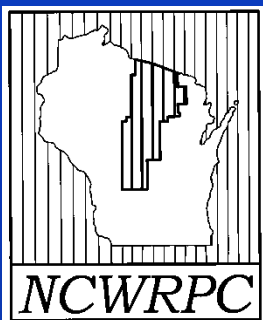




# LINCOLN COUNTY ALL HAZARD MITIGATION PLAN UPDATE PROCESS OVERVIEW

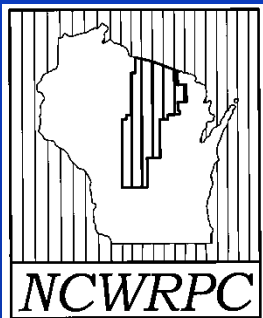


Darryl L. Landeau, AICP – Senior Planner  
North Central WI Regional Planning Commission

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# Past Work of NCWRPC in Emergency Management Planning

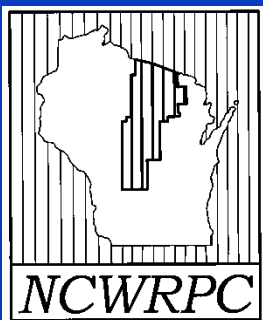
- Flood Recovery Coordinator 1993 – 1996
  - Flood Recovery Plan 1994
  - 1994-95 OEDP (CEDS) 1994
  - Strategies For Flood Damage Reduction...Town of Necedah July 1995
  - Long Range Flood Water Management Strategy for Adams County 1996
- Options for Ambulance Service - Wausau Area 1994
- Mitigation Planning Guide (2003)



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# Current Work of NCWRPC related to Emergency Management Planning

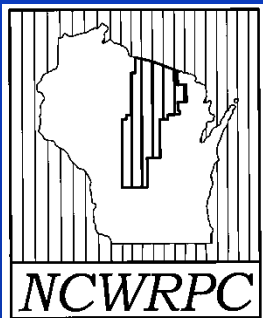
- E911 Database Development & Address Coding.
- Emergency Management Zone Mapping / Atlas Development.
- North East WI Public Safety Communication Project (NEWCOM)
- Long Term Power Outage Table Top Exercise Program.
- Regional Interoperability Coordinator Program.



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# NCWRPC MITIGATION PLANNING

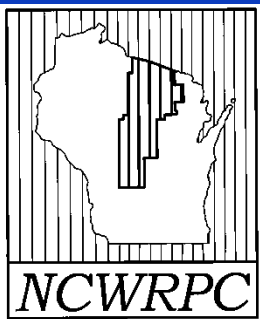
- Adams County All Hazard Mitigation Plan
  - 1st Multi-jurisdictional Plan Approved by State (Model)
  - 2009 Update
- Lincoln County Plan
- Oneida County Plan Update
- Langlade County Plan
- Forest County Plan
- Ho-Chunk Tribal Nation Plan
- Vilas County Plan (Application Pending)



