



Lowell

MASSACHUSETTS-NEW HAMPSHIRE

1:25 000-scale metric topographic map

7.5 X 15 MINUTE QUADRANGLE SHOWING

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

GEOLOGICAL SURVEY

1987

Produced by the United States Geological Survey in cooperation with Massachusetts Department of Public Works
Control by USGS, NOS/NOAA, and Commonwealth of Massachusetts agencies
Compiled by photogrammetric methods from aerial photographs taken 1961. Field checked 1983. Map edited 1987
This area also covered by 7.5-minute 1:24,000-scale maps: Nashua South 1965 and Lowell 1966
Projection and 1000-meter grid, zone 19
Universal Transverse Mercator
10,000-foot grid ticks based on Massachusetts coordinate system, mainland zone, and New Hampshire coordinate system
1927 North American Datum
To place on the predicted North American Datum 1983, move the projection lines 6 meters south and 40 meters west as shown by dashed corner ticks
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL: 3 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929
CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	Diagram		1	2	3
1	3.2808			4	5	
2	6.5616					
3	9.8424					
4	13.1232					
5	16.4040					
6	19.6848					
7	22.9656					
8	26.2464					
9	29.5272					
10	32.8080					

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048
UTM grid convergence (GN) and 1983 magnetic declination at center of map
Diagram is approximate

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Topographic Map Symbols

Primary highway, hard surface	Secondary highway, hard surface	Light-duty road, hard or improved surface	Unimproved road, trail	Road marker: Interstate, U.S. State	Railroad: standard gauge; narrow gauge	Bridge: drawbridge	Footbridge; overpass; underpass	Build-up area: only selected landmark buildings shown	Houses: barn; church; school; large structure	Boundary:	National, with monument	State	County, parish	Civil township, precinct, district	Incorporated city, village, town	National or State reservation, small park	Land grant with monument; found section corner	U.S. public lands survey: range, township; section	Range, township; section line: location approximate	Fence or field line	Power transmission line, isolated tower	Dam; dam with lock	Cemetery; grave	Campground; picnic area; U.S. location monument	Widened; water well, spring	Mine shaft; prospect; adit or cave	Control: horizontal station; vertical station; spot elevation	Contours: index; intermediate; supplementary; depression	Distorted surface: strip mine, lava, sand	Bathymetric contours: index; intermediate	Perennial lake and stream; intermittent lake and stream	Rapids, large and small; falls, large and small	Swamp; marsh	Submerged marsh; land subject to controlled inundation	Woodland; scattered trees	Sand; mangrove	Orchard; vineyard
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USGS AND HISTORICAL MAP INFORMATION describing topographic maps is available on request
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