

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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Howard County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Family Services Association of Howard County
618 South Main Street
Kokomo IN 46901

September 10, 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 (Howard County GIS) x # structures x replacement

25% of structures=100% damage

35% of structures=50% damage

40% of structures=25% damage

Howard County Multi-Hazard Mitigation Plan Update
Project Team Meeting

Family Services Association of Howard County
618 South Main Street
Kokomo IN 46901

September 10, 2020

9:00 am

SUMMARY

Project Team Members Present:

Name	Office	Representing
Victoria Colaizzi	Kokomo/Howard County Planning Commission	City of Kokomo/Howard County
Janice Hart	Howard County EMA	Howard County
Rhonda Hill	Kokomo/Howard County Planning Commission	City of Kokomo/Howard County
Mark Lantz	Town Council	Town of Greentown
Austin McClain	City of Kokomo Police Department	City of Kokomo
Don Paruin	Town Council	Town of Russiaville
Greg Sheline	Kokomo/Howard County Planning Commission	City of Kokomo/Howard County
Kristina Sommers	Howard County Health Department	Howard County
Kori Wood	Howard County EMA	Howard County

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

To begin, Planning Director Greg Sheline and EMA Director Janice Hart 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 Howard County.

3. Hazard Risk Assessment:

a) Review Hazard Data

During each session, the Committee reviewed the hazards to be studied as determined by Howard 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 2014 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 Howard 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.

Howard County Multi-Hazard Mitigation Plan Update

Project Team Meeting

Family Services Association of Howard County
618 South Main Street
Kokomo IN 46901

September 10, 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

Howard County Multi-Hazard Mitigation Plan Update

Project Team Meeting

Family Services Association of Howard County
618 South Main Street
Kokomo IN 46901

September 10, 2020

1:00 pm

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Don Paruin	Town Council	Town of Russiaville
Greg Sheline	Kokomo/Howard County Planning Commission	City of Kokomo/Howard County
Kristina Sommers	Howard County Health Department	Howard County
Kori Wood	Howard County EMA	Howard County

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

Heather and Planning Director Sheline 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 2014 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 22, 2021

Contact: Greg Sheline, Howard County Planning Department (765.456.2330)

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

Kokomo, IN (March 22, 2021) – Howard County, in cooperation with Greentown, Kokomo, and Russiaville have prepared an update to the 2014 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 Howard County MHMP Update may be accessed at www.howardcountyin.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, April 1, 2021. Please submit comments to Greg Sheline at 765.456.2330 or gsheline@cityofkokomo.org

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Howard County Multi-Hazard Mitigation Plan 5-Year Update



Please take some time to review and provide comments on the

The 2021 Howard County MHMP Update

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

Your time and efforts are appreciated!

The Howard County Multi-Hazard Mitigation Plan (MHMP) Update is a multi-jurisdictional planning effort led by the Howard County Planning Department. The previous MHMP, adopted in 2014 was the necessary first step of a multi-step process to implement programs, policies, and projects to mitigate the effect of hazards in Howard 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 Howard County as well as to discuss mitigation measures implemented within the last five years.

A copy of the draft MHMP Update is available electronically through www.howardcountyin.gov

Comments will be accepted through April 1, 2021.

Any comments or questions should be directed to Greg Sheline at 765.456.2330 or gsheline@cityofkokomo.org

[this will be updated when dates have been set and ready for public review]

APPENDIX 4: CRITICAL INFRASTRUCTURE BY COMMUNITY

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Map ID	Airport	Community
1	Glendale Airport	Howard County
2	Kokomo Municipal Airport	Howard County

Map ID	Apartments	Community
3	Annex of Kokomo - IUK	Kokomo
4	Apperson Way Apartments	Kokomo
5	Fox Acres Apartments	Kokomo
6	Kingston Square Apartments	Kokomo
7	The Residences at Washington Street	Kokomo
8	Union @ Washington Apartments	Kokomo
9	University Park – IUK	Kokomo
10	Westbrook Apartments	Kokomo

