

Interactive comment on “Rainfall and human activity impacts on soil losses and rill erosion in vineyards (Ruwer Valley, Germany)” by J. Rodrigo Comino et al.

Anonymous Referee #1

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In P 16 L 5 you wrote: ‘With this method 116.6 tha⁻¹ soil loss was calculated on the old vineyard, which means 3.3 t ha⁻¹ yr⁻¹. Respectively in the first year on the young vineyard 53.1 than was measured, which is much more than the yearly average.’ The average soil loss is meaningless when comparison between young and old vineyards is done. It is very possible that in the first years of plantation higher rates occurred in the old vineyard and lower rates will occur in the next years in the young ones. Machines existed 35 years ago. For example if you assume that the soil loss was 53 tha⁻¹ (similar to the young vineyard) in the first year the soil loss in the rest 34 years the was 63.5 tha⁻¹. This divide into 34 (years) gives 1.9 tha⁻¹. This value is not far from the values found in other studies. Do you have info on the management of the old vineyard? Such

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info will promote the discussion and the comparison which relate to other studies in the area; it might lead to identification of the main trigger/s for rill development.

Interactive comment on Solid Earth Discuss., 7, 259, 2015.