

Interactive comment on “A novel data-driven analytical framework on hierarchical water allocation integrated with blue and virtual water transfers” by Liming Yao et al.

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The research entitled "A novel data-driven analytical framework on hierarchical water allocation integrated with blue and virtual water transfers" is interesting and provides some insights that can be used by the decision makers for taking sustainable decisions. However, The paper could be accepted for publication if the authors incorporate the following comments and suggestions in final draft . 1. Elaborate the disagreement point of the leader in the Stakelberg model. 2. I strongly recommend to explain the meaning of all variables and parameters for improving the readability of the paper. 3. What are the termination conditions mentioned at Page 11? Please make it clear. 4.

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Line 273, please revise the formation of reference citation. 5. Variable unit is needed in each Table, such as Table 8. 6. Unnecessary reference lump should be avoid through the whole paper, such as "Generally speaking", cited references should have meaning. 7. Conclusion section is a little lengthy and therefore needs to be shrunk. Too much information would distract people attention. 8. Personally, I would like to see some more elaboration on managerial insights. What kind of problem can be solved by the proposed model? Whether the results are able to offer some suggestions on future water management in real-world practice.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2019-389>, 2019.

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