Map ID	Church	Community
11	Abundant Life Church	Kokomo
12	Bible Baptist Church	Kokomo
13	Bon Air Nazarene	Kokomo
14	Brookside Free Methodist Church	Kokomo
15	Carver Community Center	Kokomo
16	Christian Life Fellowship	Greentown
17	Church of Brethren	Kokomo
18	Crossroads Community Church	Kokomo
19	Crossroads Community Church – N. Campus	Kokomo
20	First Christian Church	Kokomo
21	First Church of Nazarene	Kokomo
22	Grace United Methodist Church	Kokomo
23	Hemlock Friends Church	Howard County
24	Macedonia Christian Church	Howard County
25	New Hope Church	Kokomo
26	Northview Church	Kokomo
27	Redeemer Lutheran Church	Kokomo
28	Seventh Day Adventist	Kokomo
29	Southside Christian Church	Kokomo
30	St. Luke's United Methodist	Kokomo

Map ID	Communication	Community
31	WIOU 1350	Kokomo
32	WKGK-LP CH 48	Kokomo
33	WWKI CH 263	Howard County
34	WZWZ CH 223	Kokomo

Map ID	Community Gathering Place	Community
35	Bon Vista Programs	Kokomo
36	Bona Vista Community Connections	Kokomo
37	Champion Park	Kokomo
38	Foster Park	Kokomo
39	Hotel/Convention Ctr/Parking Garage	Kokomo
40	Kokomo Beach	Kokomo
41	Kokomo Events & Conference Center	Kokomo
42	Kokomo Family YMCA	Kokomo
43	Kokomo Memorial Gymnasium	Kokomo
44	Kokomo Municipal Stadium	Kokomo
45	Kokomo Speedway	Kokomo
46	Markland Mall	Kokomo
47	United Way Building	Kokomo

Map ID	Dam	Community
48	Joseph Falladori Dam	Howard County
49	Kokomo Creek Dam (In-Channel)	Kokomo
50	Kokomo Waterworks Dam #3 (In-Channel)	Kokomo
51	Kokomo Waterworks Off Channel Dam	Howard County
52	Kokomo Waterworks Reservoir #2 Dam	Howard County
53	Wildcat Creek Dam (In-Channel)	Kokomo

Map ID	Emergency Management Agency	Community
54	Kokomo Emergency Management	Kokomo

Map ID	Emergency Medical Services	Community
55	Community/Kokomo EMS Ambulance Station	Kokomo
56	Quality Care Ambulance	Kokomo
57	St. Vincent/Kokomo EMS	Kokomo

Map ID	Event Center	Community
58	Kokomo Event Center	Kokomo

Map ID	Fire Station	Community
59	Burlington Volunteer Fire Department	Outside Howard County
60	Converse Volunteer Fire Department	Outside Howard County
61	Galveston Volunteer Fire Department	Outside Howard County
62	Greentown Volunteer Fire Department	Greentown
63	Harrison Twp. Volunteer Fire Dept.	Kokomo
64	Kokomo Fire Department - Sta #1	Kokomo
65	Kokomo Fire Department - Sta #2	Kokomo
66	Kokomo Fire Department - Sta #3	Kokomo
67	Kokomo Fire Department - Sta #4	Kokomo

Map ID	Fire Station	Community
68	Kokomo Fire Department - Sta #5	Kokomo
69	Kokomo Fire Department - Sta #6	Kokomo
70	Russiaville Volunteer Fire Department	Russiaville
71	Sharpsville Volunteer Fire Department	Outside Howard County
72	Taylor Twp. Volunteer Fire Department	Kokomo
73	Wildcat Twp. Volunteer Fire Department	Outside Howard County
74	Young America Vol. Fire Department	Outside Howard County

Map ID	Government	Community
75	City of Kokomo – City Building	Kokomo
76	Howard County Administration	Kokomo
77	Howard County Annex	Kokomo
78	Howard County Courthouse	Kokomo
79	Howard County EMA – Berkley Complex	Kokomo
80	Howard County Work Release Center	Kokomo
81	Kinsey Youth Center	Kokomo

