1. Bay Mills Indian Community

**Plans/Policies:**

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures;

**At Risk populations:** Very young, elderly or disabled persons.

**Emergency Services:** BMIC Tribal Police - Provides law enforcement on the reservation, including tribal land on Sugar Island. Officers work in conjunction with other tribal, state, and federal authorities for the protection of community members. Department provides escorts for funerals, lockout service, and fingerprinting in addition to emergency services. Dispatch is available 24-hours. Officers patrol via vehicle, provide community policing on foot at local events, and work with area schools through a community resource officer.; BMIC Conservation Department employs five officers that patrol the Great Lakes and inland waters under tribal regulations and enforcement.; Bay Mills Tribe Type III Disaster Medical Assistance Team; Type II Stress Management Team; Bay Mills Health Center

**Public Infrastructure:** Bay Mills Housing Authority operates 94 rental units. Housing Authority currently has eight one bedroom apartments, 24 two bedroom apartments and 44 single family homes for low income tribal member families. They also have 18 fair market rental homes. The fair market homes are for individuals who are over income for the low income rentals or non-tribal members. BMIC provides public water and sewer within the Reservation. Bay Mills Indian Community Utility Authority is responsible for the maintenance and billing for the community water and sewer services on the reservation.

**Critical Facilities:** Bay Mills Emergency Connection Facilities, Justice Center – Police Department Offices & Tribal Court, Conservation Facility – Fisheries and Biology departments, Ellen Marshall Health Center, Bay Mills Resort and Casino, Kings Club Casino, Senior Center, Child Development Center, Bay Mills Community College, Ojibwe Charter School

**Other:** Bay Mills History Committee and Department protects, manages and preserves the culture, history and traditions for present and future generations. This includes all cultural, historical, and archaeological resources, as well as objects, places, knowledge, traditions, practices and beliefs. The Bay Mills Gaming Commission regulates the gaming establishments owned and operated by the sovereign nation of the Bay Mills Indian Community – Casinos & Resort, Golf Course, Campgrounds; Steep slopes/ridge; Great Lake coastal shoreline;

**Additional Resources needed:** Funding for GIS training

**Annual events (large gatherings):** Annual Pow-wow

**Mitigation Actions:**
Watershed/Shoreline erosion protection; GIS Layer Development – public utilities
2. Bay Mills Township

**Plans/Policies:** 2011 Bay Mills Master Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures; Subsidence

**At Risk populations:** Elderly population – 16%; Disabled population – 12%; High percent of seasonal residents.

**Emergency Services:** Chippewa Co. Sheriff; State Police; Homeland Security; MDNR; BMIC Tribal Police; Advance Life Support Bay Mills Emergency Connection; Bay Mills Volunteer Fire Department; Hiawatha National Forest Service; Bay Mills Tribe Type III Disaster Medical Assistance Team; Type II Stress Management Team; Bay Mills Health Center

**Public Infrastructure:** Mainly private wells & septic systems; BMIC provides public water and sewer within the Reservation; Cloverland Electric; DTE/MichCon

**Critical Facilities:** Township Hall; Fire Department; Pt. Iroquois Lighthouse; Bay Mills Community College; Ojibwa Charter School; Monocle Lake Campground; Bayview Campground; Pines Picnic Area;

**Other:** Steep slopes/ridge; Great Lake coastal shoreline; small in-land lakes McNearney, Monocle, Spectacle, Pendills; Pendills Creek Fish Hatchery; creeks/rivers draining into Lake Superior; 5,200+ acres wetlands; 42% Forested

**Additional Resources needed:**

**Annual events (large gatherings):** Casinos, campgrounds

**Mitigation Actions:**

Safe house construction at campgrounds
Snow fencing
Watershed/Shoreline erosion protection
Wildfire planning
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
3. Bruce Township

**Plans/Policies:** 2007 Bruce Township Master Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms; High Wind Events; Flooding, Drought, Extreme Temperatures

**At Risk populations:** 12% elderly population

**Emergency Services:** Chippewa Co. Sheriff; State Police; Homeland Security; MDNR; Volunteer Township Fire Department; Sault Ste. Marie/Pickford Ambulance

**Public Infrastructure:** Private wells & septic/lagoon systems; DTE Energy - Natural gas provided in northeast portion of Township; Cloverland Electric