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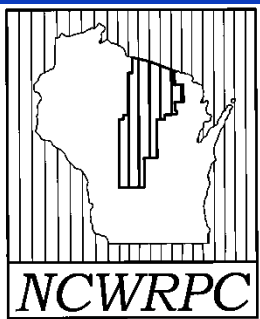
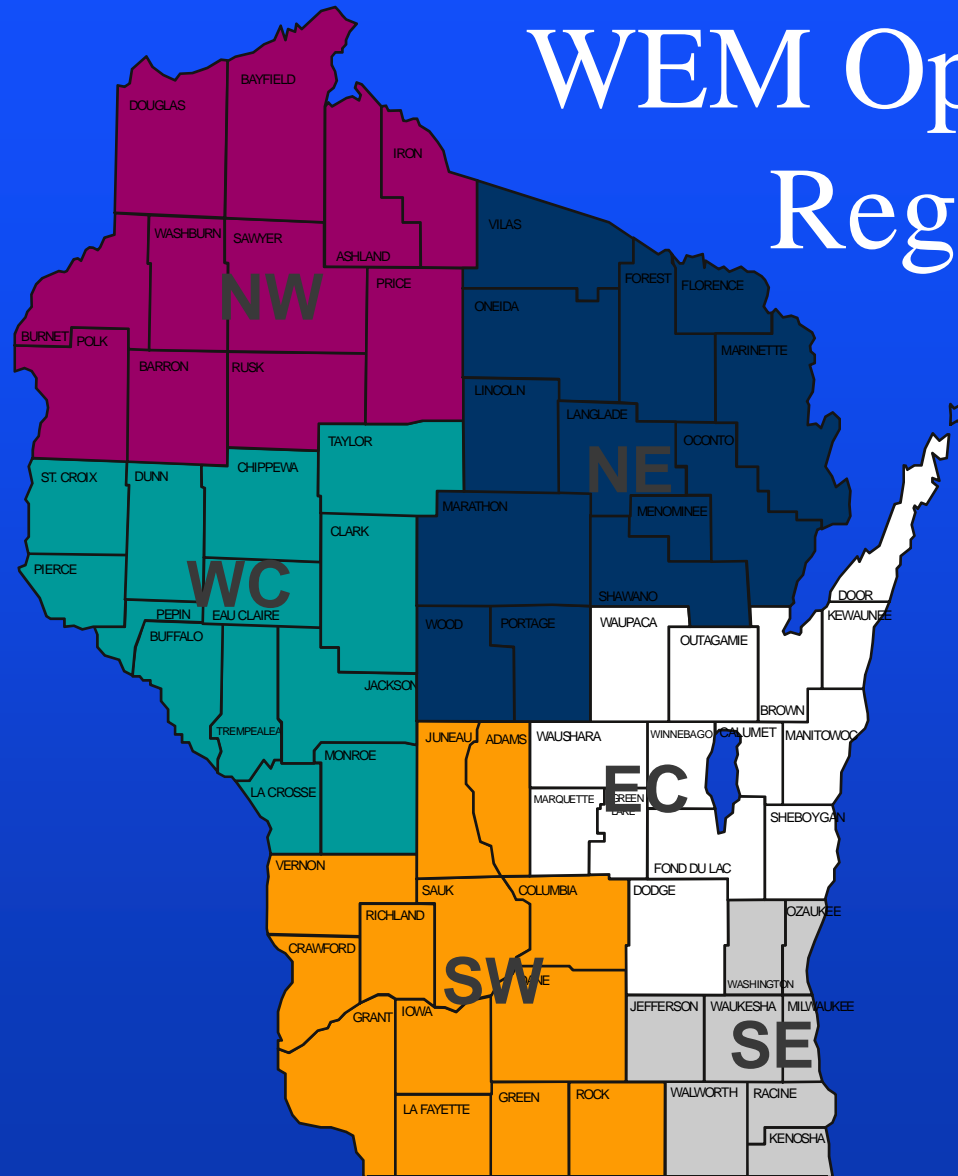
# Emergency Management System

- FEMA National, Washington, DC
- FEMA Region V, Chicago
- Wisconsin Emergency Management, Madison
- WEM (6) Regional Offices
- County Emergency Government Offices



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# WEM Operational Regions

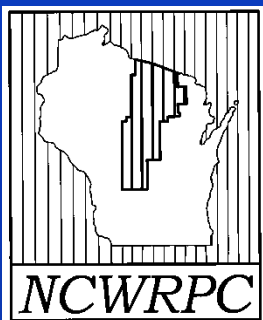


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# WEM Mission Statement

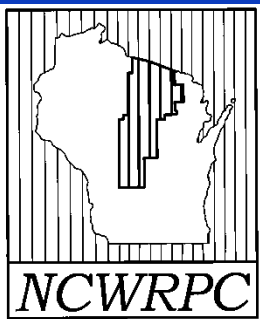


To utilize effective planning, training, and coordination to continually develop the mitigation, preparedness, response, and recovery capabilities of the State and its subdivisions for emergencies resulting from all hazards



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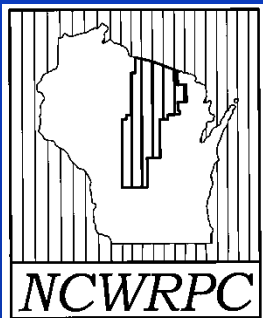
# Phases of Emergency Management



