

Southeastern Wisconsin **Regional Planning Commission**



Hazard Mitigation Plan Update Local Planning Team Meeting

Washington County

May 1, 2024

Megan Shedivy – Planner, SEWRPC

Miranda Page – Planner, SEWRPC

Laura Herrick, PE, CFM - Chief Environmental Engineer, SEWRPC

- Introduction
- Meeting Agenda
- Review of Summary Notes from 2/1/2023
- Review Draft Chapters 4-6
- LPT Input
- Questions/Adjourn





Chapter 4

Hazard Mitigation Goals



●●●●● Ch. 4 – Hazard Mitigation Goals

- Preserve life and minimize the potential for injuries.
- Preserve and enhance the quality of life throughout Washington County by identifying potential property and crop damage risks and recommending appropriate mitigation strategies to minimize potential damages.
- Promote Countywide coordination, planning, and training that avoids transferring the risk of hazards from one community to an adjacent community, where appropriate.
- Maintain a spatial distribution of the various land uses that preserves and protects the natural resources of the County, including its soils, inland lakes and streams, groundwater, wetlands, woodlands, wildlife, floodplains, natural areas, and critical species habitats.
- Increase public awareness of hazards threatening life and property.
- Identify potential funding sources that can assist in implementing mitigation projects and programs.





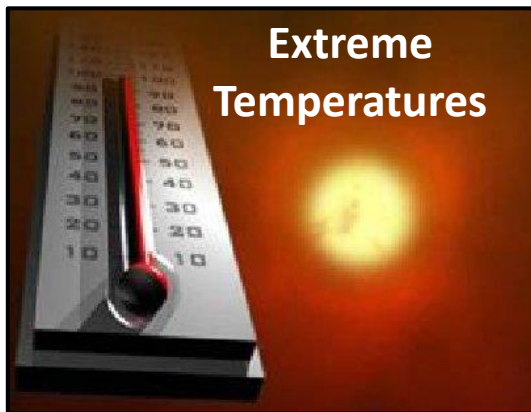
Chapter 5

Hazard Mitigation Strategies





Natural Hazards Profiled in the Plan



Chapter 5- Mitigation Strategies Overview

➤ Hazard Mitigation Strategies Outline

- Identified mitigation strategies by:
 - Nonstructural
 - Nature-based
 - Structural
 - Public information and education
- Reviewed current programs
 - Federal
 - State
 - Local
- Identified multi-jurisdictional considerations
- Evaluated alternatives and identified mitigation actions
- Hazard Risk Analysis and Prioritization: 2022



Ch. 5 – Mitigation Strategies & Cost-Benefit Analyses

- Table 5.1 – Multi-Hazards
- Table 5.5 – Flood and Associated Stormwater Drainage Problems
- Table 5.6 – Thunderstorm, Non-Thunderstorm High-Winds, Hail, and Lightning
- Table 5.7 – Tornado
- Table 5.8 – Extreme Temperatures
- Table 5.9 – Winter Storms
- Table 5.10 – Drought

More Mitigation Measures, More Savings



**One dollar invested in mitigation =
six dollars U.S. saves in future costs**



Ch. 5 – Mitigation Strategies & Cost-Benefit Analyses Table Example:

Table 5.1
Cost-Benefit Analysis for Measures Included in the Washington County Hazard Mitigation Plan: Multi-Hazards

Mitigation Measures	Estimated Cost ^a		Costs of Implementation ^b			Benefits						Community/ Jurisdictions Affected
	Capital	Average Annual Operation and Maintenance	Low	Moderate	High	Enhanced Preparedness/ Protection	Reduced Property Damage	Reduced Injuries	Reduced Mortalities	Enhanced quality of life/social benefits	Increased Environmental and/or Recreational Benefits/Ecosystems	
	Nonstructural											
Continue to enforce State building code regulations that aim to improve the ability of structures to withstand hazardous weather conditions.	-- ^c	-- ^c	X			X	X	X	X			Washington County and all local jurisdictions ^d
Encourage the periodic review and update of and/or explore the need for new municipal and County development regulations, especially in known hazard areas.	-- ^c	-- ^c	X			X	X	X	X			Washington County and all local jurisdictions ^d
Continue to encourage local municipalities to participate in the National Weather Service's (NWS) StormReady program.	-- ^c	-- ^c	X			X						Washington County and all local jurisdictions ^d
Continue the integration of hazard mitigation planning into other local planning efforts (i.e., comprehensive and land use planning).	-- ^c	-- ^c	X			X						Washington County and all local jurisdictions ^d
Create local funding opportunities and mechanisms for hazard mitigation.	-- ^c	-- ^c		X		X						Washington County and all local jurisdictions ^d
Continue to update a list of potential funding sources associated with hazard mitigation planning.	-- ^c	-- ^c	X			X						Washington County and all local jurisdictions ^d



