

## Chapter 9 - Mitigation Strategies and Priorities

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The next step in the hazard mitigation planning process is to identify mitigation actions suitable to the community, evaluate the effect the action will have on the specified mitigation objective and prioritize actions to decide what sequence or order these actions should be pursued.

### ***Mitigation Categories***

Mitigation actions can be grouped into six broad categories:

**1. Prevention:** Government administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, building codes, capital improvement programs, open space preservation, and storm water management regulations.

**2. Property Protection:** Actions that involve modification of existing buildings or structures to protect them from a hazard, or removal from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.

**3. Public Education and Awareness:** Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and school-age and adult education programs.

**4. Natural Resource Protection:** Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management forest and vegetation management, and wetland restoration and preservation.

**5. Emergency Services:** Actions that protect people and property during and immediately after a disaster or hazard event. Services include warning systems, emergency response services, and protection of critical facilities.

**6. Structural Projects:** Actions that involve construction of structures to reduce the hazard impact. Such structures include dams, levees, floodwalls, seawalls, retaining walls, and safe rooms.

### **Identification of Mitigation Actions**

Members of the LEPC met on June 31, 2012 to review hazard analysis and update mitigation actions. The following tables provide a prioritized list of the mitigation actions identified at the meeting.

## **Evaluation and Prioritization of Mitigation Actions**

Members of the LEPC met on June 31, 2012 to re-evaluate and prioritize the list of mitigation actions. The committee identified level of government, agencies and organizations that would be responsible for completing the prioritize projects, as well as identifying possible funding sources. This information is included in the tables of Chapter 9. In addition, during the prioritization process each project was evaluated with regard to its: social impact, technical feasibility, administrative potential, political impact, legal ramification, environmental impact, overall benefit and cost effectiveness.

A prioritized listing of mitigation projects and actions for significant hazards follows. The first listing covers mitigation actions that can apply to more than one hazard. The remaining lists are presented as the hazards were ranked for Crawford County.

## **Review and Updating Hazard Mitigation Action Items**

The Committee reviewed the 2006 Mitigation Strategies and made necessary changes. Several action items were eliminated or combined. Actions that have been completed were eliminated. Time lines were altered on mitigation strategies. The 2006 mitigation strategies list is attached to show changes in the document.

Changes in local land development have been negligible given the 2007 nationwide recession. The committee did not identify areas with significant land development since the last plan was completed and therefore made no changes to the plan in relation to new development.

Most activities in the hazard mitigation plan that the community has worked on are related to on-going mitigation actions.

The committee made changes in priorities related to Public Health, severe winter weather and nuclear attacks.

