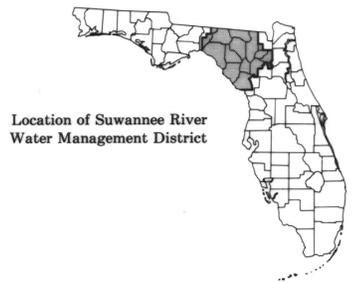
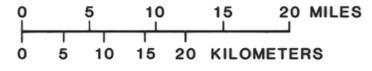


This map shows the May 1990 potentiometric surface of the Upper Floridan aquifer, the principal source of fresh ground water in the Suwannee River Water Management District and is based on ground-water levels measured during the annual low water-level period. Water levels in most wells measured were lower in May 1990 than in May 1985. May 1990 levels were slightly lower, about 1.5 feet or less, than May 1985 levels in the western part of the study area. In the eastern part of the study area, May 1990 levels averaged 4.5 lower than the May 1985 levels. The water-level declines are related to irrigation pumpage and below-normal rainfall. Water-level data were collected May 14-18, 1990, following an extended period of deficient rainfall. Cumulative rainfall at Lake City was 10.55 inches below normal in 1989 and 7.85 inches below normal in the first part of 1990. One long-term well at Lake City has had record low water levels for eight consecutive months and continues to have lower water levels than those measured during the major drought in 1954-57.

**EXPLANATION**

- 10 — POTENTIOMETRIC CONTOUR—Shows altitude at which water level would have stood in tightly cased wells. Contour interval 10 feet. Datum is sea level (National Geodetic Vertical Datum of 1929)
- — — SUWANNEE RIVER WATER MANAGEMENT DISTRICT BOUNDARY
- OBSERVATION WELL

NOTE: The potentiometric contours are generalized to portray synoptically the head in a dynamic hydrologic system, taking due account of the variations in hydrogeologic conditions, such as differing depths of wells, nonsimultaneous measurements of water levels, variable effects of pumping, and changing climatic influence. The potentiometric contours thus may not conform exactly with individual measurements of water level



**POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER SYSTEM IN THE SUWANNEE RIVER WATER MANAGEMENT DISTRICT, FLORIDA, MAY 1990**

By Paul E. Meadows  
1991

Base map prepared by  
U.S. GEOLOGICAL SURVEY  
Tallahassee, Florida  
August 1974  
from State of Florida Map  
1:500,000 Edition of 1967

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