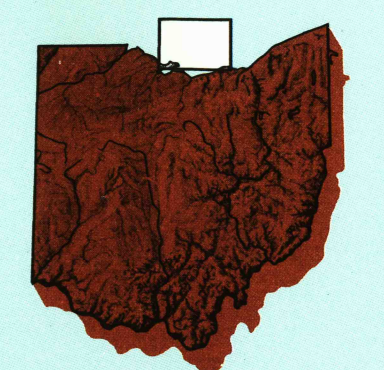


Put-In-Bay OHIO-ONTARIO

1:100 000-scale metric topographic map



30 X 60 MINUTE QUADRANGLE SHOWING

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



U. S. GEOLOGICAL SURVEY

1986 PHOTOINSPECTED 1988

Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1969-1980. Planimetry revised from aerial photographs taken 1983 and other source data. Revised information not field checked. Map edited 1986
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1927 North American Datum (NAD 27). Projection and 10 000-meter grid; Universal Transverse Mercator, zone 17
 25 000-foot ticks: Ohio coordinate system, north zone
 The difference between NAD 27 and North American Datum of 1983 (NAD 83) is too small to show at this scale. The values of the shift between the datums for 7.5-minute intersections are given in USGS Bulletin 1875

There may be private inholdings within the boundaries of the National or State reservations shown on this map
 No major culture or drainage changes found

The U.S. portion of this map photoinspected using 1988 photographs
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 ELEVATIONS SHOWN TO THE NEAREST METER

THE U.S. PORTION OF THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	1983	1984	1	2	3
1	3.2808	5'	5'	1	2	3
2	6.5617	10'	10'	4	5	
3	9.8425	15'	15'	6	7	8
4	13.1234	20'	20'			
5	16.4042	25'	25'			
6	19.6850	30'	30'			
7	22.9659	35'	35'			
8	26.2467	40'	40'			
9	29.5275	45'	45'			
10	32.8084	50'	50'			

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 (MN) at center of map
 Diagram is approximate

1 Detroit
 2 Lake-St. Clair South
 3 Toledo
 4 Toledo
 5 Cleveland North
 6 Findlay
 7 Lorain
 8 Cleveland South

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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
- Civil township 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
- Well; water well; spring
- Mine shaft; adit or cave; mine, quarry, gravel pit
- Campground; picnic area; U.S. location monument
- Ruins; cliff dwelling
- Disturbed 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
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request
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