

AREAL GEOLOGY

U.S. GEOLOGICAL SURVEY
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STATE OF NEW JERSEY
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PENNSYLVANIA-NEW JERSEY
GERMANTOWN QUADRANGLE

LEGEND

SEDIMENTARY ROCKS

(Areas of subaqueous deposits are shown by patterns of parallel lines, subaerial deposits by patterns of dots and circles, metamorphisms are indicated by hachures combined with the line patterns.)

Quc

Unclassified deposits
(gravel, sand, and loam of various ages, usually thin and discontinuous, with occasional outcrops of older formations)

Qcm

Cape May formation
(sand and gravel, chiefly on terrace)

Qpd **Qpt**

Pensauken formation
(includes blue phase Qpd; tributary valley phase Qpt; carbonaceous sand and gravel, possibly includes material of slightly different age)

Tt

Lafayette formation
(loam, clay, sand, and gravel)

Kpt

Patapsco formation
(highly colored clay)

Rb

Brunswick shale
(red shale in greater part)

Rl

Locketing formation
(dark, buff shale and fine-grained sandstone, with some red layers)

Rs

Stockton formation
(gray sandstone, shales, and red shale)

COs

Shenandoah limestone
(crystalline blue and white siliceous magnesian limestone)

Cc

Chickies quartzite
(thin bedded conglomerate quartzite and quartz schist)

wg

Wissahickon gneiss
(banded quartz-feldspar mica rock with garnet, all limestone, and andalusite)

bgn

Baltimore gneiss
(banded quartz-feldspar rock containing hornblende or biotite in part massive granitic)

pt

Diabase dikes
(quartz-labradorite rock)

mg

Metagabbro
(dikes of fine-grained, hornblende-labradorite rock, closely related to the gabbro)

sp

Metaproxenite and metaperidotite
(serpentine, staurolite, and associated alteration products)

gb

Gabbro
(quartz gabbro, pyroxenite gabbro, and hornblende)

hgn

Hornblende gneiss
(hornblende-labradorite rock)

grn

Granite gneiss
(quartz-orthoclase biotite-hornblende rock)

Faults

45° Strike and dip of sedimentary rocks

Strike of vertical beds

Strike and dip of schistosity

Economic data

Quarries, in part abandoned

Quarries, in part abandoned

Pits in unconsolidated deposits

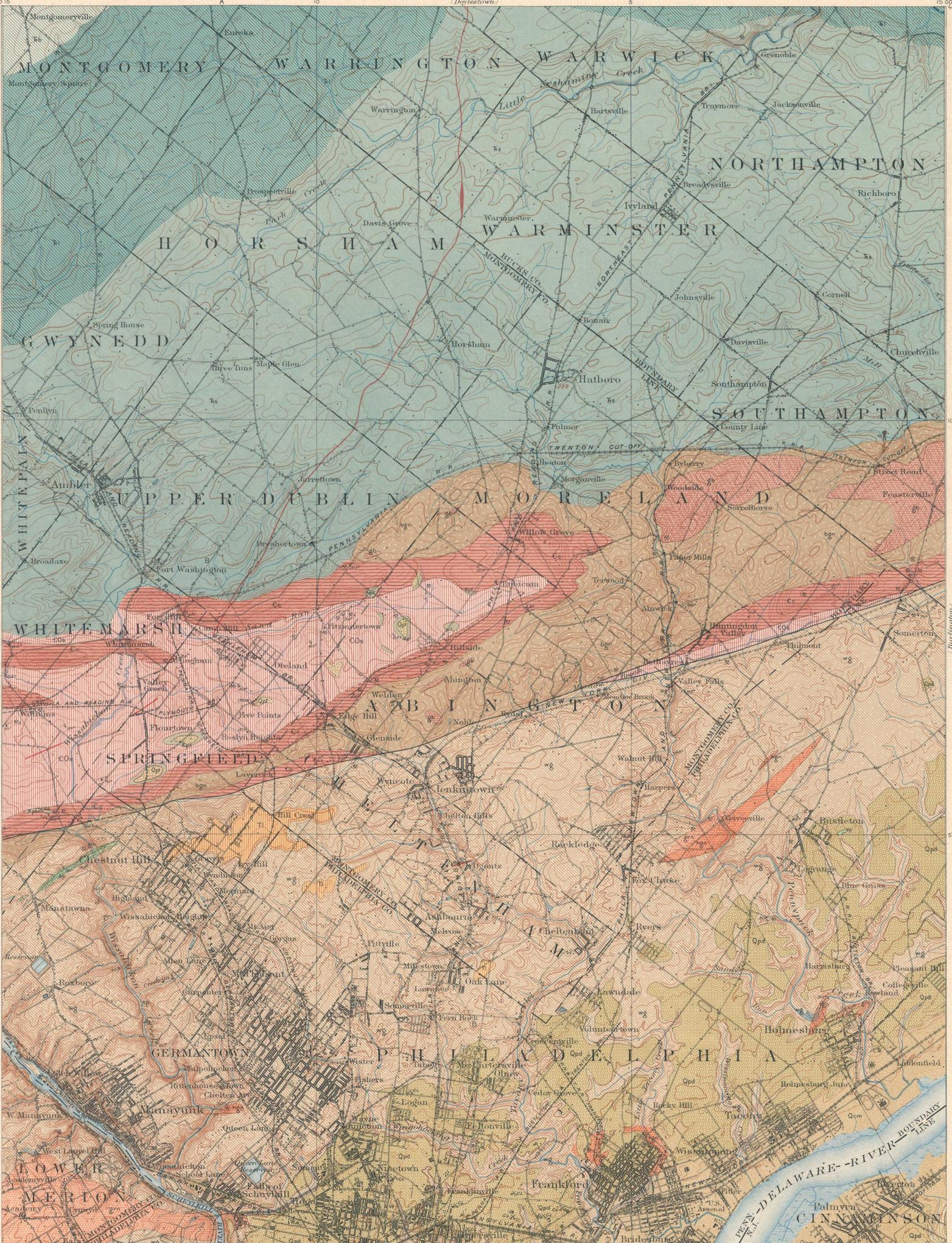
(cl. clay, gravel)

Note: Building stone can be obtained from bgn, sp, hgn, gb, wg, COs, pt, and h.

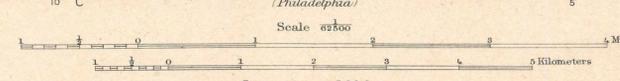
Iron from COs, sp, and h.

Quartz for pottery from pt.

Gravel for concrete and building purposes from Qpd, Qpt, and Qcm.



Henry Gannett, Chief Topographer.
H.M. Wilson, Chief Geographer in charge.
Triangulation by U.S.C. and G.S. and City of Philadelphia.
Topography by Frank Sutton, Robert Muldrow, and J.H. Jennings.
Surveyed in 1894.



Contour interval 20 feet.
Datum is mean sea level.
Edition of Sept. 1908.

Geology of the pre-Triassic by F. Bascom;
Triassic, by N.H. Darton;
Cretaceous and Tertiary by B.L. Miller;
Quaternary of New Jersey by G.N. Knapp.
Surveyed in 1894-1907.

SURVEYED IN COOPERATION WITH THE STATE OF NEW JERSEY.

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