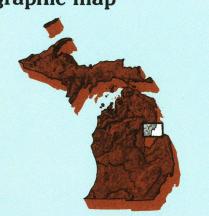


Tawas City MICHIGAN

1:100 000-scale *metric* topographic map



44083-A1-IM-100

30 X 60 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other
- manmade structures
- Water features
- Woodland areas
- Geographic names



GEOLOGICAL SURVEY

Produced by the United States Geological Survey

Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1959-1976. Planimetry revised from aerial photographs taken 1982 and other source data. Revised information not field checked. Map edited 1984

Projection and 10 000-meter grid, zone 17, Universal Transverse Mercator 25 000-foot grid ticks based on Michigan coordinate

system, central and south zones 1927 North American Datum To place on the predicted North American Datum 1983, move the projection lines 1 meter north and 5 meters west

CONTOUR INTERVAL 10 METERS SUPPLEMENTARY CONTOUR INTERVAL 5 METERS

6 7 8 98 MILS 1°45′ 31 MILS To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

UTM grid convergence (GN) and 1994 magnetic declination (MN) at center of map Diagram is approximate



## Topographic Map Symbols

Primary highway, hard surface..... Secondary highway, hard surface...... Light duty road, principal street, hard or improved surface .... Other road or street; trail..... Route marker: Interstate; U.S.; State ... Railroad: standard gage; narrow gage.... Bridge; overpass; underpass..... Tunnel: road; railroad..... County boundary..... National or State reservation boundary Land grant boundary.... Cemetery; building..... Windmill; water well; spring..... Mine shaft; adit or cave; mine, quarry; gravel pit..... ▼ ≻ 🛠 🗡 Campground; picnic area; U.S. location monument ..... Ruins; cliff dwelling...... Distorted surface: strip mine, lava; sand ...... Contours: index; intermediate; supplementary..... Bathymetric contours: index; intermediate... Stream, lake: perennial; intermittent ...... Rapids, large and small; falls, large and small....... Area to be submerged; marsh, swamp......

A pamphlet describing topographic maps is available on request

FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092