DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
APPALACHIAN REGIONAL COMMISSION

LAND USE and LAND COVER in the GREATER PITTSBURGH REGION, PA.

1973

Scale 1:125,000

By James R. Wray

Gazetteer, Index to Place Names

Name of Borough, City, Township, Other Settlement	UTM Coordinates of Place Name, 1cm North, East
Adams township	4507–582
Allegheny township, Butler Co.	4506–603
Allegheny township, Westmoreland Co.	4496–613
Aleppo township	4490–572
Aliquippa borough	4496–565
Allison Park borough	4470–561
Amwell township	4437–566
Arnold city	4492–604
Aspinwall borough	4485–592
Avonmore borough	4487–629
Baden borough	4503–588
Bakerstown Station	4470–586
Baldwin borough	4505–568
Beaver borough	4511–557
Beaver Falls city	4493–566
Bell Acres township	4484–625
Bell township	4484–625
Bellevue borough	4481–583
Bentleyville	4441–589
Bethel township	4507–621
Bethel Park township	4464–581
Big Beaver	4519–551
Blaine township	4449–550
Blaine Hill	4458–596
Blairsburg	4483–595
Blawnox borough	4483–595
Bower Hill	4527–632
Braddock	4503–566
Borough township	4473–657
Bolivar borough	4460–600
Boston	4469–577
Bower Hill	4469–577
Braddock	4506–665
Brackenridge borough	4496–665
Braddock borough	4472–596
Brady	4542–578
Brady township	4539–581
Brady's Bend township	4538–611
Brentwood borough	4470–586
Bridgeville borough	4506–557
Bridgewater borough	4506–557
Brighton township	4505–551
Brightwood	4466–581
Brookline	4471–583
Brownstown, Washington Co.	4459–542
Brownstown, Westmoreland Co.	4465–606
Brownsville borough	4460–577
Bryn Mawr	4492–577
Buffalo township, Butler Co.	4507–605
Buffalo township, Washington Co.	4443–554
Burgettstown	4470–549
Burrell township	4503–588
Butler city	4507–589
Butler township	4525–589
Cadogan township	4512–619
California township	4434–591
Callery borough	4510–581
Canonsburg borough	4457–568
Canton township	4451–550
Carbon	4473–572
Carnegie borough	4469–566
Carroll	4488–590
Carroll township	4448–590
Castle Shannon borough	4469–563
Cecil township	4462–566
Center township, Beaver Co.	4511–589
Center township, Butler Co.	4531–589
Centerville	4431–586
Chalfant	4443–594
Charleroi borough	4455–561
Charlerois township	4455–561
Chicora borough	4534–605
Churchill borough	4477–597
Churchill township	4477–597
Churchill Valley	4479–598
Clairdge	4469–617
Clairton city	4460–594
Clay township	4537–589
Claysville borough	4440–501
Clinton township	4507–597
Clinton township	4507–597
Collier township	4473–572
Concord township	4537–597
Connoquenessing borough	4519–582
Connoquenessing township	4523–580

Gazetteer, continued to following column

Gazetteer, continued from preceding column

Cook township	4446–643
Cooperstown	4508–590
Coraopolis borough	4484–587
Cowansville	4464–583
Cowanshurg	4457–608
Cowansshannock township	4516–639
Crabtree	4469–630
Crafton borough	4476–579
Cranberry township	4507–574
Crescent township	4484–588
Cross Creek township	4460–568
Darlington	4518–548
Darlington township	4519–543
Daugherty township	4511–560
Dayton borough	4527–648
Deemston township	4430–582
Delmont borough	4461–631
Dentmont	4461–631
Derry borough	4466–645
Derry township	4471–640
Dock Hollow	4506–612
Donegal township, Butler Co.	4531–604
Donegal township, Washington Co.	4441–543
Donegal township, Westmoreland Co.	4486–599
Donora borough	4448–590
Dormont borough	4472–581
Dorseyville	4492–594
Duquesne city	4469–596
East Bethlehem township	4421–583
East Butler borough	4507–593
East Deer township	4494–603
East Finley township	4434–550
East Franklin township	4524–619
East Huntingdon township	4445–616
East Liberty	4479–591
East Manchester borough	4499–622
East Vandergrift borough	4499–622
East Washington borough	4446–566
Eastvale borough	4513–558
Eau Claire borough	4555–601
Economy township	4499–567
Edgewood borough	4476–594
Edgeworth borough	4476–594
Elizabeth	4508–594
Elizabeth township	4456–597
Ellsworth borough	4479–584
Elwood Park	4445–562
Emsworth	4486–603
Etna borough	4494–588
Evans City borough	4475–614
Exchange township,Westmoreland Co.	4475–614
Fairfield township, Washington Co.	4465–653
Fairview borough	4479–593
Fairview township	4541–606
Fairview township	4539–604
Fairview Heights	4486–595
Fallowfield township	4509–565
Fawn township	4505–605
Finleyville borough	4456–585
Findlay township	4480–559
Five Points	4473–625
Forbes Road	4466–603
Ford City borough	4514–624
Forest Hills borough	4485–591
Forward township, Allegheny Co.	4485–591
Forward township, Butler Co.	4514–592
Fox Chapel township	4485–593
Franklin township, Beaver Co.	4520–560
Franklin township, Butler Co.	4530–581
Franklin township, Westmoreland Co.	4479–612
Frazer township	4476–571
Fraser township	4505–601
Fredericktown	4428–586
Freeport borough	4505–610
Frisco	4525–562
Garden City	4479–587
Gibsonia	4475–587
Glade township	4505–616
Glassport borough	4464–594
Glenshaw	4487–586
Glenwood city	4473–590
Greene	4493–543
Green Tree borough	4475–583
Greensburg	4462–651
Greenville township	4493–587
Hanover township, Washington Co.	4474–544
Hanover township, Beaver Co.	4485–544
Harbor	4489–596

