

APPENDIX 1

List of Acronyms

This page intentionally blank

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

This page intentionally blank

Owen County Multi-Hazard Mitigation Plan Update
Project Team Morning Meeting

Owen County EMA/EOC
129 South Washington Street
Spencer IN 47460

10:00 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. Critical Infrastructure
5. Next Steps
6. Adjournment

Owen County Multi-Hazard Mitigation Plan Update
Project Team Morning Meeting

Owen County EMA/EOC
129 South Washington Street
Spencer IN 47460

10:00 am

SUMMARY

Project Team Members Present:

Shelley Edwards, Spencer Utilities
Richard Foutch, Spencer Police Department
Cynthia Hyde, Spencer Town Council
Jack Johnson, Spencer Police Department
Cris Lunsford, Owen County Emergency Management Services
Jamie Neibel, Gosport Town Council
Sheila Reeves, Owen County Health Department
Jerry Sears, Indiana Department of Homeland Security
Rannix Tinsley, Spencer Police Department
Jack White, Owen County EMA

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

Heather and Jack 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 5 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 NFIP Communities within Owen County.

3. Hazard Risk Assessment:

a) Review Hazard Data

The Committee reviewed the hazards to be studied as determined by Owen County EMA and agreed that these are the hazards which most affect the County. Heather shared data that CBBEL had gathered from the Nation Climatic Data Center (NCDC), local media outlets, and various agencies and offices since the 2010 MHMP was completed.

b) Discuss Vulnerability to Hazards

The Committee was engaged during the discussion 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 will be provided by the Owen County GIS Department, categorized into sectors, and will be 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 meeting, a Public Meeting, 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 morning Committee meeting adjourned and will meet again following a brief lunch session. The afternoon Committee meeting will be utilized to review the listing of the potential mitigation measures and provide a ranking of High, Moderate, or Low.

This page intentionally blank

Owen County Multi-Hazard Mitigation Plan Update

Project Team Afternoon Meeting

Owen County EMA/EOC
129 South Washington Street
Spencer IN 47460

AGENDA

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

Owen County Multi-Hazard Mitigation Plan Update

Project Team Afternoon Meeting

Owen County EMA/EOC
129 South Washington Street
Spencer IN 47460

SUMMARY

Project Team Members Present:

Shelley Edwards, Spencer Utilities
Richard Foutch, Spencer Police Department
Sam Hobbs, Owen County Sheriff
Cynthia Hyde, Spencer Town Council
Cris Lunsford, Owen County Emergency Management Services
Jamie Neibel, Gosport Town Council
Jerry Sears, Indiana Department of Homeland Security
Rannix Tinsley, Spencer Police Department
Jack White, Owen County EMA

Others Present:

Heather Buck, CBBEL

1. Welcome and Introductions

Heather and Jack thanked everyone for attending the meeting. 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 meeting.

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 meeting, the “draft” CPRI was presented. Adjustments were made based on additional discussion with the Committee once they were able to see the final prioritizations.

4. Review and Prioritize Proposed Mitigation Practices

Utilizing the mitigation practices described in the 2010 MHMP and information gathered through the planning process, a list of proposed mitigation practices was presented to the Committee for review and comment. Several members provided insight and input to wording and options for each proposed mitigation measure

5. Next Steps & Future Meetings

It was explained that the next step in the process is to prepare the draft MHMP Update. 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

This page intentionally blank

APPENDIX 3 Public Participation and Involvement of Other Interested Parties

This page intentionally blank

MEDIA RELEASE

For Immediate Release

Media Release Date: September 15, 2016

Contact: Jack White, Owen County Emergency Management Agency (813-829-5035)

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

Spencer, IN (September 15, 2016) – Owen County, in cooperation with the Town of Gosport and the Town of Spencer have prepared an update to the 2010 Multi-Hazard Mitigation Plan (MHMP) to address the risk and vulnerability of communities in the County which may be affected by known natural, technological, and political hazards.

The Disaster Mitigation Act of 2000 (DMA 2000) requires communities to update their MHMP every 5 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 economical impact of that disaster.

The draft Owen County MHMP Update has been placed in the Owen County Emergency Management Agency Office (129 South Washington Street). An electronic version may be accessed through the County's website at www.owencounty.in.gov. 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 30, 2016. Please submit comments to Jack White 813-829-5035 or jack.white@owencounty.in.gov

---END---

Owen County Multi-Hazard Mitigation Plan 5-Year Update



The 2016 Owen County MHMP Update

**A Hard Copy has been
placed:**

**Owen County
Emergency Management
Agency
129 S Washington St
Spencer IN 47460**

The Owen County Multi-Hazard Mitigation Plan (MHMP) Update is a multi-jurisdictional planning effort led by the Owen County Emergency Management Office. The original MHMP, adopted in 2010 was the necessary first step of a multi-step process to implement programs, policies, and projects to mitigate the effect of hazards in Owen 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 5 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 Owen County as well as to discuss mitigation measures implemented within the last 5 years.

