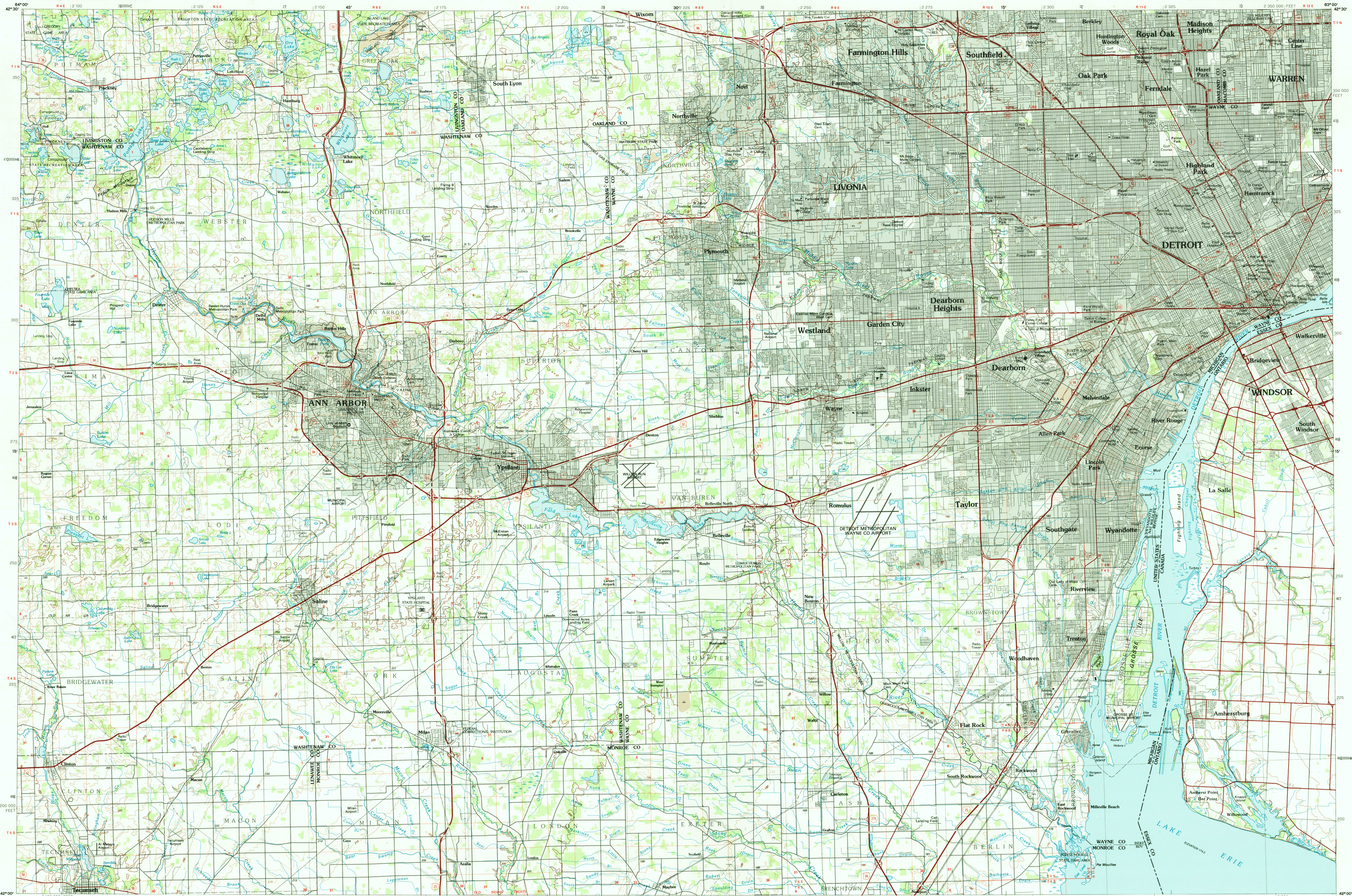


DETROIT, MICHIGAN-ONTARIO



30 X 60 MINUTE SERIES (TOPOGRAPHIC)

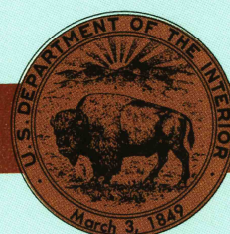
DETROIT
MICHIGAN-ONTARIO

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



GEOLOGICAL SURVEY

1989

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1964-1981. Planimetry revised from aerial photographs taken 1983 and other source data. Revised information not field checked. Canadian portion copied from Department of Energy, Mines, and Resources 1:50 000-scale topographic maps dated 1986. Map edited 1989.

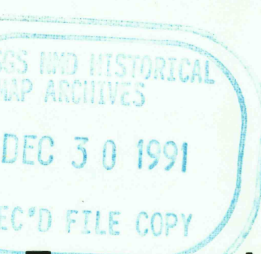
Projection and 10 000-meter grid, zone 17, Universal Transverse Mercator
25 000-foot grid ticks based on Michigan coordinate system, south zone
1927 North American Datum
To place on the predicted North American datum 1983, move the projection lines 6 meters west
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS
SUPPLEMENTARY CONTOUR INTERVAL 5 METERS IN U. S.
AUXILIARY CONTOUR INTERVAL 5 METERS IN CANADA
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	MAGNETIC		1	2	3
1	3.2808			4	5	
2	6.5617					
3	9.8425					
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5276					
10	32.8084					
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1983 magnetic declination (MD) at center of map. Diagram is approximate.		1 Lansing		
To convert feet to meters multiply by 0.3048				2 Pontiac		
				3 Lake St. Clair North		
				4 Jackson		
				5 Lake St. Clair South		
				6 Macon		
				7 Toledo		
				8 Port Huron		

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, principal street, hard or improved surface.....	
Other road or street; trail.....	
Route marker: Interstate; U.S.; State.....	
Railroad: standard gauge; narrow gauge.....	
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: protected.....	
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.....	
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

DETROIT, MICHIGAN-ONTARIO

42083-A1-TM-100

1989