

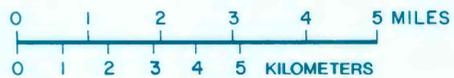
This map report shows the altitude of the water table in the Biscayne aquifer in Broward County for April 1988. The report, prepared by the U.S. Geological Survey in cooperation with the Cities of Fort Lauderdale, Hallandale, Hollywood, and Pompano Beach; Broward County; and the South Florida Water Management District, is one of a planned series of Biscayne aquifer water-table map reports made for the study area. Water-level data for this series of reports are collected twice annually, in April and October, to show the normally expected annual low and high water-level conditions, respectively.

The Biscayne aquifer occurs within the surficial aquifer system in southeast Florida and is the sole source of potable water for the area. It consists of the Pamlico Sand, Miami Oolite, Anastasia Formation, Key Largo Limestone, and Fort Thompson Formation all of Pleistocene age, and highly permeable beds of the Tamiami Formation of Miocene and Pliocene age (Fish, 1988). Water in the Biscayne aquifer is unconfined (Parker and others, 1955). Water levels in 137 wells (depths of 0-200 feet below land surface) in Broward County were measured by the U.S. Geological Survey during April 26-29, 1988. The water-level data from these wells, supplemented with data from other agencies, were used to construct contours depicting the water-table altitude. This map shows the altitude of the water table in the Biscayne aquifer in Broward County at the end of the dry season (November-April). The combined effects of low rainfall and increased urban and agricultural withdrawals typically cause the water table to be at its lowest level during April.

REFERENCES

Fish, J.E., 1988, Hydrogeology, aquifer characteristics, and ground-water flow of the surficial aquifer system, Broward County, Florida: U.S. Geological Survey Water-Resources Investigations Report 87-4034, 92 p.  
Parker, G.G., Ferguson, G.E., Love, S.K., and others, 1955, Water resources of southeastern Florida: U.S. Geological Survey Water-Supply Paper 1255, 965 p.

Base from U.S. Geological Survey 1/24,000 quadrangles



ALTITUDE OF THE WATER TABLE IN THE BISCAYNE AQUIFER,  
BROWARD COUNTY, FLORIDA,  
APRIL 26-29, 1988.  
By A. C. LIETZ  
1991