Gazetteer, continued to following column

Gazetteer, continued from preceding column

Harmony township, Beaver Co.	4496–565
Harmony borough, Butler Co.	4517–574
Harrison township	4498–608
Harrison City	4468–614
Harrisville borough	4471–577
Heidelburg borough	4471–577
Hempfield township	4457–617
Herman	4520–600
Herminie	4457–610
Homestead	4484–588
Homestead borough	4478–592
Hookstown	4519–598
Hopewell township, Beaver Co.	4503–559
Hopewell township, Washington Co.	4453–549
Hovey township	4502–610
Independence township, Beaver Co.	4487–555
Independence township, Washington Co.	4443–544
Indiana township	4491–594
Industry township	4500–548
Ingomar	4492–579
Irwin borough	4464–610
Jackson township	4514–574
Jeanette city	4465–617
Jefferson, Allegheny Co.	4514–597
Jefferson township, Butler Co.	4514–597

Gazetteer, continued to following column

Gazetteer, continued from preceding column

Jefferson township, Washington Co.	4464–542
Kerns City borough	4539–607
Kennedy township	4481–575
Kilbuck township	4485–575
Kiskiminetas township	4493–625
Kittanning borough	4520–624
Kittanning township	4521–617
Koppel borough	4525–557
Laboratory	4445–567
Lancaster township	4522–573
Latrobe borough	4463–637
Laughlintown	4431–595
Leechburg borough	4491–625
Leet township	4497–573
Liberty borough	4464–594
Ligonier borough	4456–651
Ligonier township	4453–649
Lincoln borough	4463–595
Lincoln Heights	4492–588
Locust	4469–583
Long Branch township	4419–594
Lower Burrell city	4493–608
Loyalhanna township	4480–629
Lyndora	4522–590
Madison township	4535–627
Maple Heights	4501–601
Mapleton	4535–637
Malden Place	4432–591
Manor township	4513–625
Marion township, Beaver Co.	4515–566
Marion township, Butler Co.	4552–588
Mars borough	4505–584
Marshall township	4492–583
McCandless township	4492–583
McKeesport city	4466–597
McKees Rocks borough	4479–578
Meadow Lands	4452–566

Gazetteer, continued to following column

Gazetteer, continued from preceding column

Mercer township	4552–582
Middlesex township	4507–589
Midland borough	4499–545
Millsboro	4436–584
Monaca borough	4503–561
Monessen city	4445–594
Monongahela city	4467–603
Monroeville township	4475–603
Moon township	4484–566
Morris township	4432–550
Mount Lebanon township	4469–579
Mount Oliver borough	4473–596
Mount Pleasant, Westmoreland Co.	4444–624
Mount Pleasant township, West. Co.	4452–626
Mount Pleasant township, Wash. Co.	4462–566
Muddycreek township	4530–573
Munhall borough	4477–592
Murrysville	4476–611
Natrona	4496–607
Natrona Heights	4498–606
New Alexandria borough	4473–634
New Alexandria borough	4473–634
New Brighton borough	4509–568
New Eagle borough	4451–590
New Florence borough	4471–664
New Galilee borough	4507–601
New Kensington city	4491–605
New Sewickley township	4452–618
New Stanton	4453–618
North Belle Vernon borough	4442–596
North Bessemer	4483–597
North Bethlehem township	4438–574
North Braddock borough	4473–596
North Fayette township	4471–594
North Franklin township	4443–562
North Huntingdon township	4442–604
North Sewickley township	4522–561

