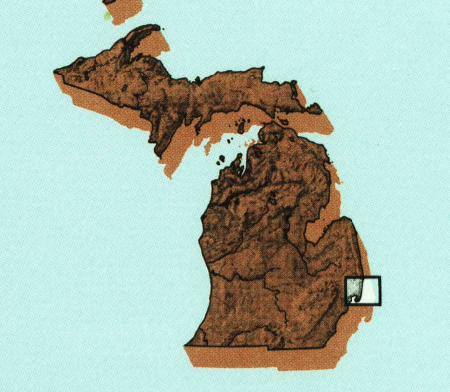


CROSWELL, MICHIGAN

30 X 60 MINUTE SERIES (PLANIMETRIC)

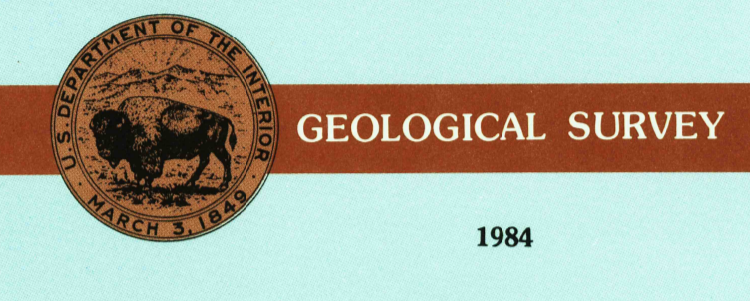
Croswell MICHIGAN

1:100 000-scale planimetric map



30 X 60 MINUTE QUADRANGLE SHOWING

- 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 1961-1976. Planimetry revised from aerial photographs taken 1982 and other source data. Revised information not field checked. Map edited 1984.
 Projection and 10 000-meter grid, zone 17, Universal Transverse Mercator
 25 000-foot grid ticks based on Michigan coordinate system, south zone
 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 9 meters west
 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	Meters	Feet	1	2	3
1	3.2808	10'	3.05	1	2	3
2	6.5617	15'	4.57	4	5	
3	9.8425	20'	6.10	6	7	8
4	13.1234	25'	7.62			
5	16.4043	30'	9.14			
6	19.6852	35'	10.67			
7	22.9661	40'	12.20			
8	26.2470	45'	13.73			
9	29.5279	50'	15.25			
10	32.8088	55'	16.78			

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

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

1 Bay City
 2 Harbor Beach
 3 Flint
 4
 5
 6 Pontiac
 7 Lake St Clair North
 8

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 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
- Bridge: overpass, underpass
- Tunnel: road, railroad
- Built up area: quality, 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
- Orchard; vineyard

A pamphlet describing topographic maps is available on request