

Surficial geology of Webster quadrangle,
 Massachusetts-Connecticut

EXPLANATION

or Holocene Holocene

Pleistocene
 Wisconsin

QUATERNARY

Qa1

Alluvium
 silt, sand and minor gravel. In
 flood plains along present streams

Qa

Swamp deposits
 muck, peat, silt and sand

Qq5
 Qq4

Qsc

South Charlton area deposits
 Sand and gravel laid down by
 glacial streams in a thin
 outwash fan

Qpm3
 Qpm2
 Qpm1

Pierpoint Meadow Pond area deposits
 sand and gravel deposited by glacial
 streams and ice contact and outwash
 deposits
 Qpm3 graded to sand and gravel spillway
 near the north end of Pierpoint
 Meadow Pond and west side of Buffum
 Pond
 Qpm2 graded to sand and gravel spillway
 near the south end of Pierpoint
 Meadow Pond
 Qpm1 graded to bedrock and till spillway
 at the south end of Larner Pond

Qo5
 Qo4
 Qo3
 Qo2
 Qo1

Glacial Lake Oxford deposits
 sand to coarse gravel and minor silt de-
 posited by glacial streams into lake controlled
 at several levels by bedrock and till spillway
 southeast of the Dudley Jr. High School, may
 incorporate earlier ice contact and outwash
 deposits at places
 Qo5 chiefly Qo4 deposits modified by terracing
 adjacent to French River, may contain thin
 terrace deposits locally
 Qo4 principally sand, contains more gravel nearest
 Oxford center, northeast of Hodges Village and
 at places adjacent to till. Contains coarse
 gravel in fan northwest of Hodges Village
 Qo3 probably contains older ice contact deposits
 sandier east of French River
 Qo2 sandier east of French River
 Qo1 progressively sandier to northeast

Qq3
 Qq2
 Qq1

Quinebaug area deposits
 Sand and gravel deposited by glacial
 streams as (ice contact), outwash and
 fan deposits laid down by Jordan Brook
 over older deposits
 Qq5 deposits at Qq3 and Qq2 modified by
 terracing by the Quinebaug River, capped
 by thin, about 1 meter (3 feet) thick,
 terrace gravels at places may incorporate
 thin patches of windblown sand locally
 deposited against ice and as fans heading
 in channels to north
 Qq3 deposited alongside ice and as outwash
 in Quinebaug River Valley
 Qq2 deposited by glacial streams graded to
 channel on east side

Qd2
 Qd1

Dudley area deposits
 sand and gravel deposited
 by glacial streams as fan and
 lake deposits
 Qd2 deposits graded to lower part
 of Shunway Brook and French
 River
 Qd1 deposited in fans heading in
 Potash Brook and channels
 northwest of Webster center;
 includes lake deposits, north
 of Perryville, controlled by
 bedrock and till spillway south-
 east of Perryville

Qc3 Qc4

Qlb

Long Brook area deposits
 sand and gravel deposited
 by glacial streams against
 ice and as outwash into
 perched basin. West of Pasey
 Road thin patchy deposits laid
 down in places along successively
 lower channels leading from the
 basin to the French River

Qc2
 Qc1

Ice channel or cravasse deposits
 cobble and boulder gravel
 deposited by glacial streams
 flowing over ice
 Qc4 may have been deposited by
 streams flowing to fans near
 Webster center
 Qc3, appears deposited by streams
 feeding fan on Potash Brook
 Qc2, deposited by stream flowing
 into Quinebaug River
 Qc1, poorly sorted in part with
 sand and silt

Qg

Uncorrelated glacial stream
 deposits, sand and gravel
 deposits

Qt3
 Qt2
 Qt1

Till
 Poorly sorted unstratified mixture of
 silt, sand and gravel with minor amounts
 of clay
 Qt3, thick till, from about 3 meters (~9 feet)
 at edges to perhaps as much as 65 meters
 (~200 feet) thick, contained cobbles and
 boulders are chiefly subangular to sub-
 rounded pieces of rock that in places does
 not match the local bedrock as closely
 as in the thinner till. Those deposits
 mask the bedrock topography and have been
 shaped by ice.
 Qt2, moderately thick till, roughly 3 to 7
 meters (~9-21 feet) thick that generally
 buries bedrock topography, but have not
 been shaped by ice into a drumloid form
 Qt1, thin till, generally less than 5 meters
 (15 feet) thick, includes scattered small
 outcrops, contained cobbles and boulders are
 mainly angular and subangular pieces of rock
 similar to local bedrock, contains residual
 concentrations of large boulders locally
 mantles bedrock and generally reflects bedrock
 topography

af
 afd

Artificial fill

Includes fill for highway and railroad
 beds, dams, and construction sites
 afd, dump

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Contact

Dashed where approximately located, queried where doubtful

→
 SISE

Glacial striation

Point of observation at tip of arrow, direction given

—○—

Long axis of drumloid feature

X

Sand and gravel or barrow pits

Massachusetts (Webster quad), Surficial
 1:24,000, 1973.

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 Sep 2

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 R290
 no. 73-19
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