A copy of the draft MHMP Update is available at the EMA Office and electronically through the County's website: www.owencounty.in.gov. Comments will be accepted through September 30, 2016.

Any comments or questions should be directed to Jack White at 812-829-5035 or jack.white@owencounty.in.gov.

APPENDIX 4 Critical Infrastructure by NFIP Community

This page intentionally blank

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

Map ID	Communications	NFIP
3	Communications Tower	Owen County
4	Radio Tower	Owen County

Map ID	Community Center	NFIP
5	Freedom Community Center	Owen County
6	Millgrove Community Center	Owen County

Map ID	Dams	NFIP
7	Amazon Lake Dam	Owen County
8	Bass Haven Lake Dam	Owen County
9	Camp Otto Dam	Owen County
10	Dugan Lake Dam	Owen County
11	Dutton Lake Dam	Owen County
12	Ellis Lake Dam	Owen County
13	Graybrook Lake Dam	Owen County
14	Hollybrook Lake Dam	Owen County
15	Locust Lake Dam	Owen County
16	Salter Lake Dam	Owen County
17	Timber Ridge Lake Dam	Owen County
18	Wagner Lake Dam	Owen County
19	Wasatch Lake Dam	Owen County

Map ID	Daycare	NFIP
20	A Joyful Noise	Owen County
21	Church of God Daycare	Spencer
22	Country Mouse City Mouse	Spencer
23	Home Suite Home	Owen County
24	Nazarene Daycare Ministry	Spencer
25	Tiny Town Daycare	Spencer
26	Truesdel Daycare	Spencer

Map ID	Emergency Management	NFIP
27	Owen County Emergency Management	Spencer

Map ID	Emergency Management Services	NFIP
28	Owen County EMS	Spencer

Map ID	Fire Department / EMS	NFIP
29	Cataract Volunteer Fire Department	Owen County
30	Clay Township Fire Company	Owen County
31	Coal City Volunteer Fire Department	Owen County
32	Franklin Township Volunteer Fire Department	Owen County
33	Gosport Volunteer Fire Department	Gosport
34	Owen Valley Volunteer Fire Department	Spencer
35	Patrickburg Community VFD	Owen County
36	Poland Fire Department	Owen County

Map ID	Government	NFIP
37	Coroner's Office/Maintenance Department	Spencer
38	Gosport Town Hall	Gosport
39	Gosport Town Marshal	Gosport
40	Highway Department	Owen County
41	Owen County Court Services	Spencer
42	Owen County Courthouse	Spencer
43	Owen County Fairgrounds	Spencer
44	Owen County Public Library	Spencer
45	Owen County Recycling	Spencer
46	Patrickburg Landfill	Owen County
47	Purdue Extension Office	Spencer
48	Spencer Street Department	Spencer

Map ID	Hazardous Materials Handler	NFIP
49	AT&T Corporation	Owen County
50	Co Alliance LLP Quincy Energy	Owen County
51	Co Alliance LLP Spencer Propane	Owen County
52	Cook Urological, Inc.	Spencer
53	Hoosier Energy PDOC	Owen County
54	Indiana Bell Telephone Company	Spencer
55	INDOT Spencer Unit	Owen County
56	Speedway (5556)	Spencer

Map ID	Hospital / Medical	NFIP
57	IU Health	Spencer
58	IU Health	Gosport

Map ID	Nursing Home	NFIP
59	Gosport Nursing Home	Gosport
60	The Residence at McCormick's Creek	Owen County

Map ID	Police Department	NFIP
61	Gosport Police Department	Gosport
62	Owen County Sheriff Department/Jail	Spencer
63	Spencer Police Department	Spencer

Map ID	Red Cross Shelter	NFIP
64	CUNOT Community Center	Owen County
65	Jefferson Baptist Church	Owen County
66	Owen County Family YMCA	Spencer

Map ID	School	NFIP
67	Hilltop Christian School	Owen County
68	Gosport Elementary School	Gosport
69	McCormick's Creek Elementary School	Owen County
70	Owen Valley High School	Spencer
71	Owen Valley Middle School	Spencer
72	Patrickburg Elementary School	Owen County
73	Spencer Elementary School	Spencer

