

PLANNER'S APPRAISAL OF THE INDICATORS OF DOMESTIC WATER STRESS IN HONG LOCAL GOVERNMENT AREA OF ADAMAWA STATE, NIGERIA

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ABSTRACT

This paper examined and appraised the indicators of Domestic Water Stress (DWS) which is a ratio between water requirement and water availability per capita per day or per household per day. The appraisal is done in line with the planner's point of view. Domestic Water Stress Index (DWSI) was developed from the United Nations minimum standards of 50 litres per capita per day with a range between 0.1 to 1+ with categories of stress classified severe stress, partial stress and no stress. A total of 2,135 households were sampled randomly where one respondent was chosen also randomly. Correlation analysis was used to examine the relationship between the DWS, Local Water Stress (LWS) and Perceived Water Stress (PWS) and their associated indicators such as distance to sources, queuing time, degree of flow, total time spent on accessing water, seasonal changes and number of existing water supply infrastructure. Results indicated that there is a correlation between DWS and these indicators. With this scenario, the planner makes appraisal of the incidence of DWS in relation to these indicators in a manner that balances their implications on the quantity of water to households or individuals. Planner's role in appraising water related problems such as domestic water stress cannot be overemphasized because of its sustainable outcomes. It is recommended that a sustainable plan of water supply can be prepared using this appraisal.

KEYWORDS: Appraisal, Domestic Water Stress, Indicators, Planning, Water Supply & Planner

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