

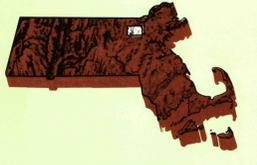
BILLERICA, MASSACHUSETTS MIDDLESEX COUNTY

7.5 X 15 MINUTE SERIES (TOPOGRAPHIC)



Billerica
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 1961. Field checked 1982. Map edited 1987.
 Supersedes Westford 1966 and Billerica 1965 1:24,000-scale maps
 Projection and 1000-meter grid, zone 19
 Universal Transverse Mercator
 10,000-foot grid ticks based on Massachusetts datum system, mainland zone. 1927 North American Datum
 To place on the predicted North American Datum 1983, now 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	MAGNETIC		1	2	3
1	3.2808	1987		4	5	
2	6.5616	1984		6	7	8
3	9.8424	1981				
4	13.1232	1978				
5	16.4040	1975				
6	19.6848	1972				
7	22.9656	1969				
8	26.2464	1966				
9	29.5272	1963				
10	32.8080	1960				

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

UTM grid convergence (GN) and 1987 magnetic declination (MD) are given 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	.....
Route marker: Interstate; U. S. State	.....
Railroad: standard gage; narrow gage	.....
Bridge: drawbridge	.....
Fence: overpass; underpass	.....
Built-up area: only selected landmark buildings shown	.....
Houses; barn; church; school; large structure	.....
Boundary:	.....
Neatwork 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	.....
Canal; waterway	.....
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	.....
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
 RETURN TO:
 USGS AND HISTORICAL MAP ARCHIVES