

# Guiding Questions for Water Resources Systems Analysis Research

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<https://doi.org/10.1061/JWRMD5.WRENG-6198>

Water resources systems analysis (WRSA) combines quantitative and qualitative methods informed by multiple scientific disciplines, serving many broad water-related societal goals such as providing safe drinking water and mitigating floods and other disasters. Water utilities, flood control districts, and government agencies have regulatory mandates to meet these objectives. However, these entities face growing challenges including trade-offs between human and ecological needs, climate change, increasing population, aging infrastructure, and pressures from interconnected sectors such as food and energy. The aim of WRSA research, then, is to contribute new general methodologies for addressing these challenges and specific solutions for pressing problems.

However, it is not always clear that knowledge developed in the WRSA field is generalizable (across case studies and regulatory contexts) and actionable (both in real-world systems and across academic fields). To this end, this editorial argues the need for systematic guiding questions for WRSA research. Such questions should address the relative importance of normative and positive analysis, the proper formulation of optimization problems, and the fidelity of mathematical representations of water resources systems. After exploring these ideas, we suggest pillars of guiding research questions for the field to support the aim of increasing generalizable and actionable knowledge within WRSA and improved water system sustainability.

## Normative and Positive Analysis

Place-based concerns hinder the ability for WRSA to have a single unifying structure. Watersheds and aquifers have different hydrologic and climatic characteristics; they are also subject to different laws (across multiple levels of government, such as federal and state). Some water utilities, for example, manage their own supplies but do not own the land within watersheds where their runoff is generated. These case conditions set the fundamental structure of the analysis (i.e., modifying the format of models, objectives, and decisions) and thus research is situated in the regional context and may not be generalizable. In contrast, general knowledge for WRSA would extend beyond individual cases, yield scientific benefits, and improve management of multiple systems not previously studied.

Given the common dependence on a particular watershed, water utility, or case study, it is helpful to distinguish between positive and normative approaches within WRSA research. Positive

analysis seeks to understand the way that things are (i.e., descriptive), an approach common in the natural sciences. Normative analysis, in contrast, suggests the way that things should be (i.e., prescriptive). It has been argued that normative analysis is common in economics because the discipline was founded contemporaneously with the development of modern economies and nation states (Hausman 2018). Economic science was intimately linked to public policy, and the proliferation of WRSA research today could have a similar effect on current water policy decisions.

Normative economics is driven by fundamental assumptions about an overall objective (e.g., increasing welfare) and a mechanism for how that objective should be realized (e.g., in a collective satisfaction of preferences). In generating, simulating, and evaluating alternative management solutions for water resources problems, WRSA assumes both an objective and that the current understanding of system processes is sufficient to identify reliable mechanisms to achieve that objective. This optimization framing is normative by construction, in that the philosophy of managing the system will be to maximize one or more objective functions as represented in a mathematical model.

There are cases, though, in which a positive analysis for WRSA can be helpful. In hydrologic science, a fundamental science basis to WRSA, positive inquiry focuses on process understanding (e.g., run-off generation). Process understanding should also be emphasized in WRSA—how multidisciplinary water management processes interact (e.g., financial management, infrastructure operation). By using valuable input from social sciences, positive analysis within WRSA can aid in problem formulation and identify how management processes are carried out in the real world, and this increased understanding could foster better transfer of knowledge across cases and more realistic problem formulations for optimization analysis.

## Problem Formulation and Model Fidelity

In 1960, Charles Hitch wrote of the search for objectives in systems studies and observed that there is not a “national objective” for the United States (e.g., protect national security, education) (Hitch 1960). Our current contested politics shows that this is even more true now. The provision of clean drinking water could be a primary WRSA goal, but contemporary water quality crises show that systems are not always organized around this goal [e.g., the Flint lead crisis (Butler et al. 2016)]. Moreover, the definition of objectives and specification of how to weigh trade-offs are inherently value judgments. In fact, even the selection of the quantitative metrics used to directly compare alternatives is value laden. For example, is efficiency valued more than robustness? And what counts as a benefit or a cost, and for whom? Overall, the field has only recently begun systematically addressing questions of who participates in the definition of objectives and how different perspectives are reconciled or aggregated (Fletcher et al. 2022).

WRSA for policy-relevant questions requires a strong mathematical representation of the system. The modeler must understand the structure of the system at the level of dynamics that influence the problem and potential solutions at the relevant time scale(s). This applies to hydrological and water management

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