

## 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 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 the 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 the construction of structures to reduce the impact of a hazard. Such structures include dams, levees, floodwalls, seawalls, retaining walls, and safe rooms.

### Identification of Mitigation Actions

Members of the LEPC met on April 3, 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 April 3, 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 Alcona 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 minor changes in priorities in the Public Health by elevating its risk and adding strategies.

### **Capability Assessment**

Presently, staff and financial resources are limited in the communities. For example, communities do not have planners, foresters, floodplain managers, public works engineers, transportation engineers, and civil engineers on staff. An exception is the Alcona County Road Commission which has an engineer on staff. The community has an active and strong Emergency Management Office. Alcona County has no zoning enforced at the county level. Land use planning and zoning is administered at the city, village and township level. None of these entities have planners on staff and utilize planning commission members, regional planning agencies and consultants for planning purposes. The Northeast Michigan Council of Governments (NEMCOG) provides planning assistance to local communities on a project by project basis. U.S. Forest Service and the Michigan Department of Natural Resources have foresters on staff to conduct forest and fuels management on public lands. Forest management assistance on private land is limited to forestry consultants and the county conservation district. Agencies and local units of government have fire suppression crews. All entities provide some level of prevention and education activities. In conclusion, additional staff and financial resources would be needed to implement this comprehensive hazard mitigation plan.

### **Potential Local Partnerships for Hazard Mitigation Activities**

County Emergency Management Coordinator  
County Board of Commissioners  
Township Boards  
City and Village Councils  
County Road Commission  
County Sheriff Department  
Township Fire Department  
Building Department

Planning Commissions  
Zoning Administrators  
Conservation District  
Housing Commission  
Northeast Michigan Council of Governments  
Michigan State Police  
US Forest Service  
Michigan Department of Natural Resources  
Huron Pines RC&D  
Natural Resource Conservation Service  
NEMSCA  
Health Department  
Federal Emergency Management Administration

<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. Maintain 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.	High	A. D. H. I. J. N. O. V.	B. C. I. T	Countywide	Minor Progress	2007	Ongoing
2. 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. E. F. H. J. V.	B. C. Q. T	Countywide	Major update of 911 CAD mapping system. County using ArcGIS for parcel mapping	Ongoing	Ongoing
3. Communities will acquire and maintain an adequate level of emergency power generators to supply emergency water needs, wastewater processing, and shelters.	High	A. B. C.	B. C. T	Countywide	Purchased portable generator, generators purchased for critical facilities	2015	2015
4. Enhance and expand a public education program for all natural hazards that threaten the community.	Med	A. J. O.	B. C. T	Countywide	Distribution of information at county fair and other events. Weather Service weather watcher programs each year	Ongoing	Ongoing
5. Conduct workshops at community gatherings to encourage residents to develop a Family Disaster Plan which includes the preparation of a Disaster Supplies Kit.	Med	A. I. J. K. N.	B. C. H. I. N. T	Countywide	Weather Service weather watcher programs each year. Distribution of information at county fair and other events. Ruffled kits.	2006	Ongoing
6. Continue to develop Emergency Response Team program to help prepare for all hazard events in the county.	Med	A. D. H. I. J. E.	A. H. T	Countywide	Active Local Emergency Planning Committee, Local Planning Team, Incident Management Team and Regional Response Team.	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>A. Multi-Hazard Actions, #2</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
7. Distribute family emergency preparedness information relating to all natural hazards affecting the County.	Med	A. D. H. I. J. N.	B. C. H. T	Countywide	Information provided at county fair, schools, and National Weather Service weather watchers workshops.	Ongoing	Ongoing
8. 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 information on hazard events.	Med	A.	T	Countywide	Progress made- received grant to distribute radios to critical sites such as senior's centers, and campground. Radios given to individuals and special events	Ongoing	Ongoing
9. Ensure that the County and individual communities have adequate equipment, staff, and training to respond to transportation-related accidents specific to their needs.	Med	B. C. D. E. V.	B. C. T	Countywide	Progress made	2010	2017
10. Enhance and expand an all hazards education and awareness program in schools, which includes classroom presentations and incorporating wildfire and weather hazard preparedness into school curriculums.	Med	A. D. J. O. R.	B. C. T	All schools	Progress made, yearly presentations, FFA and science classes provide information.	2006	Ongoing
11. Develop plans to identify and inform persons of "Safe Areas" during festivals/events. (include signs and directions to shelters)	Med	A. B. C. D. E. M. N. V.	T	Countywide	Minor progress, working on effort	2015	2015
12. Ensure key gasoline stations have the capacity to pump gasoline during power outages.	Med	A. C. E. M. V.	T	Countywide	Portable generator and some gas stations have generators		2015

