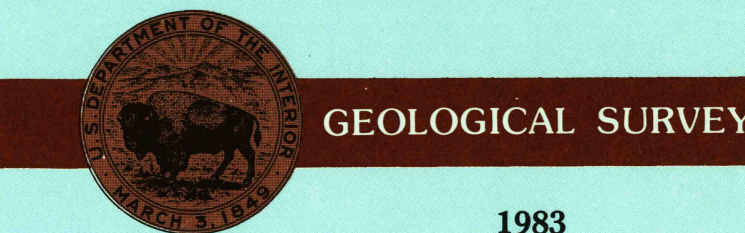


- Elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey  
 Compiled from USGS 1:24 000-scale topographic maps dated 1945-1980. Planimetry revised from aerial photographs taken and other source data. Revised information not field checked 1980. Map edited 1983.  
 Projection and 10 000-meter grid, zone 16: Universal Transverse Mercator. 25 000-foot grid ticks based on Michigan coordinate system, south zone and Indiana coordinate system, east and west zones. 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 1 meter north and 2 meters east.  
 There may be private inholdings within the boundaries of the National or State reservations shown on this map.

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		1	2	3
1	3.2808	1983		1	2	3
2	6.5617	1983		4	5	6
3	9.8425	1983		7	8	
4	13.1234	1983				
5	16.4042	1983				
6	19.6850	1983				
7	22.9659	1983				
8	26.2467	1983				
9	29.5275	1983				
10	32.8084	1983				

To convert meters to feet multiply by 3.2808  
 To convert feet to meters multiply by 0.3048

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

1	2	3
4	5	6
7	8	9

1 Washburn  
 2 Benton Harbor  
 3 Kalamazoo  
 4 Chicago  
 5 Elkhart  
 6 Kankakee  
 7 Rome  
 8 Fort Wayne

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

Topographic Map Symbols

- Primary highway, hard surface
- Secondary highway, hard surface
- Light duty road, gravel 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: building, alteration
- Airport: landing field, landing strip
- National boundary
- County boundary
- National or State reservation boundary
- Land grant boundary
- U.S. public lands survey: range, township, section
- Range, township, section line: protected
- Power transmission line: pipeline
- Dam: dam with lock
- Cemetery: building
- Windmill, water well, spring
- Mine shaft: adit or cave, mine, quarry, pit
- Campground: picnic area, U.S. location monument
- Ruin: cliff dwelling
- Distorted surface: strip mine, levee, 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
- Orchard; mangrove
- Orchard; vineyard