Map ID	Hazardous Material Handler	Community
82	Airgas USA LLC	Kokomo
83	Allied Tupe	Kokomo
84	Amerigas	Russiaville
85	Amerigas - Tenbrook Sales	Kokomo
86	Ceres Solutions	Kokomo
87	Comcast of IL/IN/OH, LLC - Kokomo	Kokomo
88	Crown Castle	Howard County
89	Delphi Electronics & Safety	Kokomo
90	Delphi Morgan Street Operations	Kokomo
91	Duke Energy - Greentown Maple St Substation	Greentown
92	Duke Energy - Greentown Substation	Howard County
93	Duke Energy - Kokomo AppersonWay 69KV Sub	
94	Duke Energy - Kokomo Chrysler North Substation	Kokomo
95	Duke Energy - Kokomo Chrysler South	Kokomo
96	Duke Energy - Kokomo Delco Electronics Substation	Kokomo
97	Duke Energy - Kokomo East Substation	Howard County
98	Duke Energy - Kokomo Judson Pike Substation	Howard County
99	Duke Energy - Kokomo Operations Center	Kokomo
100	Duke Energy - Kokomo South Main St Substation	Kokomo
101	Duke Energy - Kokomo Southeast Substation	Kokomo
102	Duke Energy - Kokomo Touby Pike Substation	Kokomo
103	Duke Energy - Kokomo Webster Substation	Kokomo
104	Duke Energy - Russiaville Substation	Howard County
105	E & B Paving	Kokomo
106	E & B Paving	Kokomo
107	FCA Kokomo Transmission Plant	Kokomo
108	FCA US LLC	Kokomo
109	FCA US LLC - Indiana Transmission Plant	Kokomo

Map ID	Hazardous Material Handler	Community
110	GM Components Holdings, LLC	Kokomo
111	GPM Investments - Village Pantry	
112	Haynes International	Kokomo
113	Indiana American Water Company	Kokomo
114	Indiana American Water Company	Howard County
115	Indiana American Water-Kokomo/Russiaville WTP	Russiaville
116	Indiana Bell Telephone Company/AT&T Indiana	Greentown
117	Indiana Bell Telephone Company/AT&T Indiana	Kokomo
118	Indiana Bell Telephone Company/AT&T Indiana	Kokomo
119	Indiana Bell Telephone Company/AT&T Indiana	Russiaville
120	Indiana Michigan Power Company Greentown Station	Howard County
121	INDOT - Greenfield Districts	Howard County
122	Irving Materials Incorporated	Kokomo
123	Kokomo Opalescent Glass Co., Inc.	Kokomo
124	Kokomo Post Office	Kokomo
125	Lowe's Home Centers, LLC	Kokomo
126	Meijer Store #141	Kokomo
127	New Cingular Wireless PCS, LLC	Howard County
128	NuCO2	Kokomo
129	Omnisource Corporation	Kokomo
130	Penske Truck Leasing Company	Kokomo
131	Republic Services - Davis Road Transfer Station	Kokomo
132	Sam's Club 6424	Kokomo
133	Speedway 1213	Kokomo
134	Speedway 5149	Kokomo
135	Speedway 5154	Kokomo
136	Speedway 5162	Kokomo
137	Speedway 5163	Kokomo
138	Speedway 8062	Kokomo
139	Speedway 8063	Kokomo
140	Sunbelt Rentals, Inc	Kokomo
141	Syndicate Sales Incorporated	Kokomo
142	Tate Soaps & Surfactants, Inc.	Kokomo
143	United Parcel Service Kokomo	Kokomo
144	Verizon Wireless	Russiaville
145	Waste Management of Central Indiana	Kokomo
146	XPO Logistics Freight, Inc.	Kokomo

Map ID	Health/Hospital	Community
147	Alterra Sterling House of Kokomo	Kokomo
148	Assisted Living Facility	Kokomo
149	Bona Vista – Meridian Park	Kokomo
150	Century Villa Health Care	Greentown
151	Community Howard Regional Hospital	Kokomo
152	Community Howard Specialty Hospital	Kokomo
153	Community Howard Surgery Center	Kokomo
154	Fairmont Rehabilitation Center	Kokomo

Map ID	Health/Hospital	Community
155	Indiana Health Centers	Kokomo
156	Jackson Street Commons	Kokomo
157	Kindred Care And Rehab Kokomo	Kokomo
158	North Woods Village	Kokomo
159	Residence of North Woods Assisted Living	Kokomo
160	Sargent Place Supportive Housing	Kokomo
161	Silver Birch Assisted Living	Kokomo
162	Sober living Facility	Kokomo
163	St. Vincent Hospital - Kokomo Asension Healthcare	Kokomo
164	Sycamore Village Healthcare Center	Kokomo
165	Waterford Place Health Campus	Kokomo
166	Wellbrooke of Kokomo	Kokomo

