

Southeastern Wisconsin **Regional Planning Commission**



Overview of Hazard Mitigation Planning

Washington County

Hazard Mitigation Plan Update

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Worldox Number

●●●●● What is Mitigation?

➤ “Mitigation is **Any Sustained Action Taken to Eliminate or Reduce the Long-term Risk** to Human Life and Property from Natural and Technological Hazards” – *FEMA*



●●●●● What is Mitigation (Cont.)?

➤ Mitigation is Not:

- Emergency Response
- Crisis Management
- Disaster Preparation and Recovery

➤ Mitigation focuses on Reducing the Impacts of Disasters When They Occur





Why Do We Mitigate?

Nationwide Trends:

- \$450 Billion Since 2005 (GAO) Responding to Disasters
- Costs Continue to Rise
- Extreme Weather More Frequent and Intense
- People Continue to Build and Live In High-risk Areas



Why Do We Mitigate?

Wisconsin Trends:

- \$20 Billion in Disaster-Related Damages Since 1980
- 12 Federal Disaster Declarations since 2010



Why Do We Mitigate (cont)?

- Disasters Cost Society too Much
- State and Federal Aid Insufficient
- Help Prevent Future Damage
- Promote More Disaster-Resilient and Sustainable Communities
- Reduce Response and Recovery Resource Requirements
- Fosters Partnerships Among All Levels of Government
- Develop and Strengthen Non-Governmental and Private Partnerships



Value of Mitigation

- In 2019, the National Institute of Building Sciences Found That for Every \$1 Spent on Mitigation, \$6 are Saved in Avoided Future Damages
- Increases to \$7 Saved for FEMA-Funded Flood Mitigation Projects

More Mitigation Measures, More Savings

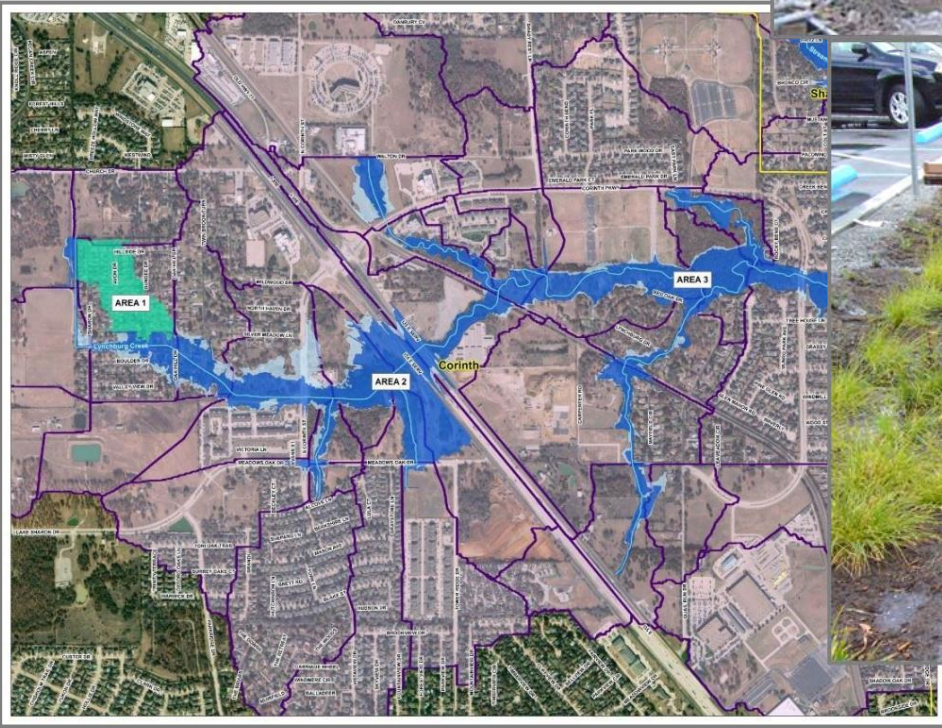


**One dollar invested in mitigation =
six dollars U.S. saves in future costs**



●●●● Different Mitigation Measures

- Structural
- Nature-Based
- Non-Structural/Other



●●●●● Structural Mitigation Projects:

Examples:

- Structure Elevation
- Acquisition/Demolition
- Utility Mitigation
- Community Safe Rooms
- Retrofit for Wind Resistance
- Dam Inspection, Maintenance, or Removal



●●●●● Nature-Based Mitigation Projects

➤ Sustainable Practices that Weave Natural Features into the Environment to Build More Resilient Communities

- Green Infrastructure
- Low Impact Development
- Natural Infrastructure
- Engineering with Nature
- Bioengineering



