

**CITY OF EDGERTON
CITY HALL
12 ALBION STREET
EDGERTON, WI**

PUBLIC WORKS COMMITTEE
Wednesday, August 25, 2021 at 7:15 p.m.

REMOTE PARTICIPATION: To participate or view the meeting, please select the link to the meeting listed on the **calendar events** on the City website's home page at www.cityofedgerton.com.

1. Call to order; Roll Call.
2. Confirmation of Appropriate Meeting Notice Posted on Tuesday, August 24, 2021.
3. Consider Approval of August 2, 2021 minutes.
4. Discuss Dane County Natural Hazard Mitigation Planning.
5. Staff Report
6. Adjourn.

cc: All Commission Members
Department Heads

City Administrator
City Engineer

All Council Members
Newspapers

NOTICE: If a person with a disability requires that the meeting be accessible or that materials at the meeting be in an accessible format, call the City Administrator's office at least 6 hours prior to the meeting to request adequate accommodations. Telephone: 884-3341

"Notice is hereby given that a majority of the Common Council is expected to be present at the above scheduled noticed meeting to gather information about a subject over which they have decision-making responsibility. The only action to be taken at this meeting will be action by the Public Works Committee."

August 2, 2021
PUBLIC WORKS COMMITTEE MEETING MINUTES
CITY OF EDGERTON

Chair Jim Burdick called the meeting to order at 6:01 p.m. Committee members present were Jim Burdick and Sarah Braun. Also present were City Administrator Ramona Flanigan, Municipal Services Director Howard Moser and Mayor Christopher Lund.

Casey Langan was absent (excused).

Moser confirmed the agendas were properly posted on Friday, July 30, 2021 at the Post Office, Edgerton Library, and City Hall.

APPROVE MINUTES: A Braun/Burdick motion to approve the May 10, 2021 Public Works Committee minutes passed on a 2/0 roll call vote.

DISCUSS CROSSWALK AND CROSS STREET MARKINGS ON MAIN STREET, LORD STREET AND FULTON STREET. Flanigan asked if the committee would to have more visible markings of the crosswalks like ladder workings. Burdick asked if it is easier to do all of the crosswalks opposed to doing just a few. Braun asked if there are other options besides the ladder markings. Howard is not aware of any other markings aside from parallel. Burdick/Braun motion to approve ladder crosswalk markings on Fulton, North Main and Lord passed 2/0.

DISCUSS 2021 STREET MAINTENANCE. Howard recommended resurfacing of Marlboro, Salem east of Marlboro, Winston east of Marlboro, Heritage Court, and a small portion of Gear Drive the estimated cost is \$146,490.00. Flanigan said they can include language in the bid to allow the removal of a street if needed to get to the budget number of \$120,000.00. Flanigan said there is a measurable amount of money in the capital surplus that could be used. Burdick/Braun motion to proceed with street maintenance passed 2/0.

DISCUSS NOVEMBER COMPOST SITE HOURS Howard would like to keep Saturday hours available in November, weather permitting. A Burdick/Braun motion to keep compost site open on Saturdays in November passed 2/0.

DISCUSS DANE COUNTY NATURAL HAZARD MITIGATION PLANNING. Flanigan explained that the committee will assist with the conversation about the updated plan and serve as the Planning Committee. This is a five-year plan and, by participating, we have better access for FEMA funding. Staff will participate in all staff level meetings of the county, create charts, and complete assignments. Information will be brought to the committee to discuss and make sure the public has an opportunity to participate.

Being no other business before the Committee, a Braun/Burdick motion to adjourn passed, all voted in favor.

Howard Moser/smc
Municipal Services Director



DRAFT

Dane County Natural Hazard Mitigation Plan

2023 Update Information
And
Local Jurisdiction Data Collection Handbook

Overview

Dane County is in the process of updating its Natural Hazard Mitigation Plan (NHMP). The last plan update for the County was completed in 2018. Natural Hazard Mitigation Plans are important steps that communities take to assess the threat of various natural hazards in their area and make decisions on how to best limit the loss of life and property when the disasters occur. This handbook is meant to help facilitate the process of threat identification and assessment of the potential impact of these natural hazards. In addition to alleviating damage, natural hazard mitigation plans also help communities continue mitigation efforts by qualifying them for pre and post-disaster mitigation project grants from the federal government, pending Federal Emergency Management Agency (FEMA) approval.

This update of the Dane County NHMP is considered a multi-jurisdictional plan by FEMA. This means that in addition to the County-level plan that is being developed, each jurisdiction will have an annex attached to the plan addressing the need for hazard mitigation and the potential steps that can be taken. To produce a useful and updated hazard mitigation plan that meets your jurisdictions and Dane County's needs, as well as the requirements of the Disaster Mitigation Act 2000 (DMA), essential information must be collected during the planning process. The information needed to support the planning process includes the following:

- Background information about jurisdictions in Dane County;
- Plans, technical studies, and data related to hazards and risks;
- Current governing codes, ordinances, regulations, and procedures whose intent is to minimize future losses and;
- An assessment of Dane County's technical and organizational capabilities to perform hazard mitigation/loss prevention functions.

It is important that the plan shows what Dane County and its communities are doing now to limit future disaster losses.

Natural Hazard Mitigation Plans are updated every five years in order to frequently assess and address the changing threat of natural hazards. In accordance with this idea, Dane County will continue to address the threat of natural hazards in light of the region's changing climate. The County will examine climate trends and determine their projected impacts on the natural hazards this plan addresses. The rate of change in the trend can help determine the priority future mitigation practices should carry. The inclusion of climate change factors in hazard analysis will ensure Dane County takes appropriate steps to protect its citizen's personal and economic safety through mitigation efforts that consider the changing threat of natural hazards.

The planning process is heavily dependent on existing data to be supplied by each of the participating jurisdictions. The DMA plan development process does not require the development of new data, but requires existing data only.

What is Mitigation?

Hazard mitigation is defined by FEMA as “any sustained action taken to reduce or eliminate long-term risk to human life and property from a hazard event.” The results of a three-year, congressionally mandated independent study to assess future savings from mitigation activities provides evidence that mitigation activities are highly cost-effective. On average, each dollar spent on mitigation saves society an average of \$4 in avoided future losses in addition to saving lives and preventing injuries (National Institute of Building Science Multi-Hazard Mitigation Council 2005).