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>A. Multi-Hazard Actions, #3</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
13. Work with power companies to inventory condition of power line right-of-ways, and identify priority sections to clear branches and trees from power lines. The end goal is to create and maintain a disaster-resistant landscape in public rights-of-way.	Med	A. E. P. U.	M. T. U	Countywide	Progress made	2007	2017
14. Enforce a balanced system of ordinances that protect the community as-a-whole while respecting the rights of individuals.	Low	C	C	Local jurisdictions	Progress made	2012	2017
15. Where feasible and cost effective (more densely populated areas) bury and protect power and utility lines.	Low	A. C. P.	P	Countywide	Phone lines are being upgraded and buried	2015	2017
16. Communities will work with the Federal Emergency Management Agency (FEMA) to identify flood plains.	Low	A. B. C. E. T.	B. C. T	Countywide	FEMA completed mapping	2015	2017
17. Identify optimal staffing levels for County and community needs – seek funding to meet optimal levels	Low	B. C.	B. C.	Countywide	On-going	2012	2017
18. Acquire portable/changeable message signs to direct crowds and provide information.	Low	A. E.	B. C. N.	Countywide	Michigan DOT has signs available	2007	2017
19. Individual communities should prepare future land use plans and capital improvement programs to plan for their future needs.	Low	C. E.	B, C.	Townships, cities and villages	Communities are updating master plans per state statutes	Ongoing	Ongoing

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>B. Wildfire Actions, #1</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Coordinate countywide wildfire education program: distribution of materials via direct mailings, school presentations, demonstration projects, displays at community events, displays and education materials at community libraries.	High	A. B. C. D. I. J. G. R.	B. C. T	Countywide	Information distributed and county fair and other events	Ongoing	Ongoing
2. Develop and implement strategy to introduce "Firewise" program in at-risk communities.	High	A. B. C. D. I. J. G.	Q. T	Countywide	Information distributed and county fair and other events	Ongoing	Ongoing
3. Strict enforcement of open burning regulations.	High	B. C. D. J. V.	D. J. T	Countywide	Ongoing progress	Ongoing	Ongoing
4. Encourage communities to incorporate Firewise into their planning and zoning programs	Med	A, C, D, F	B. C	Countywide	Minor progress	NEW	Ongoing
5. Develop a Community Wildfire Protection Plan in cooperation with local fire departments, US Forest Service and Michigan DNR. Seek funding from the MDNR to cover costs of developing the plan.	High	A, B, C, D, F, G, J	B. C. J. T	Countywide	No progress will consider this cycle	2008	2016
6. Conduct multi-agency, inter-county emergency management response exercises for fire suppression.	High	A. D. I. V.	T	Countywide	Conducted exercise	2007	2017
7. Promote fuel management by thinning of flammable vegetation, creation of fuel breaks, use of fire-retardant materials/vegetation and selective thinning....	High	J. U.	J. T	Countywide	MDNR and USFS are active on public lands	2007	2017
8. Promote creation of defensible space around structures in fire-prone wildland areas.	Med	A. C. D. I. J. K.	T	Countywide	Information distributed and county fair and other events	2010	2017
9. Community Chipper Days - Organize a program to provide a chipper for properly disposing of woody debris, in conjunction with composting programs and spring clean-up days.	Med	A. B. C. D. K. M. N. P.	B. C. T.	Countywide	Residents can take woody debris to Viking Cogeneration facility in Lincoln	2007	2017
10. Distribute wildfire education materials to homeowners and businesses through tax bill receipts.	Med	A. C. D. J. K. P.	D. J. T	Countywide	Minor progress	2008	2017

