

Interactive comment on “Sediment yield model implementation based on check dam infill stratigraphy in a semiarid Mediterranean catchment” by G. Bussi et al.

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Given the key importance of the dry bulk density within the model implementation process, as stated by reviewer #3, we decided to measure it.

To do this, we have taken five samples at different depths (between 10 and 90 cm). The results range between 1.014 and 1.389 t m⁻³, and the mean value is 1.150 t m⁻³. The Miller formula provided a value of 1.195 t m⁻³.

It is expected that the average dry bulk density of the whole deposit is slightly higher than the measured value, given that the total depth is around 2 m. For this reason, we

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think that the dry bulk density value calculated by means of the Miller formula has been confirmed by the field measurements and can be reasonably used without change in this study.

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