



Townsend
**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
1988

Produced by the United States Geological Survey
Control by USGS, NOS/NOA, Commonwealth of Massachusetts agencies, and by New Hampshire Department of Transportation
Compiled by photogrammetric methods from aerial photographs taken 1980-81. Field checked 1983. Map edited 1988
This area also covered by 7.5-minute 1:25,000-scale maps: Townsend and Pepperell dated 1965
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

CONTOUR 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

CONVERSION TABLE

Meters	Fath
1	0.54
2	1.08
3	1.64
4	2.19
5	2.74
6	3.28
7	3.84
8	4.37
9	4.92
10	5.47

UTM grid convergence (GM) at center of map
Declination (MM) at center of map
Diagram is approximate

DECLINATION DIAGRAM

ADJOINING MAPS

1	2	3
4	5	6
7	8	9

1. Groton (7.5')
2A. Merrimack (7.5')
3. South Merrimack (7.5')
4. Andover (7.5')
5. Lowell (7.5')
6. Fitchburg (7.5')
7. Haverhill (7.5')
8. Andover (7.5')

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DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

Topographic Map Symbols

Primary highway, hard surface
Secondary highway, hard surface
Light-duty road, hard or improved surface
Unimproved road, trail
Route marker: interstate, U. S., State
Railroad: standard gage, narrow gage
Bridge: drawbridge
Footbridge: overpass, underpass
Built-up area: only selected landmark buildings shown
House, 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, located tower
Dam, dam with lock
Cemetery, grave
Campground, picnic area; U. S. location monument
Windmill; water well; spring
Mine shaft, prospect, adit or ore
Control: horizontal station; vertical station; spot elevation
Contours: index; intermediate; supplementary; depression
Distorted surface: strip mine, lava, sand
Soundings: depth curve
Perennial lake and stream; intermittent lake and stream
Rapid, large and small; falls, large and small
Swamp; marsh
Saltmarsh; marsh; land subject to controlled subsidence
Woodland, scattered trees
Scrub; mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request