

## ***Interactive comment on* “The impact of drought on the productivity of two rainfed crops in Spain” by Marina Peña-Gallardo et al.**

### **Anonymous Referee #3**

Received and published: 29 March 2019

The paper deals with the study of impact of drought on two representative rainfed crops in Spain (wheat and barley) through the analysis of the droughts events over this area from several drought indices, both multi-scalar and uni-scalar ones. This is an interesting task that has been assessed by other authors and the results of the present study must be put in those context. Some of these papers are:

Ribeiro, A.F.S., Russo, A., Gouveia, C.M. et al. (2018) “Modelling drought-related yield losses in Iberia using remote sensing and multiscale indices” *Theor. Appl. Climatol.* 10.1007/s00704-018-2478-5.

Gouveia, Célia & Trigo, Ricardo & Beguería, Santiago & Vicente-Serrano, Sergio. (2016) “Drought impacts on vegetation activity in the Mediterranean region: An assessment using remote sensing data and multi-scale drought indicators” *Global and*

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Planetary Change. 10.1016/j.gloplacha.2016.06.011, in a