DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

FOLIO OF LAND USE IN THE WASHINGTON, D. C. URBAN AREA
I-858-A

# LAND USE MAP, 1970, WASHINGTON URBAN AREA, D. C., MD., AND VA.

By
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## CENSUS CITIES EXPERIMENT IN URBAN CHANGE DETECTION

James R. Wray, Principal Investigator

This map is one prototype product of experiments in land use change detection using remote sensors aboard aircraft and Earth-orbiting satellites. Contemporaneous sensor data and census data are being compared for a sample of urban test sites. Work in Washington is also related to multi-discipline inter-agency experiments in the Central Atlantic Regional Ecological Test Site, (CARETS). All of these efforts are parts of the Department of the Interior's Earth Resources Observations Systems (EROS) Program and the National Aeronautics and Space Administration's Earth Observations Program. This map, and other experimental products, are test demonstrations of a system of new tools to assess and monitor urban and regional environments, especially those undergoing rapid change.

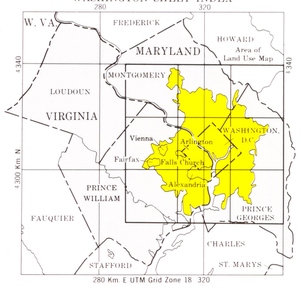
The photo mosaic base is made from the same photography used in the land use analysis. The geographic coordinate system is shown by cross ticks at a five-minute interval and is based on a conformal projection. The Universal Transverse Mercator (UTM) coordinate system is shown with grid intervals of 1, 5, and 10 kilometers. Positioning of the UTM grid meets the following standard: ninety percent of randomly selected control points are correctly positioned to within one millimeter at map scale. The UTM grid forms the basis for sheetlines, sheet-numbering, and location control for computer mapping. The open legend space is for other superimposed data (such as census statistical area boundaries, etc), plus any other distributions generated by the user.

*The location, kind, and intensity of subsequent land use change will be related to information on this map. This legend space is reserved for a listing of the symbols and an area-wide interpretation of change trends. The letter codes shown below are for one prototype classification scheme being tested for urban land use mapping at this scale using high altitude photography acquired at or near this scale. The numerical codes are corresponding designations proposed for possible nation-wide applications.* (Anderson, J. R., Hardy, E. E., and Roach, J. T., 1972, A land-use classification system for use with remote sensor data: U.S. Geol. Survey Circ. 671, 16 p.) *Portions of this work are reviewed in progress by planning agencies in Washington and elsewhere. Inquiries and suggestions may be addressed to The Director, U.S. Geological Survey, Reston, Virginia, 22092*

LAND USE, 1970

| | | |
|---|---|---|
| Livelihood | Primarily industry | 13 LD |
| | Extractive industry | 14 LD |
| | Transportation | 15 LT |
| | Commercial and services | 12, 16 LC |
| | Strip and cluster development | 17 LR |
| Residential | Multi-family residence | 11 RM |
| | Single-family residence | 11 RS |
| Other, mostly Open | Improved open space | 19 OP |
| | Unimproved open space | Var OU |
| | Unimproved, wetland | 60 OU |
| | Agriculture, with residence | 20 LA |
| | Water | 50 OW |
| | Land use in transition | * |

WASHINGTON SHEET INDEX




STANDARD METROPOLITAN STATISTICAL AREA, 1970 CENSUS AND URBANIZED AREA, 1970.

MAP AREA DESIGNATION (280–290/60)

The numbers in the map area designation (280–290/60) define the location and extent of the map coverage. The first three digits indicate the location of the southwest corner of the sheet in kilometers North of the Equator: the prefix 4—for 4,000 km or 4,000,000 m—is omitted. The next three digits are the sheet corner's location in kilometers East. These coordinates are the lowest Northings and Eastings on the sheet. The map covers a square extending 60 km northward and eastward, hence the last two digits in the area designation.

Photography from National Aeronautics and Space Administration, 1970 and 1972.

SCALE 1:100 000

1 0 1 2 3 4 5 6 7 8 9 10 MILES
1 0 1 2 3 4 5 6 7 8 9 10 KILOMETERS

GN
MN TN
GN: 1°18'W 23 mils
MN: 8°00'W 142 mils
DECLINATION DIAGRAM



For sale by U.S. Geological Survey, price 75 cents

Copies of this map are available at cost in transparent scale-stable material from the U.S. Geological Survey, Reston, Va. 22092

District of Columbia. Land use. 1:100,000. 1974.
sheet A
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