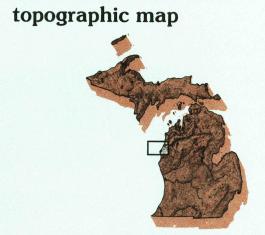
44086-A1-TM-1(

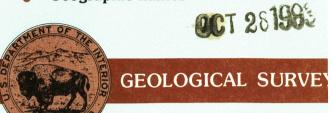
Manistee MICHIGAN-WISCONSIN

1:100 000-scale *metric*



30 X 60 MINUTE QUADRANGLE SHOWING

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



Produced by the United States Geological Survey Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1957-1983. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1983 Projection and 10 000-meter grid, zone 16,

Universal Transverse Mercator 25 000-foot grid ticks based on Michigan coordinate system, central zone 1927 North American Datum To place on the predicted North American Datum 1983 move the projection lines 3 meters north and 3 meters east There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS NATIONAL GEODETIC VERTICAL DATUM OF 1929 ELEVATIONS SHOWN TO THE NEAREST METER

To convert meters to feet multiply by 3.2808

To convert feet to meters multiply by 0.3048

To convert feet to meters multiply by 0.3048

UTM grid convergence (GN) and 1983 magnetic declination (MN) at center of map Diagram is approximate

4

Cadillac

7

Ludington

8

Big Rapids

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U.S. GEOLOGICAL SURVEY RESTON, VIRGINIA 22092

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... Tunnel: road; railroad...... Built up area; locality; elevation Airport; landing field; landing strip...... National boundary..... State boundary..... County boundary..... Land grant boundary...... Windmill; water well; spring...... Mine shaft; adit or cave; mine, quarry; gravel pit...... \blacksquare \succ \Leftrightarrow 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....... Land subject to controlled inundation; woodland

RETURN TO:

RETURN TO:

USGS MMD HISTORICAL MAP ARCHIVES A pamphlet describing topographic maps is available on request

Orchard; vineyard