



APPRAISAL OF MINERAL RESOURCE POTENTIAL OF PROPOSED ROADLESS AREAS IN NATIONAL FORESTS, OREGON (EXCLUSIVE OF COAL, OIL, GAS, AND CONSTRUCTION MATERIAL )

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### EXPLANATION

- Many known occurrences and geologically favorable for prospecting
- Few known occurrences but geologically favorable for prospecting
- No known deposits or prospects and probably geologically unfavorable
- Insufficient information to evaluate. Requires additional geologic, geochemical, and/or geophysical data

This map was compiled and drafted December 5, 6, and 7, 1977, by G. W. Walker, of Western Mineral Resources Branch, U.S. Geological Survey, Menlo Park, California, in response to a request by the U.S. Forest Service for an immediate evaluation of the mineral resource potential of proposed Roadless and Undeveloped Areas in the national forests of Oregon. The Roadless and Undeveloped Areas, defined by the Forest Service for purposes of the Rare II inventory, are shown on a published map (U.S. Forest Service, 1977a). A slightly modified later edition of the Rare II map (U.S. Forest Service, 1977b) became available after the U.S. Geological Survey's mineral potential map was prepared.

Numbers on this map identify individual roadless and undeveloped areas; these numbers correspond with numbers on the map prepared by the U.S. Forest Service (1977a), which also includes listings of the individual areas by National Forest and the size, in acres, of each area. Unpatterned and numbered areas are existing or proposed Wilderness or Primitive areas, some of which have been evaluated for their mineral potential under provisions of the Wilderness Act (Public Law 88-577).

U.S. Geological Survey  
OPEN FILE REPORT  
This map is preliminary and has not  
been edited or reviewed for conformity  
with Geological Survey standards

Because of the short time available for this evaluation, compilation of much of the data in the public record was not possible. The evaluation, therefore, is based largely on the knowledge and experience of the available economic geologists in the Western Mineral Resources Branch who have worked in Oregon. It also is based on data available in the U.S. Geological Survey's Computer Resource Information Bank (CRIB). Quantitative data are available only for certain metals, principally Al, Au, Ag, Cr, Ni, Pt, Mn, Cu, Pb, Zn, Hg, U, and W, and certain non-metals, including asbestos, pumice, cinders, facing stone, and limestone; hence, evaluations are appropriately limited in scope. Evaluation of zeolites, which are common in many of the volcanic units of the region, awaits further clarification of markets for natural versus synthetic materials.

The compilation was delivered and its results discussed orally with members of the U.S. Forest Service on December 8 and 9, 1977, in Menlo Park, California. The map and brief explanation have been placed on open-file by public request.

### References

- U.S. Forest Service, 1977a, Oregon National Forests Roadless and Undeveloped Areas (Prelim. edition): U.S. Forest Service Map, scale 1:1,000,000.
- 1977b, Roadless and undeveloped area evaluation II, RARE II, National Forests, Oregon: U.S. Forest Service Map, scale 1:1,000,000.