Map ID	Utilities	NFIP
74	AT&T Junction Station	Owen County
75	BBP Pumphouse	Owen County
76	CCRTC Transfer Station	Owen County
77	Cell Phone Tower (Verizon)	Owen County
78	Cell Tower	Owen County
79	Comcast (Tower)	Owen County
80	Communication Tower	Owen County
81	Community Natural Gas	Spencer
82	Duke Sub Station	Spencer
83	Endeavor	Owen County
84	Endeavor	Owen County
85	Endeavor Communications	Owen County
86	Endeavor Communications	Owen County
87	Endeavor Electronics Hut	Owen County
88	FAA Communications Tower	Owen County
89	Hoosier Energy	Owen County
90	Natural Gas Co.	Owen County
91	Natural Gas Regulator	Spencer
92	Pump House/Water Tower	Owen County
93	Smithville Remote	Owen County
94	Smithville Remote	Gosport
95	Sub Station	Owen County
96	Sub Station	Owen County
97	Sub Station (Cinergy)	Owen County
98	Sub Station (CUNOT)	Owen County
99	Tower	Owen County
100	Water Tower	Owen County
101	Water Tower	Spencer
102	Water Tower	Gosport
103	Water Tower (Eastern Green Co. Utilities)	Owen County

Map ID	Wastewater Treatment	NFIP
104	Gosport WWTP	Owen County
105	Spencer Municipal Waste Water Treatment Plant	Spencer

Map ID	Water Treatment	NFIP
106	BBP Water Corporation	Spencer
107	Gosport Water Department	Gosport

APPENDIX 5 USGS Stream Gage Locations and Major Waterways

This page intentionally blank

Stream Gage Location	
Site Number	Site Name
03357000	White River at Spencer
03360115	Lick Creek near Coal City, IN
03360135	Beech Creek 1.9 miles SE of Coal City, IN
03359980	Jordan Creek near Jordan IN
03358000	Mill Creek near Cataract IN

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

APPENDIX 6 NCDC Hazard Data

This page intentionally blank

The following data tables indicate those events that have impacted Owen County and the communities within. Please note that these tables only provide the information for those incidents where deaths, injuries, or property and/or crop damages were reported through the NCDC. For complete tables listing all incidents impacting Owen County, please visit:

<http://www.ncdc.noaa.gov/stormevents/choosedates.jsp?statefips=18%2CINDIANA>

Location	County/Zone	Date	Type	Dth	Inj	PrD	CrD
Totals:				1	0	9.00K	6.00K
WHITEHALL	OWEN CO.	7/17/2010	Flash Flood	0	0	0.50K	0.50K
SPENCER	OWEN CO.	7/20/2013	Flash Flood	0	0	2.00K	5.00K
ADEL	OWEN CO.	12/21/2013	Flash Flood	1	0	5.00K	0.00K
SPENCER	OWEN CO.	6/24/2014	Flash Flood	0	0	1.00K	0.00K
JORDAN	OWEN CO.	6/24/2018	Flood	0	0	0.50K	0.50K
Totals:				1	0	9.00K	6.00K

Location	County/Zone	Date	Type	Dth	Inj	PrD	CrD
Totals:				0	0	106.25K	0.00K
GOSPORT	OWEN CO.	1/29/2008	Hail	0	0	0.50K	0.00K
SPENCER	OWEN CO.	6/15/2010	Thunderstorm Wind	0	0	10.00K	0.00K
COAL CITY	OWEN CO.	7/17/2010	Thunderstorm Wind	0	0	50.00K	0.00K
VANDALIA	OWEN CO.	7/19/2010	Thunderstorm Wind	0	0	1.00K	0.00K
COAL CITY	OWEN CO.	5/25/2011	Thunderstorm Wind	0	0	25.00K	0.00K
GOSPORT	OWEN CO.	1/23/2012	Thunderstorm Wind	0	0	6.00K	0.00K
GOSPORT	OWEN CO.	7/19/2012	Thunderstorm Wind	0	0	5.00K	0.00K
FREEDOM	OWEN CO.	7/31/2012	Thunderstorm Wind	0	0	10.00K	0.00K
VANDALIA	OWEN CO.	8/16/2012	Hail	0	0	0.50K	0.50K
FREEDOM	OWEN CO.	5/21/2013	Thunderstorm Wind	0	0	15.00K	0.00K
ATKINSONVILLE	OWEN CO.	10/5/2013	Thunderstorm Wind	0	0	7.00K	0.00K
GOSPORT	OWEN CO.	9/10/2014	Thunderstorm Wind	0	0	7.00K	0.00K
PATRICKSBURG	OWEN CO.	6/21/2015	Thunderstorm Wind	0	0	1.50K	0.00K
POTTERSVILLE	OWEN CO.	6/21/2015	Thunderstorm Wind	0	0	1.50K	0.00K
Totals:				0	0	131.0K	1.50K