**Critical Facilities:** Township Hall; Fire Department; Neebish Island Ferry; Dunbar Park; Road Bridges; Communications Towers; Electrical substation

**Other:** St. Mary’s River; Charlotte River, tributaries of Little Munuscong River; wetlands, woodlands

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

- Land acquisition of flood plain area for retention basin
- Larger bridge/culvert on 12 Mile Rd.
- Shoreline erosion protection
- Snow fencing along M-129
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
4. Chippewa Township

**Plans/Policies:** 1977 Land Use Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Drought; Extreme Temperatures

**At Risk populations:**

**Emergency Services:** Chippewa County Sheriff; State Police; MDNR; Hiawatha National Forest Service; Volunteer Ambulance Department

**Public Infrastructure:** Private wells & septic/lagoon systems; Cloverland Electric

**Critical Facilities:** Township Hall, Ambulance Department, Railroad line, Chippewa Co. Road Commission Garage, Cloverland Electric substation, ATC transmission lines, Communications Towers, Bridges

**Other:** Majority of township forested, 86% federal forest; some small creeks; E. Branch of Tahquamenon River; portion of Hulbert Lake; recreational trails

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

Snow fencing along M-28
Additional ambulance volunteers/paramedic
Wildfire Planning
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
5. Dafter Township

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**Plans/Policies:** 1998 Dafter Township Land Use Plan; 2010 Dafter Township Master Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Drought; Extreme Temperatures; Flooding - water flow Waiska River tributary on 10 Mile Rd.; water flow Waiska River tributary on Maple Rd.; Greatest concern in Dafter Township is the potential of hazardous materials resulting from an incident on I-75 or the railroad.

**At Risk populations:** Fairly balanced population

**Emergency Services:** Dafter Township Fire; Kinross Twp. EMS; Chippewa Co. Sheriff; State Police; MDNR;

**Public Infrastructure:** Private wells, septic/lagoon systems; Cloverland Electric

**Critical Facilities:** Dafter Township Hall, Dafter Township Fire Department; Railway line; Road Bridges; Cloverland Electric substations; Communications Towers; Gas pipeline

**Other:** Agriculture land, Waiska River tributaries; MDOT electronic sign board;
**Additional Resources needed:** Our biggest need is a new fire truck. Ours is very old and would be inadequate in a severe emergency. Generator needed for Township Hall.

**Annual events (large gatherings):** None, Township hall gatherings are the largest.

**Mitigation Actions:**

10 Mile Road – replace existing culvert with larger culvert for improved water flow  
Maple Road – replace existing culvert with larger culvert for improved water flow  
Snow Fences along M-28; Mackinac Trail; W. 6 Mile Rd.  
Storm Ready Strategies  
Firewise Strategies  
Emergency Planning  
Replace older equipment  
Producing/distributing family emergency preparedness information/public education  
Tree trimming program/community forestry program  
Improved building codes for snow loads, if needed  
Wind/Lightning protection on critical facilities
6. DeTour Township

**Plans/Policies:** 1993 DeTour Township/DeTour Village Land Use Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:**

**Emergency Services:** Chippewa Co. Sheriff; State Police; Homeland Security; MDNR; DeTour Village Fire/Ambulance

**Public Infrastructure:** Mainly private wells & septic/lagoon systems; Cloverland Electric

**Critical Facilities:** Cloverland substations; Communications Tower, ATC Transmission lines; Road Bridges

**Other:** Lake Huron Shoreline; St. Mary’s River shoreline; Caribou Lake; small creeks; Cranberry Lake Flooding area; DeTour State Forest Campground; MDOT Roadside Park; majority of Township heavily forested; recreational trails

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

- Snow fencing along M-134
- Shoreline erosion protection
- Wildfire Planning
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
7. DeTour Village

**Plans/Policies:** 1993 DeTour Township & Village Land Use Plan; 1994-95 DeTour Village Master Plan

**Past Hazards experienced:** Severe Winter Weather, Thunderstorms/High Wind Events, Drought, Extreme Temperatures, Flooding on Sims Street, causing problems with basements and ground problems at residences

**At Risk populations:** Village of DeTour has both low income residents and high elderly population; increase in seasonal population.

