

ANNEX I

MITIGATION



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1.2.1 General

A. GENERAL

1. Hazard mitigation planning is the process of developing a set of actions designed to reduce or eliminate risk to people and property from hazards and their effects. Mitigation efforts include activities that will prevent or reduce the impact of emergency/disaster results on people, property and environment. Efforts include building codes, land use planning, training and education, structural and non-structural safety measures.

2. Philosophically, there are three things we can do to mitigate. We can:

- a. Act on the hazard (the cause of the emergency).
- b. Act on the people (the population effected by the emergency).
- c. Act on the interaction between the hazard and the people.

3. Mitigation activities may be undertaken before a hazard event or afterwards. Pre-event mitigation activities are highly desirable, since the period immediately following a hazard event is often a difficult one in which to make mitigation decisions. If put in place soon enough, mitigation activities can reduce the damage caused by the next event. Also worth noting is mitigation can break the cycle of repeated destruction resulting from hazard events.

4. Federal policies require a formal mitigation program implementation plan any time an area is subject of a Presidential Disaster Declaration and federal disaster monies are received.

1.2.2 Summary of Milwaukee County General Mitigation Programs & Department Responsibilities

B. SUMMARY OF MILWAUKEE COUNTY GENERAL MITIGATION PROGRAMS AND DEPARTMENT RESPONSIBILITIES

TABLE 9: SUMMARY OF MILWAUKEE COUNTY GENERAL MITIGATION PROGRAMS AND DEPARTMENT RESPONSIBILITIES	
1. Emergency Management and Emergency Services	<p>a. County Executive and Board of Supervisors.</p> <ul style="list-style-type: none"> • (1) Responsible for all of the County departments and programs. • (2) Serves as the EOC Policy and Executive Group. • (3) Proclaims a Local State of Emergency and Declares a Disaster. • (4) Establishes project funding priorities and makes application to state and federal funding sources. <p>b. Emergency Management.</p> <ul style="list-style-type: none"> • (1) Prepares and updates the County Comprehensive Emergency Management Plan (CEMP). • (2) Coordinates the activities of all departments within the County organization during an emergency or disaster, serving as a conduit of information and ensuring the most efficient use of resources. • (3) Establishes, equips, and maintains the County EOC; Identifies required EOC staffing; Prepares and maintains maps, displays, databases, reference materials, and other information needed to support EOC operations; Identifies and stocks supplies needed for EOC operations; Develops and maintains procedures for activating, operating, and deactivating the EOC. • (4) Maintain the County's Hazard Mitigation Plan. <p>c. Fire Department(s).</p> <ul style="list-style-type: none"> • (1) Provide rapid, effective, and efficient response to all resident's and visitor's requests for emergency assistance, including fire, pre-hospital emergency medical, and rescue services. <p>d. County Sheriff and municipal Police Departments.</p> <ul style="list-style-type: none"> • (1) Provide law enforcement, and other duties as outlined in the CEMP. <p>e. Public Health Department(s).</p> <ul style="list-style-type: none"> • (1) Provide community health and disease prevention programs and air quality and water quality programs. <p>f. Emergency Medical Services (EMS): Provides planning and operations regarding EMS and health care facilities. Coordinates hospitals, clinics, and related medical resources in the time of a declared disaster, and supports response operations to the extent possible during an animal disease outbreak.</p>
2. Public Protection	<p>a. County Communications Center (County Warning Point).</p> <ul style="list-style-type: none"> • (1) Initiate actions to warn local residents and visitors by all means available, as requested by Command. • (2) Alert key officials • (3) Activate the public warning system, as requested by Division of Emergency Management. <p>b. Emergency Management.</p> <ul style="list-style-type: none"> • (1) Ensure maintenance and tests: warning system, emergency communications, emergency public information system, emergency power systems. • (2) Activate the public warning system. • (3) Maintain warning, sheltering, mass evacuation plans. <p>c. School District(s).</p> <ul style="list-style-type: none"> • (1) Develops district and building hazard mitigation and emergency plans in accordance with state and district guidance and policy. • (2) Provides school facilities for use as shelters. <p>d. Municipal Government(s). Ensure maintenance and tests: warning system, emergency communications, emergency public information system, emergency power systems.</p> <ul style="list-style-type: none"> • (1) Maintain warning, sheltering, evacuation plans.

