

Interactive comment on “Effects of topsoil treatments on afforestation in a dry-Mediterranean climate (southern Spain)” by P. Hueso-González et al.

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Dear Prof Cerdà:

Firstly, thank you so much for your positive feedback. Secondly, i would like also to thank you for this complete bibliographic collection. Now several of this references have used to improve our manuscript.

Regarding to the lack of differences on SOC, 30 months after the amendment addition, three are the main reasons that could justify this fact:

i) the lack of previous composting in the treatments added, which increased the time needed for decomposition processes to occur (García-Gomez et al., 2005).

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ii) the high content of lignin and cellulose in the amendments used (Duryea et al., 1999; Jensen, 2009).

iii) the medium-high rates applied (10 Mg ha⁻¹) (Young et al., 2015).

Thus, as we are testing in recent soil samplings, under our climatic conditions more time could be needed to noted significant differences on SOC (>40 months after the soil treatment addition) (Hueso-González et al., 2014).

Thank you for your time and positive comments.

Yours faithfully.

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