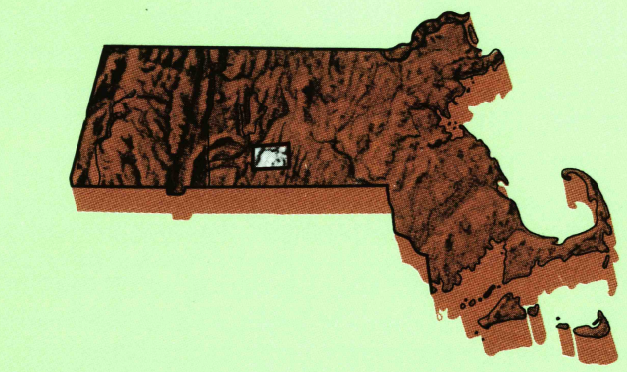




Warren

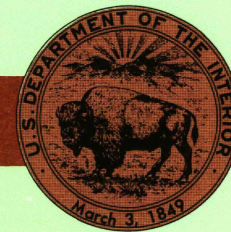
MASSACHUSETTS

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

1982

Produced by the United States Geological Survey in cooperation with Massachusetts Department of Public Works.
Control by USGS, NOS/NOAA, and Massachusetts Geodetic Survey.
Compiled by photogrammetric methods from aerial photographs taken 1980. Field checked 1981. Map edited 1982.
Supersedes Warren and East Brookfield 1:25,000-scale maps dated 1969.

Projection and 1000-meter grid, zone 19: 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 6 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

FOR SALE BY U.S. GEOLOGICAL SURVEY
DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092

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

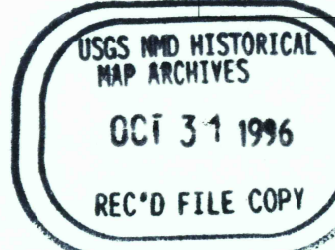
The diagram shows two vertical lines representing north. The left line is labeled 'MN' (Magnetic North) and the right line is labeled 'TN' (True North). An arc between the two lines is labeled '156''. Below the lines, the distances are given: '267 MILS' for the MN line and '116 MILS' for the TN line.

UTM grid convergence (GN) and 1982 magnetic declination (MN) at center of map. Diagram is approximate.

ADJOINING MAPS

1	2	3
4	5	
6	7	8

1 Winsor Dam
2 North Brookfield
3 Worcester North
4 Ludlow
5 Worcester South
6 Milman
7 Southbridge
8 Webster



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	
Build-up area: only selected landmark buildings shown	
House; barn; church; school; large structure	
Boundary:	
National, with monument	
County, parish	
Civil township, precinct, district	
Incorporated city, village, town	
National or State reservation; small park	
Land grant with monument; land section corner	
U. S. public lands survey; range, township, section	
Range, township; section line; location approximate	
Fence or field line	
Power transmission line, isolated tower	
Dam; dam with lock	
Cemetery; grave	
Campground; picnic area; U. S. location monument	
Windmill; water well; spring; head section corner	
Mine shaft; prospect; salt or cave	
Control: horizontal station; vertical station; spot elevation	
Contours: index; intermediate; supplementary; depression	
Disturbed surface: strip mine; lava sand	
Bathymetric contours; index; intermediate	
Perennial lake and stream; intermittent lake and stream	
Rapids, large and small; falls, large and small	
Submerged marsh; marsh, swamp	
Land subject to controlled inundation; woodland	
Scrub; mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request

WARREN, MASS.
42072-B1-TM-025

1982