



- GROUND-WATER REGIONS**
1. Western Mountain Ranges
  2. Alluvial Basins
  3. Columbia Lava Plateau
  4. Colorado Plateaus and Wyoming Basin
  5. High Plains
  6. Unglaciated Central region
  7. Glaciated Central region
  8. Unglaciated Appalachian region
  9. Glaciated Appalachian region
  10. Atlantic and Gulf Coastal Plain

**EXPLANATION**

Patterns indicate areas underlain by one or more aquifers generally capable of yielding to a well at least 50 gpm of water containing not more than 2,000 ppm of dissolved solids (including areas where more highly mineralized water is actually used). In Alluvial Basins region only, shows areas containing notable accumulations of saline water (black crosses). Vertical position of blocks has no relation to age of rocks.

**UNCONSOLIDATED AND SEMICONSOLIDATED AQUIFERS**

- Alluvial sand and gravel  
*Includes valley fill of the Alluvial Basins region and glacial outwash and ice-contact deposits of the two glacialated regions. In States and Long Islands and parts of Cape Cod and adjacent areas, underlain by Coastal Plain sand.*
- Alluvial sand and gravel underlain by sandstone
- Alluvial sand and gravel underlain by carbonate rocks
- Alluvial sand and gravel underlain by volcanic rocks in which there may be some interbedded sand and gravel
- Alluvial sand and gravel underlain by both sandstone and carbonate rocks
- Coastal Plain sand  
*Locally includes gravel*
- Coastal Plain sand underlain by carbonate rocks
- Watercourse  
Alluvial valley traversed by perennial stream from which recharge can be induced
- Surficial alluvial valley no longer traversed by perennial stream (abandoned watercourse), or buried alluvial valley

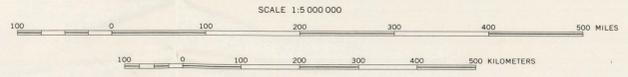
**CONSOLIDATED-ROCK AQUIFERS**

- Undifferentiated bedrocks  
*In Western Mountain Ranges and immediately adjacent area, limited to carbonate rocks and sandstone; in other regions may include rocks of other types*
- Sandstone; includes some sand
- Carbonate rocks  
*Limestone and dolomite; locally include gypsum*
- Sandstone and carbonate rocks
- Volcanic rocks and associated gravel  
*Chiefly basalt*
- Crystalline rocks  
*Chiefly igneous and metamorphic rocks*

5 6  
Boundary of ground-water region  
Dashed where two regions overlap

--- 0.25 ---  
--- 0.5 ---  
--- 1.0 ---  
Contours of annual runoff, in inches

GENERALIZED MAP SHOWING ANNUAL RUNOFF AND PRODUCTIVE AQUIFERS IN THE CONTERMINOUS UNITED STATES



INTERIOR—GEOLOGICAL SURVEY, WASHINGTON, D. C.—1964—W 64292  
Ground-water areas adapted from H. E. Thomas, 1951, 1952a  
Runoff contours after W. B. Langbein and others, 1949