



- EXPLANATION**
Additional information is contained in a leaflet accompanying this map.
- MINERAL INDUSTRY MODIFICATIONS**
- SM**
SURFACE MINES
Primarily surface mines, some of which are open-pit mines, and some are underground mines.
 - SB**
SURFACE BARS
Modified surface bars, some of which are open-pit mines, and some are underground mines.
 - SE**
SURFACE EXCAVATIONS
Primarily surface excavations, some of which are open-pit mines, and some are underground mines.
 - ME**
MINE EXCAVATIONS
Areas in which mine patterns are indicated by mine symbols, and in part on 1959 aerial photographs.
 - RB**
REFILL BARS
Primarily surface bars, some of which are open-pit mines, and some are underground mines.
 - Q**
QUARRIES AND PITS
Active and abandoned rock quarries and gravel pits.
 - E**
OTHER EXCAVATIONS
Primarily borrow pits.
- LAND DEVELOPMENT MODIFICATIONS**
- H**
URBAN DEVELOPMENT
Land modified for housing, commercial, educational, and industrial uses. Modifications, primarily after 1969, include: removal of vegetation; removal and redistribution of topsoil; some excavation of bedrock at industrial and commercial developments; and placement of impervious streets and parking lots. Major fills symbolized separately.
 - M**
PREDEVELOPMENT MODIFICATION
Primarily removal of vegetation and removal and redistribution of topsoil; ultimate land use not identified during investigation.
 - F**
EARTH AND ROCK FILLS
Primarily of industrial, commercial, educational, and housing sites and along transportation routes; old fills in urban areas and narrow yard fills adjacent to houses generally not mapped.
 - NV**
NEARLY VERTICAL CUTS AND CLIFFS
Primarily cuts along highways and adjacent to commercial and industrial sites; includes highwalls in surface mines and some natural cliffs.
 - W**
OTHER MODIFICATIONS
WATER IMPOUNDMENTS
Primarily farm ponds, reservoirs, and settling basins; dams generally too small to be shown on this map.

Base by U.S. Geological Survey, 1969.
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Map based on 1973 aerial photographs
and field reconnaissance, 1973-74.
This map has not been edited or
revised for conformity with Geological
Survey standards and nomenclature.
Additional data from 319th Engineer
Detachment (Hydrology) U.S. Army
Reserve, 1973-74.

**MAP OF LAND MODIFIED BY MAN IN PART OF THE CURTISVILLE 7 1/2' QUADRANGLE,
ALLEGHENY COUNTY AND VICINITY, PENNSYLVANIA**

by
William E. Davies

U.S. Geological Survey
OPEN FILE MAP 74-288
This map is preliminary and has
not been edited for conformity
with Geological Survey standards
or nomenclature.

Pennsylvania (Curtisville quad) Modified Land. 1:24,000, 1974