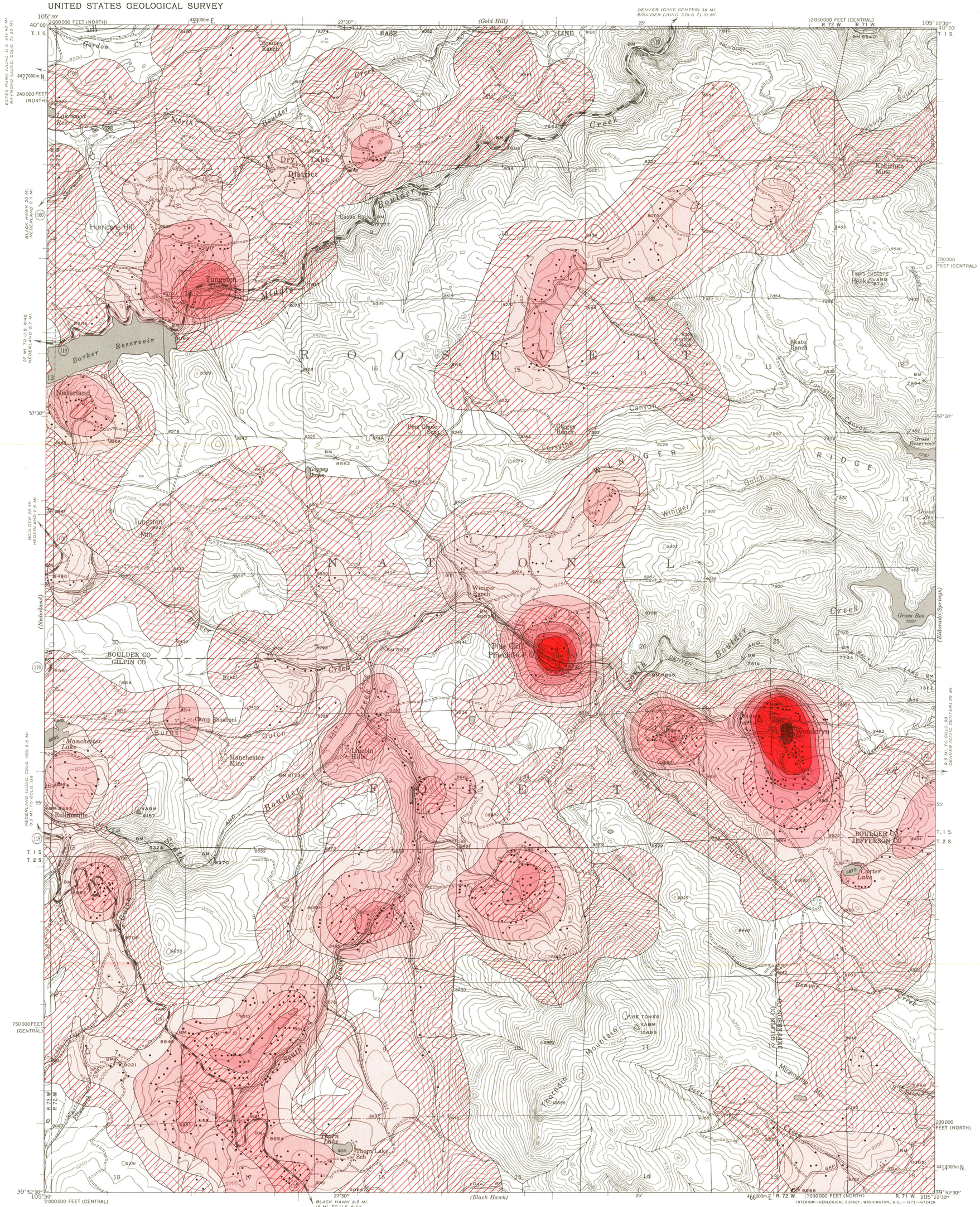

Base from U.S. Geological Survey, 1942
Gross Reservoir boundary as of 1970
10,000-foot grids based on Colorado (North) and Colorado (Central) rectangular coordinate system
1000-meter Universal Transverse Mercator grid, zone 13

APPROXIMATE MEAN DECLINATION, 1973

SCALE 1:24 000

1 ½ 0 1 MILE

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 50 FEET
DATUM IS MEAN SEA LEVEL

COLORADO
QUADRANGLE LOCATION

INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D.C.—1973—G72428

EXPLANATION

Number of dwelling units per 100 acres

- 0
- 1-5
- 5-10
- 10-20
- 20-30
- 30-40
- 40-50
- 50-90
- > 90

100-acre area

House built 1942 or earlier

House built 1943-71

WHY A DWELLING-UNIT DENSITY MAP IS CONSTRUCTED AND HOW IT IS MADE

Many geologically related environmental problems require a knowledge of population density and its distribution trends for an area. House density is a means of presenting these data. The dwelling-unit density map shows the number of houses encompassed by a circle with an area of 100 acres centered at any given point on the map (known mine shacks, outbuildings, and places of business not also used as residences have been eliminated). The map was prepared from a U.S. Geological Survey topographic map showing house locations published in 1942 that has been updated by the use of aerial photographs taken in 1971 [scale 1:30,800] and a culture map of the southern half of the Tungsten quadrangle prepared by A. B. Brelsford for the Pinecliff Fire Department in 1963-64.

New growth in the Tungsten quadrangle is roughly in two separate areas; in the southern part of the quadrangle many new residents commute to the Denver area and in the northern part they commute to the Boulder area.

The dwelling-unit density map was prepared by drafting a grid of 100-acre squares over the topographic base. A 100-acre-circle counter was then placed on each corner and center of each square and the number of houses was counted and recorded. Contours were then constructed to outline the areas of equal dwelling-unit density. Because this statistical method limits the accuracy of the map to areas of 100 acres or larger, the map should be used for general planning purposes only.

MAP SHOWING DENSITY OF DWELLING UNITS IN THE TUNGSTEN QUADRANGLE, BOULDER, GILPIN, AND JEFFERSON COUNTIES, COLORADO

By
Harry R. Covington and Dolores J. Gable

1973