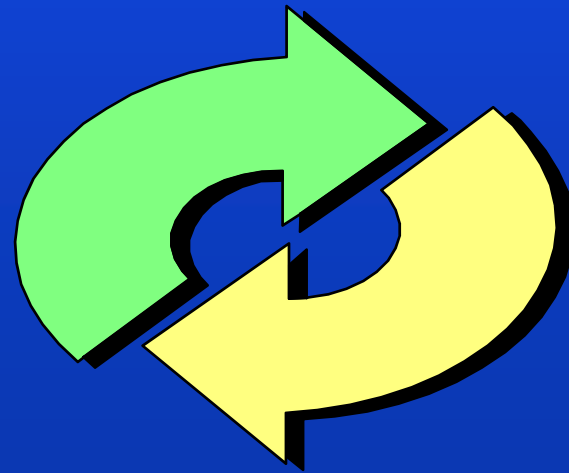
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# Preparedness

- Minimize disaster damage
- Enhance disaster response
- Prepare organizations and individuals to respond

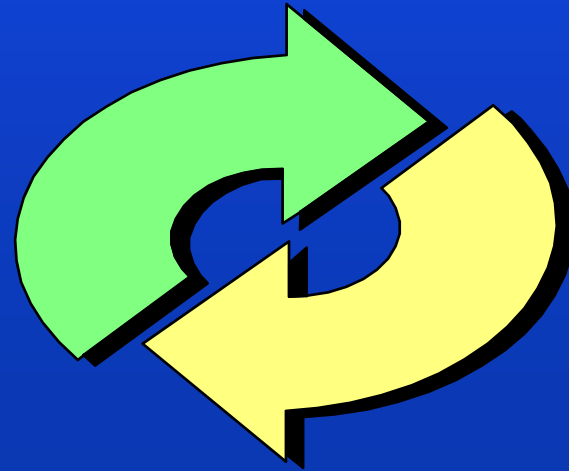
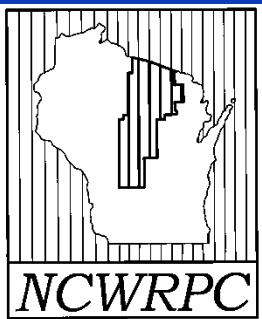


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# Response

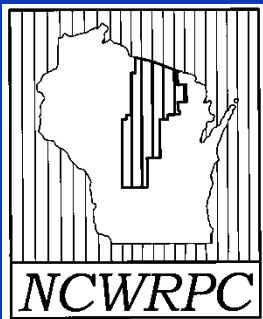
- Provide emergency assistance
- Reduce the probability of additional injuries or damage
- Speed recovery operations



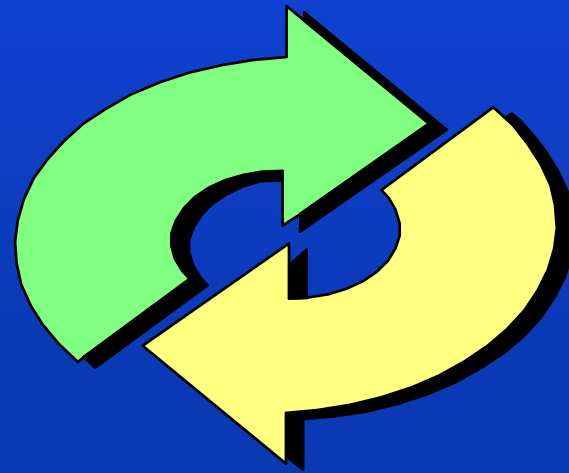
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# Recovery

- Return systems to normal levels
- Short-term vs long-term

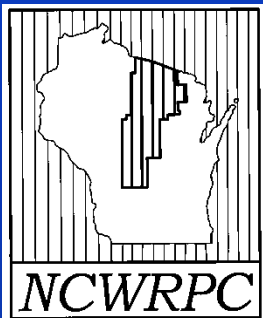


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# Mitigation

- Any action taken to eliminate or reduce the long-term risk to human life and property from natural and technological hazards. – *Wisconsin Emergency Management (WEM)*



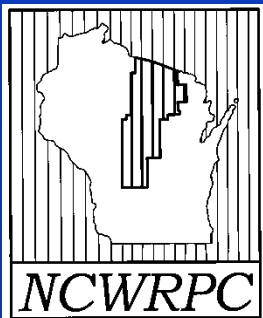
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# Mitigation



- Is one of the 4 phase of emergency management
- Occur before, during, or after the emergency or disaster in all phases of emergency management
- Is the only phase that can break the “cycle”