➤ Key Benefits Include:

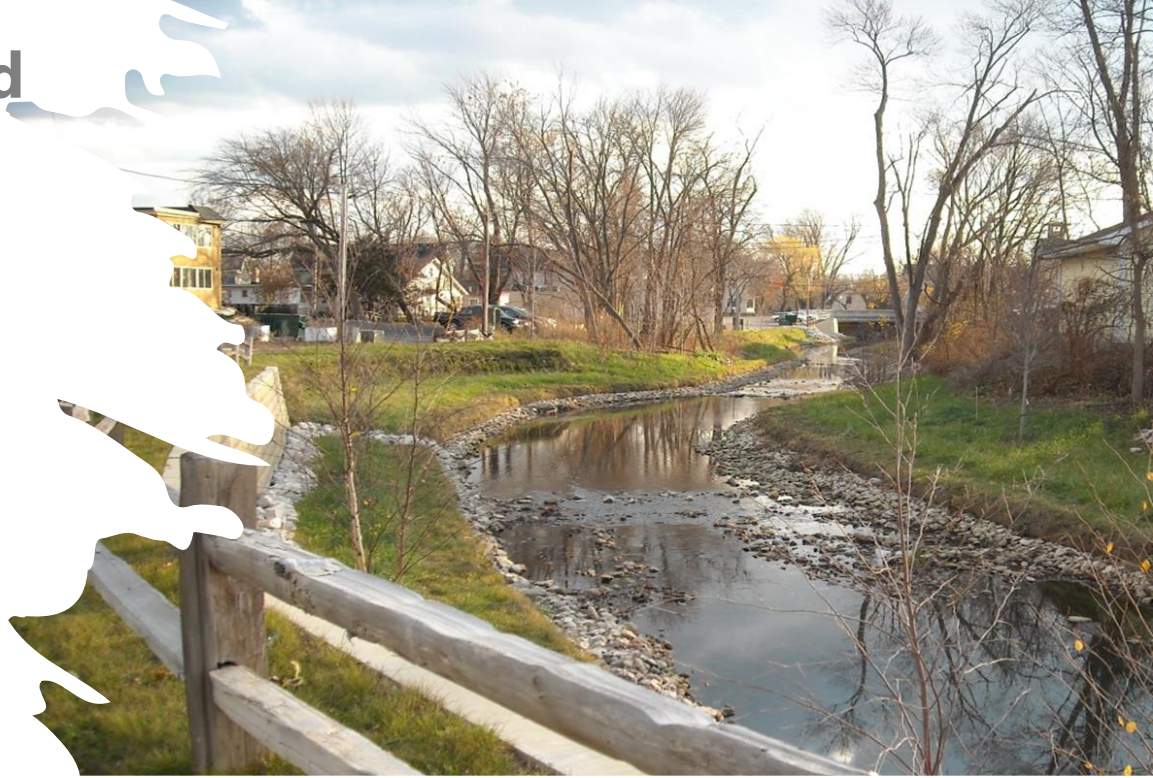
- Economic Growth
- Green Jobs
- Increased Property Values
- Improvements to Public Health



Example of Nature-Based Mitigation Projects

➤ Stormwater Management:

- Stream, Floodplain, and/or Wetland Restoration/Preservation
- Land Conservation
- Greenways
- Stormwater Parks



➤ MMSD GreenSeams Program :

- Permanently Keeps Flood-Prone Lands in High-Growth Areas from Being Developed
- Since 2001, has Preserved More Than 3,000 ac. of Land that can Store 1.3 BG of Water



●●●●● Non-Structural Mitigation Measures


- NOAA Weather Radios
- Education and Public Awareness
- Insurance (Flood and Sewer Backup)
- Land Use Planning
- Ordinances, Zoning and Building Codes






Local Mitigation Planning

- Communities Must Have an Approved HMP to be Eligible to Receive Certain Federal Funds
- In Accordance with **44 CFR 201** “Mitigation Planning” and **44 CFR 201.6** “Local Mitigation Plans”
- “Local Mitigation Planning Policy Guide (2022)”
 - Planning Components
 - Multi-Jurisdictional Plans
- Plans Must be Reviewed and Updated Every **Five** Years



Local Mitigation Planning Policy Guide

FP 206-21-0002
Released April 19, 2022, Effective April 19, 2023
OMB Collection #1660-0062



FEMA



●●●●● FEMA Assistance Programs

➤ Stafford Act:

- Individual Assistance (IA)
- Public Assistance (PA)
- Fire Mitigation Assistance Grants (FMAG)
- Hazard Mitigation Grant Program (HMGP)
- **Building Resilient Infrastructure and Communities (BRIC) Program***



FEMA

➤ National Flood Insurance Act:

- Flood Mitigation Assistance (FMA)

➤ Water Infrastructure Improvements for the Nation Act:

- Rehabilitation of High Hazard Potential Dam (HHPD) Grant Program



●●●●● Benefits of Mitigation Planning

- Protect the Health and Safety of Citizens
- Enhance Recreation and Tourism (Parks, Trails)
- Revitalize an Area
- Protect Future Development and Infrastructure
- Increase Community Pride and Improve Quality of Life
- Attract or Retain Business/Industry
- Preserve or Expand Tax Dollars



➤ Adopted 2018

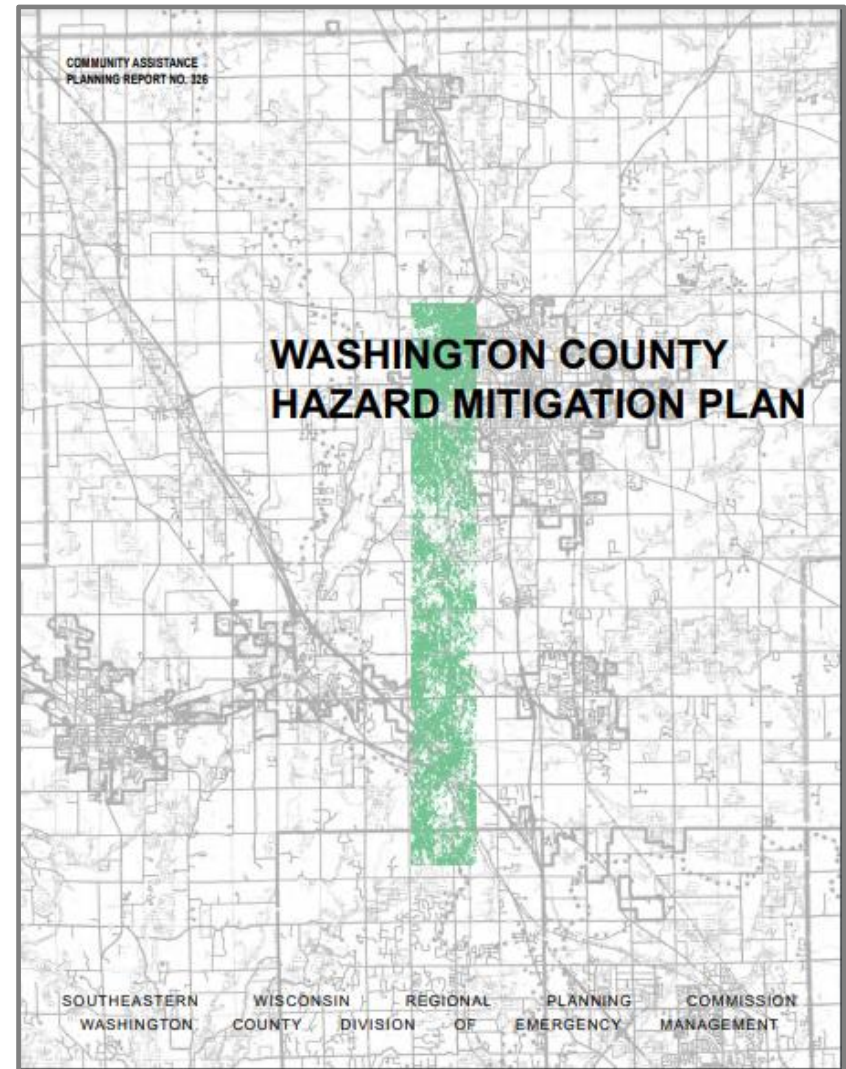
- Accordance with 44 C.F.R. Part 201.6
- Under FEMA's PDM Grant Program
- All Hazard Plan
- Multi-Jurisdictional

➤ Coordinated with other County Plans and Ordinances

➤ Plan Analysis Included:

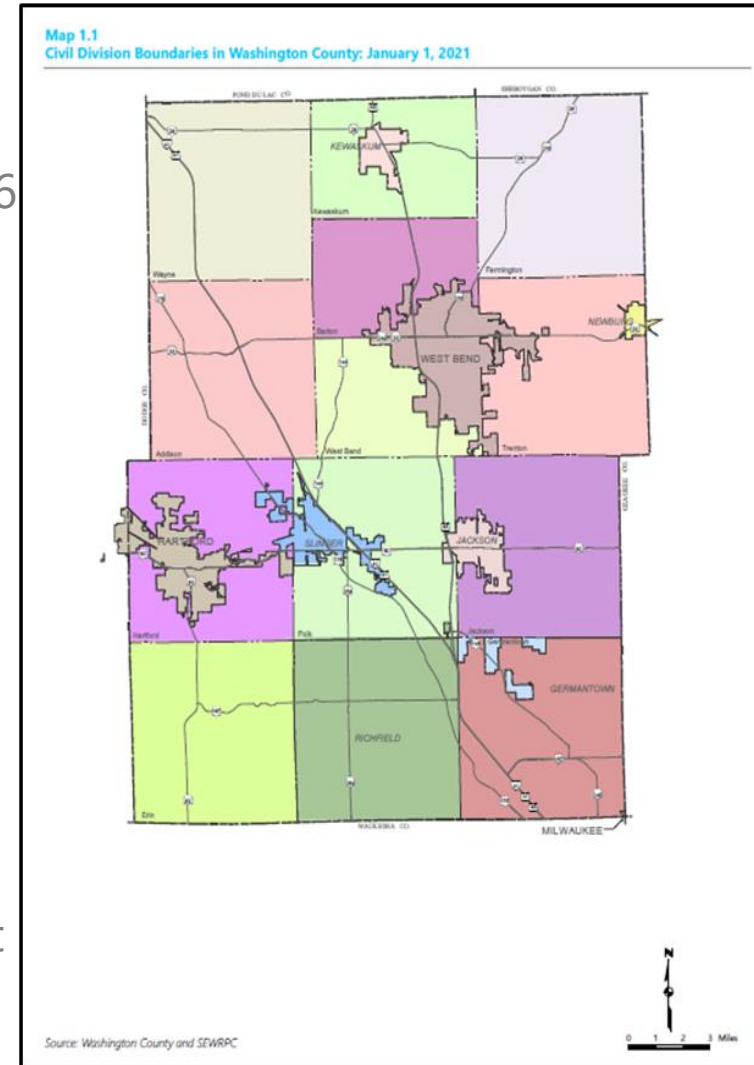
- Basic Study Area Inventory
- Hazard Identification and Mapping
- Hazard Vulnerability Assessment (HVA)
- Risk Analysis
- Mitigation Strategies and Goals
- Plan Maintenance, Implementation and Adoption

➤ LPT Review and Public Meetings



Washington County HMP Update

- Funded Under **BRIC Grant Program**
- In Accordance with Updates in 44 C.F.R. Part 201.6
- Countywide, Multi-Jurisdictional Plan
- Natural Weather Hazards Only:
 - Flooding
 - Tornadoes
 - Severe Thunderstorms
 - Extreme Temperature Events
 - Winter Storms
 - Drought
- LPT for Local Knowledge, Review and Other Input



●●●●● Washington County HMP Update

Plan Update Process will Include:

- Updating and Enhancing the Risk and Vulnerability Assessment, Including **Climate Adaptation** and **Nature-based Solutions**
- Strengthening Mitigation Strategies in Accordance with **Community Resiliency**
- Incorporating Vulnerabilities of **Underserved Populations** to Certain Hazards
- Facilitate **Stronger** Alignment with **Other FEMA Programs**, Including NFIP, CRS and Flood Risk Mapping
- Continue to Integrate other Planning Efforts
- Evaluate Existing **Building Codes**, Land Use, and Development Ordinances to Improve the Ability to Mitigation Damages from Future Hazards



Plan Chapters/Components:

1. Introduction and Background
2. Description and Inventory of Study Area
3. Analysis of Hazard Conditions
4. Hazard Mitigation Goals
5. Hazard Mitigation Strategies
6. Plan Adoption, Maintenance and Implementation



●●●●● Role of Local Planning Team (LPT)

➤ Weigh In:

- Weigh in on Hazard Identification

➤ Review:

- Review Plan Chapters

➤ Help:

- Gather Information
 - ✓ Recent/Past Hazard Locations, Occurrences, Damages, etc.
 - ✓ **Recent/Planned Projects**
 - ✓ Inventory Data



- Example of Hazard Mitigation Activities/Projects Since Last Plan:
 - Flooded Structure Buyouts
 - Stormwater Management Efforts (Storm Sewer Construction, Wetland Restoration)
 - Tornado Shelters
 - Tornado Siren Installation

- Communities to Receive Some Recognition For Work Completed Or Underway Designed To Reduce Property Damage, Injury, And Loss Of Life Due To Natural Hazards





