



7.5 X 15 MINUTE QUADRANGLE SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



RECEIVED JUN 3 0 1999 GEOLOGICAL SURVEY

Produced by the United States Geological Survey
 Derived from imagery taken 1980 and other sources. Uninspected using imagery dated 1997; no major culture or drainage changes observed. Survey control current as of 1993.
 Boundaries, other than corporate, revised 1998.
 North American Datum of 1927 (NAD 27). Projection and 1000-meter grid. Universal Transverse Mercator, zone 19. 10 000-foot ticks: Massachusetts coordinate system, mainland zone.
 North American Datum of 1983 (NAD 83) is shown by dashed corner ticks. The values of the shift between NAD 27 and NAD 83 for 7.5-minute intersections are obtainable from National Geodetic Survey NADCON software.
 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
 OTHER 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	1910	1985	1	2	3	4
1	3.2808	15' 10"	11' 58"	1	2	3	4
2	6.5617	15' 10"	11' 58"	5	6	7	8
3	9.8425	15' 10"	11' 58"				
4	13.1234	15' 10"	11' 58"				
5	16.4042	15' 10"	11' 58"				
6	19.6850	15' 10"	11' 58"				
7	22.9659	15' 10"	11' 58"				
8	26.2467	15' 10"	11' 58"				
9	29.5275	15' 10"	11' 58"				
10	32.8084	15' 10"	11' 58"				

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

UTM grid convergence (GN and 1993 magnetic declination) at center of map. Diagram is approximate.

1 Fitchburg
 2 Ayer
 3 Billerica
 4 Sterling
 5 Maynard
 6 Worcester North
 7 Marlborough
 8 Framingham



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
- Bathic area: city selected landmark buildings above
- 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; Bound 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; Distorted surface: 870, mine, lava, sand; Sounding, depth curve; Parental 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