Gazetteer, continued to following column

Gazetteer, continued from preceding column

North Sewickley township	4517–559
North Side	4479–584
North Strabane township	4453–568
North Versailles township	4469–599
North Washington	4543–599
Norvelt	4451–628
Oakdale township	4472–569
Oakdale	4472–569
Oakland, Allegheny Co.	4477–588
Oakland township, Butler Co.	4530–596
Oakmont borough	4486–598
O'Hara township (E pt)	4484–595
O'Hara township (W pt)	4486–590
Ohioville	4496–641
Olivesville township	4494–641
Old Concord	4428–557
Parker township	4547–604
Parker City city	4550–610
Parks township	4505–628
Patterson township	4512–596
Penn township, Butler Co.	4514–589
Penn township, Westmoreland Co.	4470–612
Penn township, Butler Co.	4514–589
Perry township	4543–611
Peters township	4458–577
Petrolia borough	4541–608
Phillipsburg	4435–595
Pine township, Allegheny Co.	4500–591
Pine township, Armstrong Co.	4530–631
Pittsburgh city	4478–587
Pleasant Hills borough	4460–587
Plum township	4480–605
Portersville township	4509–638
Portersville borough	4509–638
Prospect borough	4528–579
Pulaski township	4509–559

Gazetteer, continued to following column

Gazetteer, continued from preceding column

Raccoon township	4494–551
Rankin borough	4474–595
Raybarn township	4520–626
Rector	4450–650
Redbank township	4537–645
Reserve township	5582–584
Richhill	4499–566
Richland township	4499–566
Robinson, Washington Co.	4473–556
Robinson township, Allegheny Co.	4475–571
Rochester borough	4506–560
Rochester township	4507–560
Ross township	4487–581
Rostraver township	4446–599
Rural Valley	4444–619
Rural Valley borough	4518–642
St. Clair township	4469–663
Sandy Plains	4427–583
Salem township	4474–625
Saxonburg	4511–600
Scott township	4472–578
Scott township	4472–578
Scottdale	4479–600
Seward borough	4475–668
Sewickley borough, Allegheny Co.	4488–568
Sewickley township, Westmoreland Co.	4454–607
Sewickley Heights township	4491–570
Shadeland township	4496–586
Shaler township	4484–586
Shaner Heights	4528–592
Sharpsburg borough	4483–590
Shaublburg	4472–633
Silverville	4509–608
Slippery Rock borough	4540–580
Slippery Rock township	4541–580
Smith township	4469–552
Smithton borough	4445–607

Gazetteer, continued to following column

Gazetteer, continued from preceding column

Somerset township	4482–577
South Beaver township	4512–544
South Bend township	4498–632
South Buffalo township	4509–613
South Fayette township	4468–569
South Franklin township	4438–569
South Huntingdon township	4447–606
South Park township	4461–584
South Strabane township	4447–568
South Versailles township	4461–602
Speers borough	4481–595
Springdale borough	4498–641
Springdale township	4498–641
Stonevilla	4462–626
Stowe township	4462–578
Sugarcreek	4531–613
Summit township	4525–597
Sutersville borough	4455–603
Swissvale borough	4476–584
Tarentum borough	4495–604
Thompsonville	4460–576
Union township	4454–585
Unionville	4533–587
Unity, Allegheny Co.	4482–604
Unity township, Westmoreland Co.	4460–630
Upper St. Clair township	4465–576
Upper St. Clair township	4465–576
Valley township	4520–633
Vandergrift borough	4494–620
Venango township	4554–595
Venetia borough	4483–599
Venetia borough	4483–599
Washington city, Washington Co.	4447–563
Washington township, Armstrong Co.	4531–620
Washington township, Butler Co.	4547–595
Washington township, Westmoreland Co.	4484–616
Wayne township	4527–662
Wendel	4438–543
West Alexander borough	4438–543
West Bethlehem township	4432–575
West Brownsville borough	4430–592
West Deer township	4497–594
West End	4477–581
West Finely	4427–586
West Franklin township	4522–612
West Franklin township	4522–612
West Kittanning borough	4518–624
West Leechburg	4539–578
West Library	4460–583
West Mayfield borough	4515–593
West Mifflin	4471–594
West Mifflin township	4471–594
West Newton borough	4451–606
West Pike Run township	4438–585
West Sunbury borough	4539–593
West View borough	4486–581
Westmoreland City	4464–612
Wexford	4487–580
Whitaker	4477–594
Whitehall borough	4467–584
White Oak borough	4466–601
Wickerham Manor	4466–592
Wilkins township	4476–599
Wilmerding borough	4477–594
Wilmerding borough	4477–594
Windber	4472–601
Woodville	4470–578
Worth township	4538–573
Worthington borough	4521–614
Wylandville	4449–574
Youngwood borough	4455–621
Yukon	4452–612
Zelienople borough	4515–572

