



EXPLANATION

Area undermined of both Pittsburgh and Upper Freeport coal prior to June 30, 1974

Generalized area possibly undermined  
In the northern part of the map, surface subsidence resulting from underground mining is reported to have damaged one man-made structure. Location from Department of Planning and Development, County of Allegheny.

Coal remaining in place on July 1, 1974

Pittsburgh coal bed--Remaining coal is shown by irregular stippled pattern south of the Ohio River and west of the Monongahela River. Elsewhere on the map, a few small hilltop areas for which there is no record of underground mining are not stippled and are bounded by outcrop lines without ticks.

Upper Freeport coal bed--Discrete areas of remaining coal within larger mined-out areas are shown by irregular stippled pattern. Larger areas of remaining coal are not stippled to avoid map clutter, but are clearly bounded by coal outcrop lines (in northeastern part of map), approximate limits of mineable coal (toothed line), mined-out areas, and western and northern county boundaries.

MF

Mine and coal bed fires

Includes areas of active, controlled, and extinguished fires; generally confined to vicinity of coal bed outcrop (crop fires). Based on data from U.S. Bureau of Mines.

RB

Refuse banks

Primarily waste composed of coal and coally shale; includes some waste deposits from coal cleaning plants; many banks have burned and are now largely ash and clinkers (red dog).

SD

Slag Dump

Waste from steel-making industry

Areas of probable past surface subsidence resulting from undermining (mine subsidence)

An interpretation of surface patterns visible in pastures and cultivated areas on 1939 and 1973 aerial photographs. Patterns commonly are not discernible in urbanized or forested areas.

SM(P) SM(R) SM(PR) SM(UF)

Strip mines, including both excavations and overburden dumps

SM(P) - Pittsburgh coal bed strip mine.

SM(R) - Redstone coal bed strip mine.

SM(PR) - Pittsburgh and Redstone coal bed strip mines, undivided.

SM(UF) - Upper Freeport coal bed strip mine.

Contact and boundary lines are approximate

P

Outcrop of coal bed

P - Pittsburgh coal bed

UF - Upper Freeport coal bed

Approximate limit of mineable

Upper Freeport coal bed

Teeth on side of coal that is mineable assuming current mining techniques and equipment. Adapted from Bushnell and Peak (1975).

Area undermined of Pittsburgh coal prior to June 30, 1974

Ticks on mined side. Data from Pennsylvania Division of Mine Subsidence Regulation.

Area undermined of Upper Freeport coal prior to June 30, 1974

Ticks on mined side. Data from Pennsylvania Division of Mine Subsidence Regulation.

Cliff or steep rock wall resulting from strip mining (high wall)

Ticks on downlope side. Not shown in areas of continuing surface mining, chiefly in westernmost part of map.

Vertical shaft Tunnel or inclined shaft

Principal entries to important underground mines active in 1974

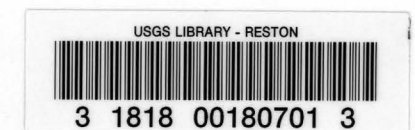
SCALE 1:50,000

1 2 3 4 5 MILES  
1 2 3 4 5 KILOMETRES  
CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

MAP OF COAL-MINING FEATURES, ALLEGHENY COUNTY, PENNSYLVANIA

By  
William E. Davies, John S. Fomeroy, and William R. Kohl  
1976

For sale by U.S. Geological Survey, price \$1.00 per set



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MF  
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