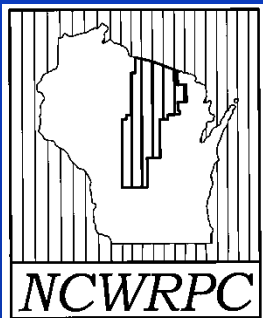


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# Benefits of Mitigation

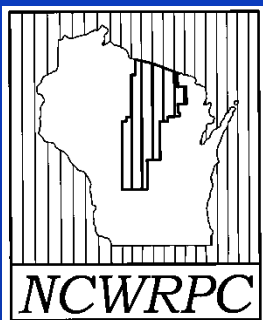


- Protect the health/safety of citizens
- Protect Property and Infrastructure
- Preserve or expand tax base
- Attract or retain business/industry
- Revitalize a depressed area
- Enhance recreation and tourism
- Increase community pride & improve quality of life
- Save tax dollars



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For every **dollar spent** on mitigation, **\$4 is saved**  
in future damages (WEM)

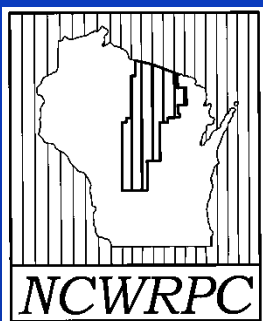


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# THE STAFFORD ACT

- “Disaster Mitigation of 2000” – DMA2K
- P.L. 106-390 signed into law 10/30/00
- Purpose to establish a national disaster hazard mitigation program
- Must have plan to be eligible for :
  - Pre-Disaster Mitigation Grant Program
  - Flood Mitigation Assistance Program
  - Hazard Mitigation Grant Program

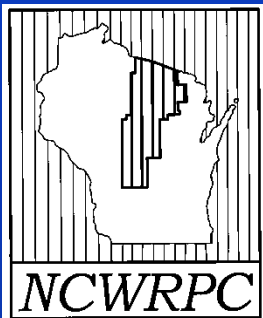


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# DMA2K - Pre-Disaster Mitigation Program



- Implement cost-effective pre-disaster hazard mitigation measures
- Public-private partnerships
- Improve hazard assessment and vulnerability
- All-Hazard Mitigation Plan with priorities

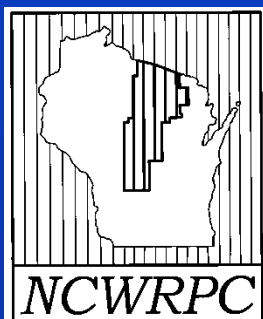


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# DMA2K – Mitigation Planning

- Increase HMGP from 15% to 20% provided the State has an approved “enhanced” Mitigation Plan
- Authorizes up to 7% of HMGP funds for development of mitigation plans
- Establishes a requirement for local and tribal all-hazard mitigation plans

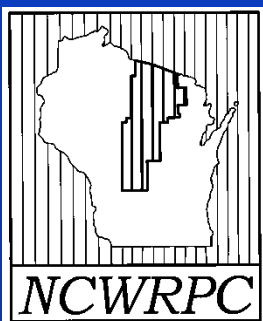


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# DMA2K Vision

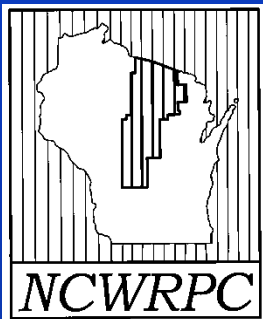
- Significant opportunity to reduce disaster losses thru pre-disaster mitigation planning
- Streamline recovery process thru planned, pre-identified, cost-effective mitigation
- Link pre- and post-disaster mitigation planning & initiatives with public/private interests for a comprehensive approach to loss reduction



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# So why does Lincoln Co. need this?