Map ID	Jail	Community
167	Howard County Criminal Justice Center	Kokomo

Map ID	Police Station	Community
168	City Building - Kokomo Police Department	Kokomo
169	Greentown Police Department	Greentown
170	Howard County Criminal Justice Center	Kokomo
171	Kokomo Police Department - Substation	Kokomo
172	Russiaville Police Department	Russiaville

Map ID	Potable Water	Community
173	Indiana American Water Co Inc	Kokomo

Map ID	School	Community
174	Acacia Academy	Kokomo
175	Bon Air Elementary School	Kokomo
176	Boulevard Elementary School	Kokomo
177	Chapel Hill Christian School	Kokomo
178	Children's Christian Academy	Kokomo
179	Darrough Chapel School	Kokomo
180	Eastern Elementary School	Greentown
181	Eastern Howard School Corporation Admin	Greentown
182	Eastern Middle/High School	Greentown
183	Elwood Haynes Elementary School	Kokomo
184	Excel Center - Kokomo	Kokomo
185	Howard Elementary School	Howard County
186	Indiana University - Kokomo Campus	Kokomo
187	Indiana Wesleyan University - Kokomo	Kokomo
188	Ivy Tech Community College	Kokomo
189	Ivy Tech Community College Main Campus	Kokomo
190	Kokomo Area Career Center	Kokomo

Map ID	School	Community
191	Kokomo Center School Bus Station	Kokomo
192	Kokomo Central Middle School	Kokomo
193	Kokomo High School	Kokomo
194	Kokomo School Corporation Admin	Kokomo
195	Lafayette Park Elementary School	Kokomo
196	Lincoln Elementary School	Kokomo
197	Maple Crest Career School	Kokomo
198	Maple Crest Middle School	Kokomo
199	McKinley Alternative School	Kokomo
200	Northwestern Elementary	Howard County
201	Northwestern Jr-Sr High School	Howard County
202	Northwestern Middle School	Howard County
203	Northwestern School Corporation	Kokomo
204	Pettit Park Elementary School	Kokomo
205	Redeemer Lutheran School	Kokomo
206	Ross Medical Education Center	Kokomo
207	St. Joan of Arc & Patrick School St. Joan of Arc Campus	Kokomo
208	St. Joan of Arc & Patrick School St. Patrick Campus	Kokomo
209	Sycamore Elementary School	Kokomo
210	Taylor Community School Corporation	Howard County
211	Taylor Elementary School	Kokomo
212	Taylor High School	Howard County
213	Temple Baptist Church/School	Kokomo
214	Wallace Elementary School	Kokomo
215	Western High School	Howard County
216	Western Intermediate School	Howard County
217	Western Middle School	Howard County
218	Western Primary School	Howard County

Map ID	Wastewater Treatment Plant	Community
219	City of Kokomo	Kokomo
220	Continental Steel Corporation	Kokomo
221	Greentown Wastewater Treatment Plant	Greentown
222	New London CD Wastewater Treatment Plant	Howard County
223	Russiaville Wastewater Treatment Plant	Russiaville

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

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Stream Gage Location	
Site Number	Site Name
03333450	Wildcat Creek near Jerome
03333700	Wildcat Creek at Kokomo

