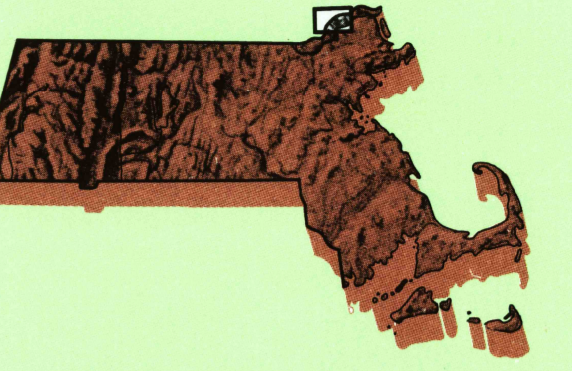


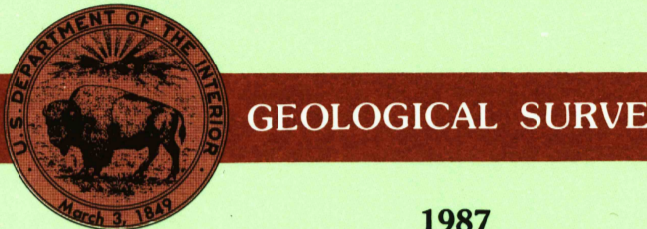
# Haverhill

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 7.5-minute series 1:25 000-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  
 Universal Transverse Mercator  
 10 000-foot grid ticks based on Massachusetts coordinate system, installed 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 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  
 SOUNDINGS IN METERS  
 DATUM IS MEAN LOW WATER  
 THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE  
 SHOULDERLINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

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	5
1	3.2808			4	4	4	8
2	6.5617			6	7	8	
3	9.8425			1	2	3	
4	13.1234			5	6	7	
5	16.4042			9	10	11	
6	19.6851			13	14	15	
7	22.9659			17	18	19	
8	26.2468			21	22	23	
9	29.5276			25	26	27	
10	32.8084			29	30	31	

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

UTM grid convergence (GM) at center of map is approximately 1.2308 meters (1.2308 m) at center of map  
 Diagram is approximate

1 Manchester South  
 2 Kingston  
 3 Eastern  
 4 Nashua  
 5 Newburyport  
 6 Lowell  
 7 Lawrence  
 8 Ipswich



### 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 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
  - Cemetery; grave
  - Campground; picnic area; U.S. location monument
  - Windmill; water well; spring
  - Mine shaft; prospect; adit or cave
  - Control: horizontal station; vertical station; spot elevation
  - Contour: index; intermediate; supplementary; depression
  - Distorted surface: strip mine, lava, sand
  - Sounding; depth curve
  - Perennial lake and stream; intermittent lake and stream
  - Rapid; large 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

