

Quantification and Analysis of Domestic Water Demands and Losses in the Algerian South

Authors

R Masmoudi, A Kettab

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Description

Demand for drinking domestic water is continuously increasing specially in urban centres which experience high demographic expansion. The decrease of water losses in water supply networks can help preserve such a rare resource. Low number of water meters and intermittent supply make it difficult to quantify the leaking volumes of water. This article presents an analysis of the demand for drinking water based on an extrapolation from a sample of consumers on whom data are available. Comparison of the volumes of water produced allows a determination of the losses in the water supply system. This analysis is completed by measurements of night flows. The results obtained may be relied on for an evaluation of the needs for drinking water in the South of Algeria, and for future regional development. The study indicates a high rate of water losses in the distribution network, reaching about 44%, and over ...