



ACTIVE OR RECENTLY ACTIVE LANDSLIDE Complex landslide composed of earthflow, debris slide, earth and rock slump. Identified from historical records, and from scars, debris and other field evidence. Ground extremely unstable; sliding accelerated by excavation, loading and changes in drainage conditions. May include areas with several active slides too small to be shown separately. Questioned where doubtful.



LANDSLIDE Area of extensive hummocky ground caused by earthflow and earth and rock slump. Lacks clear evidence of active sliding. Relatively stable in natural, undisturbed state, generally not affected by small structures properly sited in areas away from the edge of the toe; can be reactivated by extensive, rapid excavation, loading, and changes in ground water and surface water conditions. Area of old landslide probably includes recent ches not identified from field evidence or otherwide documented. Upslope boundary of landslide generally defined by modified scarp, but downslope (toe) may be gradational and not well defined. Questioned where doubtful.



COLLUVIAL SLOPE Valley wall along major streams with slope as steep as 40° (85%); stony, clayey silt soil up to 50 ft. (15 m) thick; commonly buttressed by a terrace or bench at the toe of the slope; very susceptible to sliding by cutting of toe area, removal of terrace or bench, and overloading; landslide commonly activated without apparent cause.



debris avalanche.

AREAS SUSCEPTIBLE TO DEBRIS FLOWS AND DEBRIS AVALANCHES Primarily shallow, narrow ravines and chutes with accumulation of stony colluvium generally 10 ft. (3 m) or less in thickness; susceptible to rapid movement during intense rainfall. Most ravines designated show evidence of former debris flows and avalanches. Symbol - designates historical debris flow or



AREAS SUSCEPTIBLE TO ROCKFALL Steep, locally vertical, natural and man-made slopes and cliffs, 15 ft. (4.5 m) or higher. formed dominantly of sandstone, limestone, sandy shale, mudstone and claystone. Interbedded mudstone, claystone and shale weather rapidly leaving sandstone and limestone rock faces unsupported.



COVE UNDERLAIN BY CLAY LAYER Rounded or U-shaped valley with steep concave slope of valley floor (coves) and valley heads underlain by clayey soils forming a coherent layer generally 8 ft. (2.5 m) or less in thickness. Zone of water commonly at the base of the clay layer is under 2 to 8 ft. (0.6 -2.5 m) artesian head. Clay soil is underlain by claystone and shale. Clay slab moves as a coherent mass up to 1 ft. (0.3 m) per year; very susceptible to more rapid sliding whem overloaded by fill or structure and by excavations that break the continuity of slope. Recent soil slips (earth flows) as much as 40,000 square feet (3,700 square meters) in size are common.



SOIL AND ROCK SUSCEPTIBLE TO LANDSLIDING Soil and rock similar to that involved in landslides elsewhere in map area; primarily areas underlain by claystone, mudstone and shale associated with other rock types. Rock weathers rapidly on exposure forming clayey soil highly susceptible to sliding.

AREAS LEAST PRONE TO LANDSLIDES Map areas in which no patterns or symbols are shown; primarily valley floors, ridge tops and broad benches; modification by excavation and fill may lead to local landslides.

The first five digits of the open file number designate the specific 1:250,000 scale map sheet of which this quadrangle is a part. The last two digits designate the position of the quadrangle in a subdivision of the 1:250,000 scale map based on rows and tiers shown in the diagram to the right. The location of this quadrangle is shown by the black square.

the description is applicable to a series of maps.

MAN-MADE FEATURES Strip mines (combination of letter symbols indicates complex formed of more than one type of strip mine) sh bench with high wall

furrowed with high wall

multiple furrows and multiple benches

srg reclaimed by grading

sru reclaimed by secondary use

sh/r regraded in part, high wall

identified on aerial photographs;

remains Coal refuse banks

not classified in field check not burnt nor on fire

rbd burning

rbs sludge

82°W

Quarries quarry site

spoil bank, quarry waste

Gravel pits : site of gravel pit

Slides in man-made features

a/f earth flow in fill

a/s earth flow in strip castings

a/r earth flow in coal refuse CANTON 1° x 2° MAP SHEET 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 . 80°W 40°N



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Adamsville, OH

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