

RESOLUTION R-16-16

A RESOLUTION ADOPTING THE WINNEBAGO COUNTY NATURAL HAZARDS MITIGATION PLAN: 2015-2019 (5-YEAR UPDATE)

Introduced by Mayor Merkes

WHEREAS, the United States Congress passed the Disaster Mitigation Act of 2000 (DMA2K), which requires that a local unit of government must have an approved all hazard mitigation plan before it can receive Federal grant monies from the Federal Emergency Management Agency for pre-disaster mitigation projects; and

WHEREAS, the City of Menasha (City) worked with Winnebago County Emergency Management to update the countywide mitigation plan, initially adopted in 2004; and

WHEREAS, the Common Council conducted a public hearing on May 16, 2016, to accept public input concerning the undated plan; and

WHEREAS, the Common Council makes the following findings:

1. Natural disasters do pose a tangible threat to residents and property.
2. Undertaking hazard mitigation actions before disasters occur will reduce the potential for harm to resident and property and save taxpayer dollars.
3. Preparation of this plan is in the public interest.
4. This plan is intended to serve as a general strategy and may be amended from time to time.
5. Nothing in this plan obligates the City to undertake any of the recommended activities and/or projects.

NOW, THEREFORE BE IT RESOLVED, the City of Menasha hereby adopts the Winnebago County Natural Hazards Mitigation Plan: 2015-2019 (5-Year Update); and

BE IT FURTHER RESOLVED, the City Clerk is directed to send a signed copy of this resolution, at her earliest convenience to: Bernie Sorenson, Deputy Director; Winnebago County Emergency Management; 4311 Jackson Street; Oshkosh, WI 54901.

Passed and approved this ___ day of May, 2016.

Donald J. Merkes, Mayor

ATTEST: _____
Deborah A. Galeazzi, City Clerk

Winnebago County Natural Hazards Mitigation Plan: 2015-2019 5-Year Update

Executive Summary (Draft)

1. GENERAL OVERVIEW

In an effort to curb rising costs associated with natural disasters, the federal government adopted the Disaster Mitigation Act of 2000 (DMA 2000). It amended the Robert T. Stafford Disaster Relief and Emergency Act, which is the primary law at the federal level dealing with disaster planning, mitigation, response, and recovery.

DMA 2000 reinforced the importance of hazard mitigation planning to proactively devise strategies intended to avoid and reduce the negative effects of natural disasters. If a community wants to apply for grant funding from the Pre-Disaster Mitigation (PDM) Program or the Hazard Mitigation Grant Program (HMGP), it must have an approved hazard mitigation plan. If a disaster strikes a community that does not have an approved plan, it can only receive funding if it agrees to prepare a plan within one year.

Winnebago County and participating municipalities prepared a plan to meet this new requirement in 2004, and in so doing, helped its citizens mitigate the effects of natural disasters. Consistent with federal law, the county is undertaking a comprehensive five-year update of the plan (2015-2019). Although a plan must meet minimum requirements, this plan is an expression of local needs and priorities.

2. PLAN CONTENTS

The plan consists of six chapters, a map series, and a number of appendices. The first chapter provides an overview of the plan. The second chapter presents background information about Winnebago County including its setting, demographic and economic characteristics, climate, natural resources, land use, and development trends. Chapter 3 presents background information related to special needs populations and groups in the county. Chapter 4 contains a complete inventory of critical facilities in the county. Natural hazards are reviewed in chapter 5 along with estimated losses to buildings, infrastructure, and critical facilities. In chapter 6, goals, objectives, and policies are identified that will help to craft appropriate solutions to the identified problems. A range of activities are also presented to help foster hazard mitigation efforts. Various funding sources are reviewed with an eye towards identifying options for funding identified projects. Most of the maps in the plan are included in the final section of the plan.

