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UTM GRID AND 1973 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10 FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
Primary highway, all weather, Light duty road, all weather, hard surface, improved surface
Secondary highway, all weather, Unimproved road, fair or dry hard surface, weather

U.S. Route State Route

NEW HAVEN, W. VA. - OHIO
N38525-W81925/7.5

LANDSLIDES AND RELATED FEATURES

OF THE NEW HAVEN, W. VA. - OHIO QUADRANGLE
by
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OPEN FILE MAP 83-80 (1:250,000)

NOTE
Information shown is intended as a general guide to ground conditions as of the date of field check. Additional landslides and rockfalls should be anticipated in all map units. The map unit depicts the dominant condition in the area delineated and variations in slope stability may occur at any point in the unit. This map is suitable for general planning purposes and as a supplement to more detailed studies for site selection. The map cannot be used as a substitute for detailed geologic and engineering investigations to establish design and construction criteria of specific sites. Some symbols may not appear on this map because the description is applicable to a series of maps.

Landslides and related features interpreted from aerial photographs:
1:60,000 SCALE BLACK AND WHITE 1960
1:125,000 SCALE COLOR INFRARED 1973
1:80,000 SCALE BLACK AND WHITE 1975

Photointerpretation and field check 1978. This map has not been edited or reviewed for conformity with Geological Survey standards and nomenclature.

- 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.
- OLD 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 ones not identified from field evidence or otherwise documented. Upstope boundary of landslide generally defined by modified scarp, but downslope (toe) may be gradational and not well defined.
- 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, slide commonly activated without apparent cause.

- 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 and chutes designated show evidence of former debris flows and avalanches. Symbol 2 designates historical debris flow or debris avalanche.
- AREAS SUSCEPTIBLE TO ROCKFALL**
Steep, locally vertical, natural and man-made slopes and cliffs, 15 ft. (4.5 m) or more high; formed dominantly of sandstone, limestone, sandy shale, mudstone and claystone. Interbedded mudstone, claystone and shale weather rapidly leaving sandstone and limestone rock faces unsupported.
- 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. Includes coves (U-shaped, shallow valleys) containing thick layers of clayey soil that are very susceptible to sliding where excavation breaks continuity of slope and where overloaded by artificial fill.
- 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.

- MAN-MADE FEATURES**
Strip mines (combination of letter symbols indicates complex formed or more than one type of strip mine)
- sh bench with high wall
 - sf furrowed with high wall
 - sd multiple furrows and multiple benches
 - ss hilltop removed
 - srg reclaimed by grading
 - sru reclaimed by secondary use
 - sh/r regraded in part, high wall remains
 - Coal refuse banks identified on aerial photographs; not classified in field check
 - r not burnt nor on fire
 - rb burnt
 - rbb burning
 - rbs sludge
 - Quarries
 - q quarry site
 - Gravel pits
 - g site of gravel pit
 - Slides in man-made features
 - af earth flow in fill
 - a/s earth flow in strip castings
 - a/r earth flow in coal refuse

The first three 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.

