42072-B1-TM-025

Warren

MASSACHUSETTS



7.5 X 15 MINUTE QUADRANGLE SHOWING

- Contours and elevations
- 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 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

CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS		
Meters	Feet	*	1	2	3
1	3.2808	MN GN	4		5
2	6.5617	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	•		
3	9.8425			_	
4	13.1234	15°	6	7	8
5	16.4042	267 MILS \ 1°56′			
6	19.6850	34 MILS			
7	22.9659	\ 54 N.1E5			
8	26.2467		1 U	insor Dan	
9	29.5276			orth Brool	
10	32.8084	\		Jorcester N	
To convert meters to feet multiply by 3.2808 To convert feet to meters multiply by 0.3048		UTM grid convergence (GN) and 1982 magnetic declination (MN) at center of map Diagram is approximate	4 Ludlow 5 Worcester South 6 Monson 7 Southbridge 8 Webster		

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Topographic Map Symbols

Secondary highway, hard surface
ight-duty road, hard or improved surface
Jnimproved road; trail
Route marker: Interstate; U. S.; State
Railroad: standard gage; narrow gage
Bridge; drawbridge
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 [] [<u>Cem</u>] +
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; falls, large and small
Submerged marsh; marsh, swamp
land subject to controlled inundation: woodland

RETURN TO:
USGS NMD HISTORICAL MAP ARCHIVES