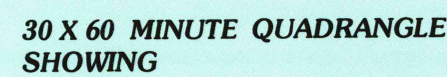


**1:100 000-scale *metric*
topographic map**



- **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

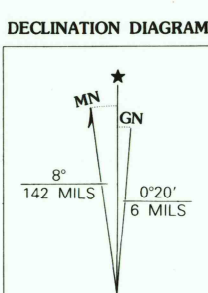
NATIONAL GEODETIC VERTICAL DATUM OF 1929
ELEVATION SHOWN TO THE NEAREST METER

USGS NMD HISTORICAL MAP

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

REC'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
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
Ruts; cliff dwelling
Distorted area: strip mine, lava, sand
Contours: index; intermediate; supplementary
Bathymetric contours: index; intermediate
Stream, lake; perennial; intermittent
Ridge, large and small; hills, 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