Major Waterways		
Barrett Ditch	Hook Run	Pickering Ditch
Beard Ditch	Hutcherson Ditch	Pint Run
Brunk Ditch	Irwin Creek	Prairie Run
Burchard Davison Ditch	Kiddle Ditch	Reed Ditch
Butler Ditch	Kitty Run	Roberts Ditch
Cannon-Goyer Ditch	Kokomo Creek	Rome Run
Charles Templeton Ditch	Lawn Run	Ruzicka Drain
Claw Creek	Little Deer Creek	Sarah Holipeter Ditch
Copper Creek	Little Pipe Creek	Scott-Youngman Ditch
Copper Ditch	Little Wildcat Creek	Shambaugh Run
Dearinger Ditch	Locus Ditch	Shockney Ditch
Deer Creek	Loop Drain	Sims Drain
Dell Wood Branch	Lynn Run	Smith Ditch
Duncan Ditch	Manson Kingery Ditch	South Fork Deer Creek
East Fork Little Wildcat Creek	Martin-Youngman Ditch	Spring Run
Edwards Ditch	Mathias Young Ditch	Squirrel Creek
Finn Ditch	Matthew Anaker Ditch	Stahl Ditch
Fisher Ditch	Matthew Howell Ditch	Sugar Creek
Freeman Ditch	McDowell Ditch	Taylor Run
Gillam Ditch	McKay Dredge Ditch	Tributary Number One
Grant Howard Ditch	Michael Hallihan Ditch	Tributary Number Two
Grassy Fork	Miller Ditch	Villa Run
Green Run	Moon Barclay Ditch	W N Henderson Ditch
Harness Ditch	Moore Ditch	Walnut Fork
Harper Ditch	Mud Creek	West Fork Little Wildcat Creek
Harrison-Harlan Ditch	Mugg-Ingels Ditch	West Honey Creek
Hartman Ditch	Overman Ditch	Wildcat Creek
Henry Gilbert Ditch	Peck Run	William Vogus Ditch
Honey Creek	Petes Run	Wimmer Ditch

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APPENDIX 6: NCDC HAZARD DATA

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The following data tables indicate those events that have impacted Howard 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 Howard 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	\$338.50K	\$0.0K
KOKOMO	6/18/2014	Flood	0	0	\$0.5K	\$0.00K
INDIAN HGTS	5/20/2017	Flash Flood	0	0	\$100.0K	\$0.00K
KOKOMO	7/11/2017	Flash Flood	0	0	\$200.0K	\$0.00K
KOKOMO	5/28/2019	Flash Flood	0	0	\$2.0K	\$0.00K
KOKOMO	5/28/2019	Flash Flood	0	0	\$25.0K	\$0.00K
KOKOMO	5/28/2019	Flash Flood	0	0	\$10.0K	\$0.00K
KOKOMO	6/19/2019	Flood	0	0	\$1.0K	\$0.00K
Totals:			0	0	\$338.50K	\$0.0K

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
Totals:			0	0	\$190.50K	\$0.0K
KOKOMO	6/18/2015	Thunderstorm Wind	0	0	\$0.75K	\$0.00K
RUSSIAVILLE	6/23/2016	Thunderstorm Wind	0	0	\$30.0K	\$0.00K
GREENTOWN	4/26/2017	Thunderstorm Wind	0	0	\$10.0K	\$0.00K
SYCAMORE	4/26/2017	Thunderstorm Wind	0	0	\$10.0K	\$0.00K
KOKOMO	7/23/2017	Thunderstorm Wind	0	0	\$13.0K	\$0.00K
KAPPA CORNER	9/04/2017	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
KAPPA CORNER	10/06/2018	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
KOKOMO	5/19/2019	Thunderstorm Wind	0	0	\$1.5K	\$0.00K
KOKOMO	5/19/2019	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
KAPPA CORNER	5/23/2019	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
KOKOMO	5/23/2019	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
SYCAMORE	5/23/2019	Thunderstorm Wind	0	0	\$3.0K	\$0.00K
KOKOMO	5/26/2019	Thunderstorm Wind	0	0	\$35.0K	\$0.00K
KOKOMO	5/28/2019	Thunderstorm Wind	0	0	\$10.0K	\$0.00K

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
HOWARD (ZONE)	11/27/2019	High Wind	0	0	\$40.0K	\$0.00K
CASSVILLE	6/10/2020	Hail	0	0	\$15.0K	\$0.00K
GREENTOWN	6/10/2020	Hail	0	0	\$0.5K	\$0.00K
GREENTOWN	6/10/2020	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
SYCAMORE	6/10/2020	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
CENTER	6/10/2020	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
PHLOX	6/10/2020	Thunderstorm Wind	0	0	\$0.5K	\$0.00K
JEROME	6/10/2020	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
ALTO	6/27/2020	Thunderstorm Wind	0	0	\$0.25K	\$0.00K
KOKOMO	7/8/2020	Thunderstorm Wind	0	0	\$4.0K	\$0.00K
KOKOMO	7/21/2020	Thunderstorm Wind	0	0	\$2.0K	\$0.00K
KOKOMO	8/10/2020	Thunderstorm Wind	0	0	\$5.0K	\$0.00K
KOKOMO	8/10/2020	Thunderstorm Wind	0	0	\$1.0K	\$0.00K
Totals:			0	0	\$190.5K	\$0.0K

