PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF MASSACHUSETTS
DEPARTMENT OF PUBLIC WORKS

MOUNT TOM QUADRANGLE
MASSACHUSETTS
7.5 MINUTE SERIES (TOPOGRAPHIC)

Mapped, edited, and published by the Geological Survey

Control by USGS, USC&GS, and Massachusetts Geodetic Survey

Topography by planetable surveys 1934. Revised 1958

Polyconic projection. 1927 North American datum
10,000-foot grid based on Massachusetts coordinate system, mainland zone
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Red tint indicates areas in which only landmark buildings are shown

SCALE 1:24 000

1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

This scale now at 1:24 000

CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

APPROXIMATE MEAN DECLINATION, 1958

ROAD CLASSIFICATION

Heavy duty	Light duty
Medium duty	Unimproved dirt
Interstate Route	U. S. Route / State Route

QUADRANGLE LOCATION

MOUNT TOM, MASS.
N4207.5—W7237.5/7.5
1958

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

INTERIOR-GEOLOGICAL SURVEY, WASHINGTON, D. C.-1960

EXPLANATION

Solid red denotes areas of outcrop or areas of bedrock veneered with as much as 5 feet of surficial deposits

Upper Triassic — Newark Group — TRIASSIC

Trp — Portland Arkose

Dark gray, gray, reddish gray, brown, reddish brown, or dark reddish brown arkosic shale, sandstone, and conglomerate at least 3400 feet thick

Trg — Granby Formation

Brown, yellowish-brown or reddish-brown tuff, volcanic sandstone, and volcanic agglomerate; locally up to 170 feet thick. Associated with Hampden Basalt in northeast part of the quadrangle

Trha — Hampden Basalt

Dark gray, fine-grained basalt about 120 feet thick. Consists of 2 lava flows in the quadrangle; lower one is 53 feet thick and upper one is 67 feet thick. Top few feet of each flow are vesicular and amygdaloidal. Both flows have prominent columnar jointing

Treb — East Berlin Formation

Gray, reddish brown or dark red arkosic siltstone and shale approximately 500-1125 feet thick

Trho — Holyoke Basalt

Dark gray basalt approximately 250-500 feet thick; thickness varies along outcrop. Prominent columnar jointing in lower half; uppermost several feet are vesicular

Trs — Sugarloaf Formation

Light to dark reddish brown arkosic siltstone and arkosic conglomerate, mostly coarse-grained arkose; formation at least 6500 feet thick

CARBONIFEROUS

Cw — Williamsburg Granodiorite

Light- to medium-gray, fine- to medium-grained biotite granite; associated with pegmatite and pegmatitic alterations of the country rock

Inferred contact

Fault (U, upthrown side; D, downthrown side)

Dashed where approximately located, short dashed where inferred, dotted where concealed, queried where probable. Exposures in quarries indicate that faults are numerous and closely spaced

Fault inferred from lineament on aerial photographs

Strike and dip of beds

Large quarry

Hachured line indicates boundary of quarry in 1968

Abandoned quarry

Note: Faults in the Holyoke Basalt were compiled from aerial photographs by Roger Colton

U.S. GEOLOGICAL SURVEY
WASHINGTON
OCT 5 1972
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OPEN FILE MAP
This map is preliminary and has not been edited or reviewed for conformity with Geological Survey standards or nomenclature.

Plate 1, Bedrock geology of the Mount Tom quadrangle, Massachusetts

To accompany: Surficial Geology of the Mount Tom quadrangle, Massachusetts
Larsen, F. D., 8/11/72