



Ashland
WISCONSIN-MICHIGAN

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

GEOLOGICAL SURVEY

1989

Produced by the United States Geological Survey
Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1956-1975. Planimetry revised from aerial photographs taken 1983-84 and other source data. Revised information not field checked. Map edited 1989.
Projection and 10 000-meter grid, zone 15, Universal Transverse Mercator
25 000-foot grid ticks based on Wisconsin coordinate system, north zone and Michigan coordinate system, north zone, 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 6 meters north and 11 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

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS			
Meters	Feet		1	2	3	
1	3.2808		4			
2	6.5617		1	2	3	
3	9.8425		4	5		
4	13.1234		6	7	8	
5	16.4042		1	Two Harbors		
6	19.6850		2	Outer Island		
7	22.9659		4	Port Wing		
8	26.2467		5	Ontonagon		
9	29.5276		6	Solon Springs		
10	32.8084		7	Ironwood		
To convert meters to feet multiply by 3.2808		UTM grid convergence (IGN) and 1989 magnetic declination (MN) at center of map. Diagram is approximate.				
To convert feet to meters multiply by 0.3048						

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Topographic Map Symbols

Primary highway, hard surface.....	
Secondary highway, hard surface.....	
Light duty road, proposed street, hard or improved surface.....	
Other road or street; trail.....	
Route marker: Interstate, U.S., State.....	
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.....	
Windmill; water well; spring.....	
Mine shaft; adit or cave; mine; quarry; gravel pit.....	
Campground; picnic area; U.S. location monument.....	
Ruin; cliff dwelling.....	
Historical 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.....	
Orchard; vineyard.....	

A pamphlet describing topographic maps is available on request

ASHLAND, WISCONSIN-MICHIGAN
46090-E1-TM-100
1989

SET
NON-CIRCULATING

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