Explanation, Land Use and Land Cover

The Greater Pittsburgh Region, comprised of six Pennsylvania counties (Allegheny, Armstrong, Beaver, Butler, Washington, and Westmoreland), was ravaged by Hurricane Agnes in June 1972. As an aid to Appalachian Regional Commission and local planners in reducing possible future damage from such cause, this land use and land cover inventory was compiled. It is also one prototype product of experiments using remotely-sensed data. Hence, it is based on interpretation of high altitude color infrared aerial photographs acquired by National Aeronautics and Space Administration in March and September 1973. The Pittsburgh map accompanies a topographic map of the same area at the same scale (USGS, 1971). It also shows in color on one sheet all of the land use information and some of the census areas information open filed earlier in two sets of 26 black-and-white sheets at 1:50,000 (USGS, 1970a,b). An earlier land use map of the Pittsburgh region was prepared at the same scale (Southwestern Pennsylvania Regional Planning Commission, 1967). Classes on the two maps are similar, but variations in mapping and area measurement procedures—and the short time span involved—confound efforts to interpret all differences solely as the results of land use change. A separate analysis of land use conversion, 1969 to 1973, in the central urbanized area, Allegheny County (USGS, 1976c), is summarized in the lower corner of this map.

Residential, single-family	11
Residential, multi-family	11a
Commercial and services, incl. institutional	12
Industrial	13
Extractive industry	14
Transportation	15
Open and other, incl. park, cemetery	19
Cropland and pasture	21
Other agriculture	22/24
Forestland	40
Water	50
Land use in transition	70

For all the classes shown, the smallest unit of mapping is about 4 hectares (9.88 acres). The classes and codes are from those proposed by Anderson and others (1972). The residential class was subdivided to gain helpful distinction in new growth areas, but the resultant interpretation in older urban centers underrepresents multi-family use of structures originally built for single-family occupancy. Cemeteries, too—whether included or excluded in analysis of urban open space—are underrepresented because the majority are under 4 hectares; many are shown on the topographic map. A limited field check was made by the compilers.

Explanation, Base Map

Point and line symbols which aid orientation and/or connote additional land use information are selected from those appearing on USGS topographic map of Greater Pittsburgh Region, 1:125,000, 1971. They have not been updated or reviewed. Many additional point, line, and area symbols are shown on the topographic map covering the same area at the same scale.

- Primary highway, interchange, overpass
- Secondary highway or through street, underpass
- Road bridge over water land cover symbol
- Railroad, single track, multiple track
- Strip mine, mine
- Mine shaft or adit, gravel pit
- Oil or gas well, water tank
- Pipeline
- Powerline
- State boundary, name
- County boundary, name
- Municipal boundary, name
- Urbanized Area boundary, 1970 Census
- Land use or land cover polygon boundary

Geographic coordinates, 7½-minute quad corner. Indexes USGS topographic maps at 1:24,000. Coordinate values and tick marks are labeled at neatline. — 41° N, 79° W

Universal Transverse Mercator rectangular grid, UTM Grid Zone 17, grid interval 5- and 10-kilometers. Indexes place names, census tract centroids, and open filed sectional maps. — 4420

UTM Coordinate values at neatline are repeated on the map for reference when map is used partly folded, as in a car. USGS Coordinate Reader CR-2 includes scales for reading UTM coordinates to 0.1 km at 1:125,000.

Scale 1:125,000 One centimeter represents 1.25 kilometer.
One inch represents approximately 2 statute miles.

1 0 1 2 3 4 5 KILOMETERS
1 0 1 2 3 MILES

For estimating large distances and areas in both Metric and English units, use map grid:

5 x 5 km.=25 sq. km.=2500 ha. (100 m. 241 a. one sq. km. 247 a.)

3.11 x 3.11 mi.=9.66 sq. mi.=6175 a. (640 a. (acres) 259 ha. one sq. stat. mi.)