3. Public Information

- a. Emergency Management.
 - (1) Provides numerous public outreach projects, including presentations to community groups, mail-outs, social media campaigns, and seminars to encourage the citizens to prepare for a disaster.
 - (2) Distributes emergency preparedness information through radio and TV interviews, web site, newspaper articles, cable access TV channel, brochures, social media, and presentations to community groups.
 - (3) Encourages businesses to develop their emergency and business continuity plans.
- b. Fire Department(s).
 - (1) Provide fire safety and education outreach projects.
- c. Sheriff and Police Departments.
 - (1) Provide public safety and crime prevention projects, including “citizens police academy,” neighborhood crime watch programs, etc.
- d. Municipal Planning and Department of Community Development
 - (1) Administers the National Flood Insurance Program and provides numerous public information activities that includes: provision of Flood Insurance Rate Map (FIRM) map information; encourages real estate agents to disclose flood hazard information; ensures that the library contains reference materials on hazard mitigation; and offers information on environmental and flood hazard issues as requested.
- e. Department of Health and Human Services and Department of Administration - Facilities Management.
 - (1) Coordinates work safety/hazard mitigation activities for County employees occupying County facilities.
- f. Municipal Government(s). Distributes emergency preparedness information through radio and TV interviews, web site, newspaper articles, cable access TV channel, brochures, and presentations to community groups.
 - (1) Encourages businesses to develop their emergency and business continuity plans.

<p>4. Property Protection/ Mitigation</p>	<p>a. Department of Administrative Services Economic Development</p> <ul style="list-style-type: none"> • (1) Prepares and administers the County Comprehensive Plan that contains zoning goals, objectives, and policies. <p>b. Municipal Planning and Department of Community Development</p> <ul style="list-style-type: none"> • (1) Advises all flood zone inquiries that federally backed mortgages require flood insurance for those properties having structures located in a “A” or a “V” Flood Zone on the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM). • (2) Advises that flood insurance may be obtained at a reduced rate for properties having structures located in “B” or “C” flood zones. <p>c. Code Enforcement and Building Inspection Departments.</p> <ul style="list-style-type: none"> • (1) Apply the state and local building codes, the County's “Use and Development Regulations”, and FEMA (flood) regulations to all building permit applications. • (2) Promote building attributes such as elevations and substantial improvements. <p>d. Fire Department(s).</p> <ul style="list-style-type: none"> • (1) Administer the “International Fire and Building Codes.” • (2) Provide fire safety inspections. <p>e. Public Works.</p> <ul style="list-style-type: none"> • (1) Provides public drainage system maintenance. <p>f. Wisconsin Department of Natural Resources, DAS Environmental Services and Municipalities.</p> <ul style="list-style-type: none"> • (1) Enforce County codes forbidding littering and dumping in creeks, streams and vacant lots. <p>g. All Departments.</p> <ul style="list-style-type: none"> • (1) Identify potential mitigation projects that will reduce future damage. <p>h. County Mitigation Work group.</p> <ul style="list-style-type: none"> • (1) Establishes, reviews, evaluates mitigation projects and activities. • (2) Identifies community mitigation personnel and resources; and roles and responsibilities. • (3) Reviews the goals, policies, and objectives of the County's Comprehensive Growth Management Plan. Identifies goals that should be included that address hazard mitigation and long-term recovery.
<p>5. Environmental Protection</p>	<p>a. County Land Use and Transportation Plan.</p> <ul style="list-style-type: none"> • (1) Addresses Land Use and Comprehensive Plan issues. <p>b. Wisconsin Department of Natural Resources and private contractors.</p> <ul style="list-style-type: none"> • (1) Provides control and cleanup of hazardous material incidents. <p>c. Municipal Water Utilities.</p> <ul style="list-style-type: none"> • (1) Provides monitoring of water quality and discharging of waste. <p>f. County Planning Department, and Municipalities.</p> <ul style="list-style-type: none"> • (1) Addresses wetlands protection, natural resource and hazardous material contamination prevention.

