



Hydrology of the southeastern coastal plain aquifer system in South Carolina and parts of Georgia and North Carolina

Walter R. Aucott

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This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1993-06 Excerpt: ...U.S. Geological Survey gaging stations, where they existed, and otherwise estimated from topographic quadrangles with 5-to 20-ft contour intervals. Streambed conductance values were initially selected from published estimates of hydraulic conductivities of silt (Freeze and Cherry, 1979, p. 24). The transient model was divided into eight pumping periods as follows: simulation. A specific yield of 0.15 was used in the half of the aquifer outcrop area nearest its updip limit and was used to simulate unconfined conditions (Stricker, 1983). In all other areas, confined conditions were initially simulated by using a storage coefficient of 0.0003. The value of the selected storage coefficient for confined aquifers is the median value of 21 published values for South Carolina clastic aquifers (Siple, 1967; Zack, 1977; Park, 1980; Aucott and Newcome, 1986). Ground-water withdrawals were estimated from published water-use data, telephone surveys, and site visits. In general, more recent data are considered to be the most accurate. Withdrawals were included in the model for users of greater than 0.2 Mgal/d during 1980. The spatial distribution of pumpage for 1980 for all users of 2 Mgal/d or greater is summarized in figure 20. Withdrawal rates for each stress period for the users of more Figure 36.--Conceptualization of model layers. Part of the downgradient (saltwater-freshwater) boundary of the Black Creek and Middendorf aquifers was simulated with a general-head boundary in the transient model. than 2 Mgal/d during 1980-82 are listed in table 3. Irrigation use prior to 1980 was relatively minor. Most municipal water use shows a gradual increase over time. Some industrial water-use patterns show abrupt changes indicative of plant openings or closings. The effects...

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