One square kilometer equals 100 hectares (ha), also called square hectometers

Declination Diagram

There are three Norths on this map. The vertical grid lines are parallel to each other and represent Grid North, UTM Grid Zone 17. True North is represented by the two meridians which define the east and west edges of the neat frame; they are not parallel but converge toward the North Pole. Other True North lines, according to the map projection, can be constructed by connecting other pairs of tick marks at the north and south margins having the same UTM coordinate values. Magnetic North, indicated by the compass needle, Magnetic North is detected by a compass, and may change with time. In the Pittsburgh region, this change is about 4.3 minutes West per year. Grid North and Magnetic North nearly always decline from True North, and are usually diagrammed that way. However, the design of this map encourages use of rectangular coordinates and Grid North in geo-information systems and other applications. Declinations for the Pittsburgh region in 1973 of True North and Magnetic North are shown with respect to Grid North. At approximate mid-latitude, 40°30' N, the declination of True North varies from 0°22' (7 mils) W of Grid North near the western edge of the area mapped, to 1°08' (20 mils) W near the eastern edge. Magnetic declination (1973) varies from 5°40' (99 mils) W of Grid North near the western edge of the area mapped, to 6°30' (114 mils) W near the eastern edge. Values for declination computed between UTM coordinate pairs must take these declinations into account when they are to be related to True North or Magnetic North. Topographic maps of the same area also index the Pennsylvania state rectangular coordinate system, north and south zones, each with its own Grid North.

GN
TN 0°45' W 13 mils
MN 8°30' W 117 mils

Declination Diagram:
Declination of True North and Magnetic North (1973) from UTM Grid Zone 17 (Grid North).
Angles drawn larger than values.

Land Use and Land Cover Conversion, 1969-1973, Allegheny Co., Pa.

Number of Hectares, by Land Use Class

Land Use Class.	Built-up Area, 1973				Trans.	Open Space, 1973						Total Area Gained by 1973
	Residential	Com. Serv.	Industrial	Transport	Extract. Indus.	Open, other	Crop, Pasture	Other Agr.	Forestland	Water		
Class code	11, 11a	12	13	15	14	19	21	22–24	40	50		
Built-up Area, 1969 — Residential	—			3	5	5			15		32	
Com. Services		15							4		4	
Industrial			—	12							12	
Transportation				15							0	
Extract. Ind.	4	23		173		12			155		194	
Open, Other	5	12			—						17	
Crop., Pasture	329	45	33	32	118	5	109		27		589	
Other Agr.						23	6	29			52	
Forestland	731	236		237	211	3	11	362	—		1,428	
Water										—	0	
Lost from 1969	–1,069	–316	–33	–284	–334	–10	–38	–11	–234	0	–2,329	
Gained by 1973	+32	+4	+12	0	+194	+17	+589	+52	+1,429	0	+2,329	
Net difference	–1,037	–312	–21	–284	–140	+7	+551	+41	+1,195	0	0	
In Transition	—	10	—	19	173	—	105	6	382	—	697	

Between 1969 and 1973, land use and land cover of 354 polygons (or parts of polygons in different census tracts) converted from one class to another. They represent 2,329 hectares, or 1.21 percent of the Allegheny County total land and water area. Another 697 polygons were undergoing change, representing another 697 hectares, or 0.36 percent. Thus, a total of 3,026 hectares, or 1.57 percent, of this urbanized and suburban county were involved in land use change during that particular four-year period. Besides urban expansion, other significant changes were the direct conversion of agricultural land to forest, and the temporary conversion of land to open space in the gasoline fuel crisis. The extent of such change suggests great volatility in one major metropolitan center in the northern part of the Appalachian Region elsewhere found to be undergoing economic decline and population out-migration (Appalachian Regional Commission, 1977).

The accompanying table, summarized from the open filed maps (USGS, 1976c), highlights in yellow the diagonal rows of cells representing land cover in transition at both times. The block of cells tinted light-green represents cells of built-up area remaining in built-up area use. The block of cells tinted light-mage represents cells of built-up area reverting to open space use. The block of cells tinted light-yellow represents conversions within the urban area. Both of these blocks represent less likely changes because they imply replacement or withdrawal of the investment in urban land use. The urban series urban area. The block of light purple cells represents extensive conversions among open space classes; even more were underway. The untinted vertical and horizontal rows of cells represent conversions of strip-mined land—itself one kind of transitional use—some affecting the built-up urban area, some not. The net difference values in the table summarize the changes in built-up urban area, some not. The net difference values in the table summarize the changes in built-up urban area, some not. The net difference values in the table summarize the changes in