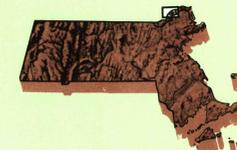


Haverhill

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



Produced by the United States Geological Survey in cooperation with Massachusetts Department of Public Works. Control by USGS, NOS/NOAA, Commonwealth of Massachusetts agencies, and State of New Hampshire agencies. Compiled by photogrammetric methods from aerial photographs taken 1978. Field checked 1979. Map edited 1987. This area covered by 7 contours, 1:24 000-scale maps: Salem Depot 1968 and Haverhill 1972. Selected hydrographic data compiled from NOS chart 13274 (1982). This information is not intended for navigational purposes. Projection and 1000-meter grid, zone 19. Universal Transverse Mercator. 10 000-foot grid ticks based on Massachusetts coordinate system, modified 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 41 meters west as shown by dashed corner ticks. There may be private labelings within the boundaries of the National or State reservations shown on this map.

CONTOUR INTERVAL 3 METERS
NATIONAL GEODETIC DATUM OF 1929
CONTOUR ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.5 METER
SCALINGS IN METERS
DATUM IS MEAN LOW WATER
RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

THIS MAP COMPLETS WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM		ADJOINING MAPS		
Meters	Feet	MAGNETIC		1	2	3
1	3.2808	1987		1	2	3
2	6.5617	1977		4	5	6
3	9.8425	1967		7	8	
4	13.1234	1957				
5	16.4042	1947				
6	19.6851	1937				
7	22.9659	1927				
8	26.2468	1917				
9	29.5276	1907				
10	32.8085	1897				

To convert meters to feet multiply by 3.2808
To convert feet to meters multiply by 0.3048

UTM grid convergence (GM) and 1977 magnetic declination (MD) 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
- 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
 - Canals; grave
 - Campground; picnic area; U. S. location monument
 - Windmill; water well; spring
 - Mine shaft; prospect; adit or cave
 - Control: national station; vertical datum; spot elevation
 - Contours: index; intermediate; supplementary; depression
 - Distorted surface: strip mine, lava, sand
 - Sounding: depth curve
 - Perennial lake and stream; intermittent lake and stream
 - Rapids; ledge and small falls; large and small
 - Submerged marsh; marsh, swamp
 - Land subject to controlled inundation; woodland
 - Scrub; mangrove
 - Orchard; vineyard

A pamphlet describing topographic maps is available on request

