

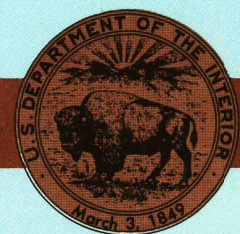
Carlisle
PENNSYLVANIA

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

1984
PHOTOINSPECTED 1983 AND 1985

Produced by the United States Geological Survey
Compiled from USGS 1:24 000-scale topographic maps dated 1971-1979. Planimetry revised from aerial photographs taken 1976-1980 and other source data. Revised information not field checked. Map edited 1984.
Projection and 10 000-meter grid, zone 18: Universal Transverse Mercator. 25 000-foot grid ticks based on Pennsylvania coordinate system, south zone. 1927 North American Datum
To place on the predicted North American Datum 1983 move the projection lines 6 meters south and 25 meters west.
There may be private inholdings within the boundaries of the National or State reservations shown on this map.

Map photoinspected using 1983 and 1985 photographs
No major culture or drainage changes found

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	3																
1	3.2808		1	2	3																
2	6.5617		4	5																	
3	9.8425																				
4	13.1234		6	7	8																
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 (G) and 1984 magnetic declination (M) at center of map Diagram is approximate	<table><tr><td>1</td><td>Tyrone</td></tr><tr><td>2</td><td>State College</td></tr><tr><td>3</td><td>Scranton</td></tr><tr><td>4</td><td>Johnstown</td></tr><tr><td>5</td><td>Harrisburg</td></tr><tr><td>6</td><td>Cumtongue</td></tr><tr><td>7</td><td>Hagerstown</td></tr><tr><td>8</td><td>York</td></tr></table>			1	Tyrone	2	State College	3	Scranton	4	Johnstown	5	Harrisburg	6	Cumtongue	7	Hagerstown	8	York
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7	Hagerstown																				
8	York																				
To convert feet to meters multiply by 0.3048																					

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	
Pump, township, section line: protruded	
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, old dwelling	
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
USGS MND HISTORICAL MAP

JUN 29 1989

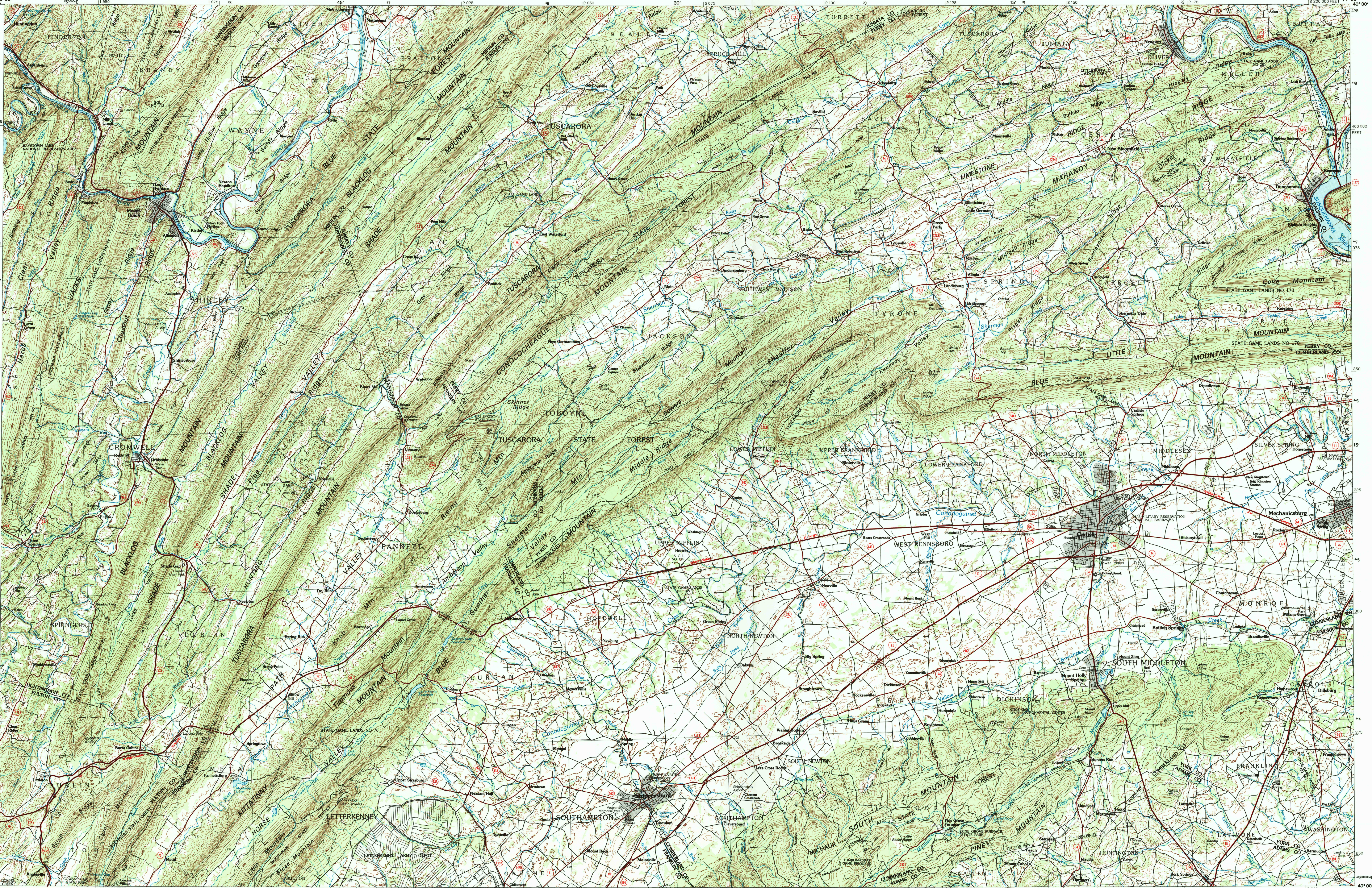
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CARLISLE, PENNSYLVANIA

40077-A1-TM-100

1984

PHOTOINSPECTED 1983 AND 1985



• INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1989

KILOMETERS 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

SCALE 1:100 000
1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 20 METERS

0 5000 10000 15000 20000 25000 30000 35000 40000 45000 50000 55000 60000 65000 70000 FEET