

FOLIO OF LAND USE IN THE WASHINGTON, D. C. URBAN AREA
I-858-E LAND COVER MAP FROM LANDSAT, 1973, WITH PLACE NAMES

290	300	310	320	LC
0.0	0.1	0.4	1.7	0.7
0.1	0.1	0.2	0.8	0.6
0.1	0.1	0.4	0.4	0.1
10.0	8.6	9.2	22.4	13.4
3.3	5.1	10.3	3.5	4.1
48.9	43.6	46.8	34.5	56.1
37.2	42.4	31.7	33.9	22.7
0.0	-	0.0	-	-
0.1	-	0.3	0.5	0.1
100	100	100	100	100
0.1	-	0.1	1.4	1.7
0.0	-	-	0.8	1.1
16.6	8.0	8.4	18.6	21.4
0.2	-	0.2	3.4	1.2
3.2	11.6	7.3	7.8	4.5
46.0	51.8	49.6	41.3	46.6
33.8	27.8	34.4	23.1	34.2
-	-	-	-	-
0.1	-	0.1	-	0.0
100	100	100	100	100
0.8	0.3	0.4	1.8	3.1
0.8	0.6	0.4	0.1	0.4
12.6	9.0	7.8	12.0	32.9
0.5	0.4	0.4	1.2	1.4
2.8	5.4	4.7	3.7	1.8
25.2	29.4	49.1	39.4	32.5
47.0	42.6	35.5	41.0	22.4
1.4	0.5	0.1	-	-
9.4	11.8	1.6	0.1	-
100	100	100	100	100
0.7	0.1	1.6	0.8	0.7
1.3	0.3	0.0	0.0	0.3
0.0	0.1	1.2	0.5	0.3
24.1	8.5	8.4	13.5	35.9
0.0	0.0	0.6	0.0	0.4
0.6	3.2	3.6	2.6	2.0
19.9	21.7	17.6	30.3	26.4
53.4	66.1	59.1	46.5	34.0
-	-	-	-	-
0.0	0.1	7.7	5.0	0.0
100	100	100	100	100
2.9	0.2	0.4	1.7	0.5
0.9	0.1	0.1	0.1	0.2
0.5	0.1	0.1	2.0	0.9
27.7	15.7	15.3	10.2	34.6
1.8	0.2	0.2	0.1	0.3
0.7	3.4	1.2	2.9	3.4
23.4	30.3	29.2	16.0	19.1
42.1	49.4	50.6	62.2	37.1
-	-	-	-	-
-	-	0.1	0.2	0.5
-	0.6	1.2	6.2	3.8
100	100	100	100	100
1.2	1.0	0.2	1.5	1.7
1.2	0.4	0.1	0.4	0.1
0.2	0.2	0.1	0.2	0.5
19.0	17.1	23.1	27.6	36.7
0.3	1.6	0.4	1.8	0.1
0.6	3.4	2.5	0.4	0.6
37.4	22.9	33.7	19.1	20.6
40.1	53.2	39.9	50.0	37.0
-	-	-	-	-
0.0	0.2	0.0	0.0	2.4
100	100	100	100	100
0.2	0.0	1.5	3.0	2.4
0.1	0.0	0.4	1.5	0.7
0.0	0.0	0.2	0.2	0.7
20.5	11.1	39.5	40.4	50.8
0.4	0.7	0.5	1.2	0.1
1.3	0.4	1.6	2.1	0.7
32.7	18.1	27.4	23.6	13.3
44.6	70.1	28.9	28.0	16.8
-	-	-	-	-