The plan focuses on 12 types of natural hazards:

- ◆ dam failure
- ◆ flooding
- ◆ ice shoves
- ◆ dense fog
- ◆ tornadoes and high winds
- ◆ hailstorms
- ◆ thunderstorms
- ◆ winter storms
- ◆ extreme heat
- ◆ extreme cold
- ◆ drought
- ◆ wildland fire

As part of the inventory phase, 855 critical facilities in the county were identified including:

- ◆ bridges
- ◆ dams
- ◆ public-use airports
- ◆ telecommunication towers
- ◆ telephone facilities
- ◆ electric facilities
- ◆ natural gas facilities
- ◆ petroleum pipeline facilities
- ◆ public water facilities
- ◆ wastewater facilities
- ◆ fire and police services
- ◆ National Guard facilities
- ◆ government facilities
- ◆ schools (public and private)
- ◆ special care facilities-residential
- ◆ special care facilities-nonresidential
- ◆ health care facilities
- ◆ vulnerable housing, such as manufactured/mobile home parks and campgrounds

3. GOALS, OBJECTIVES, POLICIES, AND ACTIVITIES

The most important part of the plan is Chapter 6, which presents a unified plan of action to mitigate the effects of hazards on property, people, and assets. It lists goals, objectives, and policies that should guide decision-makers and other officials. Goals are intended to describe an end state, usually in general terms. In contrast, objectives describe an end state in measurable and specific terms. Policies give clear direction on what will be done to help achieve a goal and objective.

Following the listing of goals, objectives, and policies, a chart lists specific action items along with estimated implementation costs. Responsible entities are listed for each so that implementation is well defined. The activity charts are a work in progress. As items are completed they should be deleted and as new opportunities or issues arise items will be added. Further, depending on available resources, including funding and staff time, priorities may change.

Activities are prioritized as low, medium, or high. Cost estimates are provided to help formulate funding priorities. When a project is to be undertaken, a more detailed budget should be prepared to assess a project's cost. At that time a benefit cost analysis should be completed to show how the benefits of the project compare to anticipated costs. Federal funding for mitigation activities can only be obtained when benefits clearly outweigh the costs.

Goal 1. Flooding

Protect the public health, safety, and welfare of county residents and public and private property during flood events.

Objectives

1. Minimize the impact of flooding on structures.
2. Decrease the number of structures currently located in the 100-year floodplain that are not properly flood-proofed.
3. Minimize the amount of impervious surface in future development projects to allow more infiltration of stormwater into the ground.
4. Decrease the number of repetitive loss sites.
5. Increase public awareness of flooding.
6. Improve communication between the county and local units of government when floods occur or are likely to occur.
7. Increase the number of municipalities that pursue becoming part of the Community Rating System (CRS). **(New 2009)**
8. Maintain compliance with the National Flood Insurance Program (NFIP). **(New 2009, NFIP Compliance)**

Policies

1. Continue to enforce floodplain regulations to ensure that future development in the 100-year floodplain is consistent with state minimum objectives. **(NFIP Compliance)**
2. Support the identification and conservation of land with high flood mitigation value (e.g., wetlands, upland storage, and infiltration areas).
3. Support land acquisition and other management strategies to preserve open space for flood mitigation purposes.
4. Ensure that governmental officials and employees, county residents, and real estate agents are aware of floodplain regulations. **(NFIP Compliance)**
5. Ensure that people owning property in the 100-year floodplain, and their agents, notify buyers when selling their property. **(NFIP Compliance)**
6. Adopt standards to control the proportion of a site that can be covered with impervious surfaces.
7. Design all public infrastructure that is located in the 100-year floodplain to be floodproofed or otherwise protected from flood water.
8. Design and properly size all new bridges to accommodate the 100-year flood without creating a significant upstream back-water effect.
9. Continue to enforce stormwater management regulations.
10. Install flood barriers and devise flood proofing measures where necessary.
11. Use data records in on-going assessment of flood problems and effectiveness or response programs.
12. Formalize communications links and establish procedures.
13. Update flood insurance rate maps (FIRMs) when it can be shown that they are substantially inaccurate. **(NFIP Compliance)**
14. Support the continued operation of the National Weather Service monitoring station in the Town of Wolf River. **(Minor edits 2015)**
15. Ensure that all large dams in the county have emergency action plans as required.
16. Implement "no-wake" rules during periods of high water. **(New 2009)**
17. Refer to stormwater plans and analysis to ensure that mitigation projects identified in them are completed. **(New 2009)**
18. Undertake such activities as may be required to remain compliant with the requirements of the National Flood Insurance Program (NFIP). **(New 2009, NFIP Compliance)**

