

## ***Interactive comment on “Effects of cultivation and reforestation on suspended sediment concentrations: a case study in a mountainous catchment in China” by N. F. Fang et al.***

**Anonymous Referee #3**

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Dear author (and editor), I found the paper of interest, well written and also with interesting findings. My comment is first for a technical question... I suggest that you will improve the figures as your findings are of high interest and you are telling us a nice story, but you need better figures to make your paper easy to read. A second comment is that your discussion needs to bring the results of other researchers to the discussion and show what they found in other parts of the world, and to show how similar is to what you found There is a clear reduction of the river discharge and you should tell this to the audience Also that the land use is the key factor... see below some references will help you to make your paper more attractive

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the land abandonment reduce the sediment and water losses... this is good example see below Keesstra, S.D., Bruijnzeel, L.A., van Huissteden, J., 2009. Meso-scale catchment sediment budgets: combining field surveys and modeling in the Dragonja catchment, southwest Slovenia Earth Surface Processes and Landforms 34: 1547-1561. DOI: 10.1002/esp.1846 Keesstra, S.D., 2007. Impact of natural reforestation on floodplain sedimentation in the Dragonja basin, SW Slovenia. Earth Surface Processes and Landforms, 32(1): 49-65. DOI: 10.1002/esp.1360 Keesstra, S. D., Kondrova, E., Czajka, A., Seeger, M., & Maroulis, J. (2012). Assessing riparian zone impacts on water and sediment movement: a new approach. Netherlands Journal of Geosciences, 91(1-2), 245-255. DOI: <http://dx.doi.org/10.1017/S0016774600001633> Keesstra, S.D., Bruijnzeel, L.A., van Huissteden, J., 2009. Meso-scale catchment sediment budgets: combining field surveys and modeling in the Dragonja catchment, southwest Slovenia Earth Surface Processes and Landforms 34: 1547-1561. DOI: 10.1002/esp.1846 L. Olang, P. M. Kundu, G. Ouma and J. Fürst 2014 . IMPACTS OF LAND COVER CHANGE SCENARIOS ON STORM RUNOFF GENERATION: A BASIS FOR MANAGEMENT OF THE NYANDO BASIN, KENYA LAND DEGRADATION & DEVELOPMENT Volume 25, Issue 3, May/June 2014, Pages: 267–277, , DOI: 10.1002/ldr.2140 Ceballos, A. Cerdà, A. & Schnabel. 2003. Runoff production and erosion processes on a Dehesa in Western Spain. Geographical Re-view, 3, 333-353.

The land use and the river responses

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this is found at pedon and slope scales and the land use is the key factor

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