

The application of rural threshold water consumption model in water supply studies

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Abstract The development of the Rural Threshold Water Consumption (RTWC) model for solving rural water problems has contributed valuable data in hydrological sciences modelling. The model objective is to quantify domestic water consumption, generate a threshold value and delineate areas of deficits, balances or surpluses at regular and supplemental periods using local techniques. The end result is the prediction of risks, as well as solutions to rural water problems. The paper thus establishes the use of the RTWC model as an analytical tool, and a planning kit for water sector planners and decision makers for sustainable year-round domestic usage water allocation.

Key words RTWC model; rural water supply; Nigeria