

SURFICIAL GEOLOGY OF THE AIRVILLE 7.5' QUADRANGLE, PA

Open-File Report 96-09

AIRVILLE QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

by W. D. Sevon
1996

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

**THIS REPORT HAS NOT BEEN REVIEWED
FOR CONFORMITY WITH THE PUBLICATION STANDARDS
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EXPLANATION

AF = Artificial Fill
Compacted to semi-compacted material used for fill. Composed of locally derived bedrock or surficial material.

A = Alluvium
Material underlies narrow to broad, flat, surfaced floodplains of perennial streams. Comprises stratified sand, silt, and clay in upper part; same plus gravel in lower part. Generally less than 10 feet thick.

C = Colluvium
Colluvium is unsorted and unstratified to crudely stratified debris derived from underlying bedrock. Comprises fragments set in finer-grained matrix. Platy fragments in schist bedrock areas (RC); more sand in quartzite bedrock areas (RC₀). Mapped where greater than 6 feet thick.

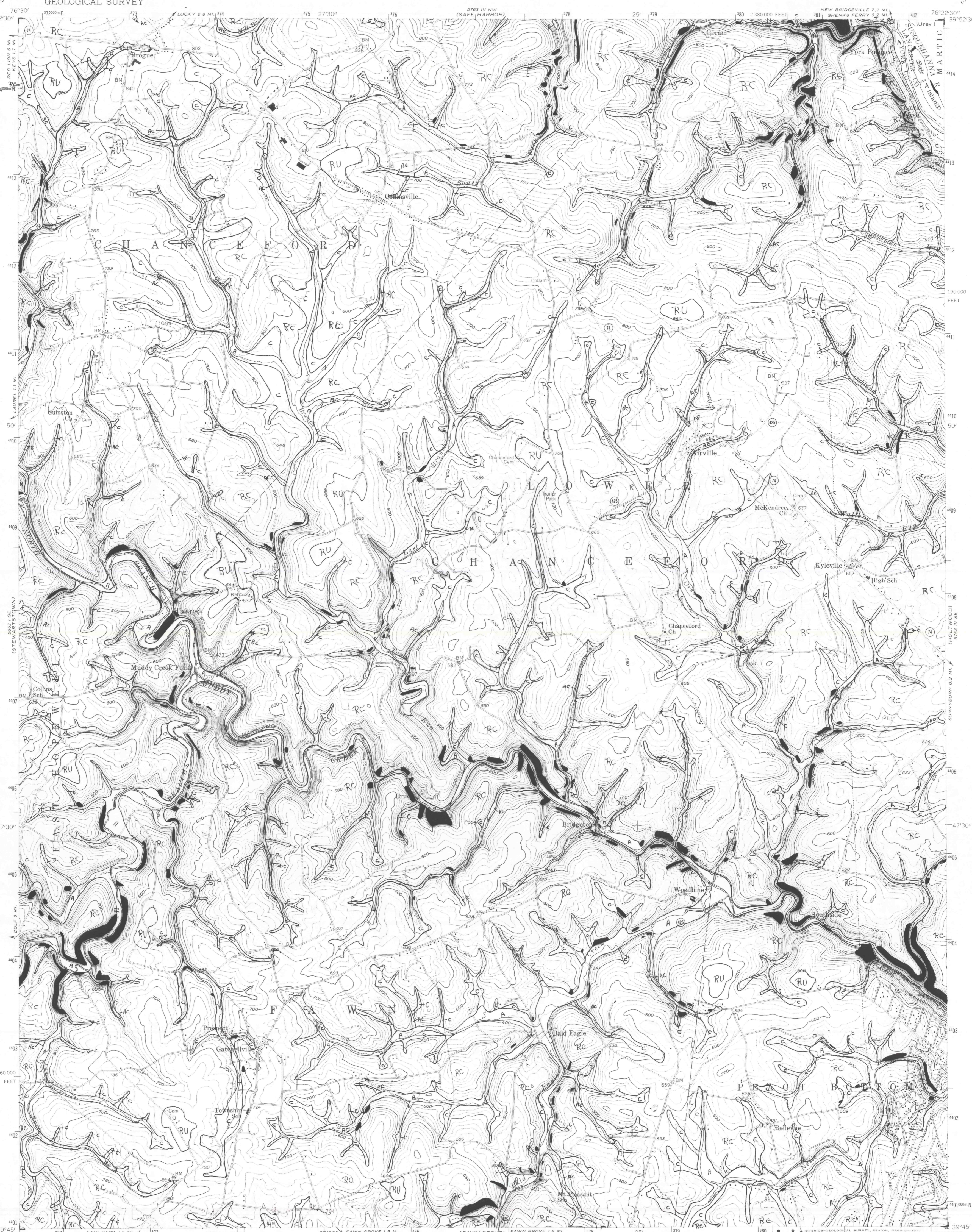
AC = Alluvium and colluvium undivided
Alluvium and colluvium are mapped together where the valley in which they occur is too narrow to map the units separately at 1:24,000 scale.

