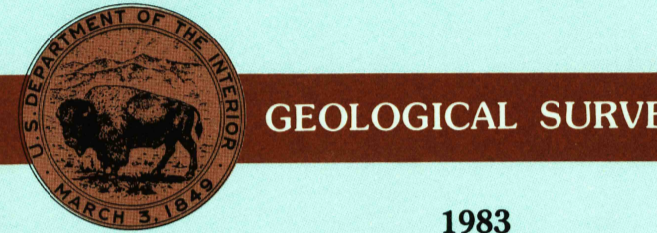




30 X 60 MINUTE QUADRANGLE SHOWING

- 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 1956-1969. 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 1 meter north and 2 meters west  
 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

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	Magnetic	True	1	2	3
1	3.2808	41°	41°	1	2	3
2	6.5617	40°	40°	4	5	
3	9.8425	39°	39°	6	7	8
4	13.1234	38°	38°			
5	16.4042	37°	37°			
6	19.6850	36°	36°			
7	22.9659	35°	35°			
8	26.2467	34°	34°			
9	29.5275	33°	33°			
10	32.8084	32°	32°			

UTM grid convergence (0N and 180° magnetic declination) Diagram is approximate

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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
- Built up area; locality; elevation
- Airport: landing field; landing strip
- National boundary
- State boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U.S. public lands survey: range, township; section
- Range, township; section line: protracted
- Power transmission line; pipeline
- Dam; dam with lock
- Cemetery; building
- Wells: 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
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Drains; vineyard

A pamphlet describing topographic maps is available on request  
 RETURN TO:  
 USGS AND HISTORICAL MAP ARCHIVES