<u>Location</u>	<u>Date</u>	<u>Type</u>	<u>Death</u>	<u>Injury</u>	<u>PrD</u>	<u>CrD</u>
Totals:			0	20	\$10.104M	\$5.0K
SYCAMORE	8/15/2016	Tornado – EF0	0	0	\$8.0K	\$0.00K
KOKOMO RUZICKA ARPT	8/24/2016	Tornado – EF3	0	20	\$10.0M	\$0.00K
KAPPA CORNER	8/24/2016	Tornado – EF1	0	0	\$50.0K	\$0.00K
INDIAN HGTS	8/24/2016	Tornado – EF0	0	0	\$10.0K	\$0.00K
RUSSIAVILLE	8/24/2016	Tornado – EF1	0	0	\$20.0K	\$5.00K
ALTO	8/24/2016	Tornado – EF0	0	0	\$15.5K	\$0.00K
Totals:			0	20	\$10.104M	\$5.0K

APPENDIX 7: POTENTIAL FUNDING SOURCES

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Assistance to Firefighters Grant

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

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

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

Challenge 21, Floodplain

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

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

http://www.americanrivers.org/site/PageServer?pagename=AMR_content_d156

Clean Water State Revolving Loan Fund

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

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

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

Community Development Block Grants

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

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

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

Community Facilities Grants and Loans

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

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

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

Community Rating System

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

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

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

Conservation Reserve Program

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

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

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

Department of Interior Rural Fire Assistance Program

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

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

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

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

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

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

http://www.federalgrantswire.com/disposal_of_federal_surplus_real_property_for_parks_recreation_and_historic_monuments.html

Emergency Conservation Program

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

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

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

Environmental Quality Incentive Program

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

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

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

Emergency Rehabilitation of Flood Control Works

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

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

http://www.federalgrantswire.com/emergency_rehabilitation_of_flood_control_works_or_federally_authorized_coastal_protection_works.html

Emergency Watershed Protection Program

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

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

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

Farmland Protection Program

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

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

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

Fire Prevention & Safety Grant

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

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

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

Flood Mitigation Assistance Program

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

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

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

Hazards Mitigation Grant Program

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

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

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

Hazardous Materials Emergency Preparedness Grant

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

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

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

Indiana Family and Social Services Administration

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

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

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

Indiana Resource Conservation & Development Districts

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

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

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

Indiana Rural Development Council

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

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

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

Indiana State Revolving Loan Fund

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

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

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

Indiana Transportation Enhancements Program

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

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

http://www.enhancements.org/statecontacts_TE.asp

Land and Water Conservation Fund

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

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

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

Low Interest Loan Incentives

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

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

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

National Flood Insurance Program

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

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

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

Office for Domestic Preparedness Terrorism Formula Grants

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

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

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

Petroleum Remediation Grant Incentive

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

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

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

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

Public Assistance Grant Program

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

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

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

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

Purdue Cooperative Extension Service

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

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

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

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

Severe Repetitive Loss

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

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

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

Staffing for Adequate Fire and Emergency Response Grants

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

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

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

Volunteer Fire Assistance Program

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

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

www.fs.fed.us/fire/planning/vfa

Weatherization Assistance Program

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

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

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

Wetland Reserve Program

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

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

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

Wildlife Habitat Incentive Program

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

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

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

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APPENDIX 8: CRS CHECKLIST

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

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

APPENDIX 9: COMMUNITY CAPABILITY ASSESSMENT

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Plans	Comprehensive Plan	Local Emergency Plan	Economic Development	Watershed Plan
Howard County	2003	Howard County MHMP – 2014 and 2021 serve as a multi-jurisdictional approach to emergency planning.	Howard County Economic Development Commission	
Town of Greentown				
City of Kokomo	2017			
Town of Russiaville				

Ordinances	Zoning Ordinance	Subdivision Control Ordinance	Stormwater Ordinance	Burning Ordinance	Water Conservation Ordinance
Howard County	2010				
Town of Greentown			#1990-3		
City of Kokomo					
Town of Russiaville					