Chapter 5 - Flood Mitigation Strategies

- Preservation of open space and sensitive areas
- Voluntary purchase, demolition, and removal or floodproofing of up to 923 structures
- Channel cleaning, maintenance, or rehabilitation for selected streams
- Stormwater management planning, regulation, and maintenance
- Restoration of prairies and wetlands
- Survey of buildings near flood hazard areas
- FEMA map updating



- Maintain early warning systems
 - NOAA Weather Radio, EAS broadcasting
- Public information and education
- Identify and advertise shelters (storm shelters, heating/cooling centers)
- Installation of community storm shelters at manufactured home parks
- Review and enforcement of building code requirements
- Continued coordination of local government emergency operations and response plan





Chapter 6

Plan Adoption, Implementation, Maintenance, and Revision



●●●●● Ch. 6 – Plan Implementation

- Plan refinement, review, and adoption

- Plan implementation strategies

- Funding sources for projects

- Plan monitoring and reevaluation strategies
 - Annual review
 - Post-disaster review

- Table 6.1 – Summary of Mitigation Measures & Funding Sources



Table 6.1
Summary of Mitigation Measures and Funding Sources

Mitigation Measures	Status	Priority	Implementation Timetable	Designated Department, Management Agency, or Personnel	Potential Funding Programs (see Appendix G)
Multi-Hazards					
Continue to enforce State building code regulations that aim to improve the ability of structures to withstand hazardous weather conditions.	Implemented	High	Ongoing	Wisconsin Department of Safety and Professional Services, Municipal Building Inspector and/or Engineer	3, 6, 7, 8, 33, 36, 64
Encourage the periodic review of and/or explore the need for new municipal and County development regulations, especially in known hazard areas.	Partially Implemented	Medium	Ongoing	SEWRPC, WCB, WCEM, WCPD	
Continue to encourage local municipalities to participate in the National Weather Service’s (NWS) StormReady program.	Not Implemented	Low	As funding and opportunities become available	NWS, WCEM	
Continue the integration of hazard mitigation planning into other local planning efforts (i.e., comprehensive and land use planning).	Implemented	High	Ongoing	FEMA, WEM, SEWRPC, WCEM, WCLC	
Create local funding opportunities and mechanisms for hazard mitigation.	Partially Implemented	Low	As funding and opportunities become available	WCB, WCEM	
Continue to update a list of potential funding sources associated with hazard mitigation planning.	Implemented	Medium	Ongoing	SEWRPC, WCEM	
Encourage agricultural producers to purchase crop insurance and promote enrollment of agricultural producers into Federal crop insurance programs.	Partially Implemented	Low	Ongoing	USDA-FSA, WCLC	
Continue coordinating emergency response and operation plans among governmental units and first responders.	Implemented	High	Ongoing	FEMA, WEM, SEWRPC, WCEM, WCLC, WCPD	
Continue to work with local fair/festival organizers to create emergency plans in case of severe weather.	Implemented	High	Ongoing	WCEM, WCPSC, WCPWC, WCSO	





Appendices



●●●●● Appendices

- A – LPT Members & Meeting Materials (To be completed)
- B – Resolution to Adopt (To be completed)
- C – Social Vulnerability Index
- D – Critical Community and Public Safety Facilities & Services
- E – Historical Sites & Districts
- F – Hazard Mitigation Materials & Related Resources
- G – Potential Funding Programs
- H – Community Capabilities Assessment (To be completed)





Community Capabilities Assessment

If you have not done so already, please take a few minutes at the end of this meeting to complete the community capabilities assessment.





LPT Input

Discuss any remaining questions,
comments, or concerns related to this
Hazard Mitigation Plan Update





LPT Input- Hazard Mit. Activities

Table 1.4
Hazard Mitigation Activities in Washington County: 2018-2024 (In progress)

