

## Chapter 9 - Mitigation Strategies and Priorities

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

A public workshop was held in Alcona County on May 25, 2004 to invite the community to discuss hazards and identify possible mitigation actions. Communities, agencies, LEPC and general public were invited to attend the workshop that was held in the community of Harrisville. **Table 9.1** lists the mitigation actions identified at the community workshop.

### Evaluation and Prioritization of Mitigation Actions

A Hazard Mitigation Committee meeting was held on September 23, 2004 to evaluate and prioritize the list of mitigation actions. The committee also identified agencies and organizations responsible for completing the action and possible funding sources. Evaluation criteria included: social impacts, technically feasible, administrative capabilities, political impacts, legal issues, environmental, benefits and cost effective. Appendix C shows the projects and associated evaluated criteria.

The committee used a recommended process to rank the list of projects compiled at earlier sessions. The planning team chose to use the approach termed “multi-voting.” Actions were ranked by hazard type. Each team member was given half the total number of potential actions to use as individual votes. In other words, if there were 20 mitigation actions for wildfires, each member could vote for 10 of the actions. The number of votes was tabulated for each action, and based on the score, actions were given a high, medium or low priority. Next, the committee identified responsible agencies and organizations, general funding sources and an anticipated timeframe for completing the actions.

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>A. Multi-Hazard Actions 1</b>				
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.	High	A. D. H. I. J. N. O. V.	Local- General Fund Federal- F9, F70, F97, F98, F100, F104 American Red Cross	2007
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.	Local- General Fund State- MDIT Federal- F76, F77, F79, F104, F106 Homeland Security	Ongoing
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.	High	A. B. C.	Local- General Fund Federal- F12, F13, F14, F16, F19, F83, F85	2015
Enhance and expand a public education program for all natural hazards that threaten the community.	Med	A. J. O.	Local- General Fund Federal- F54, F39, F54, F104	Ongoing
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.	Local- General Fund State- Health Department Federal- F104 American Red Cross, Civic Groups	2006
Continue to develop Emergency Response Team program to help prepare for all hazard events in the county.	Med	A. D. H. I. J. E.	Local- LEPC State- Health Department Federal- F38, F104	Ongoing

[A. County Emergency Management Office| B. County| C. Local Units of Gov.| D. Local Fire Dept.| E. County Road Commission| F. NEMCOG| G. MSU Extension| H. District Health Dept.| I. American Red Cross|| J. USFS & MDNR| K. Insurance Companies| L. Real Estate Companies| M. Local Businesses| N. Civic Groups and Churches| O. National Weather Service| P. Utility Company| Q. State| R. Schools| S. Medical| T. Federal Government| U. landowners| V. Law Enforcement ]

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>A. Multi-Hazard Actions 2</b>				
Produce and distribute family emergency preparedness information relating to all natural hazards affecting the County.	Med	A. D. H. I. J. N.	Local- General Fund State- Health Department Federal- F54, F102, F104	Ongoing
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.	Federal- F104	Ongoing
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.	Local- General Fund Federal- F62, F63, F64, F65, F68, F104	2010
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.	Local- General Fund Federal- F39, F54, F102, F104	2006
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.	Federal- F54, F104	2015
Ensure key gasoline stations have the capacity to pump gasoline during power outages.	Med	A. C. E. M. V.	Federal- F15, F87, F102, F108	2015

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding	Timeframe
<b>A. Multi-Hazard Actions 3</b>				
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.	Local- Private Federal- F14	2007
Enforce a balanced system of ordinances that protect the community as-a-whole while respecting the rights of individuals.	Low	C	N/A	2012
Where feasible and cost effective (more densely populated areas) bury and protect power and utility lines.	Low	A. C. P.	N/A	2015
Communities will work with the Federal Emergency Management Agency (FEMA) to identify flood plains.	Low	A. B. C. E. T.	N/A	2015
Identify optimal staffing levels for County and community needs – seek funding to meet optimal levels	Low	B. C.	N/A	2012
Acquire portable/changeable message signs to direct crowds and provide information.	Low	A. E.	N/A	2007
Individual communities should prepare future land use plans and capital improvement programs to plan for their future needs.	Low	C. E.	N/A	Ongoing

