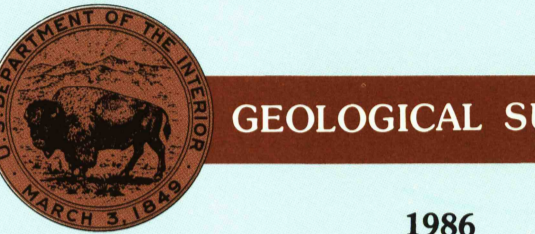


30 X 60 MINUTE QUADRANGLE SHOWING

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



Produced by the United States Geological Survey
 Compiled from USGS 1:24 000-scale topographic maps dated 1958-1978. Planimetry 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 Ohio coordinate system, north zone
 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 3 meters south and 14 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	100' MILES		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	29.5275					
10	32.8084					

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

UTM grid convergence (GS) and 1986 magnetic declination (MD) at center of map
 Diagram is approximate

1	Lorain
2	Cleveland South
3	Youngstown
4	Mansfield
5	East Liverpool
6	Newark
7	Coshocton
8	Pittsburgh West

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 RESTON, VIRGINIA 22092

USGS NHD HISTORICAL MAP
 SEP 12 1986
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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
- Road 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: constructed
- 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