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Analyze repetitive flood properties and identify feasible mitigation options for each. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	Continuous		City of Oshkosh
2. Apply for funding through the federal Hazard Mitigation Grant program, Flood Mitigation Assistance Program, and the Pre-Disaster Mitigation Program as well as any other resources that may be available to help flood proof repetitive loss sites or remove them through acquisition followed by demolition or relocation. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X	X	Winnebago County Emergency Management; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
3. Design and budget for stormwater management facilities consistent with adopted stormwater management plans that have been or will be prepared / amended. (2015 Status: Ongoing)	Unknown	Departmental budget	Medium	X	X	Winnebago County Emergency Management; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne; all Towns as appropriate

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Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
4. Develop a computerized database containing information on culverts under public roadways in the county. (2015 Status: Ongoing)	Staff time	Departmental budget	Low	X		Winnebago County Planning, Zoning & GIS Department; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
5. Identify those culverts and bridges that are undersized or are otherwise unable to handle expected flood flows. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		County Highway Department; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
6. Prepare a strategy to prioritize efforts to ensure that existing culverts and bridges are retrofitted to handle expected flood flows. (2015 Status: Ongoing)	Unknown	Departmental budget	Medium	X		County Highway Department; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
7. Prepare a strategy to prioritize road improvements for public roadways that are susceptible to flooding. (2015 Status: Ongoing)	Unknown	Departmental budget	Medium	X	X	County Highway Department; Winnebago County Planning, Zoning & GIS Department; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
8. Identify specific areas with flood mitigation value and develop appropriate strategies for protection. (2015 Status: County comprehensive plan has been adopted – additional follow-up to continue.)	Staff time	Departmental budget	High	X		County Highway Department; Winnebago County Land and Water Conservation Department
9. Establish a framework to compile and coordinate surface water management plans and data throughout Winnebago County. (2015 Status: To do yet)	Staff time	Departmental budget	High	X	X	Winnebago County Land and Water Conservation Department
10. Post flood recovery plans and programs to help county residents rebuild and implement mitigation measures to protect against future floods. (2015 Status: To do yet)	Staff time	Departmental budget	High	X	X	Winnebago County Land and Water Conservation Department
11. Distribute National Flood Insurance Program Information. (NFIP Compliance) (2015 Status: Ongoing)	\$1,000	Departmental budget	Medium	Continuous		Winnebago County Planning, Zoning & GIS Department
12. Explore options for improving the ability of local units of government to report flooding, receive information, and request assistance. (2015 Status: To do yet)	Staff time	Departmental budget	High	X		Winnebago County Planning, Zoning & GIS Department
13. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	Continuous		Winnebago County Emergency Management
14. Evaluate the support for and the feasibility of becoming part of the Community Rating System to lower flood insurance premiums for property owners. (NFIP Compliance) (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		Cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
15. Create a brochure containing information about various flood dangers that exist in Winnebago County. (2015 Status: To do yet)	Staff time	Departmental budget	Medium	X		Winnebago County Emergency Management; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
16. Provide information and offer education to make people aware of natural floodplain resources and functions and how they can protect them. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		Winnebago County Emergency Management; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
17. Review and update the "Riverview Lane Emergency Action Plan" as adopted by the Board of County Supervisors on July 16, 1991. (2015 Status: Ongoing)	Staff time	Departmental budget	High	X		Winnebago County Emergency Management; Winnebago County Planning, Zoning & GIS Department; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne

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Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
18. Work with DNR to prepare Emergency Action Plans for large dams in the County. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		Winnebago County Planning, Zoning & GIS Department; owners of dam; City of Oshkosh for Armory Detention dam
19. Further study what the potential hazards are for the critical facilities that are located in the 100-year floodplain. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		Winnebago County Planning, & Zoning
20. All projects identified in stormwater management plans that will lessen flooding should be accomplished when funding is available for them. (2015 Status: Ongoing)	Specific to each individual project	Departmental budget	High	X	X	Winnebago County Emergency Management, Local Public Works Departments, applicable local jurisdictions
21. Determine the feasibility and cost effectiveness of various alternatives to deal with recurrent flooding problems that are happening in the Sleepy Hollow subdivision in the City of Omro. (2015 Status: ??)	Unknown	Departmental budget	High	X		City of Omro
22. Analyze and review ways to retain and control water in Honey Creek and its tributaries to ensure that excessive volumes of rain will not flood the SW quarter of the Town of Algoma. The northern end of the town near Horse Shoe Road should also be looked at for ways to reduce flooding. Any mitigation projects resulting from this analysis would also allow safer water flows to Lake Butte des Morts. (2015 Status: ??)	Unknown	Departmental budget	High	X	X	Town of Algoma
23. Create a Storm Water Assessment for the Town of Algoma. (2015 Status: ??)	Unknown	Departmental budget	High	X		Town of Algoma
24. Develop a Manitowoc/Brighton Beach Roads Storm Water Project. (2015 Status: ??)	Unknown	Departmental budget	High	X		Winnebago County Emergency Management, Town of Menasha Public Works Department
25. Implement specified stormwater mitigation projects enumerated in stormwater management plans and studies. (2015 Status: Ongoing)	Cost will vary by project	Departmental budget	High		Continuous	City of Oshkosh
26. Implement the recommendations for a regional detention pond system along Honey Creek (to Lake Butte des Morts) listed in The Stormwater Management Plan (Strand, v. 7/99). (2015 Status: ??)	\$1,965,000	Capital budget	High	X		Town of Algoma
27. River gauge for the Town of Wolf River (Fremont) south of Fremont (2015 Status: ??)	Unknown	Departmental budget	High	X		Town of Wolf River
28. River gauge for the Fox River in Omro (2015 Status: ??)	Unknown	Departmental budget	High	X		City of Omro
29. Libbey / Nicolet Detention Basin (2015 Status: Slated for 2016)	\$3,750,000	Departmental budget	High	X		City of Oshkosh
30. Campbell Creek Westhaven East (2015 Status: Dropped from further consideration, not deemed feasible)	\$11,382,800	Capital budget	High	X		City of Oshkosh
31. Sawyer Creek Westhaven West (2015 Status: Dropped from further consideration, not deemed feasible)	\$7,562,500	Capital budget	High	X		City of Oshkosh
32. Glatz Creek stormwater structures (2015 Status: Ongoing)	\$2,500,000	Capital budget	High	X		City of Oshkosh
33. Stringham Creek South Park Ponds (2015 Status: ??)	\$625,000	Capital budget	Medium	X		City of Oshkosh

