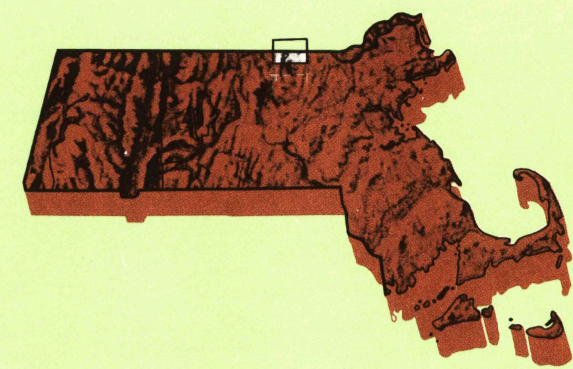
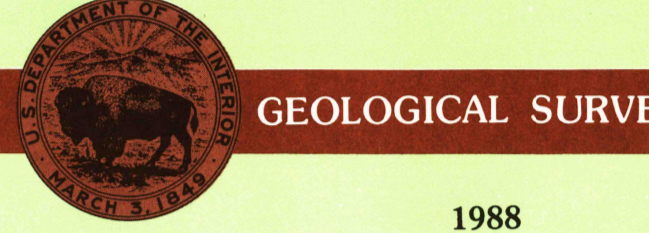


Townsend
MASSACHUSETTS-NEW HAMPSHIRE
 1:25 000-scale metric
 topographic map



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/NOAA, 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

Meters	Feet
1	3.28084
2	6.56167
3	9.84251
4	13.12334
5	16.40417
6	19.68500
7	22.96584
8	26.24667
9	29.52750
10	32.80834

To convert meters to feet multiply by 3.28084
 To convert feet to meters multiply by 0.3048

UTM grid convergence (CM) at 1988 magnetic declination (MM) at center of map
 Diagram is approximate

ADJOINING MAPS		
1	2	3
4	5	6
7	8	9
10	11	12

1 Groton (7.5')
 2A Pepperell (7.5')
 3 South Merrimack (7.5')
 4 Ashburnham (7.5')
 5 Fishburg
 6 Avon
 8 Billerica

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, 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	
City, town, village, incorporated	
National or State reservation: small park	
Land grant with monument: round 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	
Comground, picnic area; U. S. location monument	
Wellhead; water well; spring	
Mine shaft, prospect, adit or drift	
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	
Rapids, large and small; falls, large and small	
Swamp; marsh	
Submerged marsh; land subject to occasional inundation	
Woodland, scattered trees	
Shrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request