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>B. Wildfire Actions 1</b>				
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.	Local- General Fund State-MDNR Federal-F54, F104, F105	Ongoing
Develop and implement strategy to introduce "Firewise" program in at-risk communities.	High	A. B. C. D. I. J. G.	State- S21, Federal- F54, F104, F105, F107	Ongoing
Review and strict enforcement of open burning regulations.	High	B. C. D. J. V.	Local- Local Fire Department State- MDNR Federal- F102, F105, F107	Ongoing
Conduct multi-agency, inter-county emergency management response exercises for fire suppression.	High	A. D. I. V.	Federal- F87, F104, F105, F108	2008
Promote and implement fuel management by thinning of flammable vegetation, creation of fuel breaks, use of fire-retardant materials/vegetation and selective thinning....	High	J. U.	State- MDNR Federal- F54, F102, F104, F105, F107, USFS	2007
Promote creation of defensible space around structures in fire-prone wildland areas.	Med	A. C. D. I. J. K.	Federal- F54, F102, F104, F105, F107	2007
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.	Local- General Fund Federal- F54, F87, F102, F104, F105	2010
Distribute wildfire education materials to homeowners and businesses through tax bill receipts.	Med	A. C. D. J. K. P.	Local- Local Fire Department State- MDNR Federal- F54, F104, F105, USFS	2007

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>B. Wildfire Actions 2</b>				
Develop a program to instruct residents on proper procedures for wildfire evacuation.	Med	A. B. C. D. J. N. I.	Local- General Fund, Local Fire Department State- MDNR Federal- F54, F104, F105, USFS	
Identify adequate water supplies for emergency fire fighting, areas lacking adequate water supplies and develop strategy to construct dry hydrants.	Med	D. E. J.	Local- General Fund Federal- F54, F104, F105, F108	Ongoing
Promote media broadcasts of fire weather and fire warnings	Low	A. O. J.	N/A	2010
Promote and implement solutions for keeping roads and driveways accessible to vehicles and fire equipment.	Low	A. C. D. E. U.	N/A	2007
Work with insurance companies to provide wildfire safety information to area residents, and consider reduction of insurance premiums if homes meet “Firewise” criteria.	Low	K.	N/A	2015
Organize neighborhood wildfire safety coalitions to plan how residents can work together to prevent wildfire	Low	A. C. D. G.	N/A	2011
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.	N/A	2015
Identify communities or neighborhoods to develop “Firewise” demonstration projects.	Low	A. B. C. D. I. J. G.	N/A	Ongoing
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.	N/A	2010

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>C. Shoreline Flooding and Erosion</b>				
Initiate a program to identify and map flood-prone areas and structures affected by flooding	High	A. B. E. K. Q. T.	State- S7 Federal- F22, F23, F31, F39, F96, F102, F104, F106	Ongoing
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.	State- S7, S9 Federal- F22, F23, F30, F104	2012
Change real estate disclosure laws to require sellers to identify a structures location in a shoreline flooding or erosion area.	Med	L. Q.	State- State Legislature	2015
Construct elevated or alternative roads that are unaffected by flooding, or make roads more flood-resistant	Med	E. S. T.	Local- Special Assessment Federal- F40, F61, F102, F104, F108	2015
Communities with flooding hazards should join the National Flood Insurance Program	Med	C.	Federal- F90, F91, F96, F106	Ongoing
Elevate flood-prone structures above the 100-year flood level where deemed technically feasible and cost effective	Low	Q. T. U.	N/A	2015
Dry floodproofing of structures within known flood areas.	Low	Q. T. U.	N/A	2015
Initiate structural projects to increase drainage or absorption.	Low	C. B. E.	N/A	2015