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>B. Wildfire Actions, #2</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
11. Develop a program to instruct residents on proper procedures for wildfire evacuation.	Med	A. B. C. D. J. N. I.	B. C. D. J. T	Countywide	Minor progress	2012	2015
12. Identify adequate water supplies for emergency firefighting, areas lacking adequate water supplies and develop strategy to construct dry hydrants.	Med	D. E. J.	B. C. J. T	Countywide	Completed and ongoing	Ongoing	Ongoing
13. Promote media broadcasts of fire weather and fire warnings	Med	A. O. J.	A. B. C. D. J	Countywide	MDNR and USFS media announcements	2010	2017
14. Promote and implement solutions for keeping roads and driveways accessible to vehicles and fire equipment.	Low	A. C. D. E. U.	A. B. C. D. J	Countywide	Minor progress	2007	2017
15. Work with insurance companies to provide wildfire safety information to area residents.	Low	K.	A. B. C. D	Countywide	No progress	2015	2017
16. Organize neighborhood wildfire safety coalitions to plan how residents can work together to prevent wildfire	Low	A. C. D. G.	A. B. C. D	Countywide	No progress	2011	2017
17. Develop program to form Wildfire Safety Coalition to develop neighborhood watch program to instruct others about escape routes, sprinkler systems, power lines, etc...	Low	A. B. C. D. U.	A. B. C. D. J	Countywide	No progress	2015	2017
18. Identify communities or neighborhoods to develop "Firewise" demonstration projects.	Low	A. B. C. D. I. J. G.	A. B. C. D. J	Countywide	Minor progress	Ongoing	2017
19. Implement community wildland fire education program utilizing the Student Conservation Association – Fire Education Corps, to provide land managers and communities with tools and information designed to reduce the negative impact of wildland fires on individuals living in the wildland urban interface.	Low	A. B. C. D. I. J. G.	A. B. C. D. J	Countywide	Removed	2010	NA

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>C. Shoreline Flooding and Erosion</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Initiate a program to identify and map flood-prone areas and structures affected by flooding	High	A. B. E. K. Q. T.	Q. T	Countywide	FEMA completed mapping	Ongoing	Ongoing
2. Communities should incorporate floodplain/coastal zone management into their local planning activities by planning acceptable uses for areas prone to flooding (comprehensive planning, zoning, open space requirements, subdivision regulations, land use and capital improvements planning)	High	C.	Q. T	Countywide	Ongoing	2012	2017
3. Change real estate disclosure laws to require sellers to identify a structures location in a shoreline flooding or erosion area.	Med	L. Q.	Q	Countywide	Removed	2015	NA
4. Construct elevated or alternative roads that are unaffected by flooding, or make roads more flood-resistant	Med	E. S. T.	T. U	Countywide	Progress made and ongoing	2015	2017
5. Communities with flooding hazards should join the National Flood Insurance Program	Med	C.	T	Countywide	Progress made	Ongoing	Ongoing
6. Elevate flood-prone structures above the 100-year flood level where deemed technically feasible and cost effective	Low	Q. T. U.	T. U	Countywide	No progress	2015	2017
7. Dry floodproofing of structures within known flood areas.	Low	Q. T. U.	U	Countywide	No activity	2015	2017
8. Initiate structural projects to increase drainage or absorption.	Low	C. B. E.	B. C.	Countywide	County Road Commission addressing issues where possible	2015	2017