**Emergency Services:** Chippewa County Sheriff; State Police; MDNR; Village Fire & Ambulance Department; Medical Center

**Public Infrastructure:** Public water and sewer; Cloverland Electric

**Critical Facilities:** Township/Village Offices/Community Center; DNR Field Office; Water Tower; Water Department; DeTour Area Schools; Drummond Island Ferry; Communications Towers;

**Other:** Lake Huron shoreline; St. Mary’s River shoreline; DeTour Museum; EUP Fine Arts Center; MDNR Harbor of Refuge, Botanical Garden

**Additional Resources needed:**

**Annual events (large gatherings):** 4th of July, Fall Festival

**Mitigation Actions:**

Improved drainage along Sims Street
Shoreline erosion protection
Stormwise strategies
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
8. Drummond Island Township

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**Plans/Policies:** 1975 Drummond Island Township Land Use Plan; 1992 Comprehensive Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures, Wildfires

**At Risk populations:** High seasonal population influx

**Emergency Services:** Drummond Island Volunteer Fire Department/Ambulance; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR

**Public Infrastructure:** Private wells & septic systems; Cloverland Electric

**Critical Facilities:** Township Hall; Drummond Island Fire & Ambulance; Drummond Island Airport; Chippewa County Road Commission Garage; Drummond Island Elementary School; Drummond Island Ferry; Communication Towers; Drummond Island Medical Center; Drummond Island Family Health Center; Cloverland Electrical Substation; Drummond Island Quarry; Drummond Island Betsy Seaman Museum; Bridges: Quarry Rd.; Mead Island; Pontagonnasing River; Dam: Pontagonnasing River
Other: Lake Huron shoreline, St. Mary’s River shoreline, many inland lakes, streams and creeks; heavily forested areas; wetland areas; surrounded by many smaller islands; Drummond Township Park (campground); private campgrounds and marinas; miles of recreational trails; large percent of state-owned land

Additional Resources needed:

Annual events (large gatherings): 4th of July; Fall Festival

Mitigation Actions:

Shoreline erosion protection
Retrofit Critical Facilities
Bury utility lines
Emergency Planning
Emergency Supplies Stockpile
Wildfire Planning
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
9. Hulbert Township

**Plans/Policies:** 1976 Land Use Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:**

**Emergency Services:** Chippewa Co. Sheriff; State Police; Homeland Security; MDNR;

**Public Infrastructure:** Mainly private wells & septic systems; Cloverland Electric

**Critical Facilities:** Hulbert Township Hall; Hulbert Township Fire Department; Road Bridges; Railroad line; Cloverland electrical substation; Chippewa Co. Road Commission Garage; Communications Tower; ATC Transmission line

**Other:** Heavily forested, recreational trails

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

- Wildfire Planning
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
10. Kinross Charter Township

**Plans/Policies:** 1997 Kinross Charter Township Comprehensive Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding – street flooding during heavy rains due to damaged storm drains on Kinross Rd.; Drought; Extreme Temperatures

**At Risk populations:** Institutionalized population, high percent of elderly, low income

**Emergency Services:** Kinross Township Police/Fire/EMS; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR; Hiawatha National Forest

**Public Infrastructure:** Mainly private wells & septic systems in outlying areas. Public water/wastewater in community of Kincheloe

**Critical Facilities:** Township Hall; Fire Department; Ambulance Department; Public Works Department; Water storage/wells; Recreation Center; 2 Township Campgrounds; Medical Center; Chippewa Co. International Airport; Road Bridges; Dam- Spile Dam; Railway line; Communication towers; Gas pipeline; ATC transmission line; Cloverland electric substations

**Other:** Prison facilities; heavily forested; Duke Lake Recreation Area; Kinross Lake; Township Golf Course; miles of recreational trails; Headstart/preschool; heavily forested; some agriculture

**Additional Resources needed:**

**Annual events (large gatherings):** Chippewa County Fair; Memorial Day Parade

**Mitigation Actions:**

- Replace damaged storm sewers as needed to relieve flooding issues
- Wildfire Planning
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
11. Pickford Township

**Plans/Policies:** 2009 Pickford Township Master Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:** 12% elderly population; 15% disabled

**Emergency Services:** Chippewa Co. Sheriff; State Police; Homeland Security; MDNR;

**Public Infrastructure:** Private wells & septic systems; Cloverland Electric;

**Critical Facilities:** Pickford Township Hall/Fire Department; Pickford Area School; Pickford Museum; GTE/Pickford; Road Bridges; Cloverland electrical substation; Communications towers; ATC transmission line