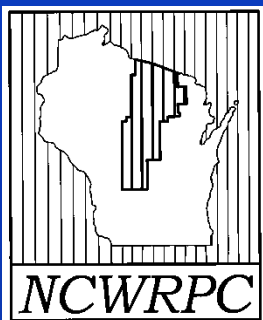
- Protect health and safety of residents from the impacts of hazards
- Prevent or reduce damages caused by hazards
- Disaster Mitigation Act of 2000 - To become eligible for certain FEMA grants
- State/Federal aid is insufficient



# LINCOLN COUNTY DISASTERS



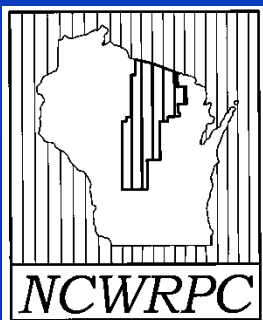
- July '93 Flooding resulted in \$4 million in crops losses
- July '97 Tornado (F2) southeast of Merrill caused \$525,000 in damages
- July '99 Lightning injured two people near Tomahawk
- July '02 Tornado (F0) caused \$100,000 in damages north of Merrill
- Sept.'02 Tornado (F2) caused \$75,000 in damages west of Tomahawk



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# Local Mitigation Planning

- Describe actions to mitigate hazards, risks and vulnerabilities
- Establish strategy to implement those actions
- Pre-identification of projects to ensure comprehensive, integrated approach to hazard reduction

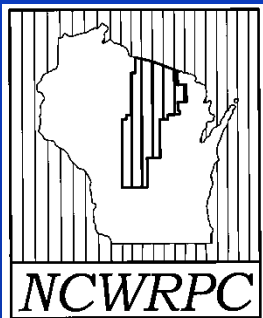


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# Local Mitigation Planning – Cont'd

- Attempts to eliminate separate planning requirements for all FEMA Mitigation Programs (HMGP, FMA, PDM, CRS)
- Condition of receiving HMGP and PDM funding
- Has to be updated and pre-approved every five years



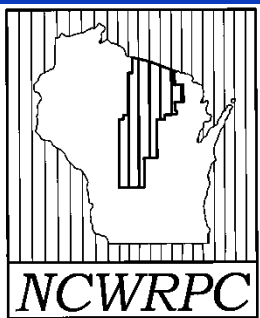
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# Multi-jurisdictional Approach

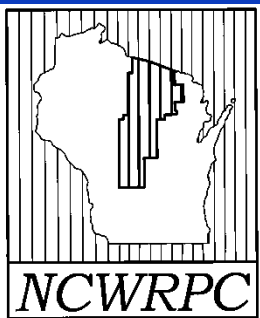
- Process requires involvement / input
  - County
  - City
  - Towns
  - Local agencies and interest groups
  - Federal / State Officials



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# Local Planning Elements

- Planning Process
- Planning Area
- Risk Assessment
- Mitigation Strategy
- Plan Maintenance Process & Adoption

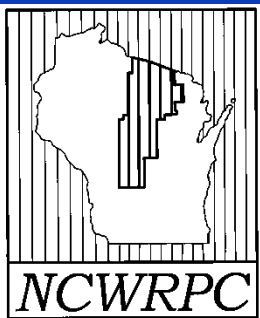


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# Planning Process

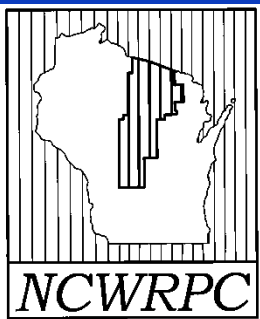
- Documentation of planning process
  - Taskforce involvement
  - Local government involvement
  - Neighboring community involvement
  - Local & Regional Agency involvement
  - Public review
  - Existing Technical data, etc. incorporated



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# Public Participation

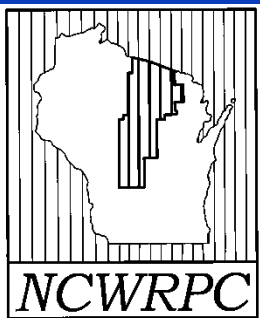
- Public Informational Meeting
- Public Hearing
- Copies Available
  - Internet
  - Libraries
  - Courthouse
- County Board Adoption





# Planning Area (Inventory and Trends)

- Demographic & Economic Profile
- Geography
- Land Use
  - Development Patterns
  - Community Facilities
  - Utilities



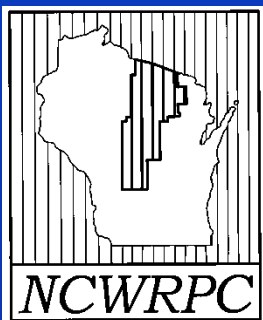
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# Risk Assessment