0.2	0.3	0.0	-	0.2
100	100	100	100	100
0.3	2.2	2.9	3.8	4.0
0.2	1.0	1.7	1.5	1.0
0.2	0.4	0.4	0.8	0.3
18.9	26.6	39.3	42.3	60.2
1.2	0.2	2.0	0.6	0.2
0.1	0.7	2.0	0.0	0.1
11.7	18.8	19.2	14.3	14.3
67.4	50.0	32.4	36.6	18.2
-	-	-	-	-
0.0	0.1	0.1	0.0	-
100	100	100	100	100
0.2	0.0	1.5	3.0	2.4
0.1	0.0	0.4	1.5	0.7
0.0	0.0	0.2	0.2	0.7
20.5	11.1	39.5	40.4	50.8
0.4	0.7	0.5	1.2	0.1
1.3	0.4	1.6	2.1	0.7
32.7	18.1	27.4	23.6	13.3
44.6	70.1	28.9	28.0	16.8
-	-	-	-	-
0.2	0.3	0.0	-	0.2
100	100	100	100	100
0.3	2.2	2.9	3.8	4.0
0.2	1.0	1.7	1.5	1.0
0.2	0.4	0.4	0.8	0.3
18.9	26.6	39.3	42.3	60.2
1.2	0.2	2.0	0.6	0.2
0.1	0.7	2.0	0.0	0.1
11.7	18.8	19.2	14.3	14.3
67.4	50.0	32.4	36.6	18.2
-	-	-	-	-
0.0	0.1	0.1	0.0	-
100	100	100	100	100
0.1	0.2	0.4	2.4	8.4
-	0.1	0.4	1.1	3.0
0.1	0.0	0.2	0.4	1.3
11.5	12.1	28.8	53.0	36.5
-	1.0	3.0	1.3	3.6
2.4	2.0	0.6	-	1.7
19.2	13.9	17.7	17.6	18.2
66.7	68.7	48.2	23.0	27.1
-	-	-	-	-
0.1	1.8	0.1	0.0	0.0
100	100	100	100	100
0.0	-	0.4	1.6	4.7
-	-	0.2	0.9	1.5
0.4	0.1	0.1	0.0	0.9
9.0	8.4	11.9	29.2	31.0
0.4	0.6	0.5	1.2	5.9
9.7	10.6	11.9	16.3	24.1
79.4	79.1	68.1	47.2	31.9
0.4	0.2	1.2	0.0	0.1
0.7	1.0	2.6	0.0	0.1
100	100	100	100	100
0.5	0.0	0.2	1.8	2.5
0.4	0.2	0.1	1.2	1.4
5.6	5.9	8.7	15.6	16.8
0.6	0.0	0.7	1.8	3.2
2.2	6.7	3.0	0.7	0.6
-	-	0.2	0.5	0.2
6.8	4.5	19.6	22.0	22.9
79.2	79.4	65.1	55.1	48.7
0.2	-	0.2	0.0	0.2
1.5	1.1	1.4	0.2	0.9
5.2	8.9	2.5	0.2	0.9
100	100	100	100	100
-	0.6	3.4	0.6	2.8
0.6	1.8	0.2	1.0	0.2
0.2	0.7	1.1	0.6	0.3
7.4	16.8	35.2	12.0	8.4
2.2	6.7	3.0	0.7	0.6
-	0.5	0.2	0.3	-
10.2	18.8	19.2	10.5	7.8
75.2	33.8	58.4	44.3	44.3
1.0	0.1	-	-	-
4.0	1.3	0.2	1.3	0.8
-	-	2.5	15.2	35.1
100	100	100	100	100