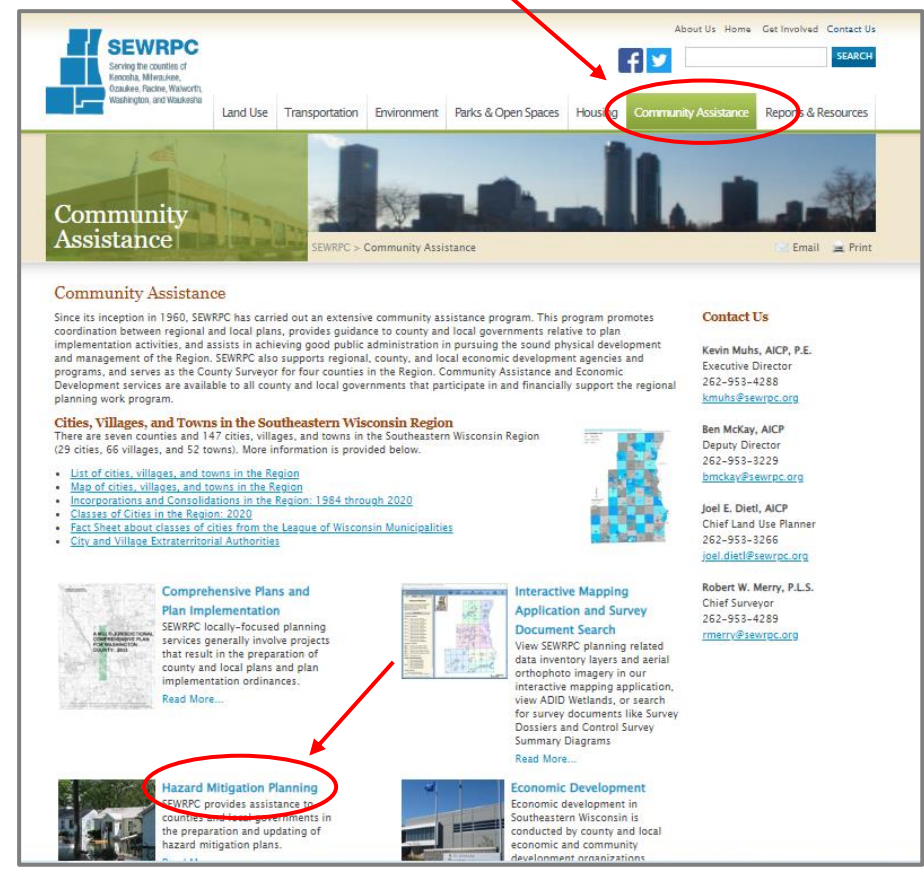
Tentative Plan Schedule

Task	Estimated Completion Date
Start of Project Update	March 2022
Update Planning Team Membership	April 2022
Kickoff Meeting	June 2022
Public Participation and Outreach	Throughout Planning Process
Review and Update Community Profile	August 2022
Chapter 1 "Introduction"	End of May 2022
Chapter 2 "Study Area Inventory"	End of August 2022
Chapter 3 "Analysis of Hazard Conditions"	End of October 2022
Planning Team Meeting (Review Chapters 1 through 3)	November 2022
Public Meeting to Review Partial Draft Plan	End of November 2022
Revise Draft Plan Based on LPT & Public Comments	December 2022
Chapter 4 "Hazard Mitigation Goals"	January 2023
Chapter 5 "Mitigation Actions/Strategies"	May 2023
Chapter 6 "Plan Adoption, Maintenance, Implementation"	June 2023
Planning Team Meeting (Review Chapters 4 through 6)	July 2023
Public Meeting to Review Draft Plan	August 2023
Submit Draft Plan Update to WEM for Review	September 2023
Formal Adoption and Approval by WEM/FEMA	November 2023
End of Grant Period	December 2024



➤ <http://www.sewrpc.org/SEWRPC/communityassistance/Hazard-Mitigation-Planning.htm>

- Agendas and other meeting materials
- Summary notes from meetings
- Presentations
- Draft chapters as they are completed
- Comment screen
- Other ways to send a comment:
 - mshedivy@sewrpc.org
 - 262.953.4286



●●●●● Hazard and Vulnerability Assessment Exercise

- Evaluate the potential that specific hazards may occur, the likely severity of impacts resulting from these hazards, and the extent to which these impacts may be mitigated by current levels of preparedness.
- Can complete today in hard copy or online. **Deadline is July 7, 2022.**





Hazard and Vulnerability Assessment Exercise

Link to Survey:

<https://arcg.is/1XmyjG1>



Thank You

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