

Methodology and criteria for the allocation of reused water in agriculture

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Abstract: This chapter provides a methodology to analyze the allocation of reused water. The tool has been developed for the Guadalquivir River Basin Authority, allowing decision makers to rank the actions on the reutilization of urban water for agriculture. The decision support is based in four groups of attributes: (1) resource supply, (2) environmental impact, (3) technical and economic feasibility and (4) social and institutional impact. A multicriteria decision method is proposed to aggregate all selected indicators. Results show the experience of stakeholders that participated in the evaluation process.

Keywords: Wastewater reuse; Agriculture; Water management; Multicriteria decision analysis; River basin.