



EXPLANATION
 All areas indicated in comparison with the accompanying map.

RECENT LANDSLIDES
 Generally earth slumps and earth flows; slumps may be covered or slumped; flows may be covered or slumped.

HEBBISSIDES
 Slides in steep rocky valleys; generally rock, soil and vegetation cover.

PREHISTORIC LANDSLIDES
 Generally earth slumps and earth flows; slumps may be covered or slumped; flows may be covered or slumped; slumps may be covered or slumped; slumps may be covered or slumped.

SLOPES WITH CONSPICUOUS CLAY
 Clayey soils, generally less than 10 ft thick, commonly composed of weathered shale, characterized by shaly, slow to moderate, downward movement that can be easily accelerated by saturating fine fills or overburden.

RELATIVELY STABLE GROUP
 Most shaly, little susceptible to landsliding; unless extremely bedded; in some light soil cover, movement is undisturbed.

STEEP SLOPES SUSCEPTIBLE TO ROCKFALL
 Generally thick-bedded sandstone and limestone, 1 to over 10 ft thick; substrate is sandy shale; shaly fractured and locally covered by weathering of shale in steep natural and old streambed cliffs, 15 to over 150 ft high.

Base by U.S. Geological Survey, 1969.
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This map is preliminary and has
 not been edited for conformity
 with Geological Survey standards
 and procedures.

**LANDSLIDE SUSCEPTIBILITY MAP OF PART OF THE MONONGAHELA RIVER QUADRANGLE
 ALLEGHENY COUNTY AND VICINITY, PENNSYLVANIA**

by
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U.S. Geological Survey
 OPEN FILE MAP 74-281
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SCALE 1:24,000
 CONTOUR INTERVAL 20 FEET
 1 IN. = 2,000 FEET
 1 CM. = 200 METERS