- Type, location and extent of natural hazards
- Past hazard events
- Probability of future events
- Type and number of existing and future buildings and infrastructure at risk for each hazard
- Potential impacts on residents and economy
- Potential dollar losses on vulnerable structures
- Land uses and development trends

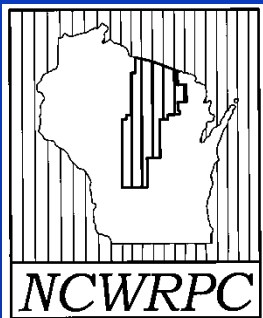


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# Identify the Hazards



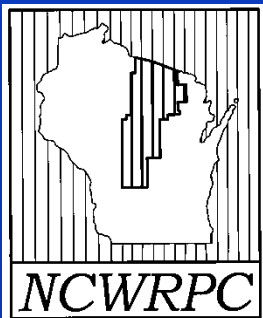
- Flooding
- Dam Failure
- Hail/Lightning
- High Winds
- Tornadoes
- Winter Storms
- Extreme Heat/Cold
- Forest Fires
- Wildland Fires
- Drought
- Fog
- Insect Infestation
- Earthquake
- Land Slide ?
- Subsidence ?



# Identify What is at Risk

## ■ Critical Facilities

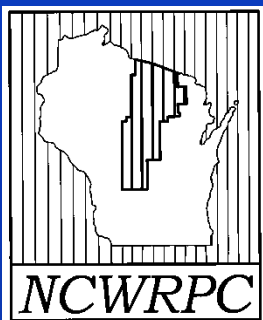
- Police, Fire, EMS
- Schools
- Public Buildings
- Hospitals and Nursing Homes
- Day Care Centers and Senior Centers
- Railroads and Airports



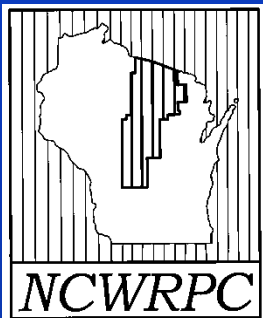
- Pipelines
- Power Plants
- Hazardous Materials Sites

## ■ Utilities

- Water
- Sewer
- Electrical
- Phone

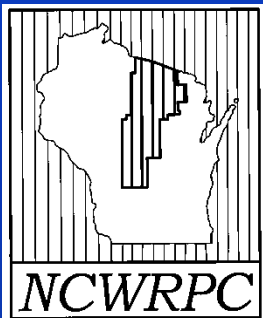


- Infrastructure (streets, bridges, storm sewers, etc.)
- Population
- Building Stock
  - Residential
  - Public
  - Commercial



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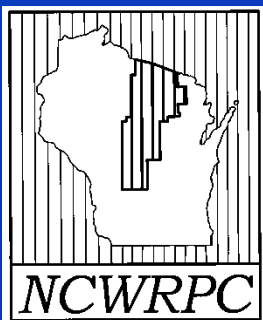
- Parks and Open Space
- Agricultural Lands



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# Vulnerability

- Based on what is at risk, identify the potential for damages from each hazard
- Looking at past history and frequency of the hazards

