

Interactive comment on “Development and testing of a large, transportable rainfall simulator for plot-scale runoff and parameter estimation” by T. G. Wilson et al.

Anonymous Referee #3

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The paper reports an interesting attempt to setup a rainfall simulator to be used to identify field parameters for the rainfall/runoff process, also including soil infiltration parameters. The topic is well presented and in general the paper is very well written and organised. Of course the topic is interesting for hydrologist and, in principle, the quick deployment of a rainfall simulator can guarantee the characterizations of several plots in a watershed. However the low cost of the installation in terms of materials and time has to be better proven. I suggest to the authors to provide more information about the role of the vegetation coverage is not clearly explained. I think the authors should provide more information about the density of the (tall) grass. In fact this can

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affect the results. Some information about the root zone of these plants should be also provided. There is any possibility that the vegetation could affect the infiltration model? The authors should explain why do they choose a vegetated field if they did not take into account the vegetation in the computation (at least with a simple approach. I think that this topic should be introduced in the paper.

Minor revisions: 1) pag. 4268; row 11; replace "carried out in" with "carried out" 2) pag. 4270; row 11; add "%" after "80.2 and 83.7" 3) pag. 4273; row 19; delete "inlet" 4) pag. 4273; row 24; please justify the 30° angle of the CS616 5) pag. 4283; please check the first row; 6) pag. 4285; row 23; delete "are"

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