



EXPLANATION
 Outcrop area of the Ozark aquifer
 Outcrop area of rocks comprising geohydrologic units older than the Ozark aquifer

— Contact
 - - - Approximate boundary of Ozark Plateaus aquifer system
 — Fault—U, upthrown side; D, downthrown side
 — Structure contour—Shows altitude of top of Ozark aquifer. Contours in areas of low control points are correlated with control points and contours on maps of overlying and underlying geohydrologic units. Contours in outcrop area are modified from 1:500,000 scale, Missouri, Arkansas, and Oklahoma State base maps. High-relief state depression. Contour interval, in feet, is variable. National Geodetic Vertical Datum of 1929.
 ● Control data point—Part of Central Midwest Regional Aquifer-System Analysis data base. Number is altitude, in feet, of the top of Ozark aquifer. National Geodetic Vertical Datum of 1929.
 ○ Auxiliary control data point¹
 + Supplementary control point²—Control points from published maps of top of Huron Group in eastern Oklahoma by Arnsden (1980), and published maps of the tops of Huron and Arbuckle rocks in Kansas, by Merriam (1960) and Merriam and Smith (1961).



INTRODUCTION
 An investigation of the geohydrologic system in the Ozark Plateaus province (index map and Ferguson, 1938) has been made as part of the Central Midwest Regional Aquifer-System Analysis (Jorgenson and Sigor, 1981), a major study that encompasses parts of 10 States. The study is one of several by the U.S. Geological Survey that are designed to increase knowledge of the flow regime and geohydrologic properties of regional aquifer systems in the United States. Because a large quantity of fresh ground water is available in aquifers underlying the Ozark Plateaus province, a subregional project has been established to study the geohydrologic units of this area in more detail than is practical in the regional study. The stratigraphic relationship among the primary geohydrologic units in the Ozark Plateaus province is discussed in Chapter A of this Hydrologic Investigations Atlas series. This chapter focuses on the Ozark aquifer, a geohydrologic unit within the Ozark Plateaus aquifer system underlying the Ozark Plateaus province.

THE OZARK AQUIFER
DEFINITION
 The Ozark aquifer, the largest and most widely used aquifer in the Ozark Plateaus aquifer system, is composed of a sequence of geologic formations ranging in age from Late Cambrian to Middle Devonian that vary considerably in water-yielding capability, but collectively function as a regional aquifer. Stratigraphically, the aquifer's basal formation is the Potosi Dolomite. In eastern Missouri the upper boundary of the aquifer is coincident with the base of the Upper Ordovician Maquoketa Shale. This shale usually is underlain by the Kinnoswick Formation, but the Cape Limestone may be locally present. West and south of the extensive outcrop area of the Ozark aquifer, the base of the Upper Devonian Chattanooga Shale stratigraphically represents the upper boundary of the aquifer.

STRUCTURAL FEATURES
 Gradual uplift of the Ozark dome beginning in early Middle Ordovician time and erosion of younger rocks has exposed the Ozark aquifer in a large area throughout the Ozark Plateaus province. The aquifer's basal Cambrian rocks crop out along major river valleys in Camden and Morgan Counties, Missouri, and around the fringe of the St. Francois Mountains. The Ozark aquifer has been removed entirely from the core of the St. Francois Mountains, exposing older geohydrologic units. Ordovician rocks comprise the largest part of the aquifer's nearly circular outcrop area, which is circumscribed by a thin ring of younger Devonian rocks along most of the outcrop's outer circumference. The intermittent, gradual, and long-term rise of the Ozark dome has led to the formation of deeply dissected, rugged topographic features as surface drainage systems developed. The aquifer is broken by numerous faults and fracture systems, especially near the St. Francois Mountains (McCracken, 1966). Only the major faults are shown on this map.

Where the aquifer dips into the subsurface, it generally is overlain by Upper Devonian rocks; however, in the northern part of the province (Gasconade County, Missouri), and where the aquifer is in direct contact with as much as 200 feet of younger Pennsylvanian shale. To the southeast, in the Mississippi Alluvial Plain, the younger rocks of the aquifer have been removed by erosion and, subsequently, overlain by thick deposits of Cretaceous, Tertiary, and Quaternary sediments. Small patches of the Ozark aquifer crop out along the northwest edge of the Mississippi Alluvial Plain.

In Kansas and western Missouri the aquifer dips to the west about 14 feet per mile with no significant change in the slope apparent along the boundary of the Ozark Plateaus province. The altitude of the top of the Ozark aquifer is about 150 feet at the west edge of the Ozark Plateaus aquifer system. A ridge of the Ozark aquifer extends southwest into Oklahoma and can be recognized on the land surface by a chain of island-like outcrops extending from Barry County, Missouri, to Sequoyah County, Oklahoma. This ridge approximately coincides with part of the area in northeastern Oklahoma where deeper geohydrologic units, the St. Francois confining layer and St. Francois aquifer, are missing in the subsurface along a southwest extension of the Ozark uplift. Uplift in this region probably began later and has not been as large as that in the St. Francois Mountains. The rate of dip of the aquifer increases at the southwest and south boundary of the Ozark Plateaus province. In Arkansas, the regional dip is about 25 feet per mile southwest within the Ozark Plateaus province, increasing to 175 feet per mile or more near the province boundary. Beneath the Mississippi Alluvial Plain, the dip is about 45 feet per mile.

GENERALIZED STRATIGRAPHIC COLUMN SHOWING GEOLOGIC UNITS THAT COMPRISE THE OZARK AQUIFER

PERIOD	GEOLOGIC UNITS THAT COMPRISE THE OZARK AQUIFER				
	SOUTHEASTERN MISSOURI	SOUTHWESTERN MISSOURI	SOUTHEASTERN KANSAS	NORTHEASTERN OKLAHOMA	NORTHEASTERN ARKANSAS
DEVONIAN	Chattanooga Shale	Chattanooga Shale	Chattanooga Shale	Chattanooga Shale	Chattanooga Shale
	City Limestone	City Limestone	City Limestone	City Limestone	City Limestone
SILURIAN	St. Clair Limestone	St. Clair Limestone	St. Clair Limestone	St. Clair Limestone	St. Clair Limestone
	St. Louis Limestone	St. Louis Limestone	St. Louis Limestone	St. Louis Limestone	St. Louis Limestone
ORDOVICIAN	St. Francois Limestone	St. Francois Limestone	St. Francois Limestone	St. Francois Limestone	St. Francois Limestone
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PALEOZOIC	St. Francois Dolomite	St. Francois Dolomite	St. Francois Dolomite	St. Francois Dolomite	St. Francois Dolomite
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