Mitigation generally means reducing long-term risk from hazards to acceptable levels through predetermined measures accompanying physical development, for example: strengthening structures to withstand high winds or snow loads; elevating, removing or limiting development in flood-prone areas; increasing tree cover to provide shade during extreme heat events; improving backup power capacity for critical facilities.

“Mitigation” is different from emergency “preparedness” or “response:”

- Preparedness concentrates on activities which make a person, place, or organization ready to respond to a disaster with emergency equipment, food, emergency shelter, and medicine.
- Response activities may reduce damages, such as sandbagging during a flood, but this is a short term solution and requires advance warning and capabilities in place during the event.
- Mitigation of flood hazards through wise floodplain management is a long term solution.

Participation

Final FEMA approval of the multi-jurisdictional NHMP requires that each jurisdiction seeking approval participates in the planning process. For these jurisdictions, ‘participation’ means the community’s representatives will do all of the following:

- Participate in countywide planning meetings, such as the Kickoff Meeting.
- Establish a local steering committee.
- Complete a hazard profile and vulnerability assessment based on local conditions.

- Develop problem statements, based on the risk assessment, input from the public, and local reps.
- Develop a local mitigation strategy, including identifying projects specific to the jurisdiction.
- Participate in public outreach activities and conduct at least one public meeting.
- Review and approve draft plan documents.
- Adopt the final draft of the plan through formal resolution.

Natural Hazard Mitigation Planning Process

Natural Hazard Mitigation Plans require that set criteria be met in the plan's formation before plan approval. The requirement for mitigation planning is set in the Disaster Mitigation Act of 2000. The requirements for local mitigation plans are codified in Title 44 Code of Federal Regulations (CFR) §201.6 and are administered by FEMA. FEMA outlines its requirements in the Local Mitigation Planning Handbook, found here: <http://www.fema.gov/media-library-data/20130726-1910-25045-9160/fema-local-mitigation-handbook.pdf>. This is the process Dane County will be following for the 2023 NHMP Update.

The procedural steps for NHMP's as outlined by FEMA in its Local Mitigation Planning Handbook are:

TASK 1 Determine the Planning Area and Resources	TASK 4 Review Community Capabilities	TASK 9 Create a Safe and Resilient Community
	TASK 5 Conduct a Risk Assessment	
TASK 2 Build the Planning Team	TASK 6 Develop a Mitigation Strategy	
TASK 3 Create an Outreach Strategy	TASK 7 Keep the Plan Current	
	TASK 8 Review and Adopt the Plan	

As of the Kickoff meetings on June 16th & 17th, 2021, Tasks 1-3 are mostly completed. The remainder of this handbook will aid in completing the rest of these tasks, specifically Tasks 4 and 5.

Timeline

Specific meeting dates and times will be determined at least three weeks ahead of time.

July 30, 2021 – Deadline for submitting a letter of commitment to Dane County Emergency Management.

August 2021 –

- Establish a local planning team.

- Participate in additional meetings (via ZOOM):
 - Understanding and applying lessons on climate change.
 - Seeing diversity and assessing equity in your community.
 - Guidance for completing the attached worksheets.

September 2021 – Participate in meeting (ZOOM) on developing problem statements.

October 2021 – Participate in meeting (ZOOM) on developing local mitigation objectives.

November 2021 – Engage with citizens to solicit input on local objectives.

December 2021 – Submit materials (reflecting public input) to DCEM.

By February 2022 – DCEM will return local mitigation plans to local POCs for review and adoption.

By March 2022 – Adopted local mitigation plans and copies of resolutions are returned to DCEM.

June 2022 – Comprehensive Dane County Natural Hazard Mitigation Plan (DC NHMP) adopted by Dane County Board.

By August 2022 – Adopted DC NHMP submitted to Wisconsin Emergency Management (WEM) for review and forward to FEMA.

By January 2023 – FEMA approval of DC NHMP.

Data Collection Guide

This handbook contains an explanation of the types of hazard mitigation/loss prevention data that is needed for the hazard mitigation planning process. This handbook identifies specific requirements for the Risk Assessment Process, which includes the hazard identification, vulnerability, and capability assessments as well as defines requirements and provides a basis for development of the Mitigation Strategy.

The attached worksheets have been developed to assist with the data collection. These need to be completed by each jurisdiction participating in the planning process and will serve two purposes:

- They will help facilitate the collection of the necessary information to create a new or updated jurisdictional annex.
- They will function as evidence of participation in the planning process.

The information collected will support the development or update of the community attachments (aka jurisdictional annexes). ***Note to previous participants in the 2018 Dane***

County Natural Hazard Mitigation Plan: Please review your community’s attachment while filling this out, and make note of changes. In some cases there may be little change.

The Risk Assessment Process

The risk assessment process includes three components: hazard identification, vulnerability assessment, and capability assessment. Worksheets to collect data for each of the risk assessment components are attached. This information will be used to form the basis of your jurisdiction's new (or updated) mitigation strategy.

As the timeline indicates, there will be meetings to provide both guidance and insight into completing the risk assessment process. You will complete **one set** of worksheets for your jurisdiction and email copies of the completed worksheets and supporting information to J. McLellan (mclellan@countyofdane.com) and Sara Husen (husen.sara@countyofdane.com).

Project Reference

Please refer to the existing Dane County Natural Hazard Mitigation Plan (adopted 2017) found online at: <https://em.countyofdane.com/hazards/mitigation-plan>.

The planning process is being led by Dane County Emergency Management, with professional planning assistance from various other public entities including Dane County Planning and Development, Dane County Board of Supervisors, Dane County Land and Water Resources Department, Dane County Office of Energy and Climate Change, Dane County Office of Equity and Inclusion, Capital Area Regional Planning Commission, and the University of Wisconsin-Madison Department of Urban and Regional Planning.