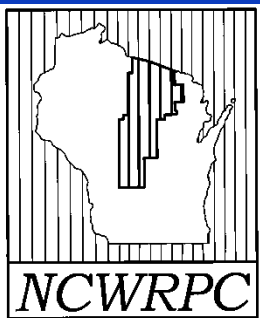


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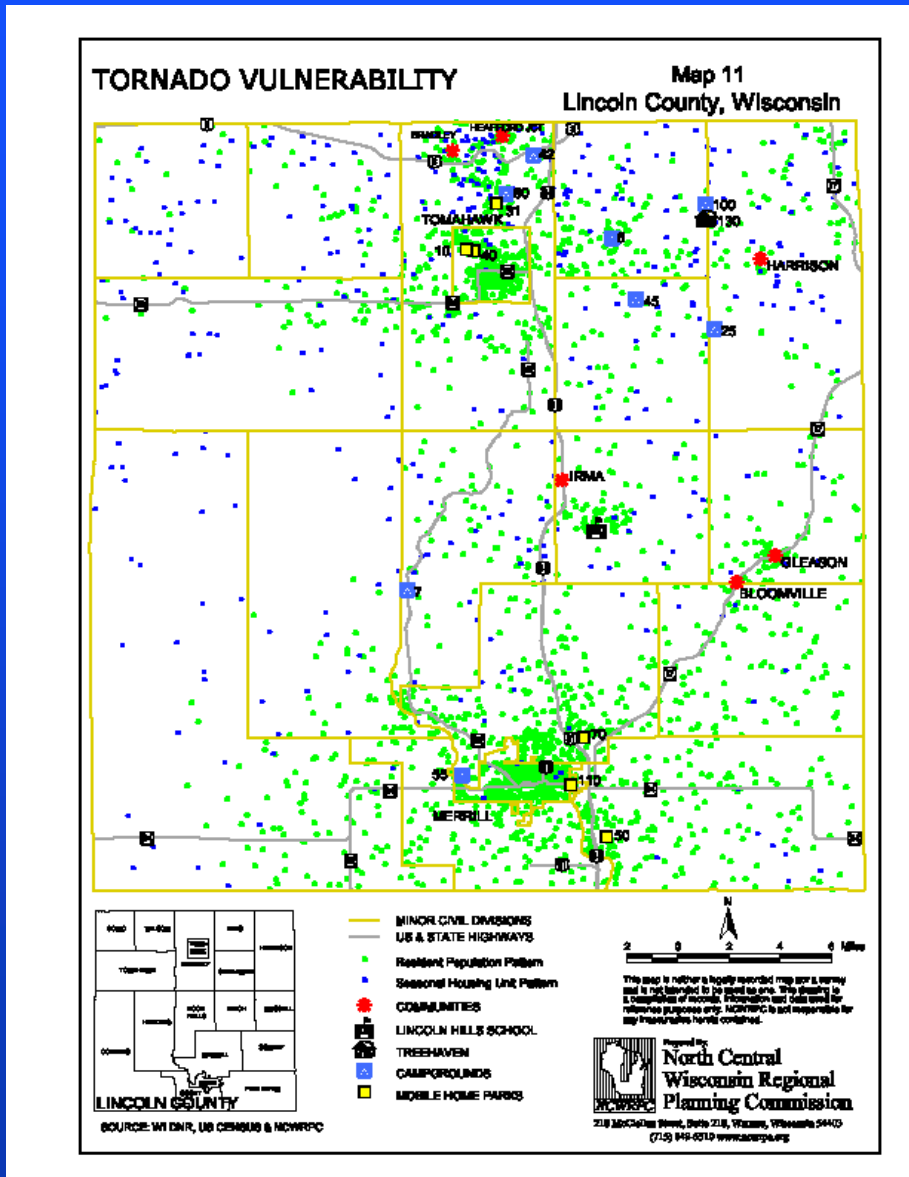
# Assessment Example

## ■ Tornado Vulnerability

- Pop. Concentration
- Mobile Home Parks
- Campgrounds



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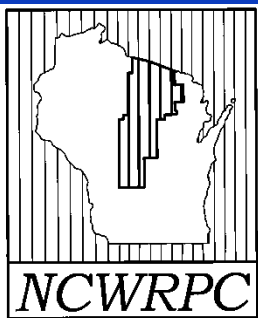
# Risk Assessment Examples –Cont'd

<b>Table 8</b>			
<b>2001 Improvement Values* of Structures in Floodplains in Adams County</b>			
<b>Municipality</b>	<b>Number</b>	<b>Sum Total</b>	<b>Average Value</b>
Adams town	5	\$67,100	\$13,420
Big Flats town	24	\$518,900	\$21,621
Calburn town	1	\$500	\$500
Dell Prairie town	24	\$1,476,100	\$61,504
Easton town	43	\$1,354,200	\$31,493
Jackson town	15	\$952,400	\$63,493
Leola town	19	\$644,100	\$33,900
Lincoln town	1	\$12,900	\$12,900
Monroe town	6	\$341,600	\$56,933
New Chester town	5	\$127,800	\$25,560
New Haven town	13	\$548,800	\$42,215
Preston town	68	\$2,952,400	\$43,418
Quincy town	84	\$3,292,500	\$39,198
Richfield town	1	\$36,000	\$36,000
Rome town	73	\$6,133,400	\$84,019
Springville town	34	\$1,554,100	\$45,709
Strongs Prairie town	10	\$381,200	\$38,120
Friendship village	4	\$96,600	\$24,150
Wisconsin Dells (part)	0	\$0	\$0
Adams city	0	\$0	\$0
Unknown	36	\$78,000	\$2,167
<b>Adams County</b>	<b>466</b>	<b>\$20,568,600</b>	<b>\$44,139</b>

