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Autore	Heshmati Almas
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Consumption""C. Urban Population""D. Electricity Production""E. Tourism and Private Investment in Water""F. Improved Sanitation Facilities and Water Resources""G. Emissions and Organic Water Pollutants""H. Industrial Sub-Sector Water Pollution""3.3. SUMMARY OF THE COMPARATIVE REGIONAL STUDY""KURDISTAN REGION WATER RESOURCES IN AN HISTORICAL AND REGIONAL PERSPECTIVE""ABSTRACT""4.1. INTRODUCTION""4.2. GROUNDWATER IN THE KURDISTAN REGION""A. History and Landscape of Iraq""B. Groundwater in Kurdistan""C. Benefits and Limitations of Groundwater""D. The Effect of Pollution on Groundwater""D.1. Decades of Wars, Destruction and Neglect""D.2. Agriculture Waste and Pollution""D.3. Household Waste in Both Urban and Rural Areas""D.4. Industrial Waste Material""4.3. SURFACE WATER IN KURDISTAN""A. Historical Background""B. Major Tigris Tributaries in Kurdistan""B.1. Greater Zab Tributary in Hawler""B.2. Lesser Zab Tributary""B.3. Khabur Tributary""B.4. Sirwan Tributary""B.5. Awa Spy (Udhem)""C. Springs in Kurdistan""C.1. Springs in Hawler Governorate""C.2. Springs in Sulaimanyah Governorate""C.3. Springs in Duhok Governorate""D. Measuring the Flow of Water in Rivers and Springs""E. Maximum and Minimum Discharge of Rivers and Springs in Kurdistan""F. Average Rate of Rain and Snowfall in the Kurdistan Region Governorates""4.4. DAMS AND RESERVIORS""A. Historical Background of Dams in Iraq""B. Dams and Reservoirs in Kurdistan Region""C. The Socioeconomic Impacts of Dams""D. Major Dams in the Kurdistan Region""E. Dams under Construction""

## Sommario/riassunto

This book examines the current economic practices of water management in the Southern Kurdistan Region (SKR) and suggests ways to change environmental conditions to encourage the region's decision makers to pursue sustainable resource development through interstate and within Kurdistan Region KRG-consumers' co-operation. The focus is on: making a comparative study of water resources between Iraq, its neighboring countries, MENA and the world averages, conducting a sector analysis to identify and quantify available water resources, the needs and sub-optimality in their uses, analyzing current allocation of water and quantifying and suggesting necessary reductions in wasteful use of water resources, designing water policies and suggesting measures that improve regional water planning and management practices, developing techniques and models in the projection of demand, supply and future utilization patterns and quantification of the water gap, suggesting alternatives for provision of water to areas facing scarcity on the basis of sustainable long-term and minimum cost solutions, suggesting necessary mechanisms for approaching interstate cooperation and for participating in the building of interregional institutions, proposing economically and environmentally optimal practices for within region and interstate cooperation and resource management, and suggesting opportunities for increased government investment in the development and management of the water market.