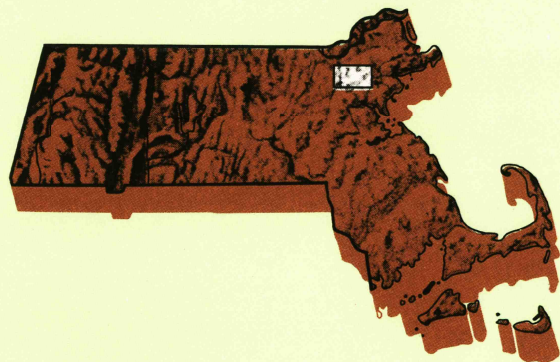


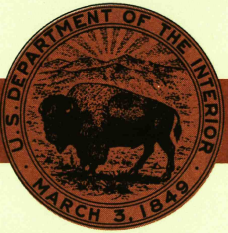
Reading
MASSACHUSETTS

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



GEOLOGICAL SURVEY

1987

Produced by the United States Geological Survey
in cooperation with Massachusetts Department
of Public Works

Control by USGS, NOS/NOAA, and Commonwealth of
Massachusetts agencies

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 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					
4	13.1234					
5	16.4042					
6	19.6850					
7	22.9659					
8	26.2467					
9	29.5276					
10	32.8084					
To convert meters to feet multiply by 3.2808		UTM grid convergence (GN) and 1987 magnetic declination (MN) at center of map Diagram is approximate	1 Lowell	2 Lawrence	3 Ipswich	
To convert feet to meters multiply by 0.3048			4 Billerica	5 Salem	6 Maynard	
			7 Boston North	8 Lynn		

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	
Footbridge; overpass; underpass	
Build-up area: only selected landmark buildings shown	
Houses; 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	
Power transmission line, isolated 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 marsh; land subject to controlled inundation	
Woodland; scattered trees	
Scrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request

