Hydrol. Earth Syst. Sci. Discuss., https://doi.org/10.5194/hess-2019-329-RC3, 2019
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Interactive comment

Interactive comment on "Coffee and shade trees show complementary use of soil water in a traditional agroforestry ecosystem" by Lyssette E. Muñoz-Villers et al.

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Review of the manuscript 'Coffee and shade trees show complementary use of soil water in a traditional agroforestry ecosystem' by Muñoz-Villers et al. (hess-2019-329)

General comment

Reading this manuscript was pleasant. I particularly liked the idea of including the distribution of roots and nutrients in the mixing model approach, and I think that this point should be better stressed in the manuscript.

Overall, I fully agree with the comments provided by the reviews of Matthias Beyer and

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Adrià Barbeta, and I have only some minor comments to add.

Good job!

Daniele

Minor comments and technical corrections 42-43. This sentence is not immediate to understand without reading the paper. I suggest rephrasing.

- 45. Double negation (limitation...absent): I suggest simplifying the sentence.
- 64. Complex sentence, rephrase.
- 149. I suggest to change into "...prevails over competition..." or, in any case, to include both the terms "complementary" and "competition" because the latter is logically linked to the second research question.
- 268. Did you consider using the Normalized Antecedent Precipitation Index (NAPI, Heggen, 2001), instead of API? Heggen, R.J., 2001. Normalized antecedent precipitation index. J. Hydrol. Eng.
- 385-405. I suggest to condense this part and let the figures talk for themselves.
- Fig. 3. Caption: why panel (c) shows the GMWL whereas panels (a) and (b) the LMWL?
- Fig. 4. I suggest to replace "(a)" and "(b)" with "2014" and "2017" for more immediate understanding.
- Fig. 5. What do error bars represent? Why are there only in panel (a) and not in panel (b)?
- Fig. 8. I think that the result and discussion build around this figure should be taken with a bit of caution because based on few point only. I suggest to discuss this limitation in the manuscript.

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