Location	County/Zone	Date	Type	Mag	Dth	Inj	PrD	CrD
Totals:					0	0	12.00K	0.00K
QUINCY	OWEN CO.	6/24/2014	Tornado	EF0	0	0	12.00K	0.00K
Totals:					0	0	12.00K	0.00K

This page intentionally blank

APPENDIX 7

IMPLEMENTATION CHECKLIST

This page intentionally blank

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
Geographic Information Systems 1. Update and coordinate GIS layers with location and attributes of critical infrastructure 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. 3. Update HAZUS-MH Earthquake model with local soil data for more accurate damage estimates	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <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"/> Wildfire <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High	Ongoing – 1. GIS is used by several communities Proposed Enhancement – 1. Coordinate consistent layers county-wide 2. Additional training for GIS staff 3. Update with local information	
Hazardous Materials Response Team 1. Maintain LEPC reporting and training efforts as required through SARA Title III and ensure current facility maps and response plans are on file for Tier II facilities.	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <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"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High	Ongoing – 1. Records are maintained for most Tier II facilities Proposed Enhancement – 1. Efforts should be strengthened to ensure requirements are met.	
Land Use Planning & Zoning 1. Incorporate hazard information, risk assessment, and hazard mitigation practices into the Comprehensive Land Use Plan and Development Review to better guide future growth and development 2. Establish overlay zones in the Zoning Ordinance to restrict development, especially critical facilities in known hazard areas or require setbacks of noncritical facilities (2010) 3. Encourage the use of innovative planning tools such as open space planning, cluster development, low impact development, greenways development, and conservation easements to limit development in known hazard areas. 4. Conduct a Safe Growth Audit of development plans and codes	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High	Ongoing – 1. Hazard information has been incorporated into some areas of the Comprehensive Land Use Plan Proposed Enhancement – 1. Increase the number of hazards considered, more definitively outline higher risk areas and those that should be avoided for future development 2. Establish overlay zones to restrict development 3. Encourage innovative planning tools for new developments 4. Conduct an Audit of growth practices and plans	

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
Stormwater Management 1. Minimize impacts of flooding by diverting or retaining stormwater onsite using green infrastructure practices 2. Maintain channels and regulated drains to prevent localized flooding 3. Encourage watershed based solutions such as regional detention to resolve flooding problems in more than one jurisdiction	<input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	High	Ongoing – 1. Channels and regulated drains are maintained as funding and staffing allow Proposed Enhancement – 1. Increase use of green infrastructure as feasible 2. Continue to maintain channels and drains 3. Complete watershed studies to develop recommendations for regional solutions	
Tree Maintenance 1. Maintain trees on public property and right-of-ways and encourage maintenance on private property to reduce the risk of downed utility lines and falling limbs (2010)	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input checked="" type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	High	Ongoing – 1. Utility providers perform routine maintenance along ROW Proposed Enhancement – 1. Encourage private landowners to perform maintenance or avoid planting improper trees and shrubs	
Power Back-Up Generators 1. Encourage generators at critical infrastructure (existing and new) 2. Retrofit public facilities and/or critical facilities with appropriate wiring and electrical capabilities for utilizing a large generator for power back up	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <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"/> Wildfire <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High	Ongoing – 1. Many critical facilities have generators and fuel reserve Proposed Enhancements – 1. Conduct inventory of generator and fuel capacity to determine needs for future purchases 2. Inventory and prioritize critical facilities for retrofitting wiring and capabilities (Spencer Elementary, Owen Valley High School)	
Water Conservation 1. Propose and adopt a water conservation ordinance to implement during water shortages 2. Identify a backup water supply (2010 Measure)	<input checked="" type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	High	Ongoing – 2. Water has been previously hauled into the area through a general agreement Proposed Enhancement – 1. Adopt a County-wide Ordinance 2. Formalize the agreement or contract for hauling water during times of need	

