

AREAL GEOLOGY

STATE OF PENNSYLVANIA
GEORGE W. MCNEES, RICHARD R. HICE, ANDREW S. MCCREATH
COMMISSIONERS

PENNSYLVANIA
FOXBURG QUADRANGLE

U.S. GEOLOGICAL SURVEY
GEORGE OTIS SMITH, DIRECTOR

LEGEND

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

Qal

Alluvium and late glacial gravel
(gravel, sand, and silt in flood plains of present streams and forming low terraces on the Allegheny contains much glacial gravel of probably Wisconsin age)

Qig

Intermediate glacial gravel
(gravel, sand, and silt of local and foreign material on terraces of medium elevation)

Qit

Intermediate terrace deposits
(sand, silt, clay, and well rounded pebbles of local derivation on terraces of medium elevation)

Qeg

Early glacial gravel
(deeply decayed high terrace gravel, sand, and silt of glacial and local material derived from sedimentary and igneous rocks as far north as Canada)

Qcm

Carmichaels formation
(high terrace sand, silt, clay, and deeply decayed water worn pebbles of local derivation)

Ccm

Conemaugh formation
(soft olive shale, sandy shale, and locally heavy sandstone near base with thin coals and limestone)

Ca

Allegheny formation and Vampert limestone member
(iron-bearing shale, fine-grained to conglomeratic sandstone, limestone, and valuable beds of coal and fire clay)

Cpv

Pottsville formation
(massive sandstone with large shale lenses and thin seams of coal)

UNCONFORMITY

Cbg

Burgoon sandstone
(massive to thin-bedded sandstone with many small lenses of shale and thin seams of coal)

Cmv

Meadville shale member of the Cuyahoga formation
(hard black to gray sandy shale with pebble layers at top)

QUATERNARY

Pennsylvanian

(Clinton)

Mississippian (Becono group)

CARBONIFEROUS



Frank Sutton, Geographer in charge.
Topography by R. D. Cummin, R. H. Reineck, and E. W. McCrary.
Control by E. L. McNair and C. G. Anderson.
Surveyed in 1905-1907.

SURVEYED IN COOPERATION WITH THE STATE OF PENNSYLVANIA.

Scale 62500
Miles
Kilometers
Contour interval 20 feet.
Datum is mean sea level.
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