

# SURFICIAL GEOLOGY OF THE AIRVILLE 7.5' QUADRANGLE, PA

Open-File Report 96-09

AIRVILLE QUADRANGLE  
PENNSYLVANIA  
7.5 MINUTE SERIES (TOPOGRAPHIC)

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1996

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**THIS REPORT HAS NOT BEEN REVIEWED  
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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 (RC<sub>2</sub>). Mapped where greater than 6 feet thick.

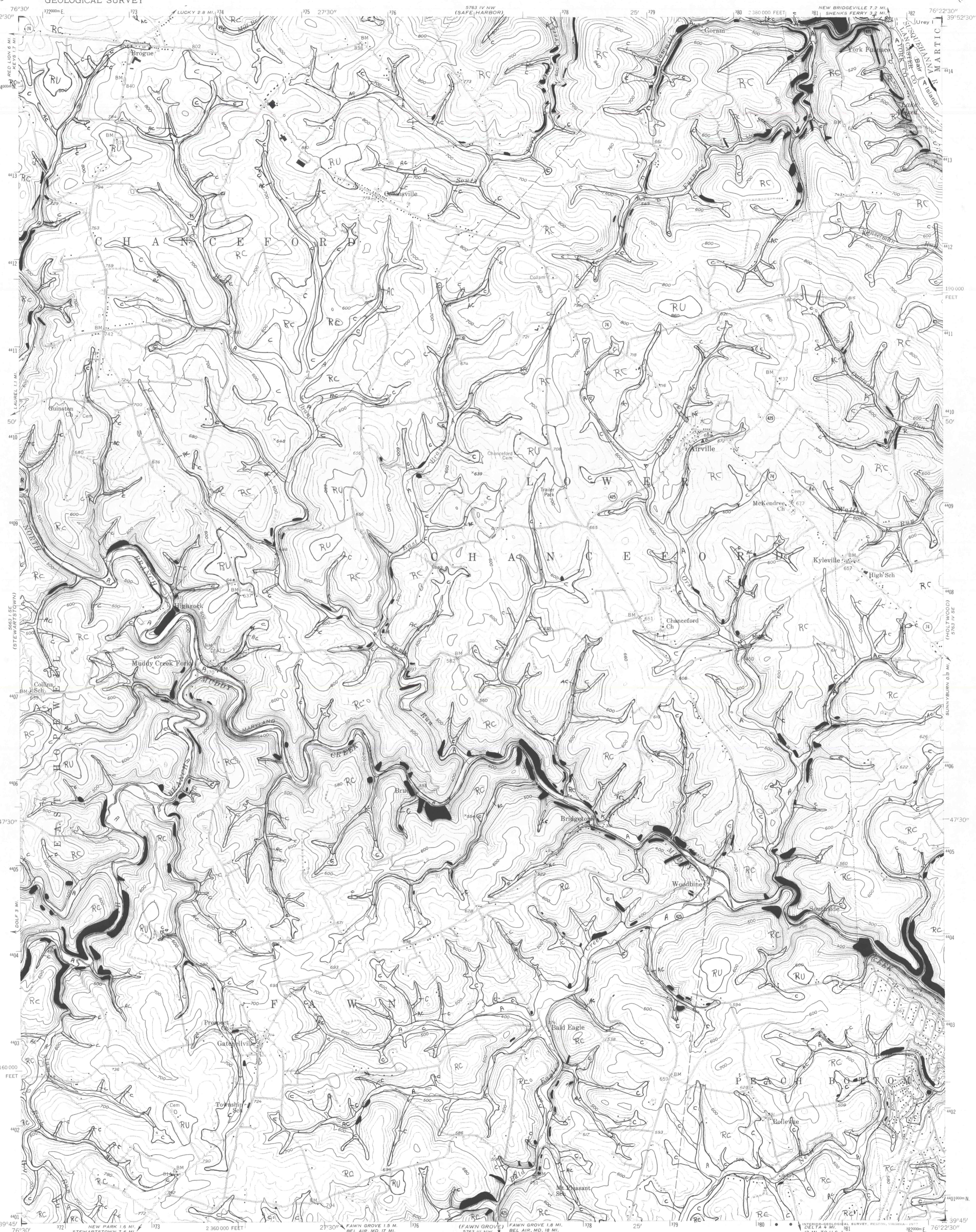
**AC = Alluvium and colluvium undivided**  
Alluvium and colluvium are mapped together where the valley in which they occur is too narrow to map the units separately at 1:24,000 scale.

**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.

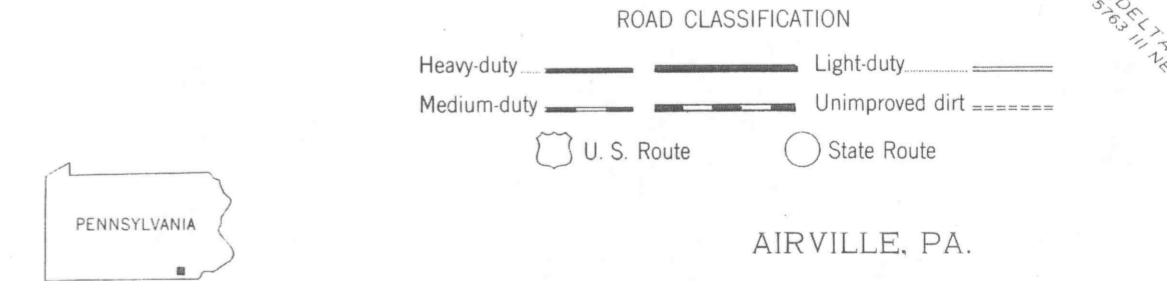
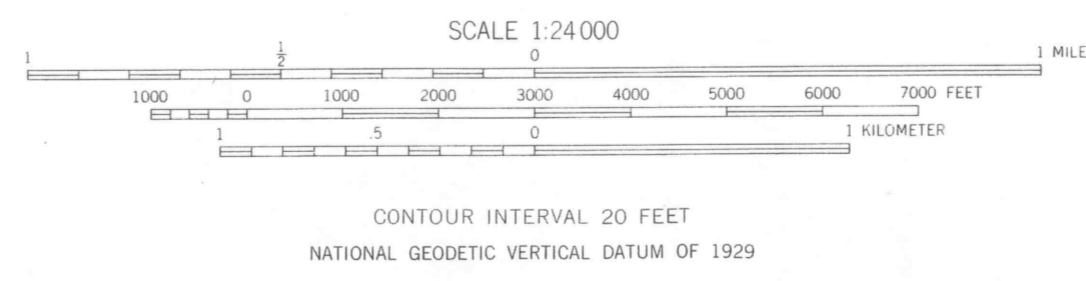
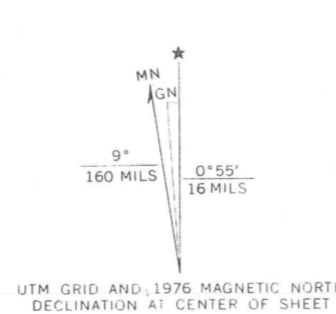
**RU = Rock upland**  
Nearly flat upland surface underlain usually by weathered schist bedrock, sometimes by unweathered schist bedrock. Little or no colluvium is present.

**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 plotter  
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

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

ROAD CLASSIFICATION  
Heavy-duty ——— Light-duty ———  
Medium-duty ——— Unimproved dirt ———  
U. S. Route      State Route  
  
AIRVILLE, PA.  
N 39°45'—W 76°22'51.75"  
1955  
PHOTOREVISED 1969 AND 1976  
ANS 5763 IV SW—SERIES V831

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