Source: Adams County and NCWRPC

<b>Table 8</b>			
<b>Approximate Values of Structures in Floodplains in Lincoln County</b>			
<b>Municipality</b>	<b>Number</b>	<b>Municipal Average *</b>	<b>Total Value</b>
Birch town	1	\$78,220	\$78,220
Bradley town	79	\$130,315	\$10,294,877
Corning town	8	\$95,579	\$764,632
Harding town	10	\$124,478	\$1,244,776
Harrison town	2	\$134,801	\$269,601
King town	100	\$128,390	\$12,839,024
Merrill town	36	\$110,881	\$3,991,701
Pine River town	19	\$120,550	\$2,290,450
Rock Falls town	46	\$112,500	\$5,175,000
Russell town	29	\$75,769	\$2,197,308
Schley town	24	\$84,773	\$2,034,548
Scott town	3	\$107,522	\$322,565
Skawanaw town	8	\$103,702	\$829,615
Some town	12	\$75,357	\$904,284
Tomahawk town	16	\$99,758	\$1,596,129
Wilson town	74	\$102,904	\$7,614,926
Merrill city	143	\$84,014	\$12,013,986
Tomahawk city	2	\$96,958	\$193,915
<b>Lincoln County</b>	<b>612</b>	<b>\$100,462</b>	<b>\$61,482,623</b>

Source: U.S. Census & NCWRPC

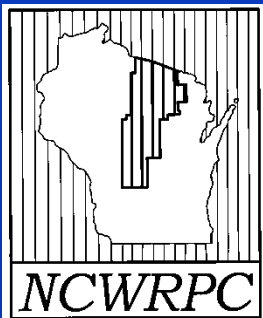


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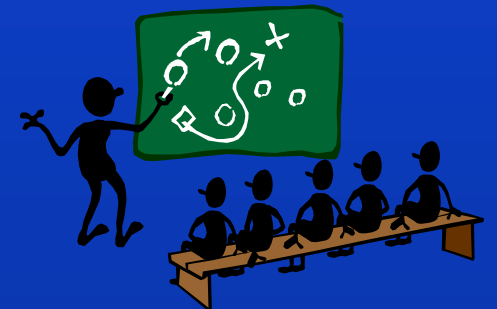


# Mitigation Strategy

- Mitigation goals and objectives
- Strategies, programs and actions to reduce or avoid vulnerabilities to hazards
- Prioritize specific cost effective mitigation projects and actions
- Compliance with NFIP
- Implementation of the plan



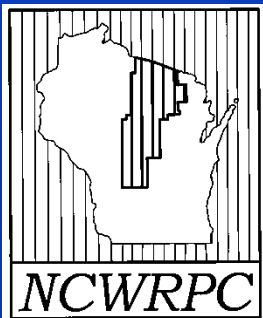
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# Plan Maintenance

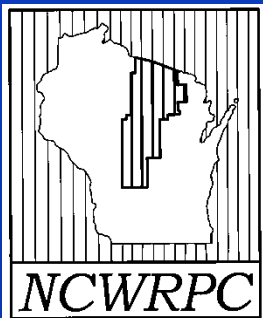
- Monitoring, evaluating, updating the plan 5-year cycle
- Continued public involvement
- Incorporate into other planning mechanisms such as comprehensive plans
- Formal adoption



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# So, where do you all fit in?

- Role of Taskforce:
  - Oversight of plan development
    - » Provide consensus and priority on hazards and implementation strategies
  - Input : representing both your agency and the best interests of Lincoln County as a whole

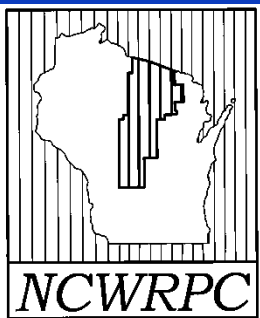


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# Questions?

- [dlandeau@ncwrpc.org](mailto:dlandeau@ncwrpc.org)



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