Eastern Upper Peninsula Snowmobile Trail Emergency Locator Sign System

Participating Agencies
Chippewa County Office of Emergency Services / Central Dispatch
Chippewa County Sheriff Office
Mackinac County 911
Mackinac County Sheriff Office
Luce County Sheriff Office

System Coordinated and Maintained by:
No Boundaries Maps and Graphics, Inc.
Eastern Upper Peninsula Snowmobile Trails

- Approximately 940 Miles of Trail in the Eastern UP
- Trails are identified by number
- No state-wide system for locating points on trails

Sign System Development

- Project started in 2005
- Evaluation of potential sign systems - Linear, PLSS, Coordinate
Emergency Locator Sign System

• Based on the US National Grid System
• Signs located approximately every mile
• System accommodates trail relocation
• Universal numbering system - Works with GPS

System Information

626 Signs Currently in System
Chippewa    305
Mackinac    178
Luce        122
Schoolcraft  20
Alger       1
US National Grid Sign Identification System

USNG Coordinate 16T FS 95785 25142

Reasons for Choosing the US National Grid

• USNG has become the nationwide standard for disaster response.
• USNG is a rectangular grid system – Unlike Latitude / Longitude.
• USNG coordinates are scaleable – More digits, more accuracy.
• USNG works with all GPS receivers.

![Image of GPS display and US National Grid coordinate system]
Parts of USNG Coordinates

Grid Zone Designation – for a worldwide unique address, identifies the longitude zone number and the latitude band letter.

100,000 Meter (100 Kilometer) Grid Identification for regional areas.

Grid Coordinates – Easting (right) and Northing (up) position.
USNG 6° x 8°
Grid Zone Designators
(20 Bands 60 Zones)
USNG 6° x 8°
Grid Zone Designators
Great Lakes Area
USNG 100 km Grid ID’s
Great Lakes Area
USNG 100 km Grid ID’s
USNG 100 km Grid ID’s And 10 km Grid
More Digits - More Accuracy

<table>
<thead>
<tr>
<th>Digits</th>
<th>Accuracy</th>
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<tbody>
<tr>
<td>95785 25142</td>
<td>Locates within 1 meter</td>
</tr>
<tr>
<td>9578 2514</td>
<td>Locates within 10 meters</td>
</tr>
<tr>
<td>957 251</td>
<td>Locates within 100 meters</td>
</tr>
<tr>
<td>95 25</td>
<td>Locates within 1000 meters</td>
</tr>
</tbody>
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Sign identifies a 1000 meter square within a 100 km grid
16T FS 95785 25142
4657 W Industrial Park Drive
Kincheloe, MI 49788
Currently Three Counties Participate in System

Chippewa County Snowmobile Trail Emergency Locator Signs

Mackinac County Snowmobile Trail Emergency Locator Signs Map Book

Luce County Snowmobile Trail Emergency Locator Sign Map Book
Products Supplied to Emergency Service Organizations

• Map books

• Trail and sign data for Maptech’s Terrain Navigator software

• Published data and maps for ESRI’s ArcReader application

• Sign data as Custom POI files for Garmin GPS units

• Sign data in gpx format for other GPS and mapping applications

• 911 Dispatch Center CAD terminal data
ArcReader Application
Garmin’s Custom POI Data

- Waypoints
- Geocache
- Cities
- Exits
- Recent Find
- All POI

Custom Points of Interest

<table>
<thead>
<tr>
<th>POI Code</th>
<th>Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>FS 9950</td>
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<td></td>
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<tr>
<td>GS 0247</td>
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<td>FS 9444</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GS 0140</td>
<td></td>
<td></td>
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</tbody>
</table>

- Nearest Containing...
- Change Reference

Map Pointer
- 16T FS 95782
- 203°
- 25 143
- 17.16°

- FS 9526
- FS 9626

- FS 9525
  - Tim McKee
  - Chippewa County Central Dispatch
  - 906-495-7488

From Current Location
- 203°
- 17.14°

- Save
- Map
- Go To

mapsoure
Projects Under Development

- Hiking trails
- ORV trails
- Emergency asset inventory
No Boundaries Maps and Graphics, Inc.

614 Washington Way
Sault Ste. Marie, MI 49783
906-635-5451 www.nbmaps.com

Chippewa County Emergency Management
Office of Emergency Services
Central Dispatch
4657 W. Industrial Park Dr.
Kincheloe, MI 49788
906-495-7488

DIAL 9-1-1 FOR FIRE POLICE MEDICAL