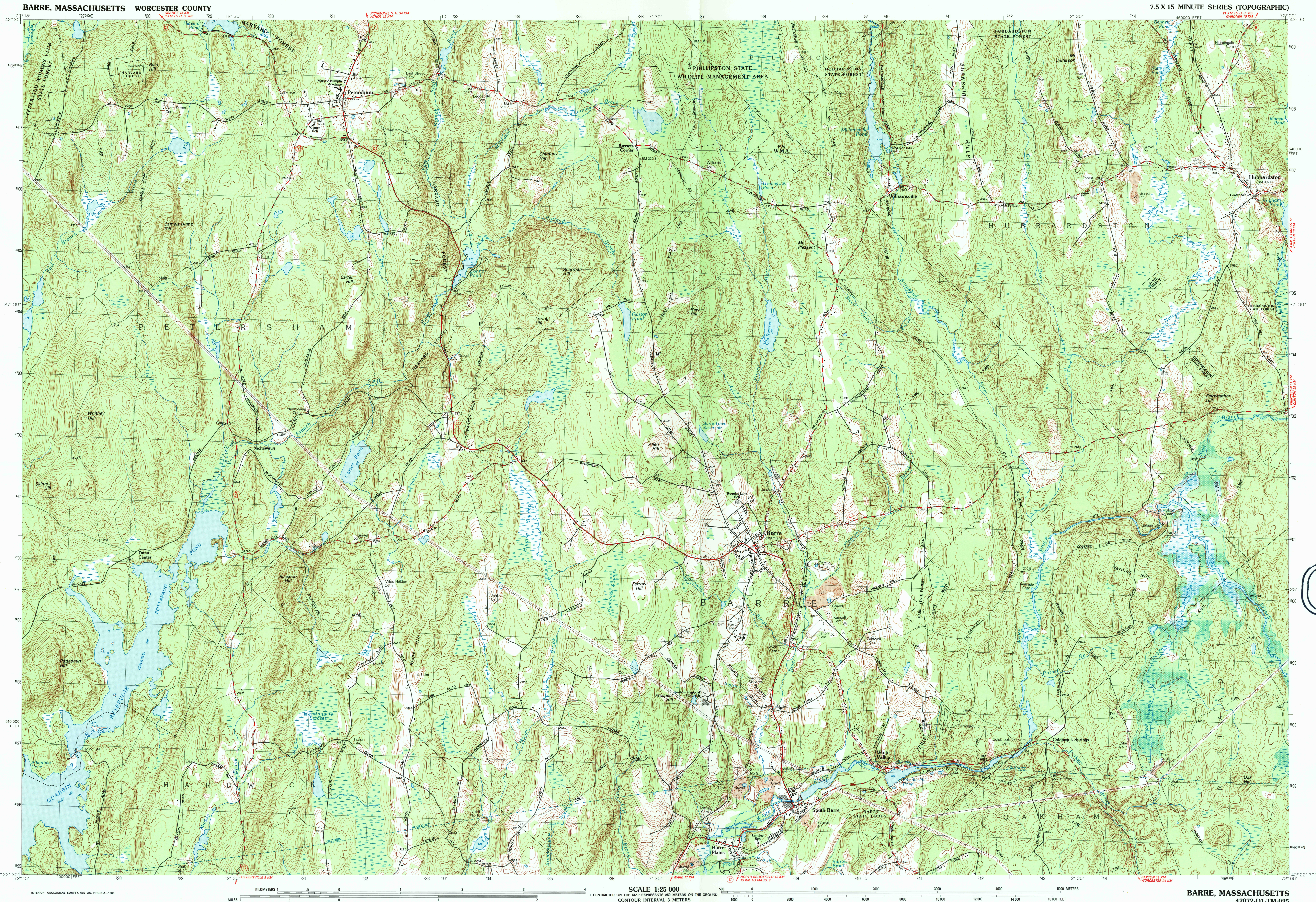




Barre

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

1988

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 1988
Supersedes Barre and Petersham 1:25,000-scale maps dated 1969
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 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	
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	
Magnetic North	Grid North
15°	15°
267 MILS	34 MILS

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

ADJOINING MAPS			
1	2	3	
Orange	Alford		
Shutebury	Fitchburg		
South			
Winnor Dam			
North Brookfield			
8	7	6	5

USGS AND HISTORICAL MAP ARCHIVES

FEB 1996

REC'D FILE COPY

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: trestlebridge
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
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; hills, large and small
Swamp, marsh
Submerged marsh; land subject to controlled sandbar
Woodland: scattered trees
Scrub; mangrove
Orchard; vineyard

A pamphlet describing topographic maps is available on request