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>D. Riverine and Urban Flooding</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Communities should incorporate floodplain management into their local planning activities by planning acceptable land uses and land use densities for areas prone to flooding	High	C.	B. C. T.	Townships, cities and villages	Progress made	2015	2017
2. Construct elevated or alternative roads that are unaffected by flooding, or make roads more flood-resistant	High	E. S. T.	T. U	Countywide	County Road Commission addressing issues where possible	2015	2017
3. Increase public awareness of the need for permits (MDEQ Part 31) for building in floodplain areas.	Med	A. B. C. Q. T.	Q. T	Countywide	Ngoing	2012	2017
4. Protect and restore wetlands and natural water retention areas to improve natural Stormwater retention systems	Med	B. C. J.	B. C.	Countywide	Minor progress	2015	2017
5. Communities with flooding hazards should join the National Flood Insurance Program	Med	C.	T	Countywide	Several communities have joined	Ongoing	Ongoing
6. Initiate structural projects to increase drainage or absorption capacities.	Med	B. C. E.	U. T	Countywide	County Road Commission addressing issues where possible	2015	2017
7. Change real estate disclosure laws to require sellers to identify a structures location in a floodplain	Med	Q. L.	Q	Countywide	Removed	2015	NA
8. Elevate flood-prone structures above the 100-year flood level where deemed technically feasible and cost effective	Low	Q. T. U.	U	Countywide	No known activity	2015	2017
9. Dry floodproofing of structures within known flood areas.	Low	Q. T. U.	U	Countywide	No known activity	2012	2017
10. Enforce basic building code requirements related to flood mitigation.	High	B. Q.	B. C.	Countywide	Being done	2015	2017
11. Drainage easements (allowing the planned and regulated public use of privately owned land for temporary water retention and drainage).	Med	B. C. E.	B, U	Countywide	Minor activity	2015	2017
12. Improve and expand regional and watershed cooperation activities	Med	A. B. C. F.	Q. T	Countywide	Ongoing	2015	2017
13. Detection and prevention/discouragement of illegal discharges into storm-water sewer systems, from home footing drains, downspouts and sump pumps	Low	B. C. U.	B. C	Harrisville and Lincoln	Ongoing activity	2015	2017

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<b>Mitigation Actions &amp; Implementation Strategies</b> <b>E. Summer Weather Hazards Actions</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Maintain a listing of homes and facilities with vulnerable residents such as elderly, infirmed and disabled individuals. Establish outreach procedures for assisting residents after severe summer storm events	High	A. C. H. N. Q. S.	B. C. Q. T.	Countywide	Significant progress	Ongoing	Ongoing
2. Develop or update emergency response plans for schools, campgrounds, fairgrounds, parks, community events and marinas	High	A. N. R. V.	A. T	Countywide	Updates ongoing	Ongoing	Ongoing
3. Continue training and increased use of weather spotters.	High	A. C. O. V.	O	Countywide	National Weather Service sponsors weather watchers workshops	Ongoing	Ongoing
4. Identify campgrounds, fairgrounds, parks, and outdoor recreational facilities that lack and need "Safe Areas." Where necessary construct safe areas and storm shelters.	High	A. B. C. J. M. R.	A, T	Countywide	Plans in place and being reviewed periodically	2010	2017
5. Increase usage of NOAA Weather Radio by subsidizing purchase and distribution of radios to county residents, organizations and businesses	Med	A. O.	T	Countywide	Progress made- received grant to distribute radios to critical sites such as senior's centers, and campground. Radios given to individuals and special events	Ongoing	Ongoing
6. Require new mobile home parks to have tornado/wind shelters	Low	Q.	B. C.	Countywide	No mobile home parks have been developed since 2005	2015	2017
7. Include safety strategies for severe weather events in driver education classes and materials	Low	M. Q. R.	R	Countywide	Information provided	2015	2017
8. Amend building codes to require anchoring of manufactured homes and exterior structures such as carports and porches	Low	Q.	B. C.	Countywide	Progress made	Ongoing	NA
9. Continue pre-planning efforts for debris management staging and storage areas	Low	A. B. C. E.	A. B. C. D.	Countywide	Sites identified and being reviewed periodically	2015	2017
10. Amend building codes to require installation of weather radios in new structures, similar to smoke detectors	Low	Q.	B. C. Q. T	Countywide	No activity	2015	2017

