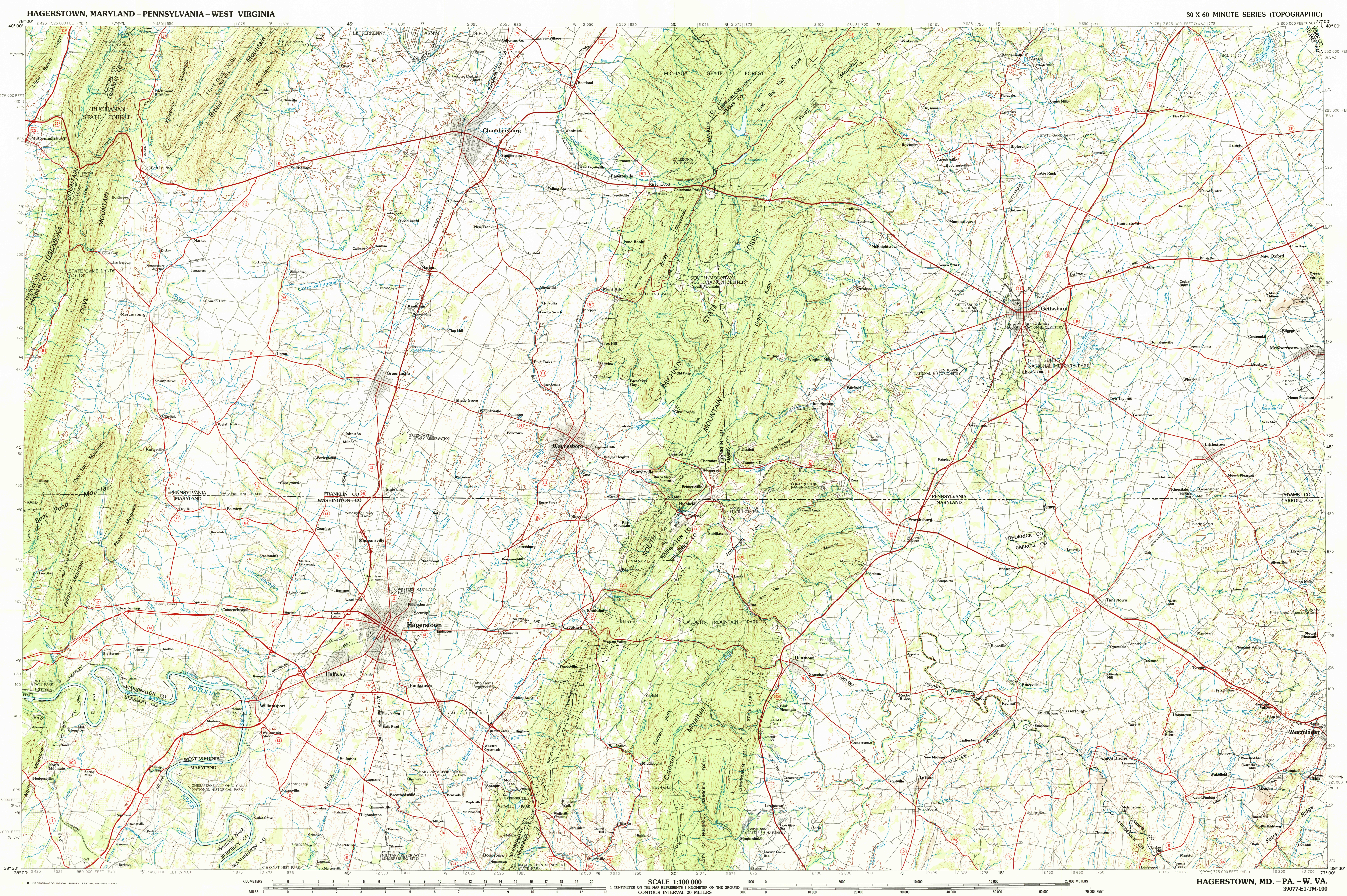




Hagerstown

MARYLAND PENNSYLVANIA WEST VIRGINIA

1:100 000-scale metric
topographic map

30 X 60 MINUTE QUADRANGLE
SHOWING

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

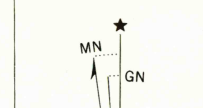
GEOLOGICAL SURVEY

1983

Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1943-1979. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1983.
Projection and 10 000-meter grid, zone 18 Universal Transverse Mercator. 25 000-foot grid ticks based on Pennsylvania coordinate system, south zone; Maryland coordinate system, north zone 1927 North American Datum. To place on the predicted North American Datum 1983 move the projection lines 7 meters south and 25 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 METRE

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS																		
Meters	Feet		1	2	3																
1	3.2808		1	2	3																
2	6.5617		4	5																	
3	9.8425																				
4	13.1234																				
5	16.4042																				
6	19.6850																				
7	22.9659																				
8	26.2467																				
9	29.5275																				
10	32.8084																				
To convert meters to feet multiply by 3.2808		UTM grid convergence (6N) and 180 magnetic declination (MN) at center of map. Diagram is approximate.	<table><tr><td>1</td><td>Johnstown</td></tr><tr><td>2</td><td>Carlisle</td></tr><tr><td>3</td><td>Harrisburg</td></tr><tr><td>4</td><td>Cumberland</td></tr><tr><td>5</td><td>York</td></tr><tr><td>6</td><td>Windsor</td></tr><tr><td>7</td><td>Frederick</td></tr><tr><td>8</td><td>Baltimore</td></tr></table>			1	Johnstown	2	Carlisle	3	Harrisburg	4	Cumberland	5	York	6	Windsor	7	Frederick	8	Baltimore
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7	Frederick																				
8	Baltimore																				
To convert feet to meters multiply by 0.3048																					

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 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	
Ruins; cliff dwelling	
Disturbed 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	