**Other:** Large percent land agricultural (27%); Township Park; Golf Course; State Forest Campground; Christian Camp; Munuscong River and tributaries; St. Mary’s River/Munuscong Bay shoreline; recreational trails; wetlands (9%); forested areas (28%)

**Additional Resources needed:**

**Annual events (large gatherings):** Pickford Hay Days

**Mitigation Actions:**

- Snow fencing along M-129
- Wildfire Planning
- Shoreline erosion protection
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
12. Raber Township

**Plans/Policies:** 1977 Land Use Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:**

**Emergency Services:** Raber Township Fire Department; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR

**Public Infrastructure:** Private wells & septic systems; Cloverland Electric

**Critical Facilities:** Township Hall/Fire Department/Community Center; Road Bridges; Communications towers; ATC transmission line

**Other:** St. Mary’s River shoreline; Lime Island campground; Gogomain River/Swamp; 2 boat launches; recreational trails; Stalwart fairgrounds; small inland lakes

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

- Shoreline erosion protection
- Wildfire Planning
- Safe house at boat launch
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
### 13. Rudyard Township

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**Plans/Policies:** 1999 Rudyard Township Master Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding – Prairie Rd/Pine River spring ice jams, timber-structured bridge Mackinac Trail/Pine River. We can experience some flooding on Main Street if culverts freeze up during spring break-up. If this happens we can lose roads, home and businesses on Main Street; Drought; Extreme Temperatures; Hazardous Materials Incident; Subsidence – ground movement along banks of Pine River which compromised the gas pipeline

**At Risk populations:**

**Emergency Services:** Chippewa Co. Sheriff; State Police; Homeland Security; MDNR;

**Public Infrastructure:** Mainly private wells & septic systems in outlying areas of Township. Within Village of Rudyard public water and sewer are available. Cloverland Electric; DTE Energy

**Critical Facilities:** Rudyard Township Hall/Fire Department; Rudyard Area Schools; Chippewa Co. Road Commission Garage; Railway line; Road Bridges; Cloverland electrical substation; Water Storage tank; Communications towers; ATC transmission line
Other: Agriculture lands; Forested lands; Wetlands; Pine River/Munuscong River and tributaries; creeks; recreational trails

Additional Resources needed:

Annual events (large gatherings): Summerfest – last weekend in July

Mitigation Actions:

Main Street drainage improvements
Bridge/Culvert Replacement – Pine River/Prairie Rd.
Bridge Structure support – Pine River/Mackinac Trail
Storm Ready Strategies
Emergency Planning
Emergency Supplies Stockpile
Snow Fences along major roads
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities

Plans/Policies: 1995 Master Plan

- **Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Drought; Extreme Temperatures; Flooding:
  - Sherman Park Beach Erosion - The heavy run-off cut large trenches along the City of Sault Ste. Marie’s only beach, which had to be fenced off. Sidewalks and other structures were damaged or are in need of stabilization.
  - E. Easterday Ave. Sewer Damage - The 24” sewer on E. Easterday Ave., which provides sanitary sewer service for over half the population of Sault Ste. Marie, was damaged by the heavy flows entering it. This clay sewer was flowing past capacity and the surrounding soils were washed away during the storm event. It has collapsed in several locations and its condition is now extremely poor.
  - Culverts on E. 9th and E. 10th Aves - The ditches which drain through this culvert were over capacity during the flood, which caused the water to destabilize the surrounding soils around the culvert. This lack of support allowed the culvert to partially collapse.
  - Alford Park and Carbide Dock Sink Holes - The relatively minor sink hole problem at the City’s Alford Park and the adjacent Carbide Dock have now become much more serious due to the heavy run-off from the rains. Several areas are now fenced off for the public’s safety. Large voids have were created along the river’s edge which both impact the public’s recreational use of the park and shipping use on the dock.
  - Eureka and Peck Streets Drainage Problems - A number of homes experienced flooding damage from surface water entering their basements and crawl spaces. The run-off from the storm overwhelmed the drainage capabilities in the area. Storm sewer damage occurred on Peck St., requiring replacement of much of this system. Damaging run-off from the hill area South of Eureka St. damaged a number of basements and properties.
  - 3 Mile Road Erosion - The road edge on W. 3 Mile Road was damaged as a result of the water spilling over the road way to the ditch. A portion of the road edge was lost along with the ditch slopes being eroded. A privately-owned stone retaining wall along this same ditch was also damaged from the heavy rains.
  - W. 4th Ave. Drainage Problems - The heavy rains damaged culverts and washed out ditches in this area, causing property damage. Several culverts along this drainage corridor now require replacement due to support being washed away, causing collapse. Several ditches now require reshaping and restoration work.
  - Seymour St. Storm Sewer Damage - The storm sewer on the 800 block of Seymour no longer functions properly after the storm due to a partial or total collapse of the sewer main. The heavy flows washed away the surrounding support material, collapsing the pipe.
  - E. Spruce St. Storm Sewer Damage - The storm sewer on the 600 block of E. Spruce St. no longer functions properly after the storm event of the 9th. The sewer is suspected to be completely collapsed from the heavy rains.
I-500 Property Slope Collapse - A large portion of the slope on the North wall of the track has washed away from the run-off. The stability of the remaining earthen wall is questionable and the Press Center Building is threatened.

