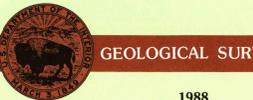


7.5 X 15 MINUTE QUADRANGLE SHOWING

- 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 1980-81. Field checked 1983. Map edited 1988
 This area also covered by 7.5-minute, 1:25,000-scale maps: Royalston and Winchendon dated 1971
 Projection and 1000-meter grid, zone 18 Universal Transverse Mercator
 10,000-foot grid ticks based on Massachusetts coordinate system, mainland zone, and New Hampshire coordinate system 1927 North American Datum
 To place on the predicted North American Datum 1983, move the projection lines 5 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	MAGNETIC		1	2	3
1	3.2808	↓		1	2	3
2	6.5617	↓		4	5	
3	9.8425	↓		6	7	8
4	13.1234	↓				
5	16.4042	↓				
6	19.6850	↓				
7	22.9659	↓				
8	26.2467	↓				
9	29.5275	↓				
10	32.8084	↓				

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

UTM grid convergence (N) and 1983 magnetic declination (M) at center of map
 Diagram is approximate

1 Winchendon
 2 Monack Mountain
 3 Greenfield
 4 Northfield
 5 Ashburnham
 6 Orange
 7 Alford
 8 Fitchburg

FOR SALE BY U. S. GEOLOGICAL SURVEY
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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 gauge; narrow gauge
- Bridge: drawbridge
- Footbridge: overpass; underpass
- Bulk-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; aerial tower
- Dam; dam with lock
- Canterbury; grave
- Campground; picnic area; U. S. location monument
- Wildlife water well; spring
- Mine shaft; prospect; shaft or cave
- Control: horizontal station; vertical station; spot elevation
- Contours: index; intermediate; supplementary; depression
- Distorted surface: strip mine, lava, sand
- Bathymetric contour: index; intermediate
- Perennial lake and stream; intermittent lake and stream
- Rapids, large and small; falls, large and small
- Swamp; marsh
- Salvaged 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 RMD HISTORICAL MAP ARCHIVES

11-21-88