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<b>Mitigation Actions &amp; Implementation Strategies F. Winter Weather Hazards</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Establish heating centers/shelters for vulnerable populations	High	A. B. C. I. N. V.	B. C. H. T.	Township, city and village halls	Sites identified and being reviewed periodically	Ongoing	Ongoing
2. Complete and 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	High	E. V.	E. T.	Countywide	Minor progress made	2015	2017
3. 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	Med	A. C. H. N. Q. V.	A. H. T.	Countywide	Completed and ongoing	2008	2017
4. Prearrange for shelters for stranded motorists/travelers.	Low	A. N. Q. V.	A. D. I.	Countywide	Minor progress	2015	2017

<b>Mitigation Actions &amp; Implementation Strategies G. Infrastructure Failures</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Establish redundancies in utility and communications systems, especially "lifeline" systems	High	A. B. C. D. P. V.	M. T. U	Countywide	Progress made and ongoing	Ongoing	Ongoing
2. Purchase and/or maintain generators for backup power at critical facilities	High	A, B, C, R. S. T. V.	B. C. T	Countywide	Purchased generators for facilities and portable generator	2010	Ongoing
3. Establish and improve programs/networks for contacting elderly or homebound persons during periods of infrastructure failure, to assess whether they have unmet needs	Med	A. B. I. N. V.	N. T	Countywide	Minor progress made	2010	2017
4. Protect electrical and communications systems from lightning strikes by completing an inventory of protection systems and where necessary upgrade systems.	Med	A. B. C. F.	B. C. Q. T.	Countywide	Completed and being reviewed	2010	2017
5. Identify sites, obtain support and seek funding to improve critical road/stream crossings	Low	E. F. Q. C.	E, J, N.	Countywide	Progress made and ongoing	2010	2017

<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>H. Public Health Emergencies</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. 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	Ongoing	Ongoing
2. 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	Progress made and continue to work on activity	2007	Ongoing
3. Encourage residents to receive immunizations against communicable diseases	Med	H. I. N. Q. S.	H. T	Countywide	Ongoing	Ongoing	Ongoing
4. Expand community support of free or reduced-expense clinics and school health services	Med	B. C. H. N. Q. S.	H. T	Countywide	Continuing to expand programs	2010	2017
5. 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 and ongoing	2010	Ongoing
6. Demolish and clear vacant condemned structures in populated areas to prevent rodent infestations	Low	C. B. H.	H. T	Countywide	Progress made and Ongoing	2015	Ongoing
7. Coordinate with health department and local communities to assure proper location, installation, cleaning, monitoring, and maintenance of septic tanks	Low	C. H.	H. T	Countywide	Progress made and Ongoing	2015	2017
8. 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. T	Countywide	In place and ongoing	2012	2017

<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>I. Hazardous Material Transportation Incidents</b>	Priority	Responsible Agency	Funding Sources	Application	Progress	Original Status	New Status
1. Provide for trained, equipped, and prepared search and rescue teams	High	A. B. C. D. V.	B. C. T	Countywide	Major progress and ongoing	Ongoing	Ongoing
2. Maintain and enhance trained, equipped and prepared local hazardous materials emergency response teams	High	A. B. C. D. V.	B. C. T	Countywide	Major progress and ongoing	Ongoing	Ongoing
3. Increase coverage and use of NOAA Weather Radio (which can provide notification to the community during any period of emergency, including large scale hazardous material incidents)	Med	A.	T	Countywide	Major progress and ongoing	Ongoing	Ongoing
4. Develop evacuation plans and community awareness of them	Med	A. V.	A. T	Countywide	Major progress and ongoing	2010	2017
5. Improve capability of agencies to carry-out road closures and to provide traffic control in accident areas	Med	E. V.	E. T	Countywide	completed and ongoing	2008	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	