



# Barre

## 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**

1988

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 1980. Field checked 1981. Map edited 1988  
Supersedes Barre and Petersham 1:25,000-scale maps dated 1969  
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 39 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	
Meters	Feet
1	3.2808
2	6.5617
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  
To convert feet to meters multiply by 0.3048

DECLINATION DIAGRAM	
15°	150°
267 MILS	34 MILS

UTM grid convergence (GTM) and magnetic declination (MDM) at center of map  
Diagram is approximate

ADJOINING MAPS		
1	2	3
4	5	6
7	8	

1 Orange  
2 Ash  
3 Fitchburg  
4 Shutebury  
5 Sterling  
6 Windsor  
7 North Brookfield  
8 Worcester North

USGS AND HISTORICAL MAP ARCHIVES

FEB 1996

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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 .....  
Route marker: Interstate, U. S., State .....  
Railroad: standard gage, narrow gage .....  
Bridge: trestlebridge .....  
Footbridge, overpass, underpass .....  
Built-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 .....  
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 .....  
Perennial lake and stream; intermittent lake and stream .....  
Rapids, large and small; hills, large and small .....  
Swamp, marsh .....  
Submerged marsh; land subject to controlled sandbar .....  
Woodland: scattered trees .....  
Scrub; mangrove .....  
Orchard; vineyard .....

A pamphlet describing topographic maps is available on request