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>A. Multi-Hazard Actions, #1</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Identify feasible sites for public early warning systems and networks and seek funding.	High	A.B.C.D.O.Q.S	T	Countywide	Reverse 911 system acquired & being implemented	Mid-term	Short term
2. Continue to develop Emergency Response Team program to help prepare for all hazard events in the county.	High	A.B.C.D.Q	A. H. T.	Countywide	Minor progress. Focus at regional level	Mid-term	Mid-term
3. Provide trained, equipped, and prepared search and rescue teams.	High	A.B.C.D.Q.P	A. H. T.	Countywide	In place, CERT is very active	Mid-term	Mid-term
4. Review and develop site emergency plans for schools, factories, office buildings, shopping malls, hospitals, correctional facilities, etc. to cover all potential hazards.	High	A.B.C.D.E.K.M. N.R	T	Grayling and Grayling Twp	Major progress, schools, factories & hospital	Short-term	Ongoing
5. Develop and implement a public education program for all natural hazards that threaten the community.	Medium	A.D.H.I.O.Q	B.C.T.	Countywide	In place, handouts, and presentations	Ongoing	Ongoing
6. Ensure that the County and individual communities have adequate equipment, staff, and training to respond to transportation-related accidents specific to their needs.	Medium	A.B.C.E.T.Q.S	B.C.T.	Countywide	Beaver Creek Twp has HAZMAT Team and CRC has traffic control	Mid-term	Mid-term
7. Develop plans to identify and inform persons of "Safe Areas" during festivals/events. (include signs and directions to shelters)	High	A.B.C.D.E.N.Q	T	Countywide	Minor progress	Short-term	Short-term
8. Review current status and provide back-up generators to maintain community infrastructure at acceptable operating levels during extended power failures.	Medium	A.B.C.P.Q	B.C.T.	Countywide	Combined with #10	Mid-term	Mid-term
9. Encourage continuation of house numbering program	High	A.B.C.E.D.Q.W	T	Countywide	In place	Ongoing	Ongoing
10. Communities will acquire and maintain an adequate level of emergency power generators to supply emergency water needs, wastewater processing, emergency communications, emergency health care, and shelters.	Medium	A.B.C.D.Q.S	Q.B.C.T	Countywide	Progress made, City DPW has portable generators	Mid-term	Mid-term
11. Conduct workshops at community gatherings to encourage residents to develop a Family Disaster Plan, which includes the preparation of a Disaster Supplies Kit.	Medium	A.B.C.I.Q.S	B.C.H.T.I.N	Countywide	Presentations made by Fire Dept. and county – materials available	Long-term	On-going
12. Organize outreach program to vulnerable populations during and after hazard events, including wildfires, extreme winter and summer weather events, periods of extreme temperatures, public health emergencies, and other hazards that can impact the community.	Medium	A.B.C.D.E.I.J.N. P	B.C.T.I	Countywide	Commission on Aging & County EMS maintains lists and contacts	Short-term	Short-term
13. Build the capabilities of the county GIS program to function as a tool to address multiple hazards. This effort would require the creation/updating of datasets such as parcels/ownership, location of all structures, driveways with ingress/egress conditions, roads, forest types, ownership types, floodplains, utilities (power lines, gas lines and water lines), wetlands, water features, bridges and culverts, (SARA III sites)	High	A.B.C.D.E.J.P	B.C.Q.T	Countywide	Major progress made, GIS program in place	On-going	On-going
14. Review and improve strategy for providing public with emergency telephone numbers	Medium	A.B.C.D.W	T	Countywide	In place, material and handouts available	Long-term	Long-term
15. Review and improve program to provide regular maintenance and equipment checks of all critical equipment.	Medium	A.B.C.D.E.P	T	Countywide	In place, each department responsible	Ongoing	Ongoing
16. Explore methods to provide NOAA radios at cost or as reward for completing "Family disaster Plan"	Medium	A.B.C.O.Q.S	T	Countywide	In place, provided radios to facilities and individuals	Long-term	Long-term

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>A. Multi-Hazard Actions, #2</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
17. Compile a listing of homes and facilities with vulnerable residents such as elderly, infirmed and disabled individuals; and establish outreach procedures for assisting residents after severe winter storm events	High	A.B.C.H.I.N.T	C.H.T	Countywide	In place, Commission on Aging and County EMS maintain and update lists	Short-term	Ongoing
18. Produce and distribute family emergency preparedness information relating to all natural hazards affecting the County.	High	A.B.C.D.J.O.Q	A.C.D.R	Countywide	Materials available and distributed	Short-term	Short-term
19. To address multiple hazards in the county improve tree trimming and maintenance efforts to prevent limb breakage and safeguard nearby utility lines. The end goal is to create and maintain a disaster-resistant landscape in public rights-of-way.	Low	A.B.C.E.P	P	Countywide	Consumer's Power has program	Long-term	Long-term
20. Where feasible and cost effective (more densely populated areas) bury and protect power and utility lines.	Low	A.B.C.P.U	P	City of Grayling and Grayling Township	Limited costs prohibitive	Long-term	Long-term
21. Increase usage of NOAA Weather Radio by subsidizing purchase and distribution of radios to county residents, organizations and businesses. Use NOAA radios as a community emergency alert system to inform on hazard events.	Low	A.B.C.D.K.O.R.U	Q.T	Countywide	In place	Mid-term	Mid-term
22. Enforce a balanced system of ordinances that protect the community as-a-whole while respecting the rights of individuals.	Low	B.C.Q.W	C	Countywide	Progress made, communities active	Long-term	Long-term
23. Identify optimal staffing levels for County and community needs – seek funding to meet optimal levels	Low	A.B.C.E	B.C	Countywide	Ongoing funding limiting	Long-term	Long-term
24. Acquire portable/changeable message signs to direct crowds and provide information.	Low	A.B.C.D.E.W	B.Q	Countywide	Minor activity	Mid-term	Mid-term
25. Individual communities should prepare future land use plans and capital improvement programs to plan for their future hazard mitigation needs.	High	A.B.C.D.F	C	Countywide	Progress made & Ongoing	Short-Term	Short-Term
26. Communities will work with the Federal Emergency Management Agency (FEMA) to refine flood plains mapping.	Medium	A.B.C.Q.S	T	Countywide	Refining maps	Mid-term	Mid-term
27. Encourage key gasoline stations to have the capacity to pump gasoline during power outages.	Low	A.M.W	M	Countywide	Identified, table top exercise, sent letters to all service stations	Long-term	Long-term
28. Pre-planning for debris management staging and storage areas	Low	A.B.C.D.E.Q	A.B.C	Countywide	Identified sites	Mid-term	Mid-term
29. Expand community awareness of evacuation plans.	Low	A.B.C	A.B.C	Countywide	Progress made	Long-term	Long-term
30. Promote and implement solutions for keeping roads and driveways accessible to vehicles and fire equipment.	High	A.B.C.D.E.F.J.U	A.B.C.D	Countywide	Progress made through Firewise program	On-going	On-going
31. Identify escape routes and emergency snow routes.	Low	A.B.C.E.Q	A.B.C.E	Countywide	No activity	Mid-term	Mid-term
32. Explore and implement plan for distribution of NOAA radios throughout community	Low	A.B.C.O	A.B.C	Countywide	Combined with 21	Long-term	Long-term
33. Encourage residents to develop a Family Disaster Plan that includes the preparation of a Disaster Supplies Kit.	Low	A.B.C.D.I	A.B.C	Countywide	Combined with 11	Ongoing	Ongoing