**At Risk populations:** War Memorial Hospital; nursing homes/assisted living/AFC homes; Senior Hi-Rise Apartments; Trailer Courts; elderly population

**Emergency Services:** City Police Department; City Fire Department; City Public Works; Chippewa Co. War Memorial Hospital; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR; Sault Tribe Police; Chippewa County Health Department; U.S. Coast Guard; Hiawatha National Forest; EUP Regional Planning & Development Commission;

**Public Infrastructure:** City Water/Sewer; Cloverland Electric; DTE Energy

**Critical Facilities:** City Hall; SSM Fire Department; SSM Police Department; SSM Public Works/Water Storage Tanks/Water Treatment Plant/Intake Pumping Stations; SSM City Airport; Chippewa Co. Courthouse & Annex; Soo Locks; National Guard Armory; War Memorial Hospital; Sault Tribe Health Center; Sault Area Schools – preschool, elementary, middle, high; Road Bridges; Cloverland electric Power Canal/House/substation; Communication towers; ATC Transmission line; Gas line; Railway line/Yard; Sugar Island Ferry; US Coast Guard Facility; International Bridge; US Customs and Border Protection

**Other:** River of History Museum; Chippewa County Historical Society; Bayliss Library; Valley Camp Museum; Historical Water Street Houses; Alberta House/Sault Arts Council; STARS Theater; LSSU; Nursing Homes/Assisted Living Facilities/Senior Housing; Aune Osborn Campground, Sherman Park Campground, City parks; St. Mary’s River shoreline; 2 Golf courses; Kewadin Casino; Sports arenas; I-500 Race Track; Marinas

**Additional Resources needed:**

**Annual events (large gatherings):** Music in the Park - Wednesday’s during June, July, August; Engineer’s Day last Friday in June; Rendevous in the Sault History Festival last weekend in July; Sidewalk Sales days – July; July 4th celebration; Annual Art Festival – first Tuesday in August; Chamber Chase Marathon – last weekend in September

**Mitigation Actions:**

- Shoreline erosion protection
- Improved Code Enforcement
- Improved Address Ordinance Enforcement
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Wind/Lightning protection on critical facilities
- Culvert Inspections/Upgrades
The Sault Tribe's federally designated service area is the 7 eastern counties of Michigan's Upper Peninsula, inclusive of Chippewa, Mackinac, Luce, Alger, Schoolcraft, Marquette and Delta counties. This is an area of 8,572 square miles in the shape of a triangle 90 miles wide at the base and 170 miles long. It is a high rural area with an average population of 20.6 persons (Native and Non-Native) per square mile. The Tribe has 9 reservations/trust land sites in the service area. The largest is Sault Ste. Marie (Chippewa County) followed by Kincheloe (Chippewa County). Other sites include Manistique (Schoolcraft County), Hessel (Mackinac County), Escanaba (Delta County), Marquette (Marquette County), Wetmore (Alger County), Newberry (Luce County), and St. Ignace (Mackinac County).

