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Surficial geology of the southern half of the Pittsfield 15' quadrangle

John E. Cotton

Michael Welch

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VANDER 3/16/81

Map Symbol

Geologic Unit

Description

Qal

Alluvium

Sand, silt, clay, and some gravel beneath stream channels and in flood plains and low terraces along streams. Generally forms a mappable unit only along the Kennebec and Carrabassett Rivers.

Qs

Swamp deposits

Peat and organic muck and some interbedded silt, clay, and sand. Occurs in low-lying or poorly drained areas.

Qed

Eolian (wind) deposits

Fine to coarse sand occurring in several outcrop areas, particularly in the vicinity of the Kennebec River in the Norridgewock to Benton area. May form dunes, which are generally vegetated and fixed, but some small areas of blowing sand exist.

Qna

North Anson Formation

Sand, gravel, and cobbles, generally poorly stratified. Forms a valley train adjacent to the Kennebec River primarily from Solon to Anson. Overlies outwash or marine deposits.*

Qow

Outwash

Stratified deposits of sand and gravel in outwash plains and valley trains. May overlie marine or glacial-lake deposits.

Qmd

Marine deposits

Dark-blue to gray silt, clay, and fine sand; tan where weathered. Contain layers of sand and gravel. Underlie outwash and may crop out in stream valleys up to about 400 feet above sea level. Equivalent to the major part of the Presumpscot Formation (Bloom, 1960, p. 55-58).**

Qic

Ice-contact deposits

Well-to-poorly stratified deposits of sand, gravel, and cobbles, with some silt and boulders. Land forms include eskers, kames, kame deltas, kame fields, and kame terraces.

Qgt

Till and bedrock

Till and bedrock are mapped together.

Till is an unsorted, unstratified mixture of clay, silt, sand, gravel, cobbles, and boulders. In places the upper few feet appear to have been roughly sorted by running water. Till may consist of sand and gravel and may resemble ice-contact deposits except for lack of stratification. Below the first few feet, particularly where thick, till is commonly clay-rich and very dense. Till covers the bedrock in the upland areas with a mantle of varying thickness. It may also occur beneath younger deposits in the valleys.

Bedrock formations consist of a variety of igneous and metamorphic rocks. Igneous rocks include granite, pegmatite, and granodiorite, with smaller amounts of basic volcanic or intrusive rocks. Metamorphic rocks consist largely of metamorphosed sedimentary rocks and include schist, gneiss, phyllite, quartzite, and slate.

See note
 Kingsbury Quad.

*/ Borns, H.W., Jr., and Hagar, D.J., 1965, Late-glacial stratigraphy of a northern part of the Kennebec River valley, western Maine: Geological Society of America Bulletin, v. 76, p. 1233-1250.

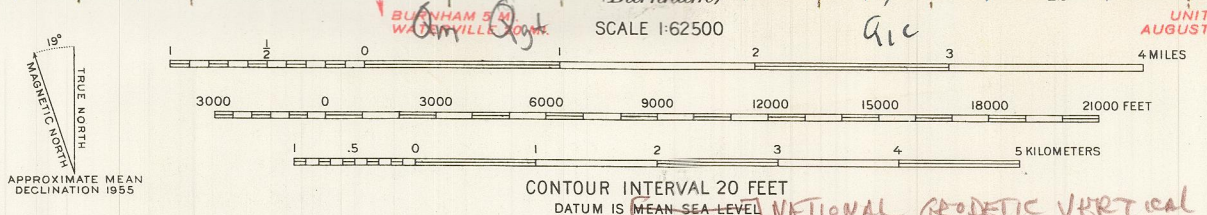
** Bloom, A.L., 1960, Late Pleistocene changes of sea level in southwestern Maine: Maine Geological Survey, 143 p.

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J. GROSSMAN 3/31/81



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 Mapped, edited, and published by the Geological Survey Control by USGS and USC&GS
 Topography by plane-table surveys 1930. Revised 1955
 Polyconic projection, 1927 North American datum (1000-foot grid based on Maine coordinate system, west and east zones).
 1000-meter Universal Transverse Mercator grid ticks, zone 19, shown in blue



ROAD CLASSIFICATION

| | |
|-------------|-----------------|
| Heavy-duty | Light duty |
| Medium-duty | Unimproved dirt |
| U. S. Route | State Route |

PITTSFIELD, ME.
 N 4445-W 6915/5
 1955

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 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

by
 John E. Cotton and Michael Welch