

## ***Interactive comment on “Experimental determination of the flood wave transformation and the sediment resuspension in a small regulated stream in an agricultural catchment” by David Zumr et al.***

### **Anonymous Referee #1**

Received and published: 5 July 2017

The paper presents a valuable methodology of conducting the artificial flood experiment in the field climatic conditions of Central Europe. Although the sets of experiments were conducted under varying conditions (considering the baseflow and vegetation cover) it presents values that could meet the interest of the scientific community.

To increase the scientific content and clarity of the text the following modifications are suggested:

1, Abstract should more clearly specify what was the aim of the study (as it was present

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in the Conclusion part).

2, Regarding the content of the manuscript – part 3.2 Numerical modelling should be moved from the Result section to (Materials and) methods section. More detailed information on the setup should be provided on modelling in HEC-Ras (parametrization, steady flow?, etc.). Also I would consider joining Results and discussion (if the policy of the publisher allows it).

3, When citing the literature sources at the beginning or in the middle of the sentence, please use the format “author1 (year1), author2 et al. (year2) and authorC (year3)” – text highlighted in the draft of the manuscript. The format “(author1, year1)” is appropriate for the use at the end of sentence, as a reference for tables, etc.

4, Information regarding the period of experiments should be uniformed – in abstract (line 11 and 12), it is stated that the measurements were done in summer and spring, while elsewhere (e.g. page 3, line 2) summer and winter are referred to. The same applies to volume of the flood wave – 17 m<sup>3</sup> (page 1, line 14) vs. 16 m<sup>3</sup> (page 10, line 19).

5, Further I would suggest to refer to the experiments dates as September 2012 and March 2013 throughout the text (as it is done on page 5, line 3) and also tables and images (where appropriate).

6, The Latin names of the plant species should be written in italic script, except the “authority”, e.g. *Triticum aestivum* L.

7, The script contains typos and formal errors (such as missing upper case, spaces, etc.) – some of them are also highlighted in the text.

8, Figures should be referred and Fig. 1 and 2 throughout the text, at this moment the format is not uniform.

9, The publisher does not require the number of issue of the cited journal articles, so these numbers should be removed.

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10, In the final the manuscript should be checked by English native speaker to increase the readability of the text for the scientific community.

Please also note the supplement to this comment:

<https://www.hydrol-earth-syst-sci-discuss.net/hess-2017-266/hess-2017-266-RC1-supplement.pdf>

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Interactive comment on Hydrol. Earth Syst. Sci. Discuss., <https://doi.org/10.5194/hess-2017-266>, 2017.