<b>A.</b> County Emergency Management Office	<b>G.</b> MSU Extension	<b>M.</b> Local Businesses	<b>S.</b> Medical
<b>B.</b> County	<b>H.</b> District Health Dept.	<b>N.</b> Civic Gr. & Churches	<b>T.</b> Federal Government
<b>C.</b> Local Units of Gov.	<b>I.</b> American Red Cross	<b>O.</b> National Weather Service	<b>U.</b> landowners
<b>D.</b> Local Fire Dept.	<b>J.</b> USFS & MDNR	<b>P.</b> Utility Company	<b>V.</b> Salvation Army
<b>E.</b> County Road Commission	<b>K.</b> Insurance Companies	<b>Q.</b> State	<b>W.</b> Police
<b>F.</b> NEMCOG	<b>L.</b> Real Estate Co.	<b>R.</b> Schools	

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>B. Wildfire</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Provide strict enforcement of open burning regulations	High	A.B.C.D.J.W	D. Q. T	Countywide	In place, fire departments issue tickets	Short-term	Short-term
2. Promote and implement fuel management by thinning of flammable vegetation, creation of fuel breaks, use of fire-retardant materials/vegetation and selective thinning	High	A.D.J.Q	B.Q.T	Countywide	In progress – USFS and MDNR	New	Short-term
3. Implement the Crawford County Community Wildfire Protection Plan by pursuing grants.	High	A.D.J.Q.U	Q.T	All Minor Civil Divisions High Risk Grayling and South Branch Twps.	In progress plan completed in 2013	New	Short-term
4. Implement a countywide Firewise program as outlined in the Community Wildfire Protection Plan, through a cooperative effort of local fire departments, and state and federal agencies.	High	A.D.J.Q.U	B.C.D.J.Q.T	All Minor Civil Divisions High Risk Grayling and South Branch Twps.	In progress	New	Short-term
5. Develop a wildfire evacuation plan for residential areas and high use recreational areas such as the AuSable River Corridor, ORV trails and campgrounds	High	A.D.J.Q	B.C.D.J.Q.T	Countywide	Progress made	Short-term	Short-term
6. Continue to build partnerships with local fire departments, MDNR, USFS and National Guard to address wildfire mitigation and suppression.	High	A.B.C.D.J.X	B.C.D.J.Q.T	Countywide	In place	New	Short-term
7. Develop a program to utilize National Guard Helicopters for supplying water for fire suppression	Medium	D.J.X	J.Q.T	Countywide	In place	New	Mid-term
9. Implement Reverse 911 System to selectively notify homeowners in areas threatened by a wildfire.	High	B	B	Countywide	Purchased and implementing	New	Short-term
10. Establish procedures for notifying campground and canoe liveries	High	A. B. D. J	B,C,D,J	Countywide	Reverse 911 and send out emergency units	New	Short-term
11. Implement Firewise development strategies in local master plans and zoning ordinance.	High	B. C	B.C	All minor civil divisions	IN progress – South Branch Twp taking lead	New	Short-term
12. Promote media broadcasts of fire weather and fire warnings	Medium	A.B.C.D.J	B.C.J.T	Countywide	In place, USFS & MDNR, EMS Facebook	Mid-term	Mid-term
13. Promote proper disposal of woody debris at designated sites in the county to reduce burning of brush piles.	Medium	A.B.C.D.U.	B,C,D	Countywide	Co-Gen plant atkes materials	New	Long-term
14. Work with insurance companies to provide wildfire safety information to area residents.	Medium	A.B.C.D.K.L.Q. U	Q.T	Countywide	In progress	Mid-term	Mid-term
15. Develop program to inspect campsites in public forest areas to insure safe open fires, where allowed.	Medium	A.B.C.D.J.W	J	Countywide	In place – MDNR and USFS	Mid-term	Mid-term
16. Review and develop a regional base for air-firefighting wildfire support at Camp Grayling Airport.	Medium	A.D.J.Q	J.Q.T	Countywide	Some progress made	Long-term	Long-term
17. Study and develop GIS layers to include water supply location, Tier II sites, gas and oil wells, etc.	Medium	A.B.C.D.J.Q	B.C.J.Q.T	Countywide	In place and ongoing	Mid-term	Mid-term

