



East Liverpool

OHIO-PENNSYLVANIA- WEST VIRGINIA

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

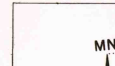
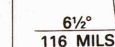
1986

Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps
dated 1953-1979. Planimetry revised from aerial photographs
taken 1982-83 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 Pennsylvania coordinate
system, south zone, Ohio coordinate system, north zone,
and West Virginia 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 17 meters west
There may be private inholdings within the boundaries of
the National or State reservations shown on this map

CONTOUR INTERVAL 20 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					
2	6.5617					
3	9.8425					
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9658					
8	26.2467					
9	29.5275					
10	32.8084					
To convert meters to feet multiply by 3.2808		 UTM grid convergence (UTM and 1983 magnetic declination (MM) at center of map Diagram is approximate		1 Cleveland South		
To convert feet to meters multiply by 0.3048				2 Youngstown		
				3 OH City		
				4 Canton		
				5 Indiana		
				6 Coshocton		
				7 Pittsburgh West		
				8 Pittsburgh East		

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

MAR 23 1989
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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	
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	
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