Programs	NFIP	CRS	Tree City	Storm Ready	Mutual Aid Agreements
Howard County	180414A	Yes - 8	No	No	Yes Fire, Police, EMS
Town of Greentown	180513A	No	No	No	
City of Kokomo	180093A	No	No	No	
Town of Russiaville	180427A	No	Yes	No	

Studies/Maps	FIRMs	Evacuation Routes	Vulnerable Populations	At-Risk Structures	River Basin Partnership
Howard County	02/04/2015				
Town of Greentown	02/04/2015(M)				
City of Kokomo	02/04/2015				
Town of Russiaville	02/04/2015(M)				

Staffing	Building/ Planning	GIS	Engineer / Surveyor	Street/ Highway	Floodplain Admin
Howard County	Greg Sheline, Executive Director	Schneider provides contracted services	Dave Duncan, County Surveyor	Amber Tolle, Superintendent	Greg Sheline, Executive Director
Town of Greentown	Garry Hill, Planning Commission Administrator				Garry Hill, Planning Commission Administrator
City of Kokomo	Mike Besser, Plan Commission President		Carey Stranahan, City Engineer		
Town of Russiaville				Craig Thompson, Utility Supervisor	Megan Reel, Clerk-Treasurer

APPENDIX 10: IMPLEMENTATION CHECKLIST

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MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2026 STATUS
<p>Emergency Response & Recovery</p> <ol style="list-style-type: none"> 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>(2014 Measure)</i> 2. Investigate reciprocal agreements between neighboring communities/counties for structural inspections following hazardous events 3. Investigate most efficient and protected method to back up county and municipal records 4. Create mobile EOC with additional equipment 5. Purchase additional sand bagging equipment 	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <ol style="list-style-type: none"> 1. Post-event information is provided in varying degrees 2. Many communities have Mutual Aid for medical, fire, and police response efforts 3. Municipal offices have varying protocols for records backup 5. Sand bagging efforts and plans exist in various areas <p>Proposed Enhancement –</p> <ol style="list-style-type: none"> 1. Create a more consistent reporting and documentation effort following hazard events 2. Investigate ability to enter into similar agreements for activities related to structural inspections or other activities following hazard events 3. Establish consistent protocols regarding records back up throughout the county 4. Establish fully functional mobile EOC within the county 5. Additional equipment would make the efforts more efficient for some areas and types of events 	High	
<p>Flood Studies and Protection</p> <ol style="list-style-type: none"> 1. Conduct detailed flood protection studies for problem areas and/or areas with repetitive flooding problems <i>(2014 Measure)</i> 2. Develop floodplain overlay districts to further protect area and mitigate impacts as recommended in the Wildcat Creek Stream Stability Study <p><i>(Will assist with NFIP compliance)</i></p>	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <ol style="list-style-type: none"> 1. Studies are completed as funding becomes available 2. Study completed <p>Proposed Enhancements –</p> <ol style="list-style-type: none"> 1. Prioritize listing of needed studies and continue to complete as funding becomes available 2. Implement recommendations included in the Study 	High	
<p>Transportation</p> <ol style="list-style-type: none"> 1. Complete transportation survey to determine typical types and quantities of chemicals being transported throughout Howard County 2. Inventory and prioritize installation or upgrades of warning (flashing lights, crossing arms, rumbles trips, signage) at each intersection between rail and road to reduce the potential for train/vehicular crashes 	<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	<p>Ongoing –</p> <ol style="list-style-type: none"> 2. Various types of warnings are used at most rail crossings throughout the county <p>Proposed Enhancement –</p> <ol style="list-style-type: none"> 1. Complete commodity flow study for Howard County focusing on US Routes and rail lines 2. Inventory rail crossings and determine best warning type for those without 	High	

MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2026 STATUS
<p>Community Rating System</p> <p>1. Investigate potential to reduce flood insurance premiums through additional participation in the NFIP's CRS Program. <i>(2014 Measure)</i></p> <p><i>(Will assist with NFIP compliance)</i></p>	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <p>1. City of Kokomo currently participates in the CRS program at a Class 8</p> <p>Proposed Enhancement –</p> <p>1. Participation from Howard County</p>	Moderate	
<p>Geographic Information Systems</p> <p>1. Train GIS staff in HAZUS-MH to quantitatively estimate losses in “what if scenarios” and continue to use the most recent GIS data in land use planning efforts <i>(2014 Measure)</i></p>	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <p>1. GIS layers have been developed and are utilized by some departments</p> <p>Proposed Enhancements –</p> <p>1. Provide training opportunities for GIS staff related to HAZUS-MH.</p>	Moderate	
<p>Management of Dams</p> <p>1. Review regular inspection reports and maintenance records of dams regardless of ownership <i>(2014 Measure)</i></p>	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <p>1. Kokomo Waterworks Reservoir Dam has an IEAP developed and inspections are completed as required</p> <p>Proposed Enhancements –</p> <p>1. Provide future inspection reports and maintenance records to the EMA Director for review and overall hazard assessment and incorporation into the IEAP</p>	Moderate	
<p>Power Backup Generators</p> <p>1. Secure a fuel reserve, or ensure contractual emergency provisions so critical infrastructure may run on power backup for extended periods of time</p> <p>2. Encourage power backup generators in all critical facilities</p> <p>3. Develop and adopt an ordinance requiring the burial of power lines in new developments or require designed failure-mode that allows lines to fall or fail in small sections only <i>(2014 Measure)</i></p>	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	<p>Ongoing –</p> <p>2. Many critical facilities have generators or have added since the last plan</p> <p>Proposed Enhancements –</p> <p>1. Secure fuel reserves via contract service agreements</p> <p>2. Inventory generator capabilities and needs and prioritize within each community to determine needs for future purchases</p> <p>3. Investigate and propose ordinance language to require burial of power lines in new developments</p>	Moderate	

MITIGATION PRACTICE	HAZARD ADDRESSED	STATUS	PRIORITY	2026 STATUS
Water Conservation 1. Research and adopt a water conservation 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	
Building Protection 1. Relocate, buyout, or floodproof existing non-critical facilities that are subject to repetitive flooding (2014 Measure) 2. Protect existing critical facilities in floodplains (2014 Measure) <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 checked="" type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	Ongoing – 1. Nine structures prioritized; 50 structures currently identified Proposed Enhancements – 1. Continue to work a prioritized list of structures to be relocated, bought out, or floodproofed within each municipality 2. Determine most appropriate measures to protect critical facilities located in the SFHA	High <i>(relocate/ buyout)</i> Moderate <i>(critical facilities)</i>	
Emergency Preparedness & Warning 1. Improve disaster preparedness and emergency response at the local level through the CERT or similar program (2014 Measure) 2. Utilize a hazard broadcast system to distribute mass notifications to residents and visitors (2014 Measure) 3. Purchase mobile message boards to provide current hazard information (2014 Measure) 4. Investigate and propose an ordinance to require developers to pay to install additional sirens for new developments or pay into siren fund as part of new developments 5. Improve outdoor warning siren coverage or complete software upgrades to alert populations of severe weather conditions (2009 Measure) 6. Create bilingual notifications and hazard preparedness materials as well as purchase translators 7. Coordinate with private building owners utilizing large dynamic message boards for business to use during hazard events	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Fire <input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	Ongoing – 1. Nearly 50 volunteers trained through COAD 2. Many county residents subscribe to some mass notification system 3. The county has access to mobile message boards through the District 5. Sirens provide coverage for most populated areas 7. Many private facilities throughout the county operate an electronic message board Proposed Enhancements – 1. Investigate options for CERT or similar programs, implement suitable program in prioritized areas, and provide training throughout the year. 2. Increase participation in countywide hazard notification system 3. Purchase message boards for use in Howard County 4. Propose and adopt an ordinance to have developers pay into a fund for additional outdoor warning sirens 5. Additional sirens in unincorporated areas and software upgrades for existing sirens 6. Create alternate forms of printed and voiced messaging in Spanish in an attempt to reach additional residents 7. Coordinate with facility owners who operate dynamic message boards and provide them with pre-scripted messages to use during hazard events.	High <i>(CERT, mass notifications, mobile message boards, siren ordinance, siren coverage)</i> Moderate <i>(bilingual notifications, private message boards)</i>	

