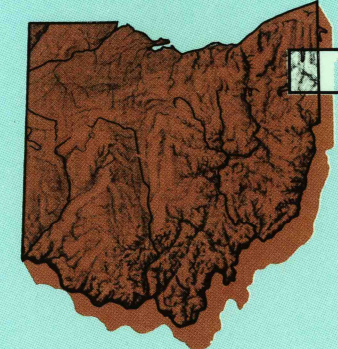


YOUNGSTOWN, OHIO-PENNSYLVANIA

30 X 60 MINUTE SERIES (TOPOGRAPHIC)

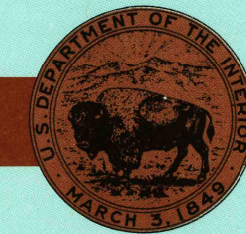
Youngstown
OHIO-PENNSYLVANIA

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

1986

Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1952-1981. Planimetry revised from aerial photographs taken 1962-83 and other source data. Revised information not field checked. Map edited 1986.
Projection and 10 000-meter grid, zone 17, Universal Transverse Mercator
25 000-foot grid ticks based on Ohio coordinate system, north zone and Pennsylvania coordinate system, north and south zones
1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 2 meters south and 17 meters west
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	UTM grid convergence (GN) and true magnetic declination (MN) at center of map Diagram is approximate	7° 14' M 124 MILS 0° 0' T 0 MILS	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				1 Cleveland North 2 Ashland 3 Warren 4 Cleveland South 5 Oil City 6 Canton 7 East Liverpool 8 Indiana		
To convert feet to meters multiply by 0.3048						

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



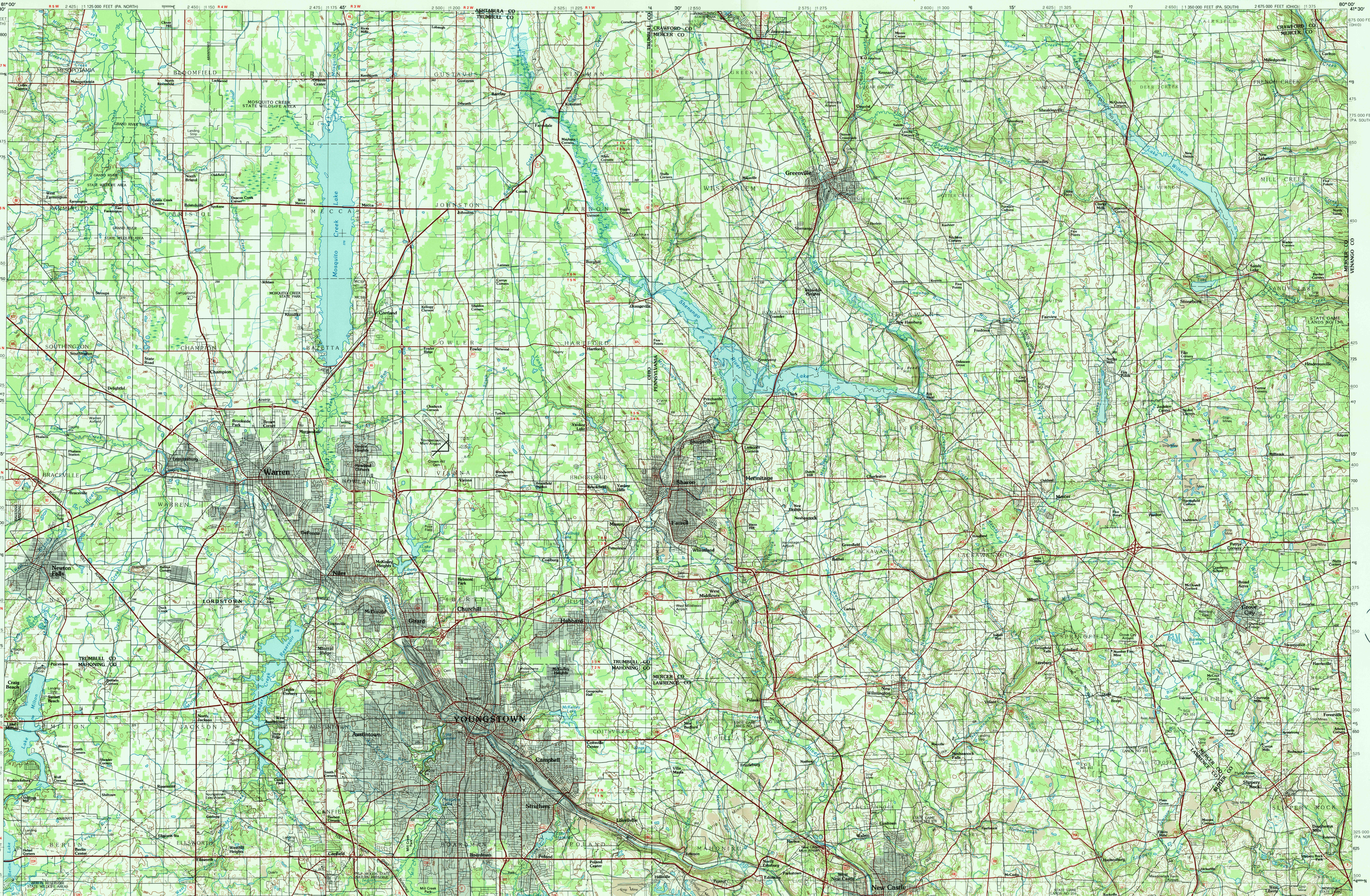
Topographic Map Symbols

- 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 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
- 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
- Runes, cliff dwelling
- Disrupted surface: strip mine, lava, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake, perennial, intermittent
- Rapids, large and small, tide, 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

YOUNGSTOWN, OHIO-PENNSYLVANIA
41080-A1-TM-100

1986



SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND
CONTOUR INTERVAL 10 METERS

INTENSIFIED—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1989