

# ***Interactive comment on “Implications of water management representations for watershed hydrologic modeling in the Yakima River Basin” by Jiali Qiu et al.***

## **Anonymous Referee #2**

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General comment This manuscript used SWAT and RiverWare models to study the impacts of management activities such as reservoir operation and irrigation on streamflow. Human impacts on hydrology are important and interesting, and study of them is also very challenging due to the randomness and uncertainty of human activities. Thus, the study could be a good contribution to this field and the methods are reasonable. However, there are some issues that need to be addressed.

Specific comments 1. L20-21: may not be necessary 2. The last paragraph of Introduction needs to be rephrased. L83-85: you may want to delete this as it is better to see it after you described your results. L81: ‘this study aimed to ...’ and ‘Objective

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(1)' are nearly the same, you may want to delete one. L87-90: it is unexpected to see SWAT and RiverWare as the authors did not mention how and what method they used before. 3. L209: What are Ens and r? What are R in Figures? 4. 3.1 and 3.2 are results about sensitivity and performance. They should describe the results with numbers. Similarly, 3.3 and 3.4 lack numbers to support their statement. I would suggest use a few important numbers when necessary. 5. The quality of Figures 6 and 7 can be improved. 6. There is a grammar issue for Caption of Figure 5.

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