
Describes other natural hazards (required DMA)	5	5	Section 3 includes information related to Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials
<b>5. Assess the Problem</b>	<b>52</b>	<b>34</b>	
Summary of hazard and impact on community ( <b>required</b> )	2	2	Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Impact on life, safety, health, procedures for warning and evacuation	5	5	Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Fire; Flood; Hailstorm, Thunderstorm, and Windstorm; Land Subsidence; Tornado; Winter Storm and Ice; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Impact on public health including health hazards to floodwater/mold	5		
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
Montgomery County	2019	<b>Montgomery County MHMP</b> – 2016 and 2022 serve as a multi- jurisdictional approach to emergency planning.	Montgomery County Economic Development Department  Tom Klein, Interim Director	Little Sugar Creek Upper Sugar Creek
Town of Alamo	<i>With Montgomery County</i>			
City of Crawfordsville	2017			
Town of Darlington	<i>With Montgomery County</i>			Upper Sugar Creek
Town of Ladoga	<i>With Montgomery County</i>			
Town of Linden	<i>With Montgomery County</i>			
Town of New Market	<i>With Montgomery County</i>			
Town of New Richmond	<i>With Montgomery County</i>			
Town of New Ross	<i>With Montgomery County</i>			
Town of Waveland	<i>With Montgomery County</i>			
Town of Waynetown	<i>With Montgomery County</i>			
Town of Wingate	<i>With Montgomery County</i>			

Ordinances	Zoning Ordinance	Subdivision Control Ordinance	Stormwater Ordinance	Burning Ordinance	Water Conservation Ordinance
Montgomery County	Ch 159 (2019)		Ch 154 (2020)		
Town of Alamo	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
City of Crawfordsville	Chapter 153 (2009)				
Town of Darlington	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of Ladoga	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of Linden	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of New Market	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of New Richmond	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of New Ross	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of Waveland	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of Waynetown	<i>With Montgomery County</i>		<i>With Montgomery County</i>		
Town of Wingate	<i>With Montgomery County</i>		<i>With Montgomery County</i>		

Programs	NFIP	CRS	Tree City	Storm Ready	Mutual Aid Agreements
Montgomery County	180445#	No	No	Yes	Yes Fire, Police, EMS
Town of Alamo		No	No	Yes	
City of Crawfordsville	180171#	No	No	Yes	
Town of Darlington	180321#	No	No	Yes	
Town of Ladoga	180172#	No	No	Yes	
Town of Linden		No	No	Yes	
Town of New Market		No	No	Yes	
Town of New Richmond		No	No	Yes	
Town of New Ross		No	No	Yes	
Town of Waveland	180174#	No	No	Yes	
Town of Waynetown	180175#	No	No	Yes	
Town of Wingate		No	No	Yes	

Studies/Maps	FIRMs	Evacuation Routes	Vulnerable Populations	At-Risk Structures	River Basin Partnership
Montgomery County	2/2/2012	HazMat			No
Town of Alamo		HazMat			No
City of Crawfordsville	2/2/2012	HazMat, FRP			No
Town of Darlington	2/2/2012	HazMat			No
Town of Ladoga	2/2/2012	HazMat			No
Town of Linden		HazMat			No
Town of New Market		HazMat			No
Town of New Richmond		HazMat			No
Town of New Ross		HazMat			No
Town of Waveland	NSFHA	HazMat			No
Town of Waynetown	2/2/2012	HazMat			No
Town of Wingate		HazMat			No

Staffing	Building/ Planning	GIS	Engineer / Surveyor	Street/ Highway	Floodplain Admin
Montgomery County	Marc Bonwell, Building Administrator	Michael Davis Mapping Director	Tom Cummins Surveyor	Jake Lough Highway Director	Marc Bonwell, Building Administrator
Town of Alamo	<i>With Montgomery County</i>				
City of Crawfordsville	Brandy Allen, Director			Scott Hesler Street Commissioner	
Town of Darlington	<i>With Montgomery County</i>				Michelle Cash, Clerk Treasurer
Town of Ladoga	<i>With Montgomery County</i>				
Town of Linden	<i>With Montgomery County</i>				
Town of New Market	<i>With Montgomery County</i>				
Town of New Richmond	<i>With Montgomery County</i>				
Town of New Ross	<i>With Montgomery County</i>				
Town of Waveland	<i>With Montgomery County</i>				Susie Calvert Clerk Treasurer
Town of Waynetown	<i>With Montgomery County</i>				Marc Bonwell, Building Administrator
Town of Wingate	<i>With Montgomery County</i>				



