

MANAGEMENT OF KARSTIC AQUIFER SYSTEMS IN ARID AND SEMI-ARID CLIMATIC ZONES

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The management of groundwater flowing system in the limestone regions, especially in arid and semi-arid climatic zones, appears up to now as the most important proceeding for solving problems of water deficiency, to which are dedicated many of methodological studies and development facilities. The present state of knowledge makes it possible to describe aquifer systems and methods for estimation of renewable groundwater resource. This fact continually forces us to face the question if, and in what manner, as much as possible use technical control facilities to regulate the flowing network system for more efficient exploitation. Several case studies throughout the karstic terranes in Mediterranean countries are described representing examples of favorable circumstances to use artificial improvements. The methods for increasing the volume of stored water reservoir and controlling groundwater discharge with appropriate capacity involve such facilities as wells, dams, growth, curtains and drainage galleries. It should be emphasized, therefor water management strategy, the preliminary hydrogeological research is essential for the success of adopted control facilities.