



EXPLANATION
Additional information is contained in a booklet accompanying this map.

RECENT LANDSLIDES
Distinctly earth slumps and earth flows; historic landslides or those characterized by earth scars. Small landslides enclosed by triangles.

PREHISTORIC LANDSLIDES
Distinctly earth slumps and earth flows; historic landslides or those characterized by earth scars. Small landslides enclosed by triangles.

SLOPES WITH CONSPICUOUS SOIL CREEP
Clayey soils, generally less than 5 ft. thick, commonly underlain by weathered shale; characterized by shallow, slow but distinct, downslope movement that can be easily accelerated by overloading from fills or structures.

RELATIVELY STABLE GROUND
Most slopes have little or no susceptibility to landsliding unless intensively modified by man; slight soil creep common on undisturbed slope.

STEEP SLOPES SUSCEPTIBLE TO ROCKFALL
Dip-slip, thick-bedded sandstone and limestone, 1 to over 10 ft. thick; sub-surface flaky sandy shale and weathered shale; highly fractured and locally undercut by weathering of shale; in steep natural and cut slopes and cliffs, 15 to over 150 ft. high.

MAN-MADE FILL
Heterogeneous soil and rock material; variable susceptibility to slope failure depending on nature of materials, foundation conditions, design and construction. Fills in older urban areas mapped only where associated with recent landslides. Fills too small to be shown by letter "F".

AREA OF RILLS
Numerous rills or gullies in rounded hills of highly erodible sandstone and siltstone. The eroding sandstone most exposed, rapidly leading to small slides. Rills are more numerous on west side of hills.

NOTE
Variations in slope sensitivity may occur at any specific point within a unit. Boundaries largely are inferred and information given is intended as a general guide and should not be construed as applicable to all localities within the area shown. This map cannot be used as a substitute for detailed engineering investigations of specific sites.

Based on U.S. Geological Survey, 1969.
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U.S. Geological Survey
OPEN FILE MAP 74-277
This map is preliminary and has
not been edited for conformity
with Geological Survey standards
or nomenclature.

**LANDSLIDE SUSCEPTIBILITY MAP OF PART OF THE DONORA 7 1/2' QUADRANGLE,
ALLEGHENY COUNTY AND VICINITY, PENNSYLVANIA**

by
William E. Davies

Map based on 1973 aerial photographs,
field reconnaissance, 1973-74; soil
surveys by U.S. Dept. Agriculture Soil
Conservation Service, and existing geo-
logic data. This map has not been
edited or reviewed for conformity with
Geological Survey standards and nomenclature.