



# Orange 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**

1990

Produced by the United States Geological Survey  
 Control by USGS, NOS/NOAA, and Commonwealth of Massachusetts agencies  
 Compiled by photogrammetric methods from aerial photographs taken 1991. Field checked 1984. Map edited 1990.  
 Supersedes Orange and Millers Falls 1:25,000-scale maps dated 1977  
 Projection and 1000-meter grid, zone 18  
 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 5 meters south and 38 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 6 METERS**  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929  
 CONTROL ELEVATIONS SHOWN TO THE NEAREST 0.1 METER  
 OTHER ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

| CONVERSION TABLE |         | DECLINATION DIAGRAM |    | ADJOINING MAPS |   |   |
|------------------|---------|---------------------|----|----------------|---|---|
| Meters           | Feet    | GN                  | MN | 1              | 2 | 3 |
| 1                | 3.2808  |                     |    | 4              | 7 | 8 |
| 2                | 6.5617  |                     |    | 1              | 2 | 3 |
| 3                | 9.8425  |                     |    | 4              | 5 | 6 |
| 4                | 13.1234 |                     |    | 1              | 2 | 3 |
| 5                | 16.4042 |                     |    | 4              | 5 | 6 |
| 6                | 19.6850 |                     |    | 1              | 2 | 3 |
| 7                | 22.9658 |                     |    | 4              | 5 | 6 |
| 8                | 26.2467 |                     |    | 1              | 2 | 3 |
| 9                | 29.5275 |                     |    | 4              | 5 | 6 |
| 10               | 32.8084 |                     |    | 1              | 2 | 3 |

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

UTM grid convergence (GN) and 1983 magnetic declination (MN) at center of map. Declination 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 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; found section corner                |  |
| U.S. public lands survey: range, township, section            |  |
| Range, township, section line: location approximate           |  |
| Face 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      |  |
| Distoral surface: stric, ice, sea, sand                       |  |
| Sounding; depth curve   |  |
| Parential lake and stream; intermittent lake and stream       |  |
| Rapids; large and small; falls, large and small               |  |
| Sandy marsh   |  |
| Submerged marsh; land subject to controlled inundation        |  |
| Woodland; scattered trees                                     |  |
| Scrub; mangrove   |  |
| Orchard; vineyard   |  |

A pamphlet describing topographic maps is available on request