Community	Project/Activity	Cost	Funding Source	Completion Date
Washington County	Updating Floodplain Studies: <ul style="list-style-type: none"> • Cedar Creek (Adopted 2022) • Milwaukee River • Upper Rock River • Tributaries of the Menomonee River (ongoing) Installment of LiDAR technology (2015) Dam Repair on Big and Little Cedar Lake County hazard mitigation plan update	120,000	WDNR, FEMA FEMA	February, 2022
City of Hartford	WDNR Dam Safety Inspection Land use zoning code re-write			November, 2022 2022
City of West Bend	Tomado Siren Maintenance and Upkeep Severe Weather Policy Updates, Training, and Drills Main Street reconstruction project (storm sewer upgrades)			
Village of Germantown	MMSD Greenseams Program Property Purchase		None	2018
	MMSD Greenseams Program Property Purchase		None	2019
	MMSD Greenseams Program Property Purchase		None	2021
	MMSD Greenseams Program Property Purchase		None	2022
Village of Jackson				
Village of Kewaskum	Annual Government Emergency Preparation Table Exercise			
Village of Newburg	Upgrade to Emergency Siren System Additional Safety Structures in Parks			
Village of Richfield	Adoption of new Village Zoning Code			2022
Village of Slinger	Upgraded Sewer Pipes Cleaned and Maintenance Work on Four Village Retention Ponds			
Town of Addison				
Town of Barton	MMSD Greenseams Program – Easement Purchase			2022
Town of Erin				
Town of Farmington	MMSD Greenseams Program – OWLT Property Purchase		WDNR Stewardship	2017
	MMSD Greenseams Program – Property Purchase		None	2019



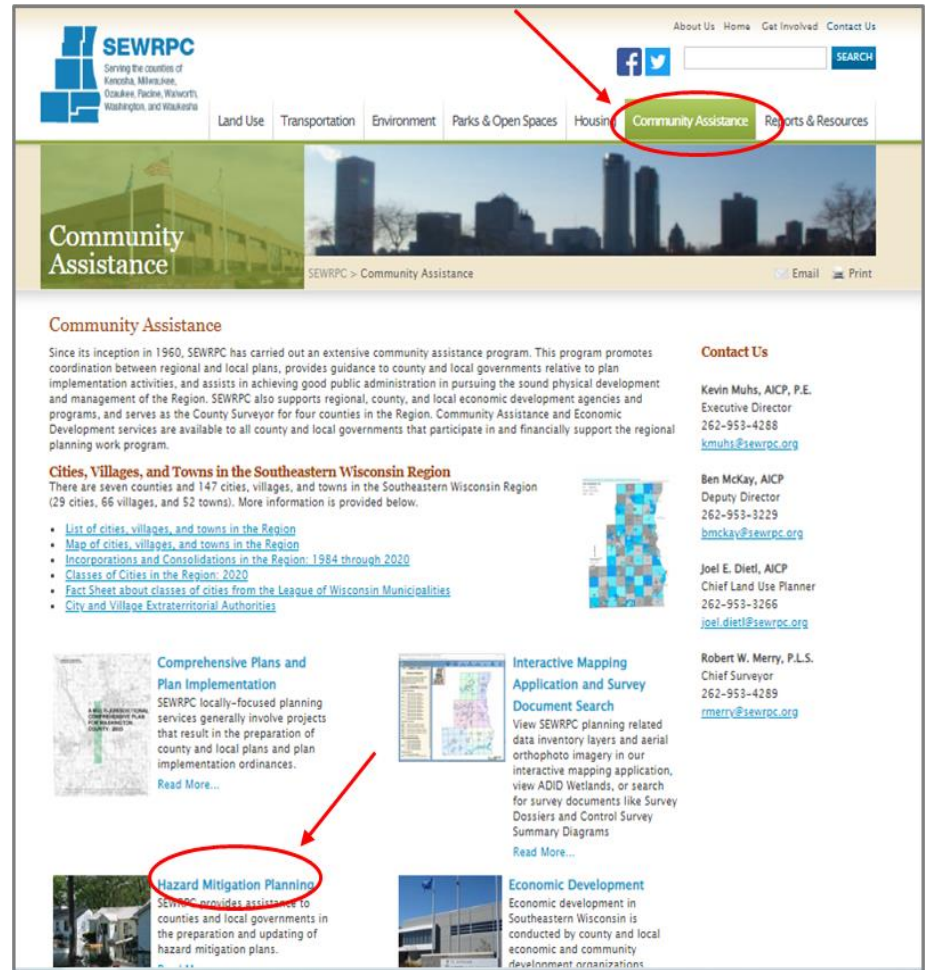
●●●●● Remaining Efforts

- Public Meeting – Tonight
- Additional comments received by May 16, 2024
- Review by the WEM and FEMA (incorporate comments/edited)
- Formal adoption by the Washington County Board in Fall 2024
- Formal adoption by the governing bodies of the incorporated municipalities of the County within **1 year**



➤ www.sewrpc.org/HMP

- Draft chapters
- Summary notes from meetings
- Presentations
- Comment Screen
- Comments can also be sent to mshedivy@sewrpc.org and/or mpage@sewrpc.org



SEND COMMENTS BY May 16th



Thank You

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