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>C. Fixed Site Hazmat</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Review and/or implement strategy to train, equip, and prepare site and local hazardous material emergency response teams.	High	A.C.D.M.Q	T	Countywide	Ongoing and yearly review, Beaver Creek Twp has HAZMAT Team	Mid-term	Mid-term
2. Educate public and implement steps to encourage "shelter in place" response to Hazmat incidents.	High	A.B.C.D.U	T	Countywide	Minor progress	Short-term	Short-term
3. Continue Brownfield cleanup activities.	High	B.C	Q.T	City of Grayling	In place some progress made	Ongoing	Ongoing
4. Develop and/or improve public warning systems and networks for hazardous material releases.	Medium	A.B.C.D.Q.S	T	Countywide	Reverse 911	Mid-term	Mid-term
5. Maintain site emergency plans and community response plans as required under SARA Title III.	Medium	A.B.C.D.M	T	Countywide	In place	New	Ongoing
6. Inform public and support pollution control, enforcement and cleanup; proper disposal of chemicals and scrap materials.	Medium	A.B.C.D	H.T	Countywide	In place, household hazardous waste collection program	Mid-term	Mid-term
7. Training in and compliance with all safety procedures and systems related to the manufacture, storage, transport, use, and disposal of hazardous materials.	Medium	A.D.M.Q.U	Q.T	Countywide	In place, 302 sites	Mid-term	Mid-term
8. Reinforce planning emphasis on proper separation and buffering between industrial areas and other land uses.	Medium	B.C.L.M.N.R.T .U	B.C	Countywide	In place through zoning	Mid-term	Mid-term
9. Emphasize locating industrial areas away from schools, nursing homes, and hospitals, in future planning.	Medium	B.C.L.M.N.R. T.U	B.C	Grayling and Grayling Twp	In place under zoning	Long-term	Long-term
10. Provide inventory and secure debris, yard items or stored objects (including oil, gasoline and propane tanks, and paint and chemical barrels) in flood plain that might pose hazard.	Medium	A.B.C.D.M.U	C	Countywide	Minor activity	Mid-term	Mid-term
11. Continue emphasis on policies and training stressing importance of safety above other considerations.	Medium	A.D.H.Q.T.U	A.B.C	Countywide	In place & ongoing	Ongoing, short-term	Ongoing, short-term

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<b>E.</b> County Road Commission	<b>K.</b> Insurance Companies	<b>Q.</b> State	<b>W.</b> Police
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<b>Mitigation Actions &amp; Implementation Strategies D. Structural Fire</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Review and develop programs to raise community awareness on proper installation and maintenance of heating systems.	High	A.C.D	D.T	Countywide	In place, fire dept and EMS awareness programs	Ongoing,	Ongoing,
2. Promote homeowner pre-emergency plan such as evacuation route and congregation spot.	High	A.B.C.D	A.B.C.D	Countywide	In place, fire dept and EMS awareness programs	Short-term	Short-term
3. Develop information and programs about safe and responsible use of electric and "space" heaters.	High	A.D.K	D.T	Countywide	In place, fire dept and EMS awareness programs	Ongoing, Short-term	Ongoing, Short-term
4. Develop public education and school programs related to the use of stoves, heaters, fireworks, matches/lighters, etc.	Medium	A.D	D.T	Countywide	In place, fire dept and EMS awareness programs	Mid-term	Mid-term
5. Communicate to residents information related to handy household items that can be used as fire tools.	Medium	A.D.K	D	Countywide	In place, fire dept and EMS awareness programs	Mid-term	Mid-term
6. Increase volunteer recruitment, and study offering paid training.	Medium	A.B.C.D	D	Countywide	Ongoing	Long-term	Long-term

