

Interactive comment on “An assessment of land use change impacts on the water resources of the Mula and Mutha Rivers catchment upstream of Pune, India” by P. D. Wagner et al.

Anonymous Referee #1

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General comments:

The authors in section 2.3 mentioned that there was no need for them to calibrate the model since it was an impact study. I strongly disagree because they still need to assess model performance with observed data and that can be done with site specific calibration. This will greatly influence the impact assessment results.

On section 3.2 the authors, should in addition to correlations, carry out trend analyses on rainfall and simulated flows. The reason for this is to ensure that there are no false signals of land use change, which may have been attributed by rainfall changes. These results should be presented. Also the significance of change should be quantified using

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for instance parametric or non-parametric tests.

Otherwise, it is an interesting study with good assessment on classification of land uses.

Interactive comment on Hydrol. Earth Syst. Sci. Discuss., 10, 1943, 2013.