**Plans/Policies:**

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Drought; Extreme Temperatures; Flooding:

**At Risk populations:** Very young, elderly or disabled persons.

**Emergency Services:** The Sault Tribe Law Enforcement Department currently has 18 sworn Police Officers, with a main office in Sault Ste. Marie, Michigan and satellite offices in Kincheloe, St. Ignace, and Manistique, Michigan. Tribal Law Enforcement officials serve the communities of: Sault Ste. Marie, Kincheloe, Hessel, St. Ignace, Newberry, Manistique, Wetmore, Escanaba, and Marquette. Conservation Enforcement takes place in Lake Superior, Lake Huron, and Lake Michigan. Sault Tribe Emergency Management: Emergency Management provides emergency support to the Sault Tribe of Chippewa Indians Seven County Service area – to include information, equipment, emergency notification and planning. It also manages the Sault Tribe Emergency Operations Center (EOC) and develops all operational plans, and procedures to ensure public safety during an emergency event. An emergency management blog is also available to the public.; Anishnaabek Community and Family Services provide human services or social services for the Sault Ste. Marie Tribe of Chippewa Indians. Two of the tribe's natural resource programs provide biological services for the tribe’s hunting, fishing and gathering reserved rights under the 1836 Treaty of Washington — the Inland Fish and Wildlife Department and the Inter-tribal Fisheries and Assessment Program. The third, the Environmental Department, provides solutions and information on environmental issues and concerns affecting the tribe, tribal members and tribal enterprises.

**Public Infrastructure:** Transportation network, city water and sewer extended to housing area

**Critical Facilities:** The Sault Tribe Health Division has seven health clinics or centers providing various levels of medical services throughout their seven-county service area located in the Upper Peninsula of Michigan, one of which is located in Sault Ste. Marie and one in Kinross Township. In general, services are offered to all Native Americans, ages infant to adult.
Warning Sirens installed throughout service area. Tribal offices, garages and businesses. Kewadin Casino and Hotel complex, Big Bear Recreational Center

**Other:** The Cultural Division, is comprised of four departments: Cultural Training, Repatriation, Mary Murray Culture Camp, and Language Department. Cultural Division staff collectively work on Sault Tribe powwows, traditional funerals and other ceremonies. The Education Division is dedicated to the concept that all students, from earliest childhood to adulthood, can learn and master basic educational skill. Services and departments include Child Care Center, Early Head Start, Head Start, Youth & Education Activities, Workforce Investment, Adult Education, Higher Education and JKL Bahweting School. The Elder Services Division was established in January 1996. The division offers, in order of priority, personal care, respite care, homemaking assistance, transportation, outreach service, and advocacy.

**Additional Resources needed:**

**Annual events (large gatherings):** Pow-wow; entertainment/concerts

**Mitigation Actions:**

- Shoreline erosion protection
- Tree trimming program/community forestry program
- Improved Code Enforcement
- Improved Address Ordinance Enforcement
- Wind/Lightning protection on critical facilities
- Producing/distributing family emergency preparedness information/public education
- Culvert Inspections/Upgrades

2014 Shawano Drive & Cul-de-sacs:

2014 East Streets Phase II:

2015 Odenaang Housing Site: drainage, heaving

2015 Communication Towers - Sugar Island & Sault Ste. Marie discussion
16. Soo Township

Survey returned:

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<th>Likelihood of Occurrence</th>
<th>Casualty Potential</th>
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Plans/Policies:

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:** Shoreline residential in flood plain

**Emergency Services:** Soo Township Volunteer Fire Department; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR

**Public Infrastructure:** Mainly private wells & septic systems; Some water/sewer extensions south from Sault Ste. Marie; Cloverland Electric

**Critical Facilities:** Township Hall, Fire Department; Soo Township Elementary School; Chippewa Co. Road Commission Office/Garage; Neebish Island Community Center/Fire Department; Railway line; Neebish Island Ferry; Road Bridges; Communications towers; ATC transmission line; gas pipeline

**Other:** St. Mary’s River/Lake Superior Shoreline – clay banks on west side; 4 Mile Beach/Park
Additional Resources needed:

Annual events (large gatherings):

Mitigation Actions:

Shoreline erosion protection
Stormwise Planning
Snow fencing along M-129/6 Mile Road
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
17. Sugar Island Township