MAP AREA, TOTAL LAND COVER FROM LANDSAT, 1973

Land Cover Class	Table Code	Percent	Hectares	Sq. Km.	Acres	Sq. Mi.	Pixels
Commercial, industrial, services	LC	2.6	9,455	95	23,364	37	20,359
Parking and paved surfaces	PV	1.0	3,441	34	8,502	13	7,410
Residential, older	RM	1.0	3,716	37	9,182	14	8,002
Residential, newer	RS	24.4	87,758	877	216,854	339	188,970
Disturbed land	TR	1.4	5,052	51	12,491	20	10,885
Improved open space	OP	1.6	5,561	56	13,742	21	11,975
Agriculture	LA	23.2	83,560	836	208,481	323	179,931
Unimproved open space	OU	42.0	151,060	1,510	373,276	583	325,280
Clouds	CL	0.0	47	0	116	0	101
Cloud shadows, some wetland	SH	0.2	884	9	2,184	3	1,904
Water	DW	2.6	9,463	95	23,384	37	20,378
Totals	-	100	360,000	3,600	889,382	1,390	775,195

TABLE OF CONVERSION FACTORS FOR LAND COVER AREA MEASUREMENTS

Area Unit	Acres	Pixel	Hectare	Sq. Km.	Sq. Mi.
Acres	X 1	0.872	0.405	0.00405	0.00156
Pixel	X 1.147	1	0.464	0.00464	0.00179
Hectare	X 2.471	2.153	1	0.01	0.00386
Sq. Kilometer	X 247.1	215.3	100	1	0.386
Sq. Mile	X 640	558	258.2	2.282	1

To convert acres to hectares, for example, multiply acres by 0.405. To convert hectares to acres multiply hectares by 2.471. The base map for the folio of Land Use Maps of the Washington, D. C. Urban Area represents a square 60 x 60 km (60,000 x 60,000 m) or 37,282 x 37,282 statute miles. The area value of a land use pixel shown in the table is derived from the accompanying land cover map of Washington. The geometrically corrected row-and-column positions of pixels from the Landsat tape are the result of a best fit of 50 control points whose latitude and longitude were determined from USGS topographic maps at 1:24,000. The north-south dimension of the base map, 60,000 m, is represented by 787 rows of pixels, or 78 m per row. The west-east map dimension, also 60,000 m, is represented by 985 columns of pixels, or 61 m per column. The map area is thus 775,195 pixels, and the area of one pixel 0.464 hectares, or 0.00464 sq. km. Pixel values in this table are based on these measurements and thus may differ somewhat from those computed by other means. With some rounding, entries in adjoining tables are derived from conversion factors shown here. After geometric correction of pixel locations in the computer processing, the digital land cover data were rendered in map form by use of a film recorder. The color separation plates for printing the accompanying map were made from film recorder products which had been visually fitted to the base map. Consequently, positional errors apparently resulting from the visual fitting—or from the base map—do not necessarily accrue to the locations of land cover data in computer tape format.

340	320	330	340	350 km E	340
LC	0.6	0.0	-	0.3	1.5
PV	0.5	0.0	-	0.4	1.7
RM	0.1	0.1	-	0.0	0.8
RS	18.2	11.0	8.2	17.4	18.4
TR	1.4	0.2	0.3	6.9	6.1
OP	1.2	0.9	1.1	0.3	0.0
LA	44.3	31.0	48.8	28.4	34.3
OU	33.7	55.9	38.8	52.1	38.2
CL	-	-	-	-	-
SH	-	-	-	-	-
OW	0.0	0.9	0.1	-	0.0
100	100	100	100	100	100
LC	0.2	0.0	0.2	0.5	2.2
PV	0.1	0.0	0.2	0.2	1.0
RM	0.0	0.1	0.4	0.4	1.2
RS	14.4	11.9	10.5	21.0	15.4
TR	1.0	1.0	0.1	0.7	4.1
OP	4.7	1.3	1.9	1.2	0.1
LA	38.2	37.6	30.8	34.3	18.3
OU	41.4	47.9	49.3	35.7	56.6
CL	-	-	-	-	-
SH	-	-	0.3	0.2	0.2
OW	-	0.2	6.3	5.8	0.9
100	100	100	100	100	100
LC	1.3	0.1	0.6	2.9	3.2
PV	0.6	0.0	0.3	1.5	1.5
RM	-	-	0.4	0.4	0.4
RS	38.7	24.0	17.2	21.8	16.1
TR	1.2	0.8	5.6	8.0	1.4
OP	5.2	0.2	1.1	0.3	0.1
LA	28.4	35.6	34.2	26.4	18.9
OU	24.6	39.3	41.0	38.7	57.7
CL	-	-	-	-	-
SH	-	-	0.0	0.0	0.6
OW	-	-	0.0	0.0	0.1
100	100	100	100	100	100
LC	2.8	1.6	2.7		