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Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
34. Fernau Watershed Detention (2015 Status: ??)	\$2,750,000	Capital budget	High	X		City of Oshkosh
35. Gallups Creek Flood Study (2015 Status: ??)	\$60,000	Capital budget	High	X		City of Oshkosh
36. Gallups Creek Detention (2015 Status: ??)	\$2,500,000	Capital budget	High	X		City of Oshkosh
37. Johnson Creek Flood Study (2015 Status: ??)	\$50,000	Capital budget	High	X		City of Oshkosh
38. Johnson Creek Detention (2015 Status: ???)	\$2,500,000	Capital budget	Medium	X		City of Oshkosh
39. Replace the existing four 60-inch culverts with one 20-foot clear span box culvert or a bridge on County Road N, ¼ mile east of James Rd. (2015 Status: Ongoing)	\$103,000	Capital budget	High	X		Winnebago County Highway Department
40. Revise existing floodplain regulations to ensure they comply with the most recent (2013) model floodplain regulations developed by the Wisconsin Department of Natural Resources. (NFIP Compliance, New 2009)	Staff time	Departmental budget	High	X		Cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; and Village of Winneconne
41. West Murdock Avenue Watershed Upgrades (2015 Status: Not done yet)	\$3,250,000	Capital budget	Low	X		City of Oshkosh
42. EB4 Thackery Dr. Detention Basin (2015 Status: ??)	\$315,000	Capital budget	High	X		Town of Algoma
43. WB1 – WB4 Hy 21 & Leonards Point Rd Detention Basin (2015 Status: ??)	\$650,000	Capital budget	High	X		Town of Algoma
44. WB2-WB6 Horseshore Road Detention Basin (2015 Status: ??)	\$475,000	Capital budget	High	X		Town of Algoma
45. Leonards Point Lane Detention Basin (2015 Status: ??)	\$325,000	Capital budget	High	X		Town of Algoma
46. Oakwood Rd Box Culvert (2015 Status: Ongoing - verify)	\$200,000	Capital budget	High	X		Town of Algoma
47. East Reighmoore Rd Flood Prevention (2015 Status: ??)	\$300,000	Capital budget	High	X		Town of Omro
48. West Reighmoore Rd Flood Prevention (2015 Status: ??)	\$90,000	Capital budget	High	X		Town of Omro
49. Sammers Bay Culvert for Flood Prevention (2015 Status: ??)	\$25,000	Capital budget	High	X		Town of Omro
50. Sand Pit Road Culvert Replacement (2015 Status: ??)	\$150,000	Capital budget	High	X		Town of Omro
51. Youngs Channel Road Flood Proofing (2015 Status: ??)	\$225,000	Capital budget	High	X		Town of Omro
52. Valley Road Storm Water project (2015 Status: To be done yet)	Unknown	Capital budget	High	X		Town of Menasha, City of Menasha, Winnebago Co. Highway
53. Stroebe Island causeway reconstruction/stabilization (2015 Status: budgeted with construction in 2016)	Unknown	Capital budget	High	X		Winnebago County Emergency Management, Town of Menasha Public Works
54. Stormwater diversion and Red Oak Ravine reconstruction (New 2015)	Unknown	Capital budget	High	X		Town of Menasha in cooperation with City of Appleton
55. Planning for Green Valley Ditch Flood Control (New 2015)	Unknown	Capital budget	High	X		Town of Menasha in cooperation with Town of Neenah
56. Establish a workgroup to evaluate flooding from Seventh Street to Eighth Street from Grove Street to Melissa Street (New 2015)	Unknown	Departmental budgets	High	X		City of Menasha (public works)

Completed Tasks/Projects

Description	Responsible Entity
Review the cost-effectiveness of working with the Federal Emergency Management Agency (FEMA) to review its community rating. The project should only proceed if it proves to be cost-effective. (#14 in 2009 plan)	Winnebago County
Put up "no-wake" signs for boaters on the lakes during times of high-water (#21 in 2009 plan)	Winnebago County
County Road N road improvements to stop road flooding and shoulder and ditch washouts near the intersection of County Road I south of Oshkosh. (#28 in 2009 plan)	Winnebago County
Campbell Creek Landmark to Tipler Storm Sewer (#31 in 2009 plan)	City of Oshkosh
Campbell Creek Tipler Dry Detention Pond (#33 in 2009 plan)	City of Oshkosh
825 North Westfield Street Acquisition/Demolition (#34 in 2009 plan)	City of Oshkosh
805 - 815 North Westfield Street Acquisition/Demolition (#35 in 2009 plan)	City of Oshkosh
Campbell Creek Armory Wet Detention Pond (#36 in 2009 plan)	City of Oshkosh
1725 Robin Avenue Acquisition/Demolition (#38 in 2009 plan)	City of Oshkosh
Glatz Creek Flood Study (#42 in 2009 plan)	City of Oshkosh
Sawyer Creek Oakwood Road Detention (#45 in 2009 plan)	City of Oshkosh
Femau Watershed Flood Study (#46 in 2009 plan)	City of Oshkosh
Sawyer Creek James Road Area Detention (#52 in 2009 plan)	City of Oshkosh
Stringham Creek 1100 West South Park Avenue Detention Ponds (#53 in 2009 plan)	City of Oshkosh
Stringham Creek USH 41 Detention Ponds (#54 in 2009 plan)	City of Oshkosh
Replace the deteriorating 3 foot x 4 foot concrete box culvert under County Road I, just south of Black Wolf Avenue, with new #54 arch CMP. This would improve the flow of water through the culvert due to the fact that the concrete box culvert is breaking and has pieces blocking the flow line in it. (#55 in 2009 plan)	Winnebago County
Create a Storm Water Assessment for the Town of Menasha. (#69 in 2009 plan)	Town of Menasha
Southwood Drive/Wilson Avenue Storm Water project. (#71 in 2009 plan)	Town of Menasha

