

Map of Land Modified by Man

U. S. Geological Survey

OPEN FILE MAP 74-119

EXPLANATION

This map is preliminary and has not been edited for conformity with Geological Survey standards or nomenclature.

MINERAL INDUSTRY MODIFICATIONS

SM

SURFACE (STRIP) MINE, NOT RECLAIMED

Primarily coal but includes some developed for sandstone and limestone; highwall indicated by hachured line.

Sub

MINE SUBSIDENCE

Areas in which surface patterns are indicative of mine subsidence (based in part on 1939 aerial photographs)

MF

MINE AND COAL BED FIRES

Includes areas of active, controlled, and extinguished fires; fires generally confined to vicinity of outcrop of coal seam (c~~o~~op fires). (Based on data from U.S. Bureau of Mines)

RB

REFUSE BANKS

Primarily coal waste; most banks have burned and are now ash and clinkers (red dog).

Glenn Shuler

Primarily coal waste; most banks have burned and are now ash and clinkers (red dog).

(7/16/54)



QUARRIES AND PITS

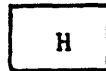
Active and abandoned rock quarries and gravel pits.



OTHER EXCAVATIONS

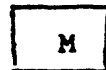
Primarily borrow pits.

LAND DEVELOPMENT MODIFICATIONS



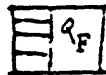
URBAN DEVELOPMENT

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.



PREDEVELOPMENT MODIFICATION

Primarily removal of vegetation and removal and redistribution of topsoil; ultimate land use not identified during investigation.



EARTH AND ROCK FILLS

Primarily at 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. Fills too small to be shown by pattern identified by letter "F"



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.

OTHER MODIFICATIONS



WATER IMPOUNDMENTS

Primarily farm ponds, reservoirs, and settling basins; dams generally too small to be shown on the map.



GULLIED LAND

Primarily on cleared slopes and unprotected faces of fills.