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>D. Riverine and Urban Flooding 1</b>				
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.	Local- General Fund Federal- F102, F104	2015
Construct elevated or alternative roads that are unaffected by flooding, or make roads more flood-resistant	High	E. S. T.	Local- Special Assessment Federal- F40, F61, F104, F108	2015
Increase public awareness of the need for permits (MDEQ Part 31) for building in floodplain areas.	Med	A. B. C. Q. T.	State- MDEQ Federal- F23, F39, F104	2012
Protect and restore wetlands and natural water retention areas to improve natural Stormwater retention systems	Med	B. C. J.	Local- General Fund Federal- F22, F43, F71, F102, F104	2015
Communities with flooding hazards should join the National Flood Insurance Program	Med	C.	Federal- F90, F91, F96, F106	Ongoing
Initiate structural projects to increase drainage or absorption capacities.	Med	B. C. E.	Local- Special Assessment Federal- F22, F41, F42, F104	2015
Change real estate disclosure laws to require sellers to identify a structures location in a floodplain	Med	Q. L.	State- State Legislature	2015
Elevate flood-prone structures above the 100-year flood level where deemed technically feasible and cost effective	Low	Q. T. U.	N/A	2015
Dry floodproofing of structures within known flood areas.	Low	Q. T. U.	N/A	2012

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



<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>D. Riverine and Urban Flooding 2</b>				
Enforce basic building code requirements related to flood mitigation.	High	B. Q.	Local- General Fund Federal- F96, F102, F104	2015
Drainage easements (allowing the planned and regulated public use of privately owned land for temporary water retention and drainage).	Med	B. C. E.	Local- General Fund Federal- F22, F23, F104	2015
Improve and expand regional and watershed cooperation activities	Med	A. B. C. F.	State- MDEQ Federal- F22, F104	2015
Detection and prevention/discouragement of illegal discharges into storm-water sewer systems, from home footing drains, downspouts and sump pumps	Low	B. C. U.	N/A	2015

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>E. Summer Weather Hazards Actions</b>				
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.	Local- General Fund State- Health Department Federal- F92, F104	Ongoing
Develop or update emergency response plans for schools, campgrounds, fairgrounds, parks, community events and marinas	High	A. N. R. V.	Local- EMD Federal- F57, F104	Ongoing
Continue training and increased use of weather spotters.	High	A. C. O. V.	US Weather Service	Ongoing
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.	Local- EMD Federal- F57, F58, F87, F102, F104, F108	2010
Increase usage of NOAA Weather Radio by subsidizing purchase and distribution of radios to county residents, organizations and businesses	Med	A. O.	Federal- F104	Ongoing
Require new mobile home parks to have tornado/wind shelters	Low	Q.	N/A	2015
Include safety strategies for severe weather events in driver education classes and materials	Low	M. Q. R.	N/A	2015
Amend building codes to require anchoring of manufactured homes and exterior structures such as carports and porches	Low	Q.	N/A	2015
Continue pre-planning efforts for debris management staging and storage areas	Low	A. B. C. E.	N/A	2015
Amend building codes to require installation of weather radios in new structures, similar to smoke detectors	Low	Q.	N/A	2015

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>F. Winter Weather Hazards</b>				
Establish heating centers/shelters for vulnerable populations	High	A. B. C. I. N. V.	Local- General Fund State- Health Department Federal- F14, F92, F104, F108	Ongoing
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.	Local- County Road Commission State- S1	2015
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.	Local- EMD State- Health Department Federal- F92, F98, F104	2008
Prearrange for shelters for stranded motorists/travelers.	Low	A. N. Q. V.	N/A	2015

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>G. Infrastructure Failures</b>				
Establish redundancies in utility and communications systems, especially "lifeline" systems	High	A. B. C. D. P. V.	Local- Private Federal- F35	Ongoing
Purchase and/or maintain generators for backup power at critical facilities	High	A, B, C, R. S. T. V.	Local- General Fund Federal- F14, F19, F87, F102, F108	2010
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.	Local- Council on Aging Federal- F104	2010
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.	Local- General Fund State- Federal- F14, F19	2010
Identify sites, obtain support and seek funding to improve critical road/stream crossings	Low	E. F. Q. C.	N/A	2010

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>H. Public Health Emergencies</b>				
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.	State- Health Department Federal- F82, F104	Ongoing
Increase public awareness of the causes, symptoms, and protective actions for disease outbreaks and other potential public health emergencies	High	H. N. R. S.	State- Health Department Federal- F82, F104	2007
Seek support and funding to clean up sites of environmental contamination	Med	B. M. Q. T.	State- Health Department Federal- F73, F75, F76, F79	2012
Encourage residents to receive immunizations against communicable diseases	Med	H. I. N. Q. S.	State- Health Department Federal- F82	Ongoing
Expand community support of free or reduced-expense clinics and school health services	Med	B. C. H. N. Q. S.	State- Health Department	2010
Inform public and support pollution control, enforcement and cleanup; proper disposal of chemicals and scrap materials	Med	A. B. H. M. Q. R. T.	State- Health Department Federal- F104	2010
Demolish and clear vacant condemned structures in populated areas to prevent rodent infestations	Low	C. B. H.	N/A	2015
Coordinate with health department and local communities to assure proper location, installation, cleaning, monitoring, and maintenance of septic tanks	Low	C. H.	N/A	2015
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.	N/A	2012

