

- EXPLANATION**
-  **YOUNGER BASICS**
Gray to black fine to medium-grained, massive to foliated intrusives of olivene norite, quartz norite, and hypersthene pyroxenite.
 -  **GRANITE AND PEGMATITE**
Probably related to Woodbury granite. Occur as sills and/or dikes; composed mainly of feldspar, quartz, muscovite, and biotite.
 -  **WOODBURY GRANITE**
Fine to coarse-grained, massive or layered granite containing large porphyritic crystals of graphic granite and plumeose muscovite; composed largely of microcline, albite-oligoclase, quartz, muscovite, and biotite. Granite gneiss roof pendants commonly present.
 -  **DIORITIC GNEISSES**
Fine to medium-grained hornblende, biotite, and hornblende-biotite dioritic gneisses with oligoclase-andesine feldspar.
 -  **MT. TOM HORNBLENDE GNEISS**
Dark green to black and white mottled gneisses containing hornblende, oligoclase-andesine, and locally garnet.
 -  **HARTLAND FORMATION**
Interbedded mica quartzites and mica-quartz schists containing garnet, staurolite, and kyanite locally.
 -  **BERKSHIRE FORMATION**
Mica-quartz gneisses and schists, feldspathic mica-quartz schists, and micaceous quartzites.
 -  **Contacts and Boundaries**
dashed where approximately located
 -  **Strike and Dip of Beds**
 -  **Strike and Dip of Overturned Beds**
 -  **Strike and Dip of Foliation**
 -  **Plunge of Lineation**
 -  **Highly Contorted Foliation**

**GEOLOGIC MAP
AND SECTION OF THE
LITCHFIELD QUADRANGLE,
CONNECTICUT**

By
ROBERT M. GATES

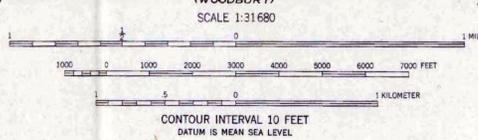
Geology mapped in 1948 and 1949
Northwest quarter mapped by E. N. Cameron

1951

Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, and Columbia University
Topography from aerial photographs by multiplex methods
Aerial photographs taken 1944. Field check 1948
Polyconic projection. 1927 North American datum
10,000-foot grid based on Connecticut coordinate system

These marginal references refer to base map.
Geological data overprinted by Connecticut
Geological and Natural History Survey.

13°
TRUE NORTH
APPROXIMATE MEAN
DECLINATION, 1948



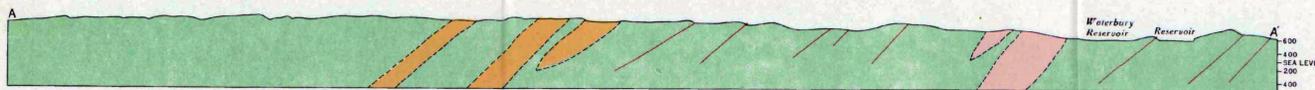
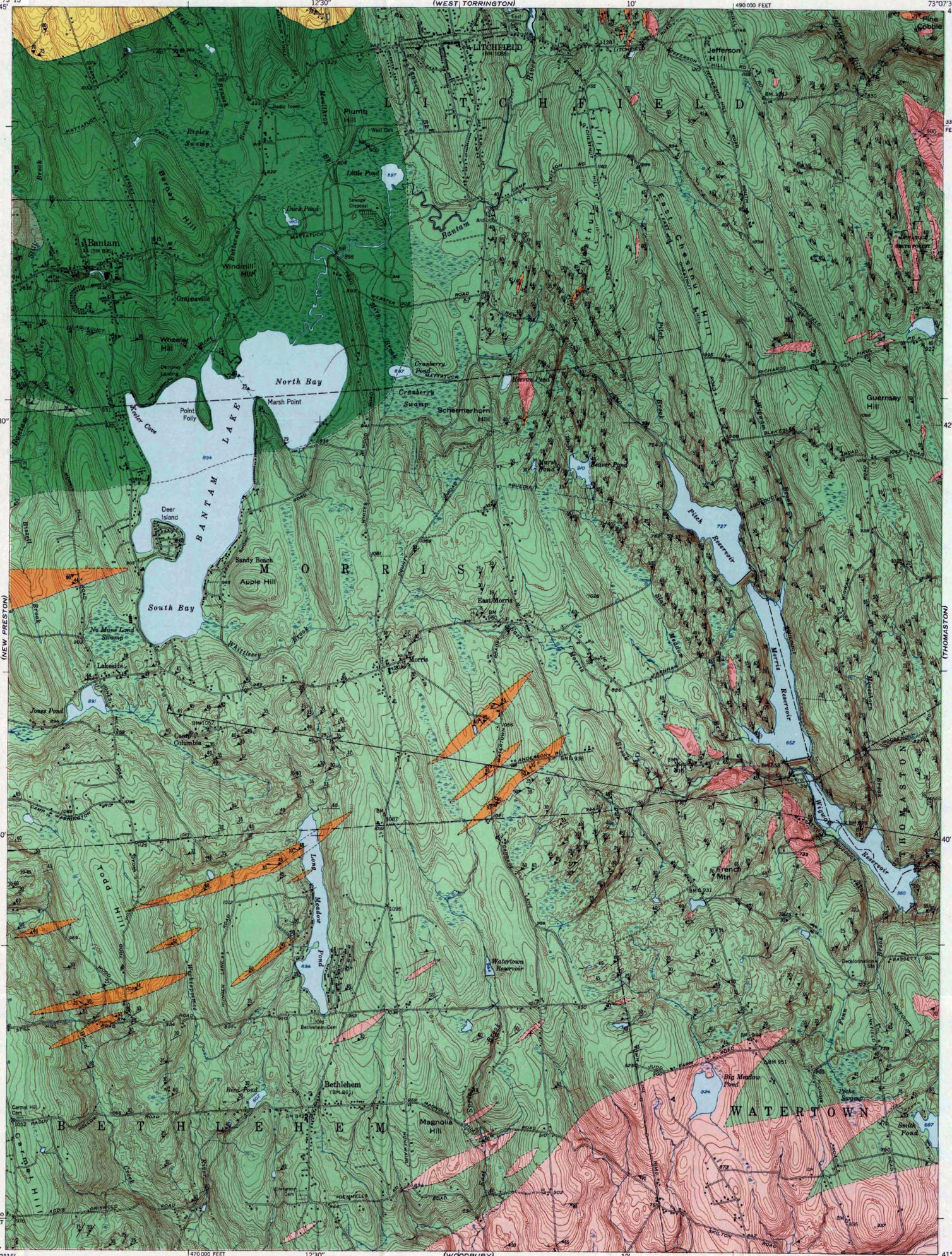
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION

HARD-SURFACE ALL WEATHER ROADS	DRY WEATHER ROADS
Heavy-duty	Improved dirt
Medium-duty	Unimproved dirt
Loose-surface, graded, or narrow hard-surface	
U. S. Route	State Route

LITCHFIELD, CONN.
NW/4 WATERBURY 15' QUADRANGLE
N4137.5-W7307.5/7.5

EDITION OF 1950



SECTION ALONG LINE A-A