## **APPENDIX 10: IMPLEMENTATION CHECKLIST**

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MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2027 STATUS
<b>Community Rating System</b> 1. Investigate potential to reduce flood insurance premiums through additional 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	<b>Ongoing –</b>  <b>Proposed Enhancement –</b> 1. Participation from Montgomery County and/or City of Crawfordsville	High	
<b>Emergency Response &amp; Recovery</b> 1. 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> 2. Develop a Standard Operating Procedure for interactions and assistance between snowplows and response vehicles to clear paths for emergencies <i>(2016 Measure)</i> 3. Establish procedures using CodeRed to alert and evacuate the populations in known hazard areas (routinely flooded areas, floodplains, dam failure areas) <i>(2016 Measure)</i> 4. Inventory needs for mobile data terminals, including software and hardware upgrades, for response vehicles and purchase as feasible <i>(2016 Measure)</i>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Ongoing –</b> 1. Post-event information is provided in varying degrees 3. CodeRed is utilized throughout Montgomery County 4. Some vehicles have terminals in place  <b>Proposed Enhancement –</b> 1. Create a more consistent reporting and documentation effort following hazard events 2. Develop and train responders on procedures for snowplows to assist response vehicles as needed 3. Utilize CodeRed to develop hazard areas, pre-scripted messages and at-risk residents. 4. Inventory and prioritize all response vehicles throughout the county and purchase needed equipment as able	High	
<b>Flood Studies and Protection</b> 1. Conduct detailed flood studies for problem areas and/or areas with repetitive flooding problems or poor drainage <i>(2016 Measure)</i> 2. Develop fluvial erosion hazard overlay districts to further protect area and mitigate impacts from future stream movements  <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 checked="" type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<b>Ongoing –</b> 1. Studies are completed as funding becomes available 2. Base fluvial erosion hazard areas completed for the state  <b>Proposed Enhancements –</b> 1. Prioritize listing of needed studies and continue to complete as funding becomes available 2. Develop overlay districts with more specific studies	High	

MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2027 STATUS
<b>Hazardous Materials Response Team</b> 1. Increase number of personnel for fire departments and emergency response teams as well as those certified to create a Montgomery County HazMat Response Team 2. Propose and adopt an Ordinance allowing response teams to recoup expenses following clean-ups of hazmat spills	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Ongoing –</b>  <b>Proposed Enhancement –</b> 1. Additional personnel should be trained to a higher response qualification as appropriate, and a county response team is developed 2. Propose and adopt the Ordinance allowing response teams to recoup expenses	High	
<b>Geographic Information Systems</b> 1. Update and coordinate GIS layers with location and attributes of critical infrastructure <i>(2016 Measure)</i> 2. 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> 3. Update HAZUS-MH model with local soil data for more accurate damage estimates <i>(2016 Measure)</i>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Ongoing –</b> 1. GIS layers have been developed and are utilized by the County GIS which serves all municipalities  <b>Proposed Enhancements –</b> 1. Update layers as necessary and include relevant information as new layers are created 2. Provide training opportunities for GIS staff related to HAZUS-MH. 3. Update GIS and HAZUS-MH with local soil data	Moderate	
<b>Power Backup Generators</b> 1. Inventory presence of generators, appropriate wiring, switches, and fuel supplies at critical facilities 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	<b>Ongoing –</b> 2. Many critical facilities have generators or have added since the last plan  <b>Proposed Enhancements –</b> 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	
<b>Safe Rooms and Community Shelters</b> 1. Inventory areas of need and work to establish safer rooms and community shelters in vulnerable locations (mobile home parks, critical facilities, development without basements) <i>(2016 Measure)</i>	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input 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 type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<b>Ongoing –</b> 1. Many buildings have plans on where to go in the event of a hazard  <b>Proposed Enhancement –</b> 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
<b>Building Protection</b> 1. Inventory and prioritize structures within the Fluvial Erosion Hazard area for buyout or relocation 2. Relocate, buyout, or floodproof existing non-critical facilities that are subject to repetitive flooding <i>(2016 Measure)</i> 3. Protect existing critical facilities in floodplains <i>(2016 Measure)</i>  <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 checked="" 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	<b>Ongoing –</b> 1. Some structures along Sugar Creek in the fluvial erosion hazard area have been identified 3. One structure in Crawfordsville is a RepLoss structure  <b>Proposed Enhancements –</b> 1. Obtain funding and purchase properties before structures are damaged 2. Create a prioritized list of structures to be relocated, bought out, or floodproofed within each municipality 3. Determine most appropriate measures to protect critical facilities located in the SFHA	High <i>(Fluvial Erosion)</i>  Moderate <i>(buyouts, existing critical facilities)</i>	
<b>Emergency Preparedness &amp; Warning</b> 1. Post information and/or warning signs in local parks and other public gathering places explaining outdoor warning sirens, what to do in case of a hazard event, and local radio stations that carry emergency information. <i>(2016 Measure)</i> 2. Increase awareness and following for EMA and response agency’s social media accounts 3. Purchase mobile message boards to provide current hazard information 4. Inventory and prioritize needs related to cyber-security, records back-up and technology to protect systems during and following a hazardous event 5. Create bilingual notifications and hazard preparedness materials (insurance needs, warning sirens, go-kits, hazard information) as well as purchase translators for responders 6. Investigate the potential to develop a siren fund through payments made during development of a subdivision or industrial/commercial areas <i>(2016 Measure)</i> 7. Evaluate flood forecasting capabilities including stream gages, flood forecast maps, and flood alerts <i>(2016 Measure)</i> 8. Install permanent dynamic message board on I-74 to provide current hazard information <i>(2016 Measure)</i>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<b>Ongoing –</b> 2. EMA and other response agencies utilize social media 3. The county has purchased three mobile message boards since the last planning effort 4. County IT is working to strengthen technology systems 5. Limited Spanish materials have been created  <b>Proposed Enhancements –</b> 1. Post information in parks and other gathering places 2. Increase following for social media accounts and increase informational postings from agencies to the public 3. Purchase three additional message boards for use within the county 4. Continue to strengthen systems, train staff, and develop cyber-security protocols 5. Create alternate forms of printed and voiced messaging in Spanish in an attempt to reach additional residents 6. Create a fund to have developers pay into a fund for additional outdoor warning sirens 7. Install additional stream gages at Darlington and Shades 8. Install permanent message board on I-74 at heavily traveled locations	High <i>(post information, social media, mobile message boards, cyber security)</i>  Moderate <i>(bilingual notifications,, siren fund, stream gages, message board)</i>	