Dane County Emergency Management

Public Safety Building, Room 2107
115 West Doty St, Madison WI 53703-3202
Ph: 608-266-4330 Fax 608-266-4500

Natural Hazard Mitigation Plan Update Project Lead:

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Project Assistant:

Sara Husen
Project Assistant, UW-Madison Department of Urban and Regional Planning
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Dane County Local Hazard Mitigation Plan

Worksheet #1: Hazard Identification and Ranking

The hazard identification and ranking process is a means to quantify and compare the characteristic of each of the hazards, and identify those that are most significant for planning purposes. Use the following to guide the completion of worksheet #1 on the following page.

1. *Attributes of the hazard itself.* These are factors related to the natural occurrence of each hazard, without any consideration of potential impacts.
 - Area of Impact – does the event occur in isolated areas, affecting only a single unit of government, a wider area, affecting multiple units of government, or a regional, affecting the entire County or many counties?
 - Past History, Probability of Future Occurrence – based on what you know about changing climactic conditions, recent trends, or projections, how likely is it that an extreme event, or a more extreme event, will occur in the future?
 - Short-Term Time Factors – to what extent is the event predictable in the short term? Is there enough warning time to allow people to act to protect themselves and their property?
2. *Direct impacts on people and property. These are rankings of the short-term, immediate effects of each hazard, based on future projections.*
 - Impact on General Structures - to what extent could an extreme event impact the buildings and infrastructure of the County?
 - Impact on Critical Facilities – to what extent could critical facilities be impacted? The impact on critical facilities is an important measure of the extent to which the essential functions of government and the local economy could be disrupted.
 - Impact on At-Risk Populations – to what extent could people with special needs be impacted? This is an important measure of the immediate human needs that would be created in the initial response to the event.
3. *Indirect or secondary impacts. The potential for long-term, far reaching impacts of each event are difficult to quantify, however, these broad categories were used:*
 - Social Impact – to what extent could the hazard disrupt individual lives and the social structure of the community?
 - Economic Impact – to what extent could business and industry be disrupted?
 - Severity of Other Associated Secondary Hazards – does the hazard have the capacity to create other, secondary hazards and how severe could those secondary hazards be? For example, an ice storm causing a long-term, wide-area power outage.

Using your planning team’s combined experience and perspective, rank each category on a scale of either 0 to 5 or 1 to 5. A ranking of zero (0) means “no concern.” A ranking of five (5) means “highest concern.”

Hazard	Name of Jurisdiction:									
	Hazard Attributes				Impact Attributes					
	Area of Impact	Past History, Probability of Future Occurrence	Short Term Time Factors	Primary Impact (Short Term - Life and Property)	Secondary Impact (Long Term – Community Impacts)	Severity Of Other Associated Secondary Hazards	Total of Row Values			
	(1-5)	(1-5)	(1-5)	Impact on General Structures	Impact on Critical Facilities	Impact on At-Risk Populations	Social Impact	Economic Impact	(0-5)	(0-5)
Dam/Levee	0	0	0	0	0	0	0	0	0	0
Extreme Cold	3	5	2	1	1	2	1	1	3	19
Extreme Heat	2	5	1	1	1	2	1	1	3	17
Drought	2	5	1	1	0	1	1	1	1	13
Expansive soils	0	0	0	0	0	0	0	0	0	0
Flood	2	5	4	3	3	4	3	4	3	31
Fog	2	3	3	1	0	1	1	1	1	13
Hail Storm	1	3	4	1	1	1	1	3	3	18
Landslide	0	0	0	0	0	0	0	0	0	0
Lightning	2	3	4	2	2	2	1	1	3	20
Tornado	4	3	4	4	4	2	3	4	5	33
Wildfire	1	1	1	1	1	1	1	1	1	9
Windstorm	4	5	4	4	4	2	3	3	5	34
Winter Storm	4	5	2	4	4	3	2	3	5	32

Email one copy of the completed set of worksheets and documentation to mclellan@countyofdane.com AND husen.sara@countyofdane.com.

Dane County Local Hazard Mitigation Plan

Worksheet #2: Historic Hazard Event

Please **complete a separate *Worksheet #2* for each significant hazard event** your jurisdiction has experienced. Provide as much detail as possible and attach any supporting documentation (e.g. photocopies, newspaper articles, or other original sources) as you feel necessary.

Name of Jurisdiction:	City of Edgerton
Type of event	Flooding
Date	Jan 22, 2018
Location	Corner of Thronson Road and US Hwy 51
Nature and magnitude of event	Winter rain on frozen farm fields or intense summer rain; overwhelmed downstream stormsewer system; 2-3 acres impacted; no structures impacted
Injuries / Deaths	none
Describe damage to private property	none
Describe damage to infrastructure	none
Crop damage	Occasionally (approximately an acre)
Known business/economic impacts	None
Identify road/school/other infrastructure closures	None
Other damage	Not aware of any
Describe losses covered by insurance	Not aware of any
Federal/state disaster relief funding received	None
Opinion on likelihood of occurring again	Very likely
Source of information	City staff
Comments	
Prepared by:	<div style="display: flex; justify-content: space-between;"> <div> Name: Phone: Email: </div> <div> Ramona Flanigan 608 884 3341 rflanigan@cityofedgerton.com </div> </div>
Email one copy of the completed set of worksheets and documentation to <u>mclellan@countyofdane.com</u> AND <u>husen.sara@countyofdane.com</u>.	

Dane County Local Hazard Mitigation Plan

Worksheet #3: Vulnerability Assessment

The purpose of this worksheet is to assess the vulnerable buildings, populations, critical facilities, infrastructure, and other important assets in your community by using the best available data to complete this worksheet. Use the table on the next page to compile a detailed inventory of specific assets at risk including critical facilities and infrastructure; natural, cultural, and historical assets; and economic assets as defined below. Examples can include hospitals, fire stations, or historic buildings. Attach supporting documentation, such as photographs, reports, or plans if possible. In the hazard specific column of the asset inventory table, indicate if there is a specific hazard to which the asset is at risk, such as flood, lightning, etc.