RC = Schist bedrock and colluvium undivided
Surfaces with low to steep slopes underlain by unweathered or weathered schist bedrock and thin (<6 feet), discontinuous deposits of colluvium.

RU = Rock upland
Nearly flat upland surface underlain usually by weathered schist bedrock, sometimes by unweathered schist bedrock. Little or no colluvium is present.

R = Rock
Surfaces with steep to very steep slopes underlain by unweathered or weathered rock that is at or very close to the surface. Some colluvium may occur at the base of the slope.

● = Outcrop
Areas with continuous or discontinuous bedrock outcrop.



Mapped, edited, and published by the Geological Survey

Control by USGS, USCGS, and USCE

Topography from aerial photographs by Kelsch plotters

Aerial photographs taken 1952. Field check 1955

Polyconic projection. 1927 North American datum

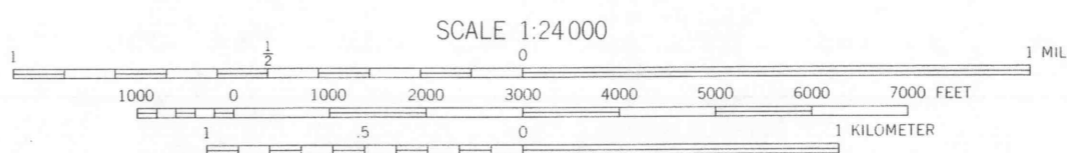
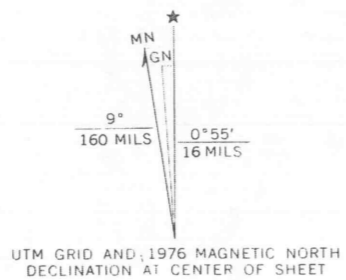
10,000-foot grid based on Pennsylvania coordinate system, south zone

Unchecked elevations are shown in brown

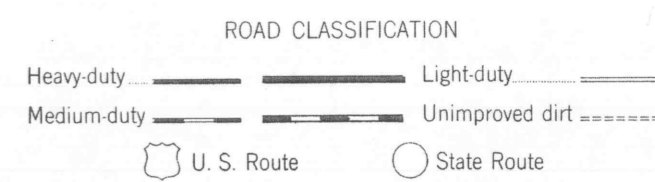
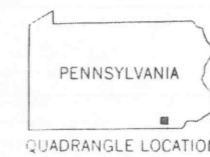
1000-meter Universal Transverse Mercator grid ticks, zone 18, shown in blue

Revisions shown in purple compiled in cooperation with State of Pennsylvania agencies from aerial photographs taken 1969 and 1976.

This information not field checked



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



AIRVILLE, PA.

N 3945—W 7622.5/7.5

1955
PHOTOREVISED 1969 AND 1976
AMS 5763 IV SW—SERIES V631

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