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Drinking Water
Engineering and Science
Discussions

[DWESD]

Interactive
comment

Interactive comment on "Domestic water consumption pattern by urban households" *by* Amarasingam Narmilan et al.

Anonymous Referee #1

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The study is interesting. However, there are much doubt regarding the validity of the data collection. The statistical analyses conducted in this study are also simple. Why don't author use linear regression, for example? I strongly suggest authors do extra analysis, i.e. linear regression, to have stronger results.

The draft structure is also poor, e.g., start the sub-section by a table. I suggest accepting this draft ONLY if they can improve the manuscript significantly.

Abstract: Please state clearly what the benefits are in the abstract.

Keywords: change "efficiency" to "water efficiency".

Introduction: The household water consumption is determined by quite a few factors, such as climate, seasonality, socioeconomic characteristics, and socio-demographics

-> please give references.

Methods: 1. Please put the map of the location. 2. Please elaborate all statistical analyses you did in the methods section, e.g. correlation test, PCA, etc. 3. A Simple random sampling technique was followed to select households -> Please elaborate what you mean by "simple". 4. How did you come up with "75 households belonging to the 20 urban area in Batticaloa District in Manmunai Pattu"? 75 households are not enough to represent an urban area with, let say, 1000 households. if the total population is thousands, then 75 is too small. 5. How did you come up with the demographic variables used in the analysis? for example, why did you choose income and not other things? Please support with literature.

Results and discussion: 1. Never start a new section or sub-section by a table or picture. Always start by sentences/paragraph. Please edit the whole sub-section! 2. Please improve table 1. please see, for example, https://doi.org/10.1080/09603123.2016.1217314 (in table 2). 3. Please include mean/average, min, max in table 1, if applicable. 4. You already have table 1, so don't need to elaborate on the characteristics of the respondents in detail. 5. You don't need to show the table of Pearson correlation between 2 variables. write only the correlation value and p-value to shorten the draft. Please edit all tables with Pearson correlation! 6. Please improve all pie charts, they are in bad quality, maybe use a normal chart without variation; improve also chart in Figure 3. 7. There is no data that support all sentences in no. 2 (age of household members). This looks like empty discussion, without supporting data/results.

Conclusion: 1. Never write the software used in the conclusion! 2. What is/are the implication of this study??

Interactive comment on Drink. Water Eng. Sci. Discuss., https://doi.org/10.5194/dwes-2020-32, 2020.