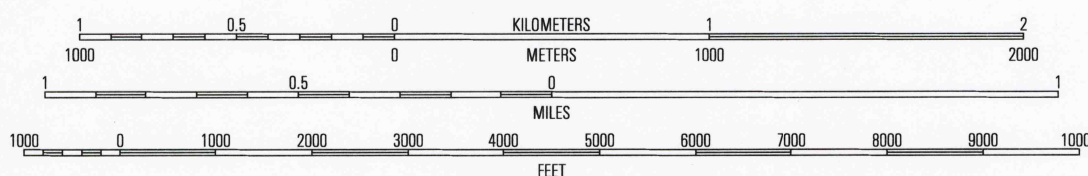


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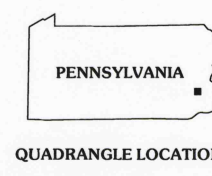
USGS NMD  
HISTORICAL MAP ARCHIVES

Produced by the United States Geological Survey  
in cooperation with Pennsylvania Department of  
Conservation and Natural Resources, Bureau of  
Topographic and Geologic Survey  
Topography compiled 1942. Planimetry derived from imagery  
taken 1999 and other sources. Survey control current as of 1943  
Boundaries current as of 2002  
North American Datum of 1983 (NAD 83). Projection and  
1000-meter grid: Universal Transverse Mercator, zone 18  
2500-meter ticks: Pennsylvania Coordinate System of 1983 (south zone)  
North American Datum of 1927 (NAD 27) is shown by dashed  
corner ticks. The values of the shift between NAD 83 and  
NAD 27 for 7.5-minute intersections are obtainable from  
National Geodetic Survey NADCON software  
There may be private inholdings within the boundaries of the  
National or State reservations shown on this map

12°  
213 MILS  
0° 27'  
8 MILS  
UTM GRID AND 2002 MAGNETIC NORTH  
DECLINATION AT CENTER OF SHEET



SCALE 1:24 000  
CONTOUR INTERVAL 20 FEET  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
(TO CONVERT ELEVATIONS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, SUBTRACT 1 FOOT)  
TO CONVERT FROM FEET TO METERS, MULTIPLY BY 0.3048



QUADRANGLE LOCATION

ROAD CLASSIFICATION  
Primary highway  
hard surface .....  
Secondary highway  
hard surface .....  
Light-duty road, hard or  
improved surface .....  
Unimproved road .....  
Interstate Route  
U.S. Route  
State Route

1	2	3
4	5	6
7	8	

MANATAWNY, PA  
1999

NIMA 5864 1 NW-SERIES V831



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A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

