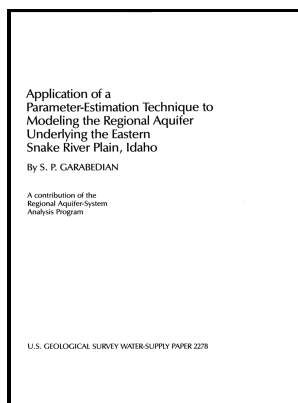


Solute geochemistry of the Snake River Plain Regional Aquifer System, Idaho and eastern Oregon. By Warren W. Wood and Walton H. Low

Dept. of the Interior - Solute geochemistry of the Snake River Plain Regional Aquifer System, Idaho and eastern Oregon



Description: -

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Regional planning -- United States.
Architecture -- United States -- Conservation and restoration.
Urban beautification -- United States.
Architecture -- Environmental aspects -- United States.
Fiction in English.
National Regional Aquifer-System Analysis (RASA)
Aquifers - Snake River Plain
Water chemistry - Snake River Plain
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Solute geochemistry of the Snake River plain regional aquifer system, Idaho and eastern Oregon

Map showing the regional geology of the Snake River Plain. Solute geochemistry of the Snake River Plain regional aquifer system, Idaho and eastern Oregon Download PDF EPUB FB2 Overview of the Snake River Plain Aquifer.

Digital Geology of Idaho

References Ground Water Atlas of the United States: Idaho , Oregon , Washington: Snake River Plain Aquifer System: U. Three geochemical methods were used to determine chemical reactions that control solute concentrations in the Snake River Plain regional aquifer system: 1 calculation of a regional solute balance within the aquifer and of mineralogy in the aquifer framework to identify solute reactions, 2 comparison of thermodynamic mineral saturation indices with plausible solute reactions, and 3 comparison of stable isotope ratios of the groundwater with those in the aquifer framework.

Staff View: Geohydrologic framework of the Snake River Plain regional aquifer system, Idaho and eastern Oregon /

Solute balance, isotopic, mineralogic, and thermodynamic arguments suggest that about 20% of the solutes are derived from reactions with rocks forming the aquifer framework. Reactions controlling solutes in the western Snake river basin are believed to be similar to those in the eastern basin but the regional geothermal system that underlies the Snake river Plain contains total dissolved solids similar to those in the overlying Snake River Plain aquifer system but contains higher concentrations of sodium, bicarbonate, silica, fluoride, sulfate, chloride, arsenic, boron, and lithium, and lower concentrations of calcium, magnesium, and hydrogen. Most of the remaining solutes are introduced from tributary drainage basins.

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Unfortunately, the advantages of excellent bacteria-free groundwater are often accompanied by disadvantages like high iron and manganese content. Recharge into the Eastern Snake River Plain aquifer is predominantly from infiltration of applied irrigation water, infiltration of streamflow, and ground-water inflow from adjoining mountain drainage basins. Three million acres of farmland on the Snake River Plain are irrigated, with approximately one third from wells and the remaining two thirds from canals.

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The Western Snake River Plain contains coarse and fine-grained unconsolidated sediment up to 1525 meters thick, which is thickest in the western part of the Plain, near the Idaho-Oregon state border Figure 4.

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Depths of these aquifers are generally less than 75 meters below ground surface.

Solute geochemistry of the Snake River plain regional aquifer system, Idaho and eastern Oregon (Book)

Solutes in the geo- thermal groundwater system underlying the main aquifer were examined by calculating thermodynamic mineral saturation indices, stable-isotope ratios, geothermometry, and radiocarbon dating.

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