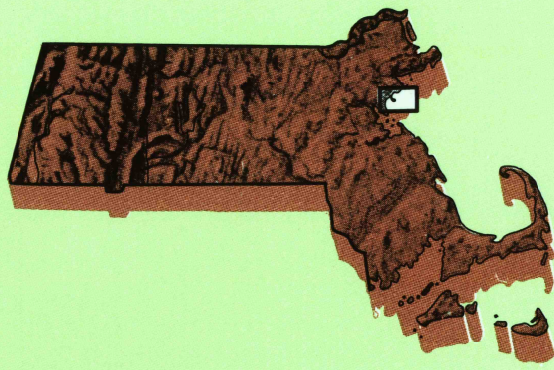




- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey
Derived from imagery taken 1978 and other sources. Photosinspected using imagery taken 1997; no major culture or drainage changes observed. Survey control current as of 1979
Boundaries revised 1998
North American Datum of 1927 (NAD 27). Projection and 1000-meter grid. Universal Transverse Mercator, zone 19
10 000-foot ticks: Massachusetts coordinate system, mainland zone
North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software
Selected hydrographic data compiled from NOS charts, 13270, 13271 (1982), 13275, and 13276 (1981). This information is not intended for navigational purposes
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
DEPTH CURVES AND SOUNDINGS IN METERS
DATUM IS MEAN LOWER LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
THE MEAN RANGE OF TIDE IS APPROXIMATELY 2.7 METERS

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS		
Meters	Feet		1	2	3
1	3.2808		1	2	3
2	6.5617		4	5	
3	9.8425		6	7	8
4	13.1234				
5	16.4042				
6	19.6850				
7	22.9659				
8	26.2467				
9	29.5275				
10	32.8084				
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1983 magnetic declination (MD) at center of map Diagram is approximate	1	Reading	
To convert feet to meters multiply by 0.3048			2	Salem	
			3	Gloucester	
			4	Boston North	
			5	Boston South	
			6	Boston South	
			7	Hull	
			8		

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USGS NMD
HISTORICAL MAP ARCHIVES

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	.....	.....
Build-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; land 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; pit 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	.....	.....
Submerged marsh; marsh, swamp	.....	.....
Land subject to controlled inundation; woodland	.....	.....
Scrub; mangrove	.....	.....
Orchard; vineyard		

A pamphlet describing topographic maps is available on request

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