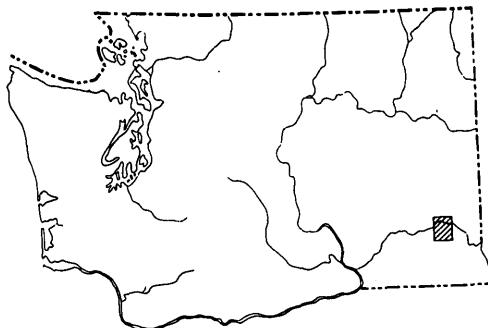


DEPARTMENT OF THE INTERIOR  
UNITED STATES GEOLOGICAL SURVEY  
W. E. WRATHER, DIRECTOR

GEOLOGIC  
QUADRANGLE MAPS  
OF THE  
UNITED STATES  
GEOLOGY  
OF THE  
PENAWAWA QUADRANGLE  
WASHINGTON  
By  
H. H. Waldron and L. M. Gard, Jr.



INDEX MAP OF WASHINGTON

PUBLISHED BY THE U. S. GEOLOGICAL SURVEY  
WASHINGTON, D. C.  
1955

The series of Geologic Quadrangle Maps of the United States continues the series of quadrangle maps begun with the folios of the Geologic Atlas of the United States, which were published from 1894 to 1945. The present series consists of geologic maps, supplemented where possible by structure sections, columnar sections, and other graphic means of presenting geologic data, and accompanied by a brief explanatory text to make the maps useful for general scientific and economic purposes. Full description and interpretation of the geology of the areas shown on these maps are reserved for publication in other channels, such as the Bulletins and Professional Papers of the Geological Survey. Separate maps of the same areas, covering bedrock, surficial, engineering, and other phases of geology, may be published in the geologic quadrangle map series. Each edition is issued in flat form, 25 x 30 inches, and folded, 9¼ x 11¼ inches.

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