<b>Mitigation Actions &amp; Implementation Strategies E. Transportation &amp; Transportation of HAZMAT</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Provide more training for fireman, police and first responders to school bus and commercial bus accidents.	High	A.B.D.E.R.W	T	Countywide	Ongoing	Mid-term	Mid-term
2. Encourage and enforce use of designated truck routes, and strict enforcement of weight and travel restrictions for truck traffic.	High	A.B.C.E.Q	T	Countywide	Some progress made towards identifying routes	Short-term	Short-term
3. Study and support pre-arranged shelters for stranded motorists/travelers, and others.	High	A.I.N.R	B.C.H.T	Countywide	In place Red Cross responsible	Mid-term	Mid-term
4. Provide more training for airfield emergencies involving all county fire departments.	Medium	A.B.C.D.W	T	National Guard Air Base	Developing partnership with Grayling and National Guard, includes equipment and staffing	Mid-term	Mid-term
5. Develop and implement improved design, routing, and traffic control at problem roadway areas.	Medium	A.B.C.W	T	Countywide	Some progress	Long-term	Long-term
6. Review and enhance airport maintenance, security, and safety programs.	Medium	A.B.C	Q.T	National Guard Air Base	In place, military provides at airbase	Long-term	Long-term
7. Acquire portable signs to inform motorists of high wind area, potential whiteout road hazards and road glazing areas on major highways.	Medium	A.B.C.E.O.Q. S.W	Q	Countywide	Minor activity	Mid-term	Mid-term

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<b>D.</b> Local Fire Dept.	<b>J.</b> USFS & MDNR	<b>P.</b> Utility Company	<b>V.</b> Salvation Army
<b>E.</b> County Road Commission	<b>K.</b> Insurance Companies	<b>Q.</b> State	<b>W.</b> Police
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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>F. Severe Winds</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Review current and proposed improvements to wind engineering measures and construction techniques to strengthen public and private structures against severe wind damage	High	A.B.C	T	Countywide	Minor progress	Short-term	Short-term
2. Encourage securing loose materials, yard and patio items indoors or where winds cannot blow them about.	High	A.B.C	T	Countywide	Minor progress	Mid-term	Mid-term
3. Review regulations and implement necessary changes to insure proper anchoring of manufactured homes and exterior structures...	Medium	A.B.C	B.Q.T	Countywide	In place	Mid-term	Mid-term

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>G. Infrastructure Failure</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Review and develop strategies to insure redundancies in utility and communications systems, especially "lifeline" systems.	High	A.B.C.D.H.N. O.W	P	Countywide	Ongoing and progress made		Mid-term
2. Review and develop strategies to identify and employ generators for backup power at critical facilities.	High	A.B.C.M.P.R.T	A.B.C	Countywide	Progress made		Mid-term
3. Identify sites and obtain support to improve critical road/stream crossings.	Medium	A.B.C.E.J	Q.T	Countywide	In place, as funding allows		Mid-term

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>H. Summer Weather Hazards Actions</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Develop or update emergency response plans for schools, campgrounds, fairgrounds, parks, community events etc.	High	A.B.C.R	C. T	Countywide	Major progress, schools, factories & hospital	Mid-term	Mid-term
2. Require new mobile home parks to have tornado/wind shelters	High	A.B.C.O	T	Countywide	No activity	Mid-term	Mid-term
3. Continue training and increased use of weather spotters.	Medium	A.O	O	Countywide	US Weather Service summer and winter weather spotters training	Mid-term	Mid-term
4. Continue pre-planning efforts for debris management staging and storage areas	Medium	A.B.C.E	A.B.C.E	Countywide	Identified sites	Mid-term	Mid-term

