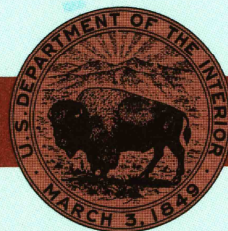


**30 X 60 MINUTE QUADRANGLE  
SHOWING**

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



GEOLOGICAL SURVEY

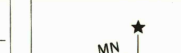
1981

Produced by the United States Geological Survey  
Compiled from USGS 1:24,000-scale topographic maps dated  
1958-1974. Planimetry revised from aerial photographs taken  
1977 and other source data. Revised information not  
field checked. Map edited 1981

Projection and 10 000-meter grid, zone 17: Universal Transverse Mercator  
25 000-foot grid ticks based on Pennsylvania coordinate system south zone; Maryland coordinate system, and West Virginia coordinate system, north zone  
1927 North American Datum  
To place on the predicted North American Datum 1983 move the projection lines 6 meters south and 22 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
1	3.2808			3	4
2	6.5617			5	6
3	9.8425			7	8
4	13.1234				
5	16.4042				
6	19.6850				
7	22.9659				
8	26.2467				
9	29.5276				
10	32.8084				
To convert meters to feet multiply by 3.2808		UTM grid convergence GTM and TMS magnetic declination (NM) at center of map Diagram is approximate		<p>1 Pittsburgh East</p> <p>2 Johnston</p> <p>3 Carlisle</p> <p>4 Morgantown</p> <p>5 Hagerstown</p> <p>6 Kingwood</p> <p>7 Winchester</p> <p>8 Frederick</p>	
To convert feet to meters multiply by .3048					

FOR SALE BY U. S. GEOLOGICAL SURVEY  
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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,  
Federal, standard gauge, narrow gauge  
Bridge, overpass; underpass  
Tunnel; road, railroad  
Built up area; locality; elevation  
Airport; landing field; landing strip  
Country 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: projected  
Power transmission line; pipeline  
Dam, dam with lock  
Cemetery; building  
Windmill; water wall; spring  
Mine shaft; adit or ave; mine, quarry; gravel pit  
Marsh; bog; point area; U. S. location monument  
Marsh; bog; point area; U. S. location monument  
Contoured surface; strip mine, lake, sand  
Dissected surface; index, intermediate; supplementary  
Stream; lake; perennial; intermittent  
Bathymetric contours; index, intermediate  
Swell line; perennial; intermittent  
Rapids, large 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.

 $0 \leq x \leq 100\%$ 

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