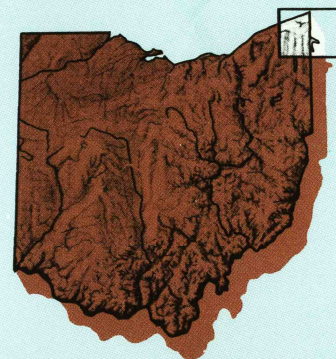


Ashtabula

OHIO-PENNSYLVANIA

1:100 000-scale
planimetric map



**30 X 60 MINUTE QUADRANGLE
SHOWING**

- Elevations in meters
- Highways, roads and other manmade structures
- Water features
-
- Geographic names



GEOLOGICAL SURVEY

1986

Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1959-1979. Geometry revised from aerial photographs taken 1982 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 Pennsylvania coordinate system, north zone and Ohio coordinate system, north zone
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

NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

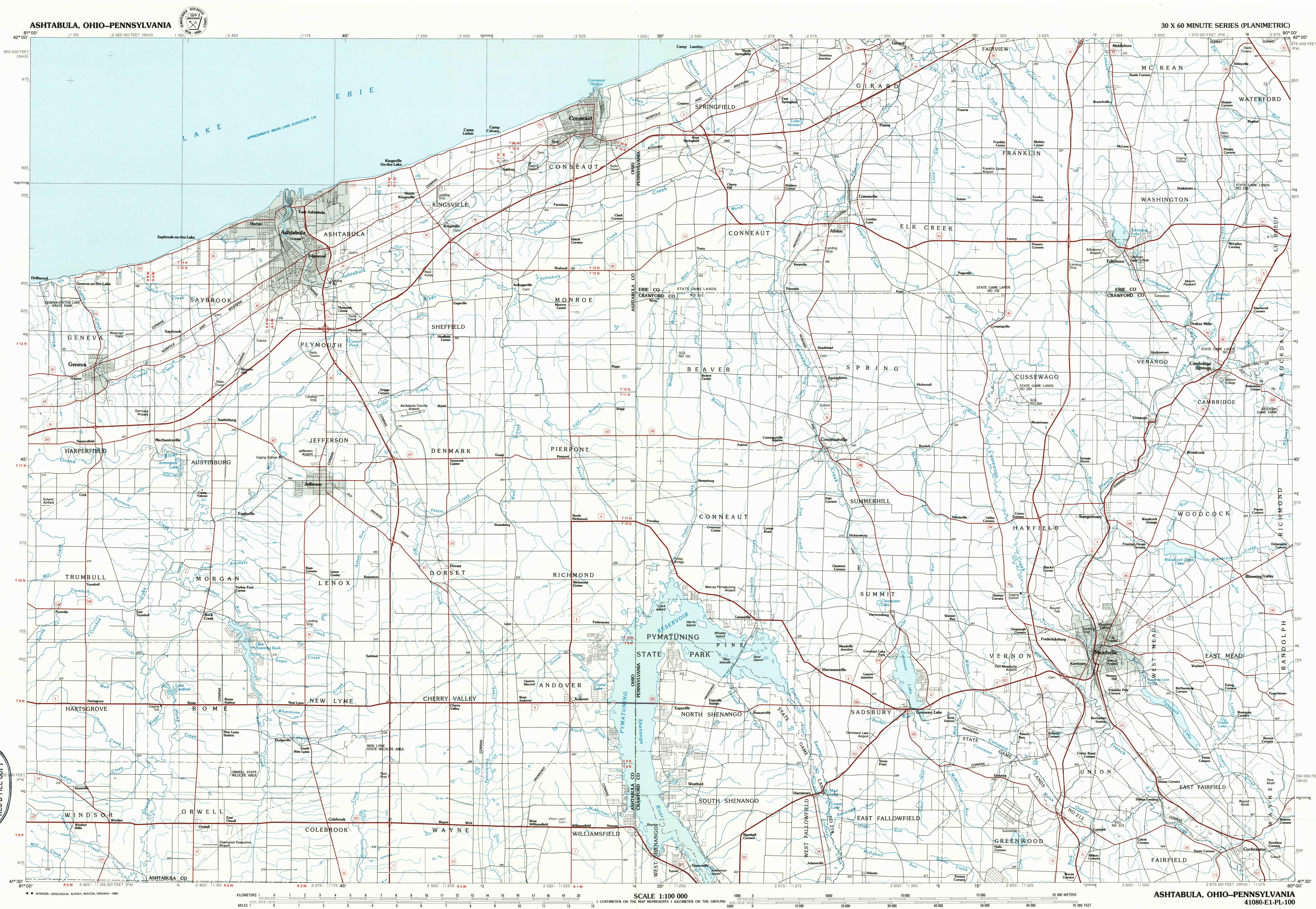
CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS			
Meters	Feet			1	2	3	
1	3.2808	UTM grid convergence (GN) and 386 magnetic declination (MN) at center of map Diagram is approximate		1	2	3	
2	6.5617			3	4	5	
3	9.8425			4	5	6	
4	13.1234			5	6	7	8
5	16.4042						
6	19.6850			1			
7	22.9658			2	Erie		
8	26.2467			3	Jamestown		
9	29.5276			4	Cleveland North		
10	32.8084			5	Warren		
To convert meters to feet multiply by 3.2808				6	Cleveland South		
To convert feet to meters multiply by 0.3048				7	Youngstown		
				8	Oil City		

FOR SALE BY U. S. GEOLOGICAL SURVEY
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
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: protected
Postal transportation line: pipeline
Dam; dam with lock
Cemetery; building
Windmill; water well; spring
Mine shaft; edit or cave; mine, quarry; gravel pit
Cemagrond; picnic area; US: Locality monument
Rains; cliff dwelling
Distorted surface: strip mine; lake, sand
Contours: index; intermediate; supplementary
Bathymetric contours: index; intermediate
Stream, lake: perennial; intermittent
Rapids, large and small; lake and small
Area to be submerged; marsh, swamp
Land covered by or controlled inundation; woodland
Swath; mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request.



SGS NMD HISTORICAL MAP
SEP 12 1986
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ASHTABULA, OHIO-PENNSYLVANIA
41080-E1-PL-100

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