Goal 2. Tornadoes

Lessen the impacts to Winnebago County residents from the effects of a tornado to the extent feasible and speed recovery following an event.

Objectives

1. Increase public education and awareness of the potential severity of tornadoes.
2. Minimize the amount of time that businesses damaged by a tornado are not operational.
3. Minimize the amount of time it takes to rebuild or restore dwellings damaged by a tornado.
4. Prevent injuries and death from tornadoes.

Policies

1. Bury overhead power and utility lines where feasible as a way to reduce power outages during all types of storm events.
2. Require that mobile homes and manufactured housing are securely anchored in place.
3. Ensure that adequate tornado shelters are available to county residents especially those living in mobile home parks.
4. Include redevelopment objectives in smart growth comprehensive plans to support post-disaster development activities.
5. Continue to support the efforts of weather spotters.
6. Keep the current siren system functioning and in good repair.
7. Encourage residents to obtain NOAA weather radios especially in those areas of the county that are not covered by a siren.

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Annually, update the contact telephone number for each of the shelters. (2015 Status: Ongoing)	Staff time	Departmental budget	Low	X	X	Winnebago County Emergency Management; American Red Cross
2. Conduct a facility survey every three years of each shelter in the county and update records accordingly. (2015 Status: Ongoing)	Staff time	Departmental budget	Low	X	X	American Red Cross
3. Apply for mitigation funding to purchase NOAA weather radios for county residents. (2015 Status: Ongoing)	Staff time	Departmental budget	Low	X	X	Winnebago County Emergency Management; local jurisdictions
4. Study the feasibility of and support for adopting a local regulation which would require new mobile home parks and future expansions of existing parks to provide for a tornado shelter. (2015 Status: Ongoing)	Staff time	Departmental budget	High	X		Winnebago County Planning, Zoning & GIS Department; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; and Village of Winneconne
5. Evaluate the need for constructing tornado shelters to serve vulnerable residents and construct facilities where needed (2015 Status: Ongoing)	\$100,000	Capital budget, federal matching grants	High	X		Winnebago County Emergency Management; local jurisdictions and other partners as appropriate
6. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	\$1,000	Departmental budget	High		X	Winnebago County Planning, Zoning & GIS Department; Emergency Management

Completed Tasks/Projects

Description	Responsible Entity
Develop and implement strategies for debris management (#5 in 2009 plan)	Winnebago County

Goal 3. Extreme Temperatures (Cold and Heat)

Protect the health of Winnebago County residents from extreme temperature.

Objectives

1. Prevent deaths from extreme temperature.

Policies

1. Encourage volunteers to look after vulnerable individuals, especially the elderly, during times of extreme temperature.
2. Open county and other public facilities with air conditioning as appropriate for public access during periods of extreme heat.
3. Ensure that county residents are aware that there are different forms of assistance to help qualified individuals pay their winter heating costs.

