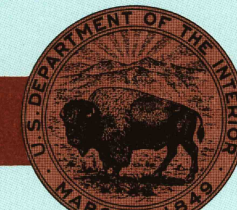


30 X 60 MINUTE QUADRANGLE  
SHOWING

- 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 1958-1979. Planimetry revised from aerial photographs taken 1976, 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 Virginia coordinate system, south zone, and the West Virginia coordinate system, south zone  
1927 North American Datum  
To place on the predicted North American Datum 1983 move the projection lines 8 meters south and 14 meters west  
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVALS 50 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATION SHOWN TO THE NEAREST METERS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet			1	2	3
1	3.2808			4	5	
2	6.5617			6	7	8
3	9.8425			1	2	3
4	13.1234			4	5	6
5	16.4042			7	8	9
6	19.6850			1	2	3
7	22.9659			4	5	6
8	26.2467			7	8	9
9	29.5275			1	2	3
10	32.8084			4	5	6
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1983 magnetic declination (M) at center of map		7	8	9
To convert feet to meters multiply by 0.3048		Declination is approximate		1	2	3

FOR SALE BY U. S. GEOLOGICAL SURVEY  
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 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: projected	
Power transmission line; pipeline	
Dam; dam with foot	
Cemetery; building	
Windmill; water well; spring	
Mine shaft; adit or cave; mine, quarry; gravel pit	
Campground; picnic area; U. S. location monument	
Rail; off-doubling	
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

