Open Report

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

CONNECTICUT GEOLOGICAL and NATURAL HISTORY SURVEY
EDWARD L. TROXELL, Director

NEW PRESTON QUADRANGLE
CONNECTICUT-LITCHFIELD CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
NE/4 NEW MILFORD 15' QUADRANGLE

EXPLANATION

YOUNGER BASICS

Gray to black, fine-to medium-grained, massive to foliated intrusives of olivine norite, quartz, norite, and hypersthene pyroxenite.

GRANITE and GRANITIC GNEISSES

Relatively undeformed, gray to red, fine-to medium-grained, granites and granitic gneisses composed of microcline, oligoclase, quartz, and mica.

DIORITIC GNEISSES

Fine-to medium-grained hornblende, biotite, and hornblende-biotite dioritic gneisses with oligoclaseandesine feldspar.

MT. TOM HORNBLENDE GNEISS

Dark green to black and white mottled gneisses containing hornblende, chlorite, andesine with minor amounts of quartz, titanite, and magnetite.

HARTLAND FORMATION

Interbedded mica quartzites and mica-quartz schists containing staurolite, garnet, cordierite, and kyanite locally.

STOCKBRIDGE MARBLE

Massive, white to gray, dolomitic marble with micaceous and tremolite-bearing layers.

WARAMAUG FORMATION

Mica-quartz gneisses and schists, feldspathic mica quartzites, and mica quartzites.

Contacts and Boundaries dashed where approximately located

45

Strike and dip of schistosity or foliation

25

Plunge of linear elements

Highly contorted foliation

Faults, broken lines inferred

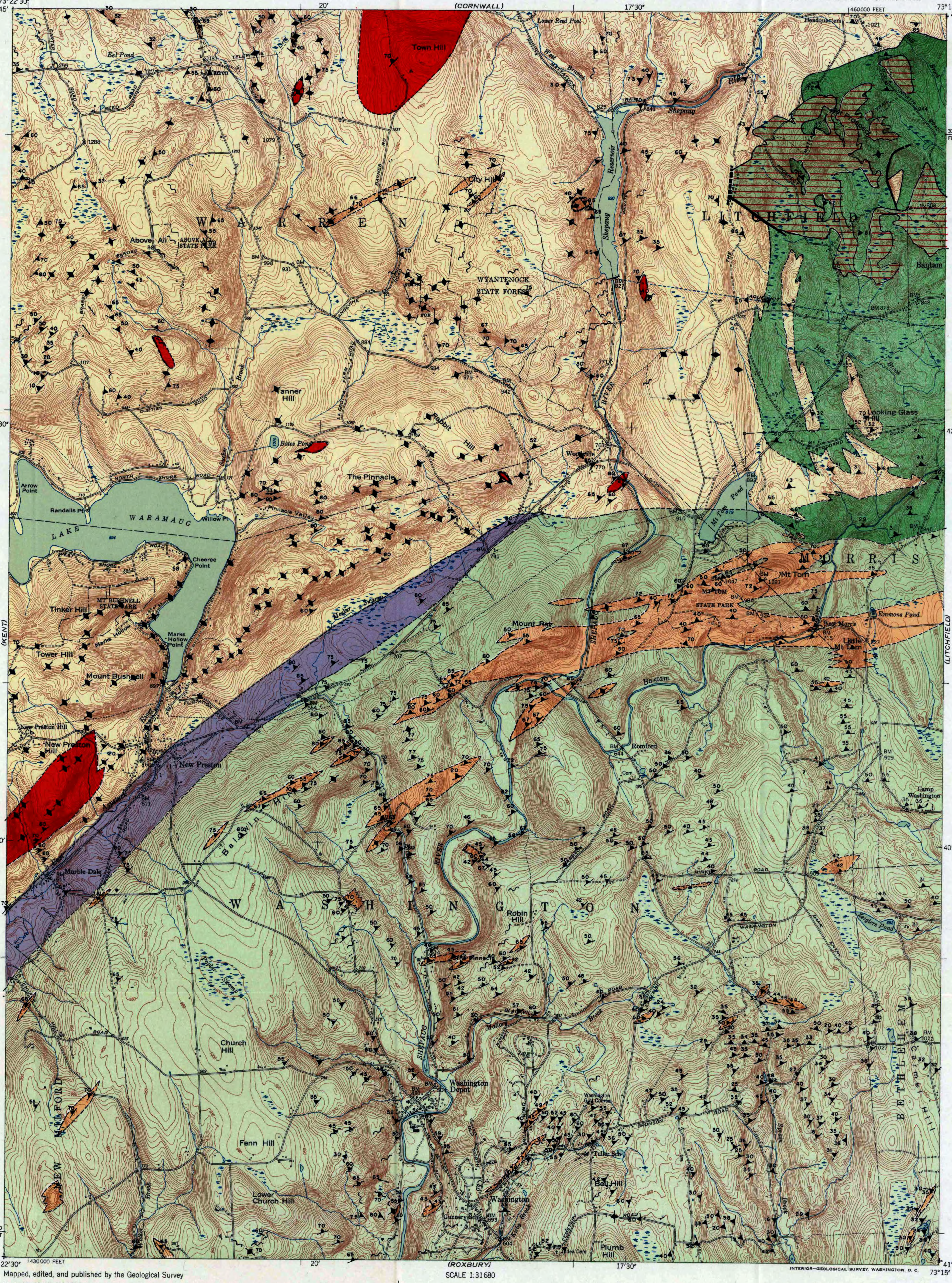
GEOLOGIC MAP AND SECTION OF THE NEW PRESTON QUADRANGLE, CONNECTICUT

By
Robert M. Gates

ASSISTED BY WILLIAM C. BRADLEY

Geology mapped in 1950
Northeast Corner mapped by
E. N. Cameron

— 1952 —



Mapped, edited, and published by the Geological Survey
Control by USGS, USC&GS, Connecticut Geodetic Survey, 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
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 1948

SCALE 1:31680

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.

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

NEW PRESTON, CONN.
NE/4 NEW MILFORD 15' QUADRANGLE
N4137.5-W7315/7.5

EDITION OF 1950