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Call a meeting of public and nonprofit organizations that may be able to mobilize a volunteer corps of individuals willing to assist vulnerable people during periods of extreme temperature. (2015 Status: To do yet)	Staff time	Departmental budget	High	X	X	Winnebago County Emergency Management; Winnebago County Human Services; ADVOCAP; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne; American Red Cross; County and local health departments
2. Publicise available programs that help residents pay for their utility expenses. (2015 Status: Ongoing)	\$1,000	Departmental budget	Medium	Continuous		Winnebago County Emergency Management; Winnebago County Human Services; ADVOCAP; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne; American Red Cross
3. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	Staff time	Departmental budget	High	X	X	Winnebago County Planning, Zoning & GIS Department; Emergency Management
4. Investigate the possibility of establishing a database of individuals who are vulnerable to extreme temperature and who have voluntarily placed their name on the call list (New 2015)	Staff time	Departmental budget	High	X		Winnebago County Emergency Management; Winnebago County Human Services;

Completed Tasks/Projects

Description	Responsible Entity
Develop a directory of public buildings that would be open to the public during heat waves. (# 1 in 2009 Plan)	Winnebago County

Goal 4. Severe Storms, Hail, & High Winds

Protect and prepare Winnebago County residents from the dangers of extreme weather events.

Objectives

1. Increase public education and awareness of the potential dangers of thunderstorms, snow storms, hail, and windstorms.

Policies

1. Bury overhead power and utility lines where feasible as a way to reduce power outages during all types of storm events.
2. Provide citizens with early storm warnings.
3. Encourage the use of surge protectors on critical electronic equipment in governmental and critical facilities.
4. Work with utility companies to assess and to improve, when necessary, electric service reliability.
5. Work with utility companies to ensure that trees are properly trimmed near utility lines.

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Continue to update and/or monitor the County's public early warning system and network. (2015 Status: Ongoing)	Staff time	Departmental budget	High	Continuous		Winnebago County Emergency Management
2. Produce and distribute emergency preparedness information related to thunderstorms, snow storms, hailstorms, and windstorm hazards. (2015 Status: Ongoing)	\$4,000	Departmental budget	Medium	Continuous		Winnebago County Emergency Management; American Red Cross; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
3. Identify and pursue funding opportunities to develop and implement local and county mitigation activities. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	Continuous		Winnebago County Emergency Management; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
4. Install lightning grade surge protection devices for critical electronic components used by government, public service, and public safety facilities, such as warning systems, control systems, communications, and computers. (2015 Status: Ongoing)	\$2,500	Departmental budget	Medium	X	X	Winnebago County Information Systems; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne;
5. Provide the public with information about proven lightning safety guidelines to reduce the risk of lightning hazards. (2015 Status: Ongoing)	\$2,000	Departmental budget	Medium	Continuous		Winnebago County Emergency Management; American Red Cross; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne; National Weather Service
6. Apply for mitigation funding to purchase NOAA weather radios for county residents. (2015 Status: To do yet)	\$25 to \$50 per radio	Capital budget, federal grants	Low	Continuous		Winnebago County Information Systems; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
7. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	\$1,000	Departmental budget	High	X		Winnebago County Planning, Zoning & GIS Department; Emergency Management
8. Install a backup generator or a prewired hook-up at critical facilities related to public safety. (2015 Status: To do yet)	\$3,000 to \$8,000 per site	Capital budget	Medium	X		Winnebago County Emergency Management; Cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne

Completed Tasks/Projects

Description	Responsible Entity
Develop and implement strategies for debris management. (#6 in 2009 Plan)	Winnebago County

Goal 5. Drought

Protect the public health, safety, and welfare of Winnebago County residents during periods of drought.

Objectives

1. Decrease water use during periods of drought.
2. Minimize the economic impacts of drought on the local economy.

Policies

1. Encourage water conservation during periods of drought.
2. Impose watering restrictions during periods of extreme drought.
3. Work with multiple agencies to conserve water, provide drought prediction, and provide stream and groundwater monitoring.
4. Work with agencies that can assist with and promote soil health, preserve soil moisture and help to minimize the loss of the crops and topsoil in the event of a drought.
5. Continue to monitor groundwater levels to identify the status of groundwater resources and trends.
6. Work cooperatively with state agencies and other levels of government in developing appropriate strategies on a regional basis.
7. Provide water for livestock when the needs of humans have been or are being met.

