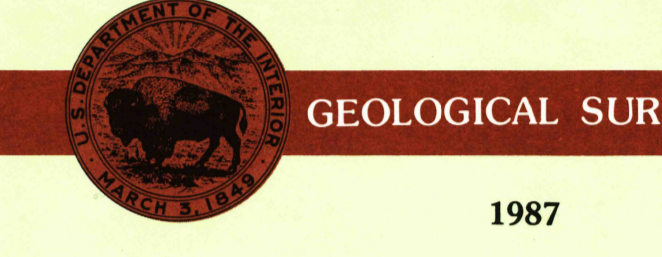


**7.5 X 15 MINUTE QUADRANGLE**  
SHOWING

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



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 1987  
Supersedes 1:25,000-scale maps of Blandford dated 1972  
and Woronoco dated 1967

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  
37 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	Magnetic Declination		1	2	3
1	3.2808	141' 17"		1	2	3
2	6.5617	171'		4	5	
3	9.8425	171'		6	7	8
4	13.1234	171'		1 East Lee		
5	16.4042	171'		2 Chester		
6	19.6850	171'		3 Easthampton		
7	22.9658	171'		4 Otis		
8	26.2467	171'		5 Springfield North		
9	29.5275	171'		6 Tolland Center		
10	32.8084	171'		7 Southwick		
		171'		8 Springfield South		

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

UTM grid convergence (GMA) and 1987 declination (M) at center of map  
Diagram is approximate

FOR SALE BY U. S. GEOLOGICAL SURVEY  
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APR 13 1988  
**REG. 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 gauge, narrow gauge
- Bridge: drawbridge
- Footbridge; overpass; underpass
- Build-up area: city; railroad; landmark; building; stream
- 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
- Dam; dam with lock
- Power transmission line, located tower
- Cemetery; grave
- Campground; picnic area; U. S. location monument
- Well; 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
- Paralleled 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

