

It is my pleasure to review the manuscript “Quantitative contribution of climate change and human activities to runoff changes in the Wei River basin, China” for HESS. The manuscript is interesting to understand the influence of human activities and climate change in the annual runoff, which is one of the focuses in the hydrology field. The authors develop an improved climate elasticity method to conduct quantitative assessment of climate change and human activities on the runoff decrease in Wei River basin. The study has a good innovation.

For the contents of this article, I have the following suggestions.

1. Lines 380-396 discussed the land use and land cover changes in the Wei river basin, if the authors can provide some figures or references, it will be more persuasive.
2. In lines 336-342 the authors use the results of other articles to demonstrate the method improved in this paper, it will be more persuasive if more results from different papers and different methods are listed.
3. I suggest the author add some description of relationship in the "Trend analysis", “change-point analysis”, and “climate elasticity method”, it will increase the logic of this paper.