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
<p>Public Education & Outreach</p> <p>1. Continue to participate in Severe Weather Awareness Week</p> <p>2. Develop an education and outreach campaign encouraging residents to keep in contact with their neighbors during hazard events</p> <p>3. Post information/warning signs in local parks and other public gathering places explaining what to do in case of a hazard event.</p> <p>4. Provide multi-lingual hazard preparedness literature (warning sirens, radio stations, go-kits, insurance protection, lightning rods, etc.) during Severe Weather Awareness Week, at public facilities and events and to populations within known hazard areas such as floodplains, downstream of a dam, near hazmat facilities, karst locations, etc. <i>(2010 Measure)</i></p>	<div><input checked="" type="checkbox"/> Drought</div> <div><input checked="" type="checkbox"/> Earthquake</div> <div><input checked="" type="checkbox"/> Extreme Temperature</div> <div><input checked="" type="checkbox"/> Flood</div> <div><input checked="" type="checkbox"/> Hail/Thunder/Wind</div> <div><input checked="" type="checkbox"/> Landslide/Subsidence</div> <div><input checked="" type="checkbox"/> Tornado</div> <div><input checked="" type="checkbox"/> Wildfire</div> <div><input checked="" type="checkbox"/> Winter Storm/Ice</div> <div><input checked="" type="checkbox"/> Dam Failure</div> <div><input checked="" type="checkbox"/> HazMat Incident</div>	<p>High <i>(Severe Weather Week, education campaign)</i></p> <p>Moderate <i>(post information, multi-lingual literature)</i></p>	<p>Ongoing –</p> <p>1. Agencies participate in Severe Weather Awareness Week</p> <p>4. Literature is provided at several public facilities and office locations as well as large public events throughout the County. Populations within the special flood hazard areas are educated through required flood insurance purchases and various website and literature pieces.</p> <p>Proposed Enhancement –</p> <p>1. Increase advertisement of Severe Weather Awareness Week</p> <p>2. Develop a campaign for neighbor check-ins</p> <p>3. Post information in parks and other gathering places</p> <p>4. Encourage the enhancement of the messages provided to various cultural groups and neighborhoods; Educate landowners within the dam inundation areas of the potential dangers and what to do in an emergency situation. Such as encourage voluntary purchase of federally-subsidized flood insurance; formalize a neighborhood or local campaign where community representatives familiar with the culture and language provide residents with emergency information and protocols.</p>	

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
Emergency Response & Recovery 1. Develop and implement a voluntary immunization program for all emergency responders, inspection staff, and families 2. Increase supply reserves for basic personal protective equipment to be utilized following a hazard event or resulting mass casualty 3. Construct a new EOC <i>(2010 measure)</i> 4. Maintain a water rescue team with two boats <i>(2010 measure)</i> 5. Utilize realistic training and exercises that stimulate response conditions and scenarios for emergency responders, decision-makers, and general public 6. Inventory needs for mobile data terminals in response vehicles and purchase and install as feasible 7. Review and update procedures to alert and evacuate the populations in known hazard areas 8. Coordinate communications, documentation, and record keeping between NFIP communities and agencies including a database of accurate and community specific information following each hazard events	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <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"/> Wildfire <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High <i>(immunizations, personal protective equipment, EOC, water rescue team, exercises)</i> Moderate <i>(data terminals, alert and evacuate, coordinate communications)</i>	Ongoing – 1. Immunizations are provided to employees 3. New EOC is being constructed 4. Water rescue team has been established 5. Exercises are planned and held annually 6. Some vehicles have mobile data terminals 7. FRP with evacuation plans exists Proposed Enhancement – 1. Provide immunizations to all County and municipal staff and extend to families 2. Purchase additional personal protective equipment 3. Finish and equip the new EOC 4. Maintain water rescue team 5. Write exercises to include other hazard possibilities 6. Purchase and install additional terminals 7. Develop SOP for alerting and evacuating at risk populations (dam failure areas, karst, Tier II buffers) 8. Review and update procedures for documentation, tracking, and reporting information during and following a hazard event.	

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
Emergency Preparedness & Warning 1. Coordinate with private business owners utilizing large dynamic message boards for business to provide messages during hazardous events and recovery efforts. 2. Encourage weather radios in all critical infrastructure and encourage use by residents and businesses. 3. Improve disaster preparedness and emergency response at the local level through the COAD program 4. Increase awareness and participation in the NIXEL notification system and various social media outlets 5. Evaluate and utilize flood forecasting capabilities including stream gages, flood forecast maps, and flood alerts 6. Evaluate outdoor warning siren coverage to determine if adequate to alert population of severe weather conditions (2010) 7. Purchase additional mobile electronic messaging boards and develop protocol for local interactions to provide current hazard information. 8. Improve planning and coordination among event coordinators, facility owners, and emergency response teams 9. Convey flood height warnings from the USGS river gages in terms the general public can understand 10. Install dynamic message boards on US 231 and 46 to provide current hazard information	<input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature <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"/> Wildfire <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High <i>(private message boards, weather radios, COAD, NIXEL, flood forecasting, sirens)</i> Moderate <i>(mobile boards, planning and coordination, flood height messages)</i> Low <i>(dynamic message boards)</i>	Ongoing – 2. Radios are encouraged 3. COAD serves a role within the County 4. NIXEL and social media is utilized by several County and municipal offices 5. The County has 1 real-time AHPS Stream Gage 6. The County maintains several outdoor warning sirens 7. The County has access to DHS District mobile message boards 8. Planning efforts are beginning with various large events Proposed Enhancements – 1. Develop a list of partnering private businesses willing to display hazard related messages 2. Continue to provide and encourage the use of weather radios 3. Continue to support the COAD program 4. Increase number of subscribers and followers for warnings and social media outlets 5. Evaluate flood forecasting abilities 6. Purchase and install additional outdoor warning sirens as feasible <i>(Jordan Village and northeast of Spencer)</i> 7. Purchase additional message boards and develop protocol 8. Continue to work with event coordinators and facility owners to improve planning for hazard events 9. Develop information for providing flood height warnings from the USGS to the general public 10. Coordinate with INDOT to investigate the feasibility of adding a permanent message board	