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Create an ordinance to prioritize or control water use during drought conditions. (2015 Status: To do yet)	Staff time	Departmental budget	High	X		County Board; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
2. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	\$1,000	Departmental budget	High	X		Winnebago County Planning, Zoning & GIS Department; Emergency Management

Completed Tasks/Projects

Description	Responsible Entity
Provide public education about the potential severity of drought events (#2 in 2009 plan)	Winnebago County
Develop a set of procedures for water distribution during drought to those in need. (#3 in 2009 plan)	Winnebago County

Goal 6. Wildland Fire

Protect structures and residents in Winnebago County from the hazard of uncontrolled wildfire.

Objectives

1. Decrease the number of wildland fires occurring in the county.
2. Decrease the number of acres burned from wildland fires.
3. Increase public education.

Policies

1. Support the use of controlled burns as a way of reducing the threat of dangerous wildland fires.
2. Enhance emergency services to increase the efficiency of wildfire response and recovery activities.
3. Keep track of wildfire events in the County to better document the extent and location of these events.

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Apply for federal and state grants to enhance the capability of local fire departments. (2015 Status: To do yet)	Staff time	Departmental budget	High	X	X	Local fire departments
2. Provide education to county and municipality personnel about federal cost-share and grant programs, Fire Protection Agreements, and other related federal programs so the full array of assistance available to local agencies is understood. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		Winnebago County Emergency Management; Winnebago County Planning, Zoning & GIS Department
3. Develop a database to keep track of wildfire events in the County. (2015 Status: Ongoing)	\$500	Departmental budget	Medium	X		Winnebago County Emergency Management; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
4. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	\$1,000	Departmental budget	High	X		Winnebago County Planning, Zoning & GIS Department; Emergency Management

Completed Tasks/Projects

Description	Responsible Entity
Study the feasibility of and support for adopting a local burning permit program at the Town level. (#3 in 2009 plan)	Winnebago County

Goal 7. Public Education

Provide the public with the education to adequately respond to natural hazards including dam failure, flooding, ice shoves, dense fog, tornadoes, hailstorms, winter storms, extreme temperature, drought, and wildland fire. **(Revision 2009)**

Objectives

1. Provide the necessary facilities and equipment to maintain a high quality of fire and police protection and emergency medical services throughout Winnebago County.
2. Strengthen emergency service preparedness and response by enhancing public education throughout the County.

Policies

1. Work with nongovernmental organizations (youth, service, professional, religious) to promote mitigation education and awareness.
2. Look for multiple and varied opportunities to disseminate educational information to county residents.

Implementation Actions / Strategies	Cost Estimate (2015)	Potential Funding Source	Priority	Schedule		Responsible Entity
				2015 to 2019	2020 to 2024	
1. Continue providing community disaster education presentations to citizens, public agencies, private property owners, businesses, and schools. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X	X	Winnebago County Emergency Management; American Red Cross
2. Keep the County's website up-to-date and continue to provide hazard related information that is easily accessible. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	Continuous		Winnebago County Emergency Management and Information Systems
3. Work with the schools within the County to promote hazard mitigation education and awareness and discuss ways to better integrate mitigation into the curriculum. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X	X	Winnebago County Emergency Management; American Red Cross
4. Identify, improve, and sustain collaborative programs focusing on the real estate and insurance industries, public and private sector organizations, and individuals to avoid activity that increases risk to natural hazards. (2015 Status: To do yet)	Staff time	Departmental budget	Medium	X		Winnebago County Emergency Management; American Red Cross; cities of Appleton, Menasha, Neenah, Omro, and Oshkosh; Village of Winneconne
5. Continue to work with the Winnebago County Public-Private Partnership, Inc. to provide educational resources. (2015 Status: To do yet)	Staff time	Departmental budget	Medium	X	X	Winnebago County Emergency Management
6. Maintain the "Ellenbecker" program, a geographic database for natural disaster events that graphically displays damage areas and automatically calculates financial impact. (2015 Status: Ongoing)	Staff time	Departmental budget	Medium	X		Winnebago County Planning, Zoning & GIS Department; Winnebago County Emergency Management

Completed Tasks/Projects

Description	Responsible Entity
Create displays for use at public events (health fair, public awareness day, county fair, school events, and community events). (#2 in 2009 plan)	Winnebago County