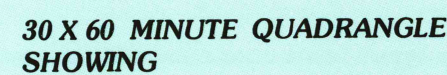


**1:100 000-scale *metric*
topographic map**



- **Contours and elevations in meters**
- **Highways, roads and other manmade structures**
- **Water features**
- **Woodland areas**
- **Geographic names**



1985
PHOTOINSPECTED 1988

Produced by the United States Geological Survey

Compiled from USGS 1:24 000-scale topographic maps dated 1969–1975. Planimetry revised from aerial photographs taken 1982 and other source data. Revised information not field checked. Map edited 1985

Projection and 10 000-meter grid, zone 17: Universal Transverse Mercator
25 000-foot grid ticks based on Pennsylvania coordinate system, north zone

To place on the predicted North American Datum 1983 move the projection lines 1 meter south and 17 meters west

There may be private inholdings within the boundaries of the National or State reservations shown on this map
Land area all in Erie County, Pennsylvania
Map photoinspected 1988

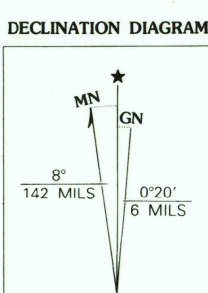
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATION SHOWN TO THE NEAREST METER

USGS NMD HISTORICAL MAP

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
JUN 30 1989

RFC'D FILE COPY

Meters	Feet
1	3.2808
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



ADJOINING MAPS

1	2	3
4		5
6	7	8

1
2
3 Silver Creek

To convert meters to feet
multiply by 3.2808

To convert feet to meters
multiply by 0.3048

UTM grid convergence
(GN) and 1985 magnetic
declination (MN)
at center of map
Diagram is approximate

4
5 Jamestown
6 Cleveland North
7 Ashtabula
8 Warren

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	
Trail, 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	
Well; water well; spring	
Mine shaft; adit or cave, mine, quarry; gravel pit	
Campground; picnic area; U. S. location monitor	
Rain; drift dwelling	
Discoidal surface; strip mine, lake, and	
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	
Swamp, mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request.

