

AREAL GEOLOGY

U.S. GEOLOGICAL SURVEY
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STATE OF PENNSYLVANIA
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COMMISSIONERS
(Curwensville)

PENNSYLVANIA
PATTON QUADRANGLE



LEGEND

SEDIMENTARY ROCKS

(Areas of subaqueous deposits are shown by patterns of parallel lines; subaerial deposits by patterns of dots and circles)

Recent series
Qal Alluvium
(in flood plains of present streams)

Pennsylvanian series
Ccm Conemaugh formation
(shale, thin limestone, some red shale, thin coal beds locally workable and some thick-bedded sandstones containing the Marysville, Cmt. Saltsburg, Cab and Buffalo, Cb. members)

Allegheny formation
(chiefly light and dark gray clay shale with variable beds of coarse gray sandstone and gravel; valuable coal beds, typical transport coal at top)

Pottsville formation
(thick-bedded sandstone with shale in the middle, carrying thin coal, locally workable)

Mississippian series
Cmc Mauch Chunk formation
(soft red shale in upper part, greenish to gray thick-bedded sandstone in lower part)

QUATERNARY

CARBONIFEROUS

H.M. Wilson, Geographer in charge.
Triangulation by S.S. Gannett.
Topography by Frank Sutton, A.M. Walker, and J.D. Forster.
Surveyed in 1901-2 in cooperation with the State of Pennsylvania.

APPROXIMATE MEAN
REDUCTION 1900.

Scale 1:25,000
Miles
Kilometers

Contour interval 20 feet.
Datum is mean sea level.
Edition of May 1913.

Geology by Marius R. Campbell, Frederick G. Clapp,
and Charles Butts; assisted by J.S. Burrows.
Surveyed in 1903-4 and 1908.

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1 MAPS #
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