6. Hazard Studies and Mapping	<p>a. Emergency Management.</p> <ul style="list-style-type: none">• (1) Manages the “Emergency Planning and Right to Know” (hazardous materials) prevention program to include: identification of hazardous material sites, plotting plumes (GIS), encouraging facility emergency plans, warning, etc.• (2) Maintains the County's Hazard Assessment.• (3) Completes, maintains risk and threat assessments as required by state and federal. <p>b. Information Management Systems Division (GIS).</p> <ul style="list-style-type: none">• (1) Provides geographic mapping and analysis.• (2) Provides a multi-hazard map of the community.• (3) Works with the Southeastern Wisconsin Threat Analysis Center (STAC) to gather information on local facility and environmental vulnerabilities. Establishes a GIS “critical facilities database” to be used, in part, to identify mitigation needs and opportunities.
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1.2.3 Summary of Milwaukee County Hazard Mitigation Plan

C. SUMMARY OF MILWAUKEE COUNTY HAZARD MITIGATION PLAN

SUMMARY OF MILWAUKEE COUNTY CURRENT AND FUTURE MITIGATION ACTIVITIES BY HAZARD (Summarized From The County's Hazard Mitigation Plan)	
HAZARDS	MITIGATION ACTIVITIES
Flood	<ul style="list-style-type: none"> • 1. Warning systems. • 2. Flood response planning and preparedness • 3. Public education. • 4. Municipal flood and storm water plans. • 5. Flood mapping. • 6. Flood insurance. • 7. Flood zoning ordinances, prohibit development. • 8. Purchase of repetitive loss structures. • 9. Property protection: Install new or larger culverts where needed; Installation of wet detention ponds; Construct channels, provide for overflow; Inspect, clean channels, removal of sediment and debris; Retaining walls. • 10. Storm water system management guidelines, improvements, maintenance.
Winter Storms	<ul style="list-style-type: none"> • 1. Warning system (national weather service); NOAA all hazard weather radio. • 2. Winter storm response planning and preparedness. • 3. Establish tree management program for public property. • 4. Ensure plowing and salting equipment is operational and available. • 5. Public information on winter hazards, travel safety and preparedness.
Thunderstorms and Lightning	<ul style="list-style-type: none"> • 1. Public education. • 2. NOAA all hazard weather radio.
Hail Storms	<ul style="list-style-type: none"> • 1. Insurance for hail crop and property damages. • 2. Distribution of information on various hail insurance options. • 3. Public information on severe weather. • 4. NOAA all hazard weather radio.
Tornados	<ul style="list-style-type: none"> • 1. Enhance early warning: sirens, reverse 911, NOAA all hazard weather radio. • 2. Tornado spotter training programs; organize local tornado spotter networks. • 3. Tornado response planning and preparedness. • 4. Public education. • 5. Identification and construction of public tornado shelters. • 6. Uniform building codes.
Drought	<ul style="list-style-type: none"> • 1. Public education; water reduction and conservation programs. • 2. Monitoring and preparedness. • 3. Water usage regulations. • 4. Provide information on water conservation measures to farmers, homeowners and the public. • 5. Drought emergency plan.
Earthquake	<ul style="list-style-type: none"> • 1. Building codes. • 2. Retrofit building and infrastructure. • 3. Public education.
Extreme Heat and Cold	<ul style="list-style-type: none"> • 1. Public education.
Coastal Erosion	<ul style="list-style-type: none"> • 1. Enhance slope stability. • 2. Zoning. • 3. Safe building procedures. • 4. Public education and information.

1.2.4 References

D. REFERENCES

1. Federal

- a. The Disaster Mitigation Act of 2000.
- b. Section 409 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act (P.L. 93-228, as amended).
- c. 44 CFR Part 206 Subpart M for implementing Section 409.
- d. FEMA Mitigation Assistance Unified Guidance (Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, Flood Mitigation Assistance Program, Repetitive Flood Claims Program, Severe Repetitive Loss Program) June 1, 2010.

2. State

- a. Hazard Analysis for the State of Wisconsin.
- b. State of Wisconsin Hazard Mitigation Plan.

3. County

- a. Milwaukee County Pre-Disaster Mitigation Plan.
- b. Milwaukee County Comprehensive Plan.
- c. County Codes: Fire Prevention, Land Use, Zoning, Building.
- d. Municipal Codes: Fire Prevention, Land Use, Zoning, Building.