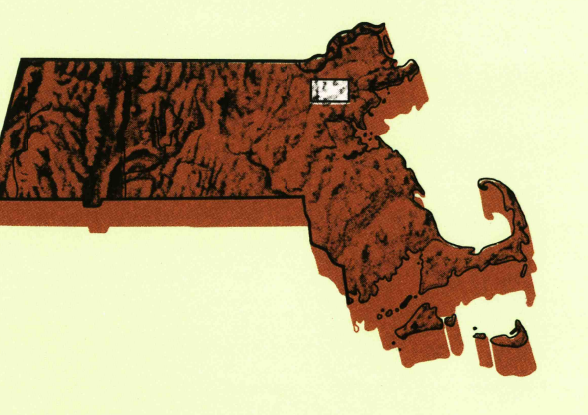


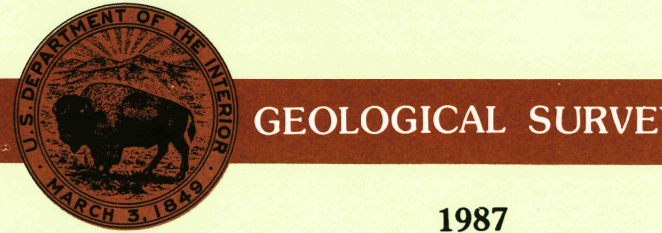
# Reading MASSACHUSETTS

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, and Aeronautical Chart and Information Center  
 Compiled by photogrammetric methods from aerial photographs taken 1978. Field checked 1979. Map edited 1987. Supersedes Wilmington 1965 and Reading 1966 1:24,000-scale maps  
 Projection and 1000-meter grid, zone 19 Universal Transverse Mercator  
 10,000-foot grid ticks based on Massachusetts coordinate system, mainland zone. 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

THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS

Meters	Feet
1	3.2808
2	6.5617
3	9.8425
4	13.1232
5	16.4040
6	19.6848
7	22.9656
8	26.2464
9	29.5272
10	32.8080

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

ADJOINING MAPS	1	2	3
1 Lowell			
2 Lawrence			
3 Ipswich			
4 Billerica			
5 Salem			
6 Maynard			
7 Boston North			
8 Lynn			

DECLINATION DIAGRAM  
 16° 12' 30" W  
 17° 30' 00" W  
 284 MILS  
 35 MILS

LTM grid convergency (GN) and 1987 magnetic declination (MD) at center of map. Diagram is approximate.

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 gage, narrow gage
- Bridge: drawbridge, fixed
- Footbridge, culvert, 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; 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; Wellhead; water well; spring; Mine shaft; prospect; adit or cave; Control: horizontal station; vertical station; spot elevation; Contours: index, intermediate; supplementary; depression; Disrupted 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; Swamp; marsh; Submerged mark; land subject to controlled inundation; Woodland; scattered trees; Scrub; mangrove; Orchard; vineyard

A pamphlet describing topographic maps is available on request