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
Building Protection 1. Adopt construction standards and building codes to ensure that hazard protection, especially of critical facilities, are incorporated into local building codes 2. Enforce zoning laws and restrict the development of new critical infrastructure in 1% & 0.2% annual chance flood hazard, karst, and potential dam failure inundation areas. 3. Inventory which critical facilities are out of date regarding building codes <i>(2010)</i> 4. Harden critical facilities, especially fire stations and schools <i>(2010)</i> 5. Protect existing critical facilities in floodplains <i>(Will assist with NFIP compliance)</i>	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <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"/> Wildfire <input checked="" type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	High <i>(building codes)</i> Moderate <i>(restrict development, out of date, harden facilities)</i> Low <i>(protect facilities in floodplain)</i>	Ongoing – 1. The County and Spencer follow the Indiana State Building Code 2. Ordinances prohibit construction of new critical facilities within the 0.2% annual chance flood area. Proposed Enhancements – 1. Review and adopt State Building Codes (Gosport) 2. Continue to discourage development within floodplains, include potential dam inundation areas and karst geology areas. 3. Develop inventory of out of date structures and work to bring structures up to date 4. Inventory and harden critical facilities as needed and as feasible 5. Protect the facilities identified in the floodplain	
Management of High Hazard Dams 1. Participate in the IEAP and annual exercise for existing and new high hazard dams 2. Review regular inspection and maintenance records of high hazard dams 3. Encourage Dugan Lake Dam owners to develop an IEAP.	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Hail/Thunder/Wind <input checked="" type="checkbox"/> Landslide/Subsidence <input type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input checked="" type="checkbox"/> Dam Failure <input type="checkbox"/> HazMat Incident	High <i>(IEAP, inspections)</i> Low <i>(Dugan Lake)</i>	Ongoing – 2. IDNR receives inspection reports and IEAP updates Proposed Enhancements – 1. Participate in IEAP annual exercise for Graybrook Lake Dam; locate copies of other IEAPs developed 2. Ensure inspections are reported and required improvements and repairs are completed in a timely manner 3. Encourage and assist Dugan Lake Dam owners in completing an IEAP	

MITIGATION PRACTICE	HAZARD ADDRESSED	PRIORITY	UPDATE STATUS	2021 STATUS
Safer Rooms and Community Shelters 1. Investigate critical facilities and public buildings to determine most appropriate location of safer room or area 2. Establish safer rooms and/or community shelters for large gatherings of people	<input type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input type="checkbox"/> Flood <input checked="" type="checkbox"/> Hail/Thunder/Wind <input type="checkbox"/> Landslide/Subsidence <input checked="" type="checkbox"/> Tornado <input type="checkbox"/> Wildfire <input type="checkbox"/> Winter Storm/Ice <input type="checkbox"/> Dam Failure <input checked="" type="checkbox"/> HazMat Incident	Moderate <i>(critical facilities)</i> Low <i>(large gatherings)</i>	Ongoing – 1. Many buildings have plans on where to go in the event of a hazard Proposed Enhancement – 1. Inventory municipal/public buildings, large employers, and vulnerable areas to determine if safest places are being utilized 2. Continue to determine safer areas for large gathering locations and events	

APPENDIX 8

POTENTIAL FUNDING SOURCES

This page intentionally blank

AmeriCorps

The AmeriCorps*State works with Governor-appointed State Service Commissions to provide grants to non-government and government entities that sponsor service programs. These organizations use their grants to engage AmeriCorps members in service to help meet critical community needs in education, public safety, health, and the environment.

