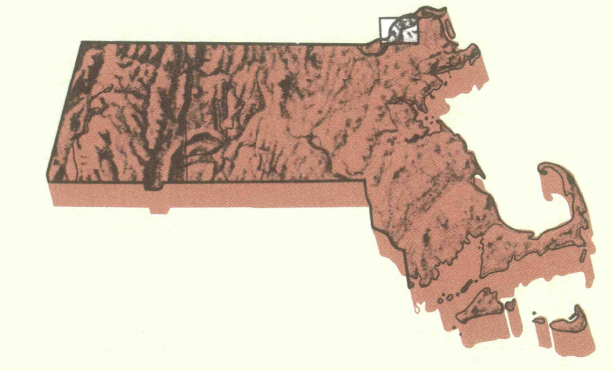


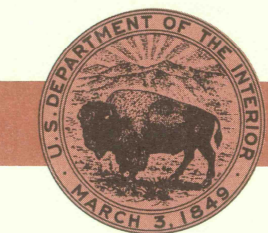
Lowell

MASSACHUSETTS-NEW HAMPSHIRE
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

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 1981. Field checked 1983. Map edited 1987.
 This area also covered by 7.5-minute 1:24,000-scale maps: Nashua South 1965 and Lowell 1966
 Projection and 1000-meter grid, zone 19 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 6 meters south and 40 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
 CONTOUR 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	4
1	3.2808	1	2	3	4
2	6.5617	5	6	7	8
4	13.1234	9	10	11	12
6	19.6851	13	14	15	16
8	26.2469	17	18	19	20
10	32.8086	21	22	23	24

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

UTM grid convergence (1983) and magnetic declination (1983) Diagram is approximate

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

Topographic Map Symbols

Primary highway, hard surface	Light-duty road, hard or improved surface	Unimproved road, trail	Railroad, standard gage, narrow gage	Bridge, drawbridge	Footbridge, overpass, underpass	Built-up area: only selected landmark buildings shown	House, farm, 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, land 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	Campground, picnic area; U. S. location monument	Wellhead, water well, spring	Man-made structure: sill or dam	Control: horizontal station, vertical station, spot elevation	Contours: index, intermediate, supplementary, depression	Draped 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	Swamp, marsh	Submerged marsh; land subject to controlled inundation	Woodland; scattered trees	Scrub; mangrove	Orchard; vineyard
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A pamphlet describing topographic maps is available on request

