



INTRODUCTION

The aquifer system underlying the Snake River Plain is one of the regional aquifer systems being studied by the U.S. Geological Survey in its Basin Aquifer System Analysis program to develop a better understanding of the Nation's ground-water resources. One of the purposes of this study, which began in 1975, was to increase understanding of the ground-water flow system underlying the Snake River Plain. In that study, the regional aquifer system is described, confining aquifers have been penetrated at various depths in the extreme western part of the plain and along the plain's boundary. Local aquifers were not explicitly defined in the study. Objective, approach, and plan of study were presented in an earlier report (Lindholm, 1981).

The purpose of this report is to (1) present results of ground-water level measurements made in the spring of 1980; (2) discuss historical water-level changes; and (3) describe ground-water movement. Coordinates of the water table in the spring of 1980 and depth to water were defined by water-level measurements on about 1,200 wells. Direction of ground-water movement is shown on the water-table map and hydraulic flow sections. Historical water data were collected by the U.S. Geological Survey in cooperation with other Federal, State, and local agencies.

CONVERSION FACTORS

Multiply by	To obtain
acre	4.047 square meter
cubic foot per second (cfs)	0.02832 cubic meter per second
foot (ft)	0.3048 meter
foot per mile (ft/mi)	1.094 meter per kilometer
mile (mi)	1.609 kilometer
square mile (mi ²)	2.590 square kilometer

THE TOPOGRAPHY OF THE SNAKE RIVER PLAIN CONTRASTS SHARPLY WITH THE SURROUNDING MOUNTAINS

The Snake River Plain is an immense area of about 15,000 mi² that extends across southern Idaho into eastern Oregon. For this study, the extent of the plain was defined on the basis of geology, topography, and hydrology. Along its axis, the plain is about 370 mi long and ranges in width from 30 to 70 mi. The plain's surface altitude rises gradually from about 2,100 ft above sea level at the southwestern Idaho to 6,000 ft in the northeast near Dixie Mountains. Mountains surrounding the plain rise abruptly from 2,000 to 12,000 ft.

For study purposes, the plain was divided into eastern and western parts on the basis of geology and hydrology. Quaternary volcanic rocks, chiefly basalt with minor amounts of interbedded sandstones, predominate in the eastern plain. Quaternary alluvial and sedimentary materials of various kinds predominate in the western plain. The geologic framework of the Snake River Plain is discussed in a companion report (Whitehead, 1984). The hydrologic dividing line between eastern and western parts of the plain is roughly the Snake River and one of its tributaries, Salmon Falls Creek (map of center). The Snake River flows from the west to the east. The Snake River flows from the west to the east. The Snake River flows from the west to the east.

WELLS AND TEST HOLES ARE REFERENCED BY A WELL-NUMBERING SYSTEM

The well-numbering system used by the U.S. Geological Survey in Idaho indicates the location of wells within the official rectangular subdivision of the public lands, with reference to the Boise base line and meridian. The first two segments of the number designate the township and range. The third segment gives the section number, three letters, which indicate the 1/4 section (1/4 section north, 1/4 section south, 1/4 section east, and 1/4 section west) and the well number of the well within the tract. Quarter sections are lettered A, B, C, and D in counter-clockwise order from the northeast quarter of each section. Within quarter sections, 40-acre and 10-acre tracts are lettered in the same manner. For example, well 8S-24E-31D4C1 is in the SW 1/4 of the SE 1/4 of section 31, T. 8 S., R. 24 E., and is the first well inventoried in that tract. The well number system in Oregon is referred to the Willamette base line and meridian.

In addition, a unique identification number is assigned to each well. This number is based on the well's location with respect to latitude and longitude. For example, the number 6246213141201 indicates well 6S-24E-31D4C1 is at latitude 42°46'31" and longitude 113°41'20". The sequential ending number (01, 02, etc.) allows for additional wells at the same general location.

GROUND WATER MOVES VERTICALLY AND HORIZONTALLY TO THE SNAKE AND BOISE RIVERS

Within the hydrologic framework defined by Whitehead (1984), water moves vertically then horizontally from areas of recharge to areas of discharge. Movement is approximately perpendicular to lines of equal hydraulic head, as shown on the sections above and map at center. Completion of flow, owing to local lithologic differences and geologic structures, are poorly defined and are not shown.

