

YOUNGSTOWN, OHIO-PENNSYLVANIA

30 X 60 MINUTE SERIES (TOPOGRAPHIC)

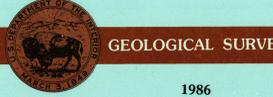
Youngstown OHIO-PENNSYLVANIA

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



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 holdings 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	4	5
1	3.2808	1	2	3		
2	6.5617	2	3	4	5	
3	9.8425	3	4	5	6	7
4	13.1234	4	5	6	7	8
5	16.4043					
6	19.6852					
7	22.9661					
8	26.2470					
9	29.5279					
10	32.8088					

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

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

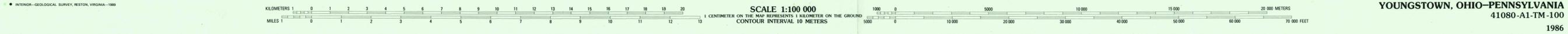
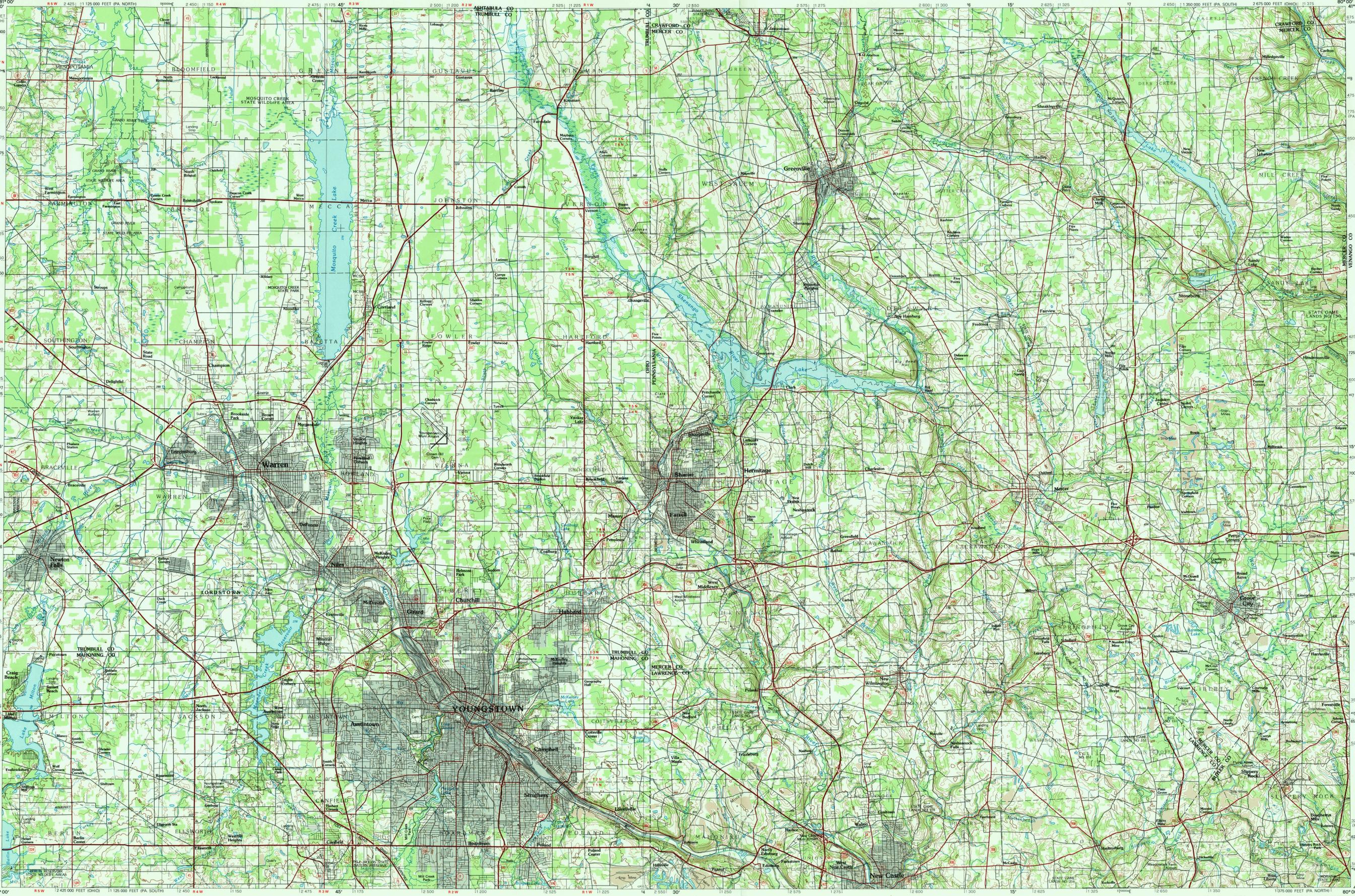
FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092



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: 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
- Road, sign with text
- Cemetery, building
- Disrupted surface: strip mine, levee, sand
- Contours: index, intermediate, supplementary
- Bathymetric contours: index, intermediate
- Stream, lake: perennial, intermittent
- Rapids, ledge and small falls, large and small
- Area to be submerged; marsh, swampland
- Land subject to controlled inundation; woodland
- Scrub; mangrove
- Orchard; vineyard

A pamphlet describing topographic maps is available on request



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