**Plans/Policies:** Sugar Island Township Land Use Plan, 11/2002

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding – September, 2013 Heavy rains washed out portions of major road; Drought; Extreme Temperatures;

**At Risk populations:** Shoreline residents in floodzone;

**Emergency Services:** Township Fire/Ambulance; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR

**Public Infrastructure:** Private wells & septic systems.

**Critical Facilities:** Township Hall/Fire Department/Ambulance Department; Chippewa Co. Road Commission Garage; Sugar Island Ferry/ Communication tower

**Other:** Waterfront shoreline; Township Park

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

Shoreline erosion protection
Wildfire Planning
Culvert replacement
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
18. Superior Township

**Plans/Policies:** 1975 Land Use Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:**

**Emergency Services:** Township Fire/Ambulance; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR;

**Public Infrastructure:** Mainly private wells & septic systems.

**Critical Facilities:** Township Hall/Fire/Ambulance Water Departments; Brimley Area School; Chippewa Co. Road Commission Garage; Road Bridges; Water Storage Tank/ Lift Station/Well house; Railway line; ATC Transmission line; Cloverland Electrical substation;

**Other:** Wheels of History Museum; Waishkey River; Whitefish Bay shoreline; BMIC; BM Community College; recreational trails; Brimley State Park Campground

**Additional Resources needed:**

**Annual events (large gatherings):** 4th of July; Bay Mills Pow Wow;

**Mitigation Actions:**

- Shoreline erosion protection
- Wildfire planning
- Snow fencing along M-28
- Producing/distributing family emergency preparedness information/public education
- Tree trimming program/community forestry program
- Improved building codes for snow loads, if needed
- Wind/Lightning protection on critical facilities
19. Trout Lake Township

**Plans/Policies:** 1977 Land Use Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures

**At Risk populations:**

**Emergency Services:** Township Fire/Ambulance; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR

**Public Infrastructure:** Private wells & septic systems.

**Critical Facilities:** Township Fire/Ambulance Department; Township Hall; Chippewa Co. Road Commission Garage; Road Bridges; Railway Line; Cloverland electrical substation; Communication towers; ATC Transmission line

**Other:** Inland Lakes – Carp/Frenchman’s/Wegwaas; Township Campground/Park

**Additional Resources needed:**

**Annual events (large gatherings):**

**Mitigation Actions:**

Wildfire Planning
Culvert replacement at Carp River/Lake outlet/Huckleberry Road
Producing/distributing family emergency preparedness information/public education
Tree trimming program/community forestry program
Improved building codes for snow loads, if needed
Wind/Lightning protection on critical facilities
20. Whitefish Township

Survey returned:

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**Plans/Policies:** 2006 Whitefish Township Master Plan; Whitefish Township Community Wildfire Protection Plan

**Past Hazards experienced:** Severe Winter Weather; Thunderstorms/High Wind Events; Flooding; Drought; Extreme Temperatures; Wildfire - Duck Lake fire emergency alert; Power failures – often lengthy (more than 1 day) – community center & emergency service building have backup generators, buildings are open with extended power outages.

**At Risk populations:** Influx of seasonal residents; elderly population

**Emergency Services:** Township Fire/Ambulance; Chippewa Co. Sheriff; State Police; Homeland Security; MDNR

**Public Infrastructure:** Private wells & septic systems

**Critical Facilities:** Township Fire/Ambulance Department; Township Hall/Community Center; Whitefish Township School; Road Bridges; Shelldrake dam; Communication towers
**Other:** Great Lakes Shipwreck Historical Museum/Facility; Vermillion Lifesaving Station; Tahquamenon Rivermouth/Lower Falls Campgrounds; State Forest Campgrounds; State Harbor; Whitefish Bay/Lake Superior shoreline; Tahquamenon River, Shelldrake River, small inland lakes; MDOT Roadside Park; Audubon Bird Observatory; large tracts public/corporate land

**Additional Resources needed:** Could use sleeping pads (30+)

**Annual events (large gatherings):** Blueberry Festival – 3rd weekend in August; July 4th celebration; Snow Festival – 3rd week in February

**Mitigation Actions:**

- Lightning Protection
- Retrofit Critical Facilities
- Improved Address
- Bury Utility Lines
- Improved Code
- Ordinance Enforcement
- Culvert Replacement
- Enforcement
- Implement Firewise Strategies