

Hydrol. Earth Syst. Sci. Discuss., referee comment RC2  
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## **Comment on hess-2022-257**

Anonymous Referee #2

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Referee comment on "The effects of rain and evapotranspiration statistics on groundwater recharge estimations for semi-arid environments" by Tuvia Turkeltaub and Golan Bel, Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2022-257-RC2>, 2022

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This study identified the important characteristics of the local rain and  $ET_{ref}$  for estimating the diffuse recharge under semi-arid climate conditions. I consider that the evaluation of the synthesis methods for rain and  $ET_{ref}$  is a great contribution since these variables have great importance on GR models. My only concern is the assumption of a homogeneous soil and only two locations considered, but they bear in mind this situation. However, some corrections are needed to improve the quality of the manuscript. Detailed corrections are presented in the pdf file.

Please also note the supplement to this comment:

<https://hess.copernicus.org/preprints/hess-2022-257/hess-2022-257-RC2-supplement.pdf>