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

<b>Alcona County Implementation Strategy Table</b>				
<b>Mitigation Actions</b>	Priority	Responsible Agency or Organization	Funding Sources	Timeframe
<b>I. Hazardous Material Transportation Incidents</b>				
Provide for trained, equipped, and prepared search and rescue teams	High	A. B. C. D. V.	Local- General Fund Federal- F66, F68, F104	Ongoing
Maintain and enhance trained, equipped and prepared local hazardous materials emergency response teams	High	A. B. C. D. V.	Local- General Fund Federal- F66, F68, F104	Ongoing
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.	Federal- F104	Ongoing
Develop evacuation plans and community awareness of them	Med	A. V.	Local- EMD Federal- F62, F63, F64, F65, F68, F104	2010
Improve capability of agencies to carry-out road closures and to provide traffic control in accident areas	Med	E. V.	Local- County Road Commission Federal- F62, F63, F66, F68, F104	2008

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

## 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













# FEDERAL HAZARD MITIGATION FUNDING SOURCES

Funding Source		Civil Disturbance	Drought	Earthquake	Extreme Temperature	Scrap Tire Fire	Structural Fire	Wildfire	Dam Failure	Riverine Flooding	Urban Flooding	Great Lakes Shoreline Flooding and Erosion	Hazardous Materials Fixed Site	Hazardous Materials Transportation	Infrastructure Failure	Nuclear Attack	Nuclear Power Plant Accidents	Oil and Natural Gas Well Accidents	Petroleum and Natural Gas Pipeline Accident	Public Health Emergencies	Sabotage/Terrorism	Subsidence	Hail	Lightning	Severe Wind	Tornado	Transportation Accidents (Passenger)	Ice and Sleet Storm	Snowstorm	FINANCIAL ASSISTANCE	TECHNICAL ASSISTANCE		
F43	12.109 Protection, Clearing and Straightening Channels								X		X																		X				
F44	12.111 Emergency Advance Measures for Flood Protection							X	X	X	X																			X			
F45	14.129 Mortgage Insurance, Nursing Homes, ICF, B&C Homes and Assisted Living Facilities						X																							X			
F46	14.218 Community Development Block Grants/Entitlement Grants	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X			
F47	14.219 Community Development Block Grants -Small Cities Program	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X			
F48	14.228 Community Development Block Grants-State's Program	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X			
F49	14.239 HOME Investment Partnerships Program								X	X	X												X	X	X	X				X			
F50	14.246 Community Development Block Grant/Economic Development Initiative								X	X	X				X										X	X					X		
F51	14.250 Rural Housing and Economic Development	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X			
F52	14.511 Community Outreach Partnership Center Program	X	X	X	X	X	X	X	X	X	X	X	X	X	X					X	X	X	X	X	X	X	X	X	X	X			
F53	15.031 Indian Community Fire Protection					X	X	X																							X		
F54	15.228 Wildland Urban Interface Community and Rural Fire Assistance							X																							X		
F55	15.623 North American Wetlands Conservation Fund								X	X	X																				X		
F56	15.904 Historic Preservation Fund Grants-In-Aid						X		X	X	X											X	X	X	X	X		X	X		X		
F57	15.916 Outdoor Recreation-Acquisition, Development and Planning (Land and Water Conservation Fund Grants)								X	X	X																				X		
F58	15.918 Disposal of Federal Surplus Property (Property Transfer)								X	X	X																						
F59	15.921 Rivers, Trails, and Conservation Assistance								X	X	X																					X	
F60	20.106 Airport Improvement Program																										X				X	X	
F61	20.205 Highway Planning and Construction														X																X	X	
F62	20.217 Motor Carrier Safety													X													X					X	
F63	20.218 National Motor Carrier Safety												X													X						X	





