

- 12 Commercial and services
- **Industrial** Transportation, communications and utilities
- 15 Industrial and commercial
- 16 Mixed urban or built-up land 17 Other urban or built-up land

2 AGRICULTURAL LAND

- 21 Cropland and pasture
- 22 Orchards, groves, vineyards, nurseries, and ornamental horticultural areas
- 23 Confined feeding operations 24 Other agricultural land

3 RANGELAND

- 31 Herbaceous rangeland 32 Shrub and brush rangeland 33 Mixed rangeland
- 4 FOREST LAND
- 41 Deciduous forest land 42 Evergreen forest land 43 Mixed forest land

5 WATER

- 51 Streams and canals
- 53 Reservoirs 54 Bays and estuaries

6 WETLAND

61 Forested wetland 62 Nonforested wetland

7 BARREN LAND

- 72 Beaches 73 Sandy areas other than beaches 74 Bare exposed rocks
- 75 Strip mines, quarries, and gravel pits
 Transitional areas
- 77 Mixed barren land

- 8 TUNDRA
- 81 Shrub and brush tundra 82 Herbaceous tundra
- 83 Bare ground tundra 84 Wet tundra

85 Mixed tundra

- 9 PERENNIAL SNOW OR ICE
- 91 Perennial snowfields92 Glaciers

For definitions of Level I and Level II categories see U.S. Geological Survey Professional Paper 964, A land use and land cover classification system for use with remote sensor data, 1976, by J. R. Anderson, E. E. Hardy, J. T. Roach, and R. E. Witmer.

The development of a geographic information system incorporating digital land use data is described in U.S. Geological Survey Professional Paper 1059, GIRAS: A geographic information retrieval and analysis system for handling land use and land cover data, 1977, by W. B. Mitchell, S. C. Guptill, K. E. Anderson, R. G. Fegeas, and C. A. Hallam.

Land use and land cover information compiled from source materials dated 1973-76.

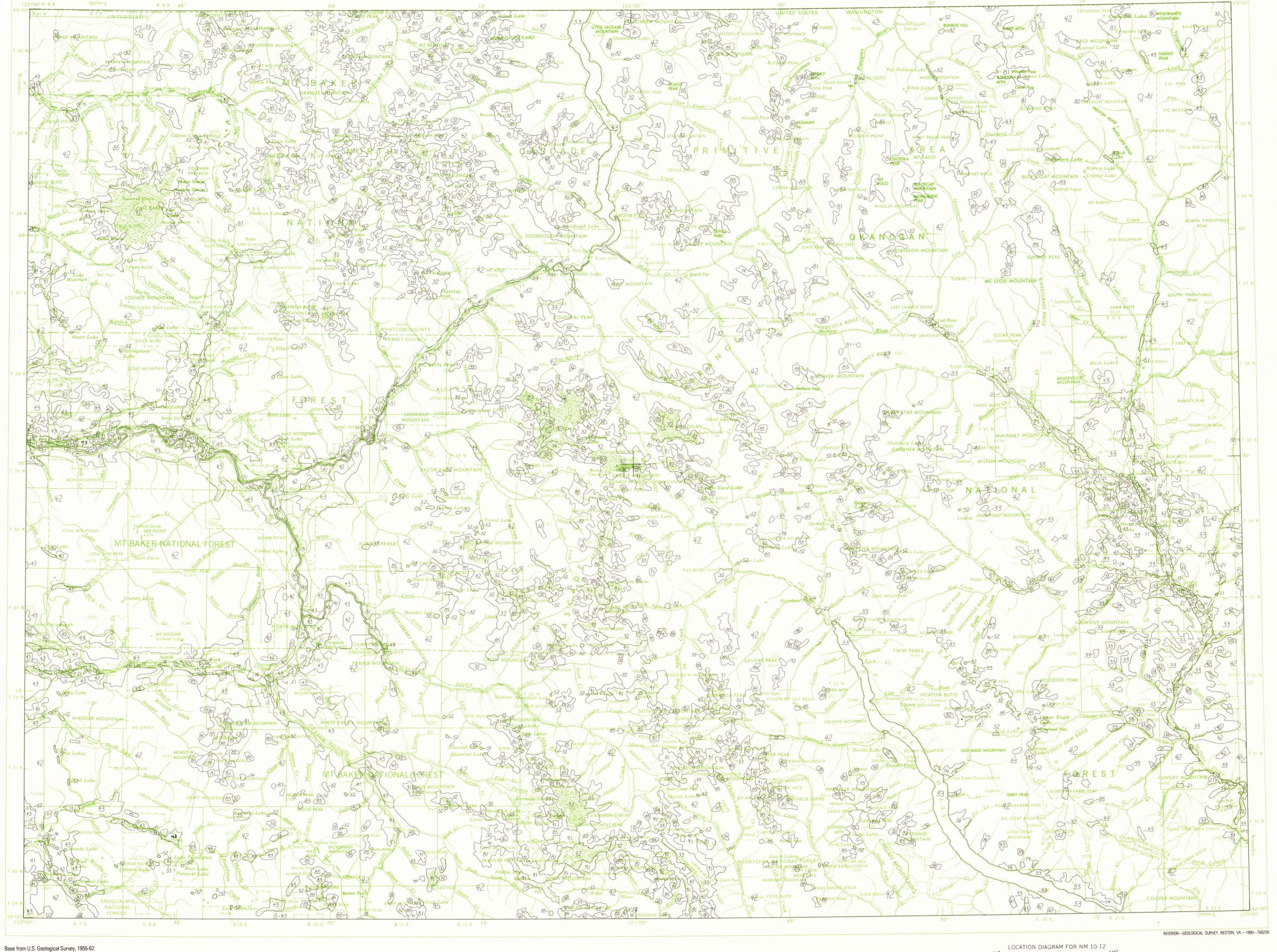
Minimum mapping units are: 4 hectares (10 acres) for Level II categories 11–17, 23–24, 51–54, 75, and urban occurrences of 76; and 16 hectares (40 acres) for all other Level II categories.

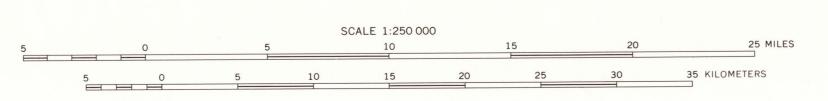
For compilation specifications see U.S. Geological Survey Open-file report 77–555, Specifications for land use and land cover and associated maps, 1977, by G. L. Loelkes, Jr.



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