

The Coastal Plain of Arkansas is underlain by vast artesian aquifer systems, and most of the surface is blanketed by alluvial sands and gravels, which contain water under both water-table and artesian conditions. This atlas is a generalized regional presentation of the various aspects of the principal aquifers.

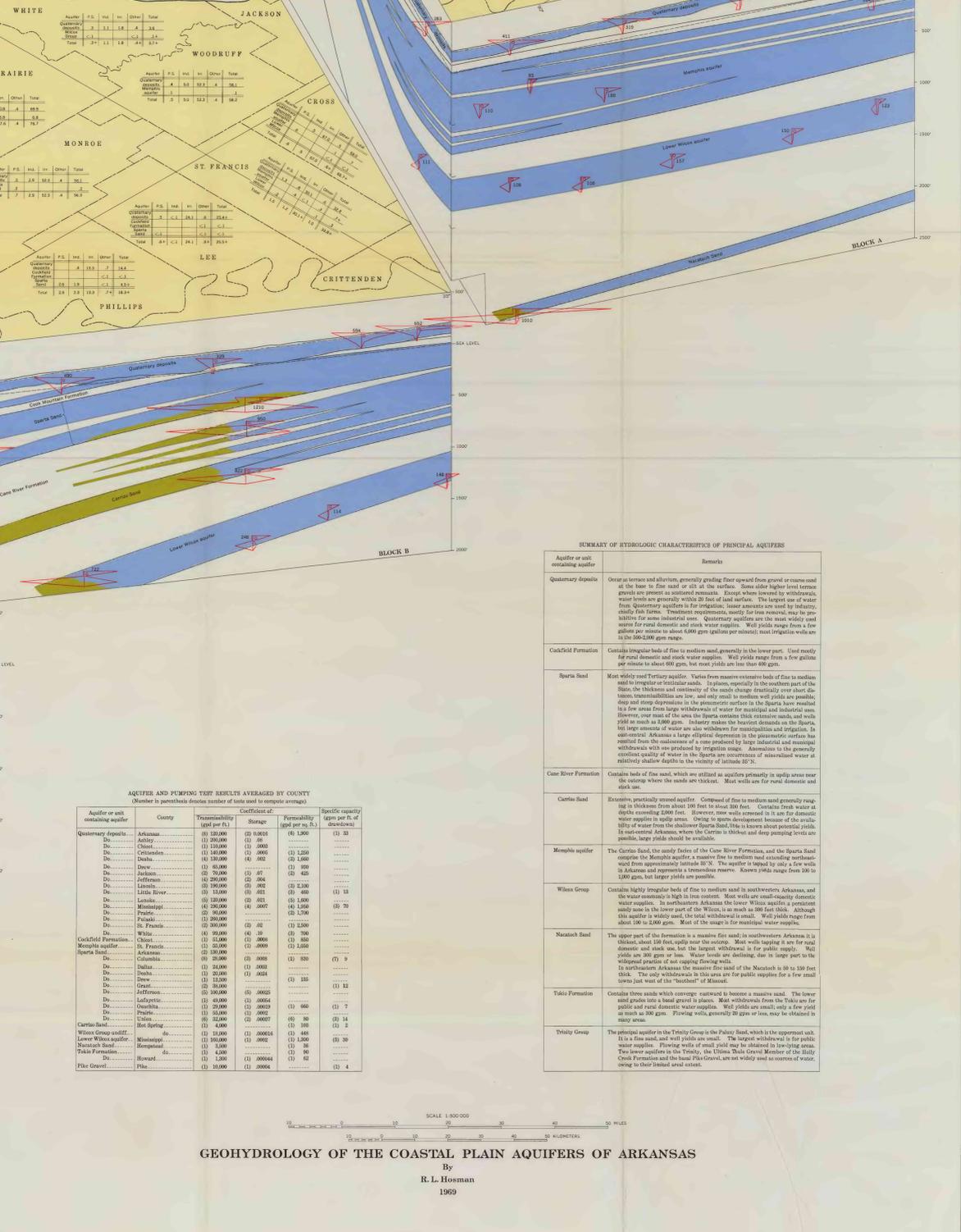
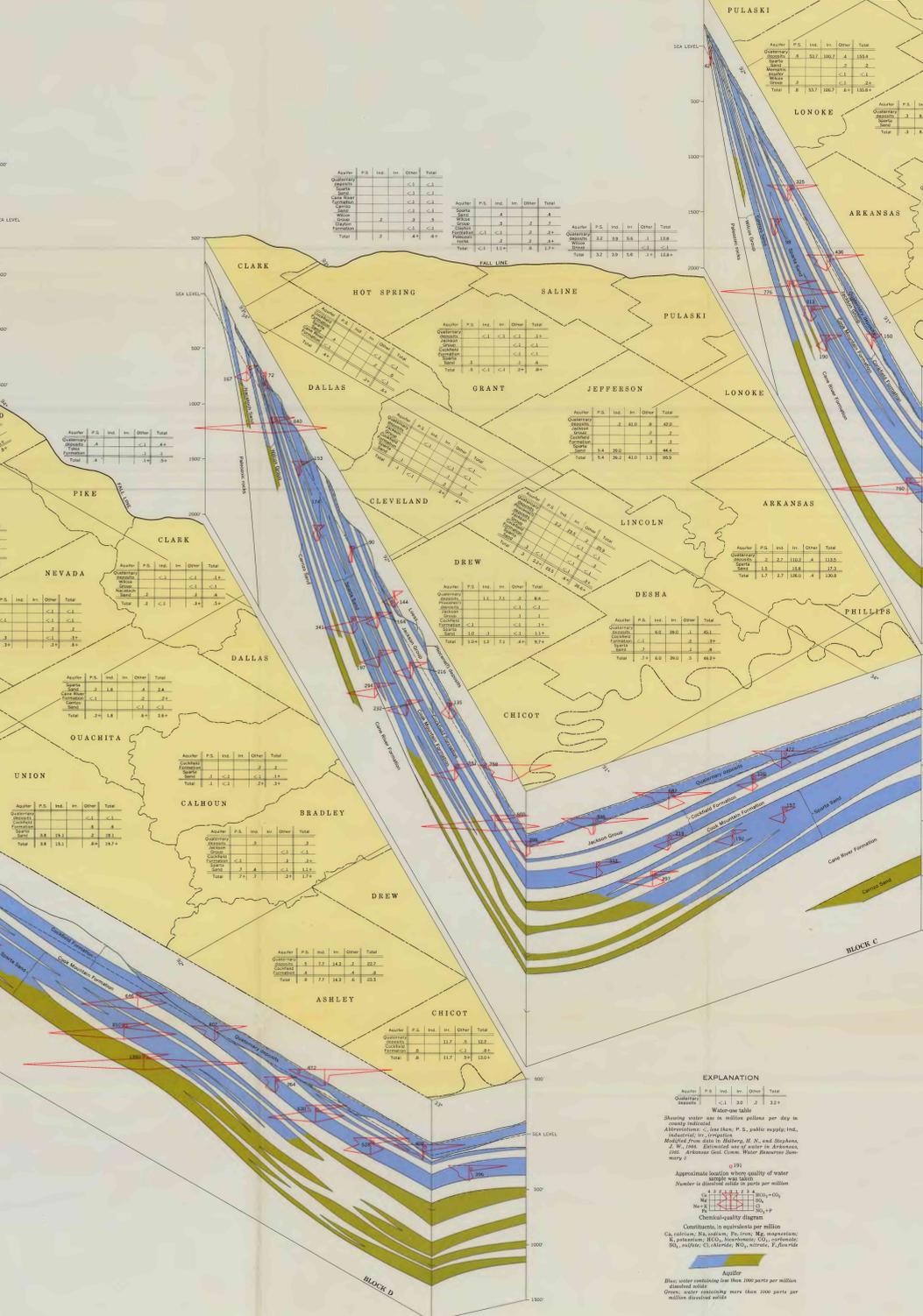
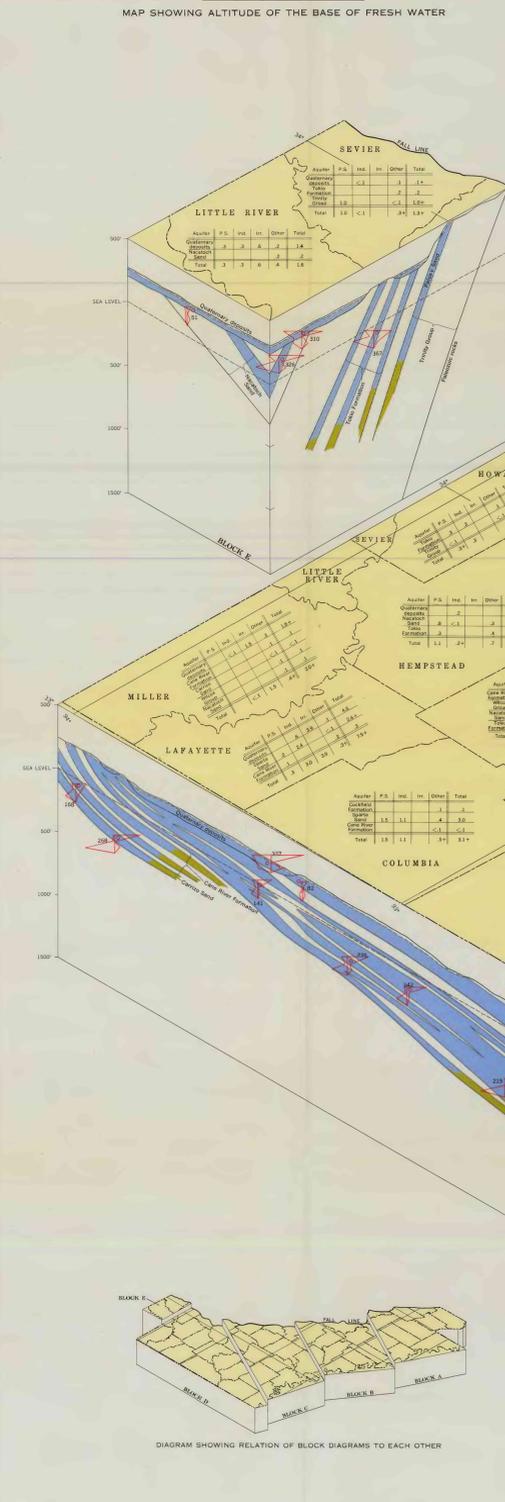
The diagrammatic representations of the days in the Sparta Sand and Coalfield Formation and of the regular sands in the Wilcox Group and Cape River Formation in southwestern Arkansas do not necessarily show the exact position and thickness of the individual layers. Clays and sands too thin or discontinuous for presentation at this scale were disregarded. Nonessential stratigraphy is omitted on the blocks, but the complete section is given in the geologic column.

Conditions depicted on the sides of the blocks adjacent to the Mississippi River are representative of the area in Arkansas west of the river rather than east of the river as the blocks might indicate.

Chemical-quality diagrams are shown on the block diagram at the approximate location from which the samples they represent were taken. In some areas where data were not available in the immediate vicinity of the side of the block, the diagrams were projected short distances to the block; some were projected from adjacent States.

Aquifers or units containing aquifers of insufficient thickness or extent to be shown are the Pike Gravel, the Illinois Third Grand Member of the Holly Creek Formation, the Woodbine Formation, the Brownstown Marl, the Ozark Formation, the Clayton Formation, local sands of the Cook Mountain Formation, and sands of the Jackson Group.

This atlas was prepared from data used in the investigation of the water resources of the Mississippi embayment. The author appreciates the assistance of his project colleagues and the staff of the U.S. Geological Survey, Little Rock, Ark.



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