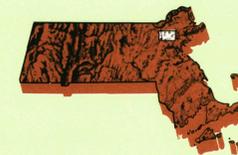


# Reading MASSACHUSETTS

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



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

CONTOUR 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

| CONVERSION TABLE |         | DECLINATION DIAGRAM |  | ADJOINING MAPS |   |   |
|------------------|---------|---------------------|--|----------------|---|---|
| Meters           | Feet    | MAGNETIC            |  | 1              | 2 | 3 |
| 1                | 3.2808  | 10°                 |  | 4              | 5 |   |
| 2                | 6.5616  | 1°                  |  | 6              | 7 | 8 |
| 3                | 9.8424  | 2°                  |  |                |   |   |
| 4                | 13.1232 | 3°                  |  |                |   |   |
| 5                | 16.4040 | 4°                  |  |                |   |   |
| 6                | 19.6848 | 5°                  |  |                |   |   |
| 7                | 22.9656 | 6°                  |  |                |   |   |
| 8                | 26.2464 | 7°                  |  |                |   |   |
| 9                | 29.5272 | 8°                  |  |                |   |   |
| 10               | 32.8080 | 9°                  |  |                |   |   |

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

UTM grid convergence (1987 magnetic declination (MAG)) at center of map  
Diagram is approximate



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### Topographic Map Symbols

|                               |                                 |   |                        |                                      |  |                    |                                 |  |  |                                   |       |                |                                    |                                  |   |  |  |   |                     |  |                    |                 |   |                              |                                    |   |  |  |   |   |  |              |  |                           |               |                   |
|-------------------------------|---------------------------------|---|------------------------|--------------------------------------|--|--------------------|---------------------------------|--|--|-----------------------------------|-------|----------------|------------------------------------|----------------------------------|---|--|--|---|---------------------|--|--------------------|-----------------|---|------------------------------|------------------------------------|---|--|--|---|---|--|--------------|--|---------------------------|---------------|-------------------|
| Primary highway, hard surface | Secondary highway, hard surface | Light-duty road, hard or improved surface | Unimproved road, trail | Road marker: Interstate, U.S., State | Railroad: standard gauge; narrow gauge | Bridge: drawbridge | Footbridge; overpass; underpass | Bath-up area: only selected landmarks, 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; basic 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 | Contours: index; intermediate; supplementary; depression | Distorted surface: strip; mine, lava; sand | Bathymetric contours: index; intermediate | Parabolic lake and stream; intermittent lake and stream | Rapid, large and small; falls, large and small | Swamp; marsh | Submerged marsh; land subject to controlled inundation | Woodland; scattered trees | Scrub; meadow | Orchard; vineyard |
|-------------------------------|---------------------------------|---|------------------------|--------------------------------------|--|--------------------|---------------------------------|--|--|-----------------------------------|-------|----------------|------------------------------------|----------------------------------|---|--|--|---|---------------------|--|--------------------|-----------------|---|------------------------------|------------------------------------|---|--|--|---|---|--|--------------|--|---------------------------|---------------|-------------------|



A pamphlet describing topographic maps is available on request

FOR SALE BY U.S. GEOLOGICAL SURVEY DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092