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<b>E.</b> County Road Commission	<b>K.</b> Insurance Companies	<b>Q.</b> State	<b>W.</b> Police
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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>I. Winter Weather Hazards</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Study and improve location and design and maintenance of water and sewer systems (to include insulation of critical components to prevent damage from ground freeze)	High	C.P	Q. T	Countywide	Identified and ongoing	Long-term	Long-term
2. Establish pre-arranged shelters for stranded motorists/travelers, and others.	High	A.B.C.I.N.R	B.C.H. T	Grayling	In place and ongoing	Mid-term	Mid-term
3. Continue to support use of emergency shelters	High	A.B.C.I.D	B.C.H. T	Countywide	In place and ongoing	Short-term	Short-term
4. Inventory problem sections of roads. Place snow fences or "living snow fences" (rows of trees or vegetation) to limit blowing and drifting of snow over critical roadway segments	Medium	A.B.C.E.O	E. Q. T	Countywide	Ongoing	Mid-term	Mid-term
5. Acquire portable signs to inform motorists of high wind area, potential whiteout road hazards and road glazing areas on major highways.	Low	A.B.C.E.O.Q. S.W	Q	Countywide	Minor activity	Short-term	Short-term
6. Produce and distribute family emergency preparedness information relating to severe winter weather hazards	Low	A.I.N	A.Q	Countywide	Ongoing materials available	Mid-term	Mid-term

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>J. Extreme Temperatures</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Identify location and organize outreach to vulnerable populations during periods of extreme temperatures...	High	A,B,C,I,N,	T	Countywide	In place, County EMS and Commission on Aging	Short-term	Short-term
2. Improve and/or enact landlord/tenant ordinances.	Medium	B,C	Q, T	Countywide	Minor progress	Mid-term	Mid-term
3. Develop housing/landlord codes for heating requirements.	Medium	B,C	Q, T	Countywide	Minor progress	Mid-term	Mid-term

<b>A.</b> County Emergency Management Office	<b>G.</b> MSU Extension	<b>M.</b> Local Businesses	<b>S.</b> Medical
<b>B.</b> County	<b>H.</b> District Health Dept.	<b>N.</b> Civic Gr. & Churches	<b>T.</b> Federal Government
<b>C.</b> Local Units of Gov.	<b>I.</b> American Red Cross	<b>O.</b> National Weather Service	<b>U.</b> landowners
<b>D.</b> Local Fire Dept.	<b>J.</b> USFS & MDNR	<b>P.</b> Utility Company	<b>V.</b> Salvation Army
<b>E.</b> County Road Commission	<b>K.</b> Insurance Companies	<b>Q.</b> State	<b>W.</b> Police
<b>F.</b> NEMCOG	<b>L.</b> Real Estate Co.	<b>R.</b> Schools	

<b>Mitigation Actions &amp; Implementation Strategies</b> <b>K. Public Health Emergencies</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Encourage residents to receive immunizations against communicable diseases	High	H. I. N. Q. S.	H.T	Countywide	In place	Ongoing	Ongoing
2. Maintain a community public health system with sufficient disease monitoring and surveillance capabilities to adequately protect the population from large-scale outbreaks	High	H. Q. S. T.	H. T	Countywide	In place	New	Mid-term
3. Increase public awareness of the causes, symptoms, and protective actions for disease outbreaks and other potential public health emergencies	High	H. N. R. S.	H. T	Countywide	In place	Ongoing	Ongoing
4. Inform public and support pollution control, enforcement and cleanup; proper disposal of chemicals and scrap materials	Med	A. B. H. M. Q. R. T.	H. T	Countywide	In place	New	Ongoing
5. Expand community support of free or reduced-expense clinics and school health services	Med	B. C. H. N. Q. S.	H	Countywide	In place	New	Ongoing
6. Increase public awareness of radon dangers and the prevention efforts that can be taken to reduce concentrations of radon in homes and buildings	Low	H. Q.	H	Countywide	In place	Ongoing	Ongoing
7. Demolish and clear vacant condemned structures in populated areas to prevent rodent infestations	Low	C. B. H.	B.C	Countywide	In place	Ongoing	Ongoing
8. Coordinate with health department and local communities to assure proper location, installation, cleaning, monitoring, and maintenance of septic tanks	Low	C. H.	H	Countywide	In place	Ongoing	Ongoing
9. Seek support and funding to clean up sites of environmental contamination	Low	B. M. Q. T.	Q.T	Countywide	In place	New	Ongoing
Review and insure community water and sewer infrastructure is maintained at acceptable operating standards.				County wide	Removed	Ongoing	Removed
Continue to provide free Radon kits to public.				County wide	Removed	Ongoing	Removed
Protect public contact with contaminated sites or waters (including flood waters)				County wide	In place	Ongoing	Removed

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