For the purposes of this plan, please use the following guidance:

- **Critical Facilities** – Physical structures that, if damaged or destroyed, compromise public health or safety, or are disproportionately vulnerable to natural disasters discussed in the plan, or house populations that are disproportionately vulnerable to natural disasters. These are grouped into the following categories:
- **Essential Infrastructure** – Includes public and private utility facilities that are vital to maintaining or restoring normal services to hazard areas before, during, and after a hazard event: Airports, roads, bridges, communications facilities and towers, correctional facilities, electrical generation/distribution facilities, media outlets, national guard, natural gas supply, public safety (911) communications centers, public safety facilities (police, fire, EMS), public works garages, town/village/city halls, wastewater facilities, water utilities, cooling facilities.
- **Vulnerable Facilities (includes facilities that serve at-risk populations, historic, and/or economic assets)** – Childcare centers, community based residential facilities, community centers, campsites, healthcare facilities, hospitals, nursing homes, historic properties, manufactured homes, long term care facilities, schools, special needs housing.
- **Hazardous Materials Facilities** – Structures or facilities that produce, use, or store highly volatile, flammable, explosive, toxic, and/or water-reactive materials.
- **Natural Assets** – Natural resource assets may include wetlands, threatened and endangered species, or other environmentally sensitive areas. Natural resources can be important in mitigating hazards, such as wetland protection for reducing stormwater runoff and floodwater storage and infiltration.

[illegible]

*TYPE = EI: Essential Infrastructure
VF: Vulnerable Facilities
HM: Hazardous Materials Facilities
NA: Natural Assets

Additional Vulnerability Questions	
Number of repetitive loss properties (flooding)	none
Average depth of 100-year floodplain	N/A
Describe any hazard-related concerns or issues regarding the vulnerability of special needs populations, such as the elderly, disabled, or low-income.	There is no known special needs population in our part of Dane County.
Describe growth and development trends and future growth areas and how they relate to hazard areas and vulnerability concerns/issues.	Thronson Road, an area of flooding, currently provides the only exit from a neighborhood serving approximately 50 residential units. This will change as the area develops.
If this is an <i>update</i> to your community's attachment to the 2018 plan, describe how vulnerability has changed (or not) as a result of implementing successful mitigation actions.	No changes
<p>Email one copy of the completed set of worksheets and documentation to mclellan@countyofdane.com AND husen.sara@countyofdane.com.</p>	

Dane County Local Hazard Mitigation Plan
Worksheet #4: Community Capability Assessment

Name of Jurisdiction:

Capabilities are the programs and policies (Regulatory, Administrative/Technical, and Fiscal) currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. Please complete this worksheet and provide supporting documentation if available.

Regulatory

The following planning and land management tools are typically used by local jurisdictions to implement hazard mitigation activities. Please indicate what your jurisdiction has in place. If your jurisdiction does not have this capability or authority, please indicate if a higher level of government has the authority. Also use the comments column to indicate how we can obtain a copy of the plan or document (i.e. available on the web (include address) or Email).

Regulatory Tools (ordinances, codes, plans)	Yes/No	Comments
Existing Natural Hazard Mitigation Plan	Yes	County Emergency Planning Agencies
General or Comprehensive plan	Yes	www.cityofedgerton.com
Zoning ordinance	Yes	www.cityofedgerton.com
Subdivision ordinance	Yes	www.cityofedgerton.com
Growth management ordinance	No	
Shoreland / wetland zoning ordinance	Yes	www.cityofedgerton.com
Floodplain zoning ordinance	Yes	www.cityofedgerton.com
FEMA / NFIP Community Rating System	No	
Other special purpose ordinance (stormwater, steep slope, wildfire)	Yes	www.cityofedgerton.com
Building code	Yes	www.cityofedgerton.com
Fire department ISO rating	Yes	Edgerton Fire District 608 884-3327
Climate change Impact program	No	
Erosion or sediment control program	Yes	www.cityofedgerton.com
Stormwater management program	Yes	www.cityofedgerton.com
Site plan review requirements	Yes	www.cityofedgerton.com
Capital improvements plan	Yes	www.cityofedgerton.com
Economic development plan	Yes	www.cityofedgerton.com
Local emergency operations plan	Yes	www.cityofedgerton.com
Other special plans Neighborhood plan/stormwater study	Yes	www.cityofedgerton.com
Flood insurance study or other engineering study for streams	No	
Elevation certificates (for floodplain development)	No	
Climate Action Plan	No	
Other		

Administrative/Technical

Identify the technical and personnel resources responsible for activities related to hazard mitigation/loss prevention within your jurisdiction. For smaller jurisdictions without local staff resources, if there are public resources at the next higher level of government that can provide technical assistance, please indicate this in the comments column.

Personnel Resources	Yes/No	Department/Position	Comments
Planner/engineer with knowledge of land development/land management practices	Yes	City Administrator/planner	
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Consulting engineer	
Planner/engineer/scientist with an understanding of natural hazards	Yes	Consulting engineer	
Personnel skilled in GIS	Yes		Consulting engineer
Full time building official	No		Consultant/ part time
Personnel skilled in Climate resilience	No		General knowledge of city staff and consulting engineer
Floodplain manager	Yes	City Administrator/planner	
Emergency manager	Yes	Chief of Police	
Real estate acquisition personnel	No		
Grant writer	Yes	City Administrator/consulting engineer	
Other personnel	Yes	Municipal Services Director	
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	Yes	Counties	County GIS data
Warning Systems/Services (Reverse 9-11, cable override, outdoor warning signals)	Yes	Rock County	Outdoor warning signals
Other			

Fiscal

Identify whether your jurisdiction has access to or is eligible to use the following financial resources for hazard mitigation.

Financial Resources	Accessible/Eligible to Use (Yes/No)	Comments
Community Development Block Grants	Yes	
Capital improvements project funding	Yes	
Authority to levy taxes for specific purposes	Yes	
Dedicated funding for land, easement or conservation easement acquisition	No	
Fees for water, stormwater, sewer, gas, or electric services	Yes	
Impact fees for new development	Yes	
Incur debt through general obligation bonds	Yes	
Incur debt through special tax bonds	Yes	
Incur debt through private activities	No	
Withhold spending in hazard prone areas	No	Not a current policy
Other		

Additional Capabilities Questions	
Does your community have any hazard-related certifications, such as Storm Ready certification or Firewise Communities certification?	No
Describe any past or ongoing public education or information programs, such as for responsible water use, fire safety, household preparedness, climate change adaption and resilience preparedness, or environmental education.	We occasionally provide education on natural lawns, rain gardens and other onsite stormwater control methods in an effort to reduce stormwater runoff. We also have a strong tree planting program and provide education on the benefits of trees for stormwater/erosion and cooling.
Describe any other past or ongoing projects or programs designed to reduce disaster losses. These may include projects to protect critical facilities.	We have an ongoing effort to promote and support infill and redevelopment which reduces expansion of the edge of the city thus reducing the creation of more impervious surfaces.

