



# Water Security: Conflicts, Threats, Policies

*James A. Tindall, Andrew A. Campbell*

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**Water Security: Conflicts, Threats, Policies** Whether economically, environmentally, or socially, there is no greater threat to international security or individual quality of life than scarcity of water. Water distribution systems extend over vast areas and are therefore vulnerable to a wide array of risks. These dangers are many — from increasing global population to man-made, natural, and technological hazards. Disruption of water supplies can threaten the delivery of vital human services, endanger public health and the environment, cause mass casualties, and threaten population sustainability, social stability, and national and homeland security. Devising concepts and counter measures to protect water supplies will assist the public, policy makers, and planners at all levels of government to develop solutions for national and international water-security and sustainability issues. If you are a policy maker, planner, manager, involved with the general public, a student or, if you work in a science agency, law enforcement group, homeland or national security, or intelligence agency, this book is for you. Anyone interested in water or developing solutions to water-security threats should read this book. The security implications of water are fundamentally characterized by uncertainty introduced with respect to overall water availability, economic sustainability, and social stability, which are influenced by: The 3 Primary Hazards (natural, manmade, and technological), Critical Infrastructures, Emergency Services, Energy-water Interdependence, Industrial Control Systems, National and Global Security Implications, Policy & Governance, Public Health, SCADA, Storage and Supply, Agricultural Water Security, Terrorism and other Threats, Transboundary Water Issues, Water Economics, Water Pricing, and more. **By 2050 nearly 5 billion people will be affected by freshwater scarcity.** *In the near future simultaneous shortages of food, water and power, created in large part by water scarcity, could dramatically destabilize mass population sustainability, security, and governance. For a national economy, it is important to understand three basic areas of water economics 1) the relation between the overall economy and the water sector; 2) the physical, social, and economic nature of water; and 3) the pros and cons of alternative approaches of water policies for public use and policy issues ... Pricing water is difficult ... Security of Water is a priority ... Terrorist, natural, and technological hazards play an important role in mitigation of failure of water systems, interdependent critical infrastructures, and policy implementation to reduce risk and vulnerabilities. The divergence between nations concerning economics, infrastructure, and political orientation has complicated transboundary water sharing. . . China's survival and economic sustainability is increasingly threatened by water-security and supply issues. Scarcity problems in the Middle East, Africa, the U.S., India, Pakistan, and elsewhere are increasing.* **Water Security: Conflicts, Threats, Policies** is the first book to focus in-depth on water-sector interdependencies and its security among economic sustainability, governance, management, policy, water pricing, and related critical national-security issues. This is the only book that clearly demonstrates the growing crises of water security, supply, and sustainability and how to develop policy, initiate water pricing, overcome transboundary water-sharing problems, and how to mitigate threats from the three primary hazards... No other book pulls it all together. This work lists the tools, issues, and problems that will empower water managers, policy makers, economists, and risk analysis, security and intelligence professionals to develop real solutions for water-security problems. All needed information in once source—far beyond a surficial treatment of subject.

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