In the western part of the Snake River Plain, ground-water discharge as seepage to the Snake and Boise Rivers. West of the Snake River and in the vicinity of Lake Lowell, hydraulic heads decrease with depth. In those areas, water moves downward and recharges the ground-water system. East of Lake Lowell, hydraulic heads increase with depth and water discharge mainly to the Boise River as shown in section A-A'. In the Boise River valley, a well-developed network of surface drains (drains) intercepts ground water that otherwise would be discharged to the river. The water table in much of the Boise River valley is shallow (several feet to several tens of feet below land surface) and the upward component of hydraulic head causes many wells to flow. Although head data demonstrate upward movement of water in the Boise River valley, use of surface water for irrigation adds temporary recharge to the system.

Section B-B' approximates a regional ground-water flowpath along the longitudinal axis of the eastern plain. Near the boundaries of the plain, as shown on the northwestern end of the section, hydraulic head decreases with depth and recharge occurs. Upward flow, about 25 mi from the northeastern end of the section, is probably due to the confining effect of sediments that locally are interstratified with basalt.

Two-thirds of total ground-water discharge from the eastern plain is spring flow and seepage to the Snake River between Miller and Flag Hill. Included in this reach are 11 of the 65 known springs in the United States that discharge an average of more than 100 ft³ (Manser, 1972, p. 44). Phenomena in a U.S. Geological Survey test hole, about 12 mi northeast of the spring discharge area, as well as horizontal flow in the vicinity of the Snake River. Additional evidence of upward water movement in the Snake River is springs that discharge directly into the river.

WATER-TABLE GRADIENTS RANGE FROM 3 TO 200 FEET PER MILE AND INDICATE THE RELATIVE ABILITY OF AQUIFERS TO TRANSMIT WATER

Regionally, ground-water moves at approximately right angles to lines of equal hydraulic potential or head, as shown on the map above. Locally, variations in flow direction can be expected because of the anisotropy of basaltic rocks that underlie much of the Snake River Plain. The water-table gradient is based on water levels in wells completed in the regional aquifer system and measured in the spring of 1980. A companion report (Bosch, 1985) includes specific data on depth to water, water-table altitude, geologic unit, and well construction.

Ground-water movement in the western part of the Snake River Plain is mainly toward the Snake and Boise Rivers. Water-table gradients range from 100 to 200 ft along the northeastern boundary of the plain from King Hill to near Boise. In that area, the regional aquifer is thin and consists largely of fine-grained Quaternary and Tertiary sedimentary rocks. Water-table gradients are commonly 50-100 feet per mile in the vicinity of the Snake River. In much of the Boise River valley, water-table gradients are 10-20 ft per mile toward the river. The unconfined aquifer in the Boise River valley consists largely of coarse-grained alluvium. South of the Snake River from Salmon Falls Creek to Murphy, water-table gradients are generally 50-100 feet per mile but are poorly defined. Most wells in that area are completed in confining siliceous volcanic-rock aquifers and yield thermal water with hydraulic heads that average about 100 ft higher than heads in the overlying coarse-grained system.

Ground-water movement in the eastern part of the Snake River Plain is generally from north to south. Disturbances are apparent near the margins of the movement of water and perched aquifers have formed. Under surface-water-irrigated areas, perched water is common, and local flow systems, independent of the regional system, have developed. Some water is perched aquifers in withdrawn for various uses, the remaining water eventually percolates to the regional system.

Areas of perched aquifers, usually shallow, are shown on the map above. Effects of leakage from these aquifers to the regional aquifer system are not reported at the scale shown. Irrigated acreage and other land uses on the Snake River Plain in 1980 were delineated from Landsat data (Lindholm and Goodell, 1984).

EXPLANATION

- Water table
- Line of equal hydraulic potential—intervals 25 and 100 feet
- General direction of ground-water movement
- Point of focus of hydraulic potential—Projected where no well shown
- Lines of section shown on map at center

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- Water-table contour—Shows altitude of the regional water table, spring 1980. Dashed where inferred. Contour intervals 50, 100, and 200 feet. Datum is sea level. Contours are broken at the Snake River canyon between Miller and Jerome Counties. Slopes are indicated by the contour interval.
- General direction of ground-water flow
- Line of section
- Control point
- Control point for hydraulic flow section only
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