Attach additional information as warranted.

Email one copy of the completed set of worksheets and documentation to mclellan@countyofdane.com AND husen.sara@countyofdane.com.

City of Edgerton Annex

Community Profile

The City of Edgerton is located in both Rock and Dane County. It is located in the southeast quadrant of Dane County along the I90 corridor. Land use is dominated by agriculture, the City of Edgerton Business Park, residential subdivisions, and dispersed one-and two-family homes. According to the United States Census Bureau, the City of Edgerton has a total area of 3.7 square miles. None of the area is covered by water except for Saunders Creek.

As of the 2010 Census, there are 5,461 people, 1,400 families, 2,227 households, and 2,410 housing units. The population density is 1,472.8 people per square mile. The housing unit density is 652.6 units per square mile. The City is split between two counties, and the City of Edgerton website (<http://www.cityofedgerton.com/>) reports that in 2015 5,383 people live in Rock County and 111 live in Dane County. Table 1 shows the population age profile for the entire City.

Table 1 Population Age Profile

Subject	Number	Percent
Total population	5,461	100.0
Under 5 years	421	7.7
5 to 9 years	395	7.2
10 to 14 years	390	7.1
15 to 19 years	332	6.1
20 to 24 years	267	4.9
25 to 29 years	439	8.0
30 to 34 years	440	8.1
35 to 39 years	375	6.9
40 to 44 years	352	6.4
45 to 49 years	389	7.1
50 to 54 years	387	7.1
55 to 59 years	334	6.1
60 to 64 years	248	4.5
65 to 69 years	177	3.2
70 to 74 years	138	2.5
75 to 79 years	131	2.4
80 to 84 years	103	1.9
85 years and over	143	2.6

Data Source: 2010 U.S. Census

According to the 2014 American Community Survey, the median income for a household in the portion of the City of Edgerton that is in Dane County is \$27,875 and the median income for a family is \$70,327

(whole city). The per capita income for the City of Edgerton is \$31,054. 89.6% of the population has at least a high school degree, while 20.8% of the population holds at least a bachelor's level degree.

Hazard Identification and Risk Assessment

A hazard identification and vulnerability analysis was completed for the City of Edgerton using the same methodology in the base plan. The information to support the hazard identification and risk assessment for this Annex was collected through a Data Collection Guide, which was distributed to each participating municipality to complete.

The first step in a hazard analysis is to identify which hazards the community is vulnerable to. Table 1 outlines the hazard identification for the City of Edgerton based on the Data Collection Guide. The Data Collection Guide listed all of the hazards that could impact anywhere in Dane County. The purpose of this worksheet was to identify and rank the hazards and vulnerabilities specific to the jurisdiction. The City of Edgerton's planning team members were asked to complete the matrix by ranking each category on a scale of 0 to 5 based on the experience and perspective of each planning team member. A ranking of 0 indicated "no concern" while a ranking of 5 indicated "highest concern". This matrix appears as Table 2. This matrix reflects the significance of the hazards relative to one another.

This matrix reflects that the City of Edgerton is most vulnerable to flood, tornado, windstorm, and winter storm. The vulnerability established here is a qualitative assumption based on the impacts, geographic extent, probability of future occurrence, and magnitude/severity. On the county level, these vulnerabilities were calculated with quantitative data as well.

Table 2 Vulnerability Assessment Matrix for the City of Edgerton

Hazard	Hazard Attributes				Impact Attributes					Total		
	Area of Impact	Past History, Probability of Future Occurrence	Short Term Time Factors	Primary Impact (Short Term - Life and Property)					Secondary Impact (Long Term – Community Impacts)			
				Impact on General Structures	Impact on Critical Facilities	Impact on At-Risk Populations	Social Impact	Economic Impact	Severity Of Other Associated Secondary Hazards			
	(1-5)	(1-5)	(1-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)	(0-5)		
Dam Failure	1	1	1	0	0	0	0	0	0	0	3	
Extreme Cold	3	3	1	1	1	1	1	0	0	0	10	
Extreme Heat	3	3	1	0	0	0	0	0	0	0	7	
Drought	3	3	2	0	0	0	0	2	2	1	13	
Expansive soils	1	1	1	0	0	0	0	0	0	0	3	
Flood	2	3	3	3	3	1	3	3	3	3	24	
Fog	2	3	2	0	0	0	0	0	0	0	7	
Hail Storm	1	3	3	1	1	1	1	0	1	0	11	
Landslide	1	1	1	0	0	0	0	0	0	0	3	
Lightning	2	3	3	2	3	2	1	1	1	2	19	
Tornado	3	3	3	3	3	1	2	3	3	4	25	
Wildfire	1	2	3	1	1	1	1	1	1	1	12	
Windstorm	3	3	3	3	2	2	2	2	2	3	23	
Winter Storm	4	4	2	1	2	2	1	1	1	3	20	

Source: City of Edmonton Data Collection, 2014.

Source: City of Edgerton Data Collection Guide

Previous Hazard Events

Through the Data Collection Guide, the City of Edgerton noted specific historic hazard events to include in the community profile. These events have been incorporated into the appropriate hazard chapters in the base plan. These events had a particular impact on the community beyond the impacts and events recorded in the Dane County Hazard Mitigation Plan. This is not a comprehensive summary of past incidents, as the hazard profiles collected in the County mitigation plan include other events that may have historically impacted the jurisdiction. The events noted by this jurisdiction in the Data Collection Guide include:

Flood: June 2008

The only flooding noted by the City of Edgerton was on the NE corner of Hwy 51 and Thronson Drive. Flooding occurs at this location during any significant rain event. Minimal crop damage has occurred. Some FEMA money has been received for labor and pumping equipment. The City of Edgerton planning members feel such an event is very likely to occur again.