Previous Activities Funded: Assisting disaster victims, building homes, restoring parks and other community facilities while mobilizing community volunteers.

Ms. Paula Parker-Sawyers, Exec. Director
Office of Faith-Based & Community Initiative
302 W Washington St. Room E220
Indianapolis IN 46204-4701
317.233.4273 ~ Phone
317.233.5660 ~ Fax
www.state.in.us/iccsv

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.

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

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

CHIEF Grants Service

CHIEF Grants is a free service from CHIEF supply company. Dedicated to helping public safety professionals meet today's funding challenges, CHIEF Grants is a one-stop shop for open grants, grant writing tips, seminars, and grant news.

Previous Activities Funded: Various types of grants are highlighted with numerous activities funded. This is a grant service, not an individual grant opportunity.

<http://www.chiefsupply.com/grants/>

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.

<http://epa.gov/OW-OWM.html/cwfinance/cwsrf/basics.htm>

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.

<http://www.in.gov/ihfa/comdev/comp/manuals/im/im.htm>

Ms. Deanna Oware, Director
State of Indiana
Department of Commerce/Community Development
One N. Capitol Ave.
Suite 600
Indianapolis, IN 46204-2027
Phone: 317-232-8911
Fax: 317-233-3597

Community Facilities Grants and Loans

The Rural Housing Service (RHS) of the Department of Agriculture offers loans and grants to construct, enlarge, extend, or otherwise improve community facilities providing essential services to rural residents.

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.

www.rurdev.usda.gov/rhs/ProgramBriefs/brief_cp_grant.htm

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.

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

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

<http://www.fsa.usda.gov/dafp/cepd/crp.htm>

The Cora Brown Fund

To provide for disaster-related needs that have not been, or will not be met by government agencies or any other organizations which have programs to address such needs; however, the fund is not intended to replace or supersede these programs. The fund may not be used in a way that is inconsistent with other federally mandated disaster assistance or insurance programs. Money from the fund will not duplicate assistance for which a person is eligible from other sources.

Previous Activities Funded: Disaster related home repair and rebuilding, services which alleviate human suffering due to disasters and disaster related unmet needs.

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

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>

Direct Housing: Natural Disaster

Funds are only available to the extent that funds are not provided by the Federal Emergency Management Agency (FEMA). For the purpose of administering these funds, natural disaster will only include those areas identified by a Presidential declaration.

Previous Activities Funded: To assist qualified lower income rural families to meet emergency assistance needs resulting from natural disaster to buy, build, rehabilitate, or improve dwellings in rural areas.

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

Disaster Reserve Assistance

To provide emergency assistance to eligible livestock owners, in a State, county, or area approved by the Secretary or designee, where because of disease, insect infestation, flood, drought, fire, hurricane, earthquake, hail storm, hot weather, cold weather, freeze, snow, ice, and winterkill, or other natural disaster, a livestock emergency has been determined to exist.

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://www.federalgrantswire.com/disaster_reserve_assistance.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.

http://www.firegrantsupport.com/fp_about.aspx

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#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>

Pre-Disaster Mitigation Program

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

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

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

Public Assistance Grant Program

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

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

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

Purdue Cooperative Extension Service

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

Steve Cain

Disaster Communication Specialist

615 W. State Street

Purdue University

West Lafayette, IN 47907

765-494-8410

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

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

Severe Repetitive Loss

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

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

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

Staffing for Adequate Fire and Emergency Response Grants

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

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

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

Volunteer Fire Assistance Program

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

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

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

Weatherization Assistance Program

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

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

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

Wetland Reserve Program

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

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

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

Wildlife Habitat Incentive Program

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

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

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

APPENDIX 9

CRS CHECKLIST

This page intentionally blank

CRS 10-Step Planning Process	Max. Points	Est. Points	Comments
1. Organize and Prepare the Plan	10	8	
<i>Supervision or direction of a professional planner</i>	2	2	<i>Sheila McKinley, CBBEL Project Manager AICP #017260</i>
<i>Planning committee of department staff</i>	6	6	<i>Table 1-1 lists Planning Committee name, title, and department/ agency represented</i>
<i>Process formally created by the community's governing board</i>	2	0	
2. Involve the Public	85	55	
<i>Planning process conducted through a planning committee</i>	40	40	<i>Appendix 2 contains Planning Committee meeting agendas and summaries; Planning Committee reviewed draft MHMP, attended public meeting, and assisted with local adoption</i>
<i>Public meetings held at the beginning of the planning process</i>	15	0	
<i>Public meeting held on the draft plan</i>	15	15	<i>Full draft presented to the public; draft plan made available for public review on webpage, EMA office, Planning Office</i>
<i>Questionnaires asks the public for information</i>	5	0	
<i>Recommendations are solicited from advisory groups, etc.</i>	5	0	
<i>Other public information activities to encourage input</i>	5	0	
3. Coordinate with Other Agencies	25	21	
<i>Review of existing studies and plans (required)</i>	3	3	<i>Conducted a Community Capability Assessment to better understand existing mitigation programs, policies, and projects</i>
<i>Invited neighboring communities and other agencies (required)</i>	1	1	<i>Appendix 3 includes the invitation sent to the surrounding County EMA Directors; IDNR and IDHS involved in planning process</i>
<i>Contacted communities and NFIP and EM agencies</i>	4	4	<i>NFIP Floodplain Administrators participated as Planning Committee members</i>
<i>NWS, ARC and others are asked how they can help community</i>	4	0	
<i>Meetings are held with agencies on mitigation strategies</i>	10	10	<i>IDHS Mitigation Officer participated in the Planning Committee meeting where Mitigation Practices were identified and implementation steps discussed</i>
<i>Draft action plan sent to agencies for comments</i>	3	3	<i>Draft MHMP made available for IDNR and IDHS to review and comment</i>
4. Assess the Hazard	20	20	
<i>Map of known flood hazards</i>	5	5	<i>Exhibit illustrates FIRM floodplains as well as the location of critical facilities.</i>
<i>Description of known flood hazards</i>	5	5	<i>Section 3 discusses areas with a known localized flooding issue as well as floodplains; Table shows potential losses of structures located within floodplains</i>
<i>Discussion of past floods</i>	5	5	<i>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</i>
<i>Describes other natural hazards (required DMA)</i>	5	5	<i>Section includes information related to Drought, Earthquake; Extreme Temperature; Flood; Hailstorm, Thunderstorm, and Windstorm; Landslide; Tornado; Winter Storm and Ice; Wildfire; Dam Failure; Hazardous Materials</i>
5. Assess the Problem	35	30	
<i>Summary of hazard and impact on community (required)</i>	2	2	<i>Section 3.0 includes Historic Data and Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Flood; Hailstorm, Thunderstorm, and Windstorm; Landslide; Tornado; Winter Storm and Ice; Wildfire; Dam Failure; Hazardous Materials)</i>
<i>Procedures for warning and evacuation</i>	5	5	<i>Section 4 "Emergency Services", "Public Information", and Table 4-1 "Emergency Warning Systems" and "Emergency Response & Recovery" identifies existing and proposed systems for early warning and detection</i>
<i>Impact on critical facilities and infrastructure</i>	5	5	<i>Section 3.0 includes a Vulnerability Assessment for each hazard (Drought, Earthquake; Extreme Temperature; Flood; Hailstorm, Thunderstorm, and Windstorm; Landslide; Tornado; Winter Storm and Ice; Wildfire; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted</i>

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; Flood; Hailstorm, Thunderstorm, and Windstorm; Landslide; Tornado; Winter Storm and Ice; Wildfire; Dam Failure; Hazardous Materials) that specifies (where possible) the number of critical facilities that would be impacted
Review of all flood insurance claims	4	4	Table list flood insurance claims
Natural and beneficial function of natural areas	4	4	Section 3 discusses the natural and beneficial function of floodplains for flood storage
Development, redevelopment, and population trends	5	5	Section2 discusses population and demographics
6. Set Goals	2	2	Section 4.1 list goal for MHMP - to reduce social, physical, and economic losses from hazards
7. Review Possible Activities	30	30	
Preventive activities	5	5	Section 4.2.1 discusses existing Mitigation Practices; Table 4-1 lists proposed Mitigation Practices for Preventive
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	70	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 DHS Director reassemble the Planning Committee following a significant hazard incident to review the effectiveness of existing Mitigation Practices and make recommendations for improvement
Recommendations from Habitat Conservation Plan	10	0	
Action items for mitigation other hazards	5	5	Table 4-1 includes Mitigation Practices for Earthquake; Flood; Hailstorm, Thunderstorm, and Windstorm; Tornado; Snow Storm and Ice; Dam & Levee Failure; Hazardous Materials; Section 5.0 includes an Implementation Plan for High Priority Mitigation Practices
9. Adopt the Plan	2	0	
10. Implement, Evaluate and Revise	15	15	
Procedures to monitor and recommend revisions (required)	5	5	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	10	10	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.
FLOODPLAIN MANAGEMENT PLAN	294	241	
REPETTIVE LOSS AREA ANALYSIS	50	0	
HABITAT CONSERVATION PLAN	15	0	
TOTAL	359	241	