Asset Inventory

Assets include the people, property, and critical facilities within the City of Edgerton that are exposed to hazards in general. Inventories of property, essential infrastructure, and natural, cultural or historic resources help provide a comprehensive picture of the community and provide a method of assessing exposure to hazards by establishing the improved and total values, capacities and populations for these assets. It also forms the basis for estimating potential losses, where possible.

Population

Table 3 Vulnerable Population Summary

Disability Status from the 2014 American Community Survey	Number	Percent of Group with Disability
Population Under 5 years old with a Disability	0	0
Population 5-17 years old with a Disability	0	0
Population 18-64 with a Disability	27	40.3
Population Over 65 years old with a Disability	0	0
Total Population with Disability	27	30.3

2014 American Community Survey

Table 3 Vulnerable Population Summary (Continued)

Other Vulnerable Populations	Estimate	Percentage
Families Below Poverty Level	0	0
Individuals Below Poverty Level	27	30.3
Of those poverty: Individuals Under 18	0	0
Of those poverty: Individuals Over 65	0	0
Total Population Over 5 who Speak English less than "very well"	0	0
2014 ACS Total Population Estimate	89	100%

Data Source: 2010 US Census, 2014 ACS

General Property

Table 4 Property Exposure Summary

Property Type	Total Parcel Count	Improved Parcel Count	Improved Values (\$)	Content (\$)	Total Value (\$)
Totals	68	46	19,325,100	9,662,550	28,987,650
Agriculture	5	1	397,900	198,950	596,850
Commercial	6	4	1,335,300	667,650	2,002,950
Utilities	2	0	0	0	0
Industrial	1	1	137,100	68,550	205,650
Institutional/ Governmental	0	0	0	0	0
Other	25	11	13,329,900	6,664,950	19,994,850
Residential	29	29	4,124,900	2,062,450	6,187,350

Data Source: Dane County Land Information Office

Critical Facilities

The City of Edgerton has identified the following critical facilities within Dane County as important to protect from disaster impacts. These are collected in Table 5.

Table 5 Critical Facility Summary/Essential Infrastructure

Name of Asset	Type*	Replacement value
US Hwy 51	EI	Unknown
Stormwater detention basin	EI	\$300,000
ATC Electric Transmission lines	EI	Unknown
Mud Lake	NA	Unknown

Data Source: City of Edgerton

Vulnerability to Specific Hazards

This section details vulnerability to specific hazards, where quantifiable, and where it differs from that of the overall County. The previous inventory tables quantify what is exposed to the various hazards within City of Edgerton. Table 6 cross-references the hazards with the various tables where exposure or vulnerability specifics are found. The intent of Table 6 is to quantify, where possible, future impacts of each hazard on the jurisdiction. In many cases it is difficult to estimate potential losses, so the overall exposure of populations, structures, and critical facilities is referenced.

Table 6 Hazard Vulnerability Specifics

Hazard	Populations	Structures	Critical Facilities	Future Damage Potential
Dam Failure	Unknown	Unknown	Unknown	Specifics unknown; See hazard profile in County Plan
Drought	Minimal	None	Minimal	Specifics unknown; See hazard profile in County Plan
Flooding	See section below	See section below	See section below	See section below
Fog	Minimal	None	None	Specifics unknown; See hazard profile in County Plan
Hailstorm	Minimal	See Property Exposure table 4	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Landslide/ Sinkholes/ Erosion	Unlikely	Unlikely	Unlikely	Specifics unknown; See hazard profile in County Plan
Lightning	See Table 3 Population	See Table 4 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Severe Cold	See Table 3 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Severe Heat	See Table 3 Population	None	Minimal	Specifics unknown; See hazard profile in County Plan
Severe Winter Storm	See Table 3 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan
Tornado	See Table 3 Population	See section below	See Critical Facility Inventory Table(s)	See section below
Wildfire	Minimal	Minimal	Minimal	Specifics unknown; See hazard profile in County Plan
Windstorm	See Table 3 Population	See Table 3 Property Exposure	See Critical Facility Inventory Table(s)	Specifics unknown; See hazard profile in County Plan

Flood

Structures and Properties in the Floodplain

Only a small area of the City has a mapped flood hazard area (see map in Figure 1). Refer to the flood profile in the mitigation plan for a description of the methodology used to identify potentially flood-prone properties. According to the flood insurance claims data, flooding is a problem in the City.

Table 7 Primary Structures in the Floodplain

Total Floodway Structures	Floodway Residential Structures	Total Structures in 100 year Floodplain	Residential Structures in 100 year Floodplain	Total Structures in 500 year Floodplain	Residential Structures in 500 year Floodplain
0	0	0	0	0	0

Table 8 Properties with Primary Structures in the Floodplain

Total Floodway Properties	Floodway Improved Values	Floodway Residential Properties	Total Properties in 100 year Floodplain	Total Improved Value of Properties in 100 year Floodplain	Residential Properties in 100 year Floodplain	Total Properties in 500 year Floodplain	Total Improved Value of Properties in 500 year Floodplain	Residential Properties in 500 year Floodplain
0	\$0	0	0	\$0	0	0	\$0	0

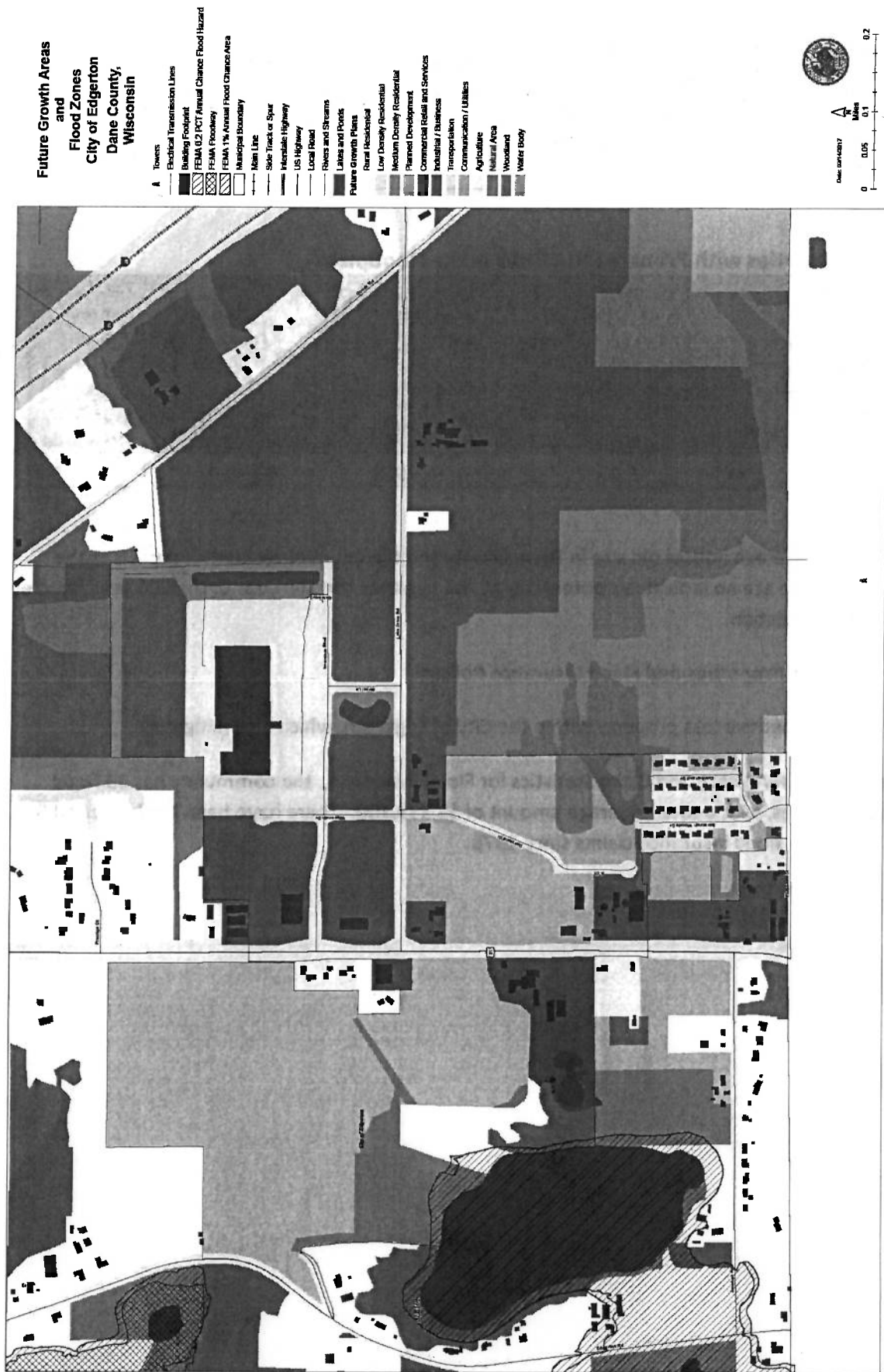
Based on the average household size in Dane County and the count of residential parcels in the floodplain, there are no individuals potentially at risk to either the 100 year or the 500 year flood events within the jurisdiction.

Repetitive Loss Properties and Flood Insurance Policies

There is one repetitive loss property within the City of Edgerton, which was mitigated.

According to FEMA Policy and Claim Statistics for Flood Insurance, the community has 23 flood insurance policies, with a total coverage amount of \$4,339,100. There have been 10 claims and \$78,262 in losses paid in flood insurance claims since 1978.

Figure 1 Flood Hazards and Future Land Use Map



Tornado

While it is difficult to estimate specific losses to a tornado due to the random nature of the event, a methodology was developed that was applied to each jurisdiction during the 2015 update. The table below estimates the percent area of the jurisdiction that could be impacted based on the average sized tornado (F2) in Dane County. High value exposure is based on 100% loss, medium 50% loss, and low is 25% loss to the property potentially impacted. The loss ratio, which is the ratio of the damaged building value to total exposed building value, is a measure of the impact to the jurisdiction as a whole. Communities with loss ratios 10% or more may have difficulty recovering from a disaster. Refer to the tornado hazard profile in the main mitigation plan for more details on this methodology.

Note: The figures reflected here only apply to the portions of the City of Edgerton that are located within Dane County.

Table 9 Tornado Loss Estimate

% Area of Impact	Improved Parcel Count	Affected Structure Estimate	Total Exposed Value	Estimated Loss \$ - High Damage Range	Estimated Loss \$ - Moderate Damage Range	Estimated Loss \$ - Low Damage Range	Loss Ratio for Moderate Damage Range
100.00%	46	46	\$28,987,650	\$28,987,650	\$14,493,825	\$7,246,912.50	50.0%

Data Source: Analysis Based on Dane County Land Information Office's data

Growth and Development Trends

Planned land use is shown in Figure 1, in relation to the flood hazard. Table 10 illustrates how the City of Edgerton has grown in terms of population and number of housing units between 2010 and 2015. Table 11 shows population projections through 2025. The numbers reflecting population projection in Table 10 are just for the expected population growth for the portion of the population that lives in Dane County.

Table 10 City of Edgerton Change in Population and Housing Units, 2010-2014/15

2010 Population	2015 Population	Percent Change (%) 2010-2015	2010 # of Housing Units	2014 # of Housing Units	Percent Change (%) 2010-2014
97	120	21.74	33	57	43.2%

Data Source: US Census Bureau

Table 11 City of Edgerton Population Projections, 2015-2035

Population Change	5 year Growth %	2015	2020	2025	2030	2035
Increase by same percentage each year	4.35%	120	146	178	216	264

Data Source: Demographic Services Center, Wisconsin Department of Administration

Problems or Additional Vulnerability issues

Several hundred acres of land upstream of flood prone areas are planned for development

Capability Assessment

Capabilities are the programs and policies currently in use to reduce hazard impacts or that could be used to implement hazard mitigation activities. This capabilities assessment summarizes regulatory mitigation capabilities, administrative and technical mitigation capabilities, and fiscal mitigation capabilities for the City of Edgerton.

Mitigation Capabilities Summary

Table 12 lists planning and land management tools typically used by local jurisdictions to implement hazard mitigation activities, or by themselves contribute to reducing hazard losses. The table also indicates which of these tools are currently utilized in the City of Edgerton.

Table 12 City of Edgerton Regulatory Mitigation Capabilities

Regulatory Tool (ordinances, codes, plans)	Yes/No	Comments
General or Comprehensive plan	Yes	www.cityofedgerton.com
Zoning ordinance	Yes	www.cityofedgerton.com
Subdivision ordinance	Yes	www.cityofedgerton.com
Growth management ordinance	No	www.cityofedgerton.com
Floodplain ordinance	Yes	www.cityofedgerton.com
Other special purpose ordinance (stormwater, steep slope, wildfire)	Yes	www.cityofedgerton.com
Building code	Yes	www.cityofedgerton.com
Fire department ISO rating	Yes	
Erosion or sediment control program	Yes	www.cityofedgerton.com
Stormwater management program	Yes	www.cityofedgerton.com
Site plan review requirements	Yes	www.cityofedgerton.com
Capital improvements plan	Yes	www.cityofedgerton.com
Economic development plan	No	
Local emergency operations plan	Yes	www.cityofedgerton.com
Other special plans	No	
Flood insurance study or other engineering study for streams	Yes	www.cityofedgerton.com
Elevation certificates (for floodplain development)	No	

Data Source: City of Edgerton Data Collection Guide

Table 13 identifies the personnel responsible for mitigation and loss prevention activities as well as related data and systems in the City of Edgerton.

Table 13 Responsible Personnel and Departments for the City of Edgerton

Personnel Resources	Yes/No	Department/Position	Comments
Planner/engineer with knowledge of land development/land management practices	Yes	City Administrator/Planner	
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	Consulting Engineer	
Planner/engineer/scientist with an understanding of natural hazards	Yes	Consulting Engineer	
Personnel skilled in GIS	No		Consulting Engineer/ Dane and Rock Counties
Full time building official	No		Consultant/ state inspector
Floodplain manager	No		
Emergency manager	Yes	Police Department	
Grant writer	Yes	City Administrator/Consulting Engineer	
Other personnel	Yes	Public Works Director	
GIS Data Resources (Hazard areas, critical facilities, land use, building footprints, etc.)	Yes	Floodplain, steep slopes; wetland; flood plain, land uses, municipal facilities	
Warning Systems/Services (Reverse 9-11, cable override, outdoor warning signals)	Yes	Outdoor warning system	

Data Source: City of Edgerton Data Collection Guide

Table 14 identifies financial tools or resources that the City of Edgerton could potentially use to help fund mitigation activities.

Table 14 Financial Resources for the City of Edgerton

Financial Resources	Accessible/Eligible to Use (Yes/No)	Comments
Community Development Block Grants	Yes	
Capital improvements project funding	Yes	
Authority to levy taxes for specific purposes	Yes	
Fees for water, stormwater, sewer, gas, or electric services	Yes	

Financial Resources	Accessible/Eligible to Use (Yes/No)	Comments
Impact fees for new development	Yes	
Incur debt through general obligation bonds	Yes	
Incur debt through special tax bonds	Yes	
Incur debt through private activities	No	
Withhold spending in hazard prone areas	Yes	
Other		Special assessments

Data Source: City of Edgerton Data Collection Guide

Additional Capabilities

In the 2015 Data Collection Guide, the City of Edgerton identified the following additional capabilities: The City of Edgerton sends out a quarterly newsletter to residents that includes public safety information.

National Flood Insurance Program Participation

The City of Edgerton participates in the National Flood Insurance Program. Refer to information provided in Table 15 below.

Table 15 Floodplain Regulatory Program Status as of 1/2017

Cities	Floodplain Ordinance	Comments	Dane County FIRM Panels	NFIP Participation	Init FHBM Identified	Init FIRM Identified	Curr Eff Map Date	Reg-Emer Date
Edgerton	Yes		See Rock County maps	Yes	12/17/73	4/15/82	9/16/15	4/15/82

Data Source: FEMA Community Status Book Report

Public Involvement Activities

The City of Edgerton community participated in the County public outreach process. This was a series of public workshops held around the County in which an overview of natural hazard mitigation was given and the County plan was discussed. Residents were then given the opportunity to give their input on mitigation actions that could be taken, and filled out informational surveys that assessed the level of risk the perceived within their own community. More information on these meetings can be found in the County base plan.

Mitigation Actions

Objective #1: Continue to provide wetland education that highlights wetlands dynamic role in different areas of hazard mitigation.

Steps:

- 1) Develop informational signage about the value of wetlands
- 2) Post signage in High Street Marsh
- 3) Publish article in City newsletter

Lead Implementing Agency: Public Works Committee

Supporting Agencies:

- Edgerton school system
- County Extension

Possible Funding and Technical Assistance:

- County Extensions
- DNR

Timeline: Ongoing

Priority: Moderate

Estimated Costs: \$100

Objective #2: Continue to implement sound floodplain management practices through continued compliance with the National Flood Insurance Program, to include floodplain ordinance enforcement and periodic review, promoting the benefits of flood insurance, and continued staff training and development in floodplain management.

Steps:

- 1) Evaluate through the existing staff, County planning staff, and additional DNR staff if necessary, the regulatory deficiencies and enforcement shortcomings in flood-related ordinances and programs (see related County objective).
- 2) Periodically update ordinances as necessary.
- 3) Ensure that stop work orders and other means of compliance are being used as authorized by each ordinance.
- 4) Suggest changes to improve enforcement of and compliance with regulations and programs.
- 5) Encourage floodplain management staff to become Certified Floodplain Managers (CFM) or maintain their CFM status.
- 6) Participate in Flood Insurance Rate Map updates by adopting new maps or amendments to maps.

-
- 7) Utilize recently completed Digital Flood Insurance Rate maps in conjunction with GIS to improve floodplain management, such as improved risk assessment and tracking of floodplain permits;
 - 8) Promote and disperse information on the benefits of flood insurance, with assistance from partners such as the County, WDNR, or ASFPM.
 - 9) Evaluate the potential costs and benefits of becoming a participant in the Community Rating System.

Lead Implementing Agency: City of Edgerton City Administration

Supporting Agencies:

- Dane County Planning and Development
- Lakes and Watershed Commission
- Land Conservation Department
- Association of State Floodplain Managers
- Wisconsin Department of Natural Resources

Possible Funding and Technical Assistance:

- Staff Time

Timeline: Ongoing

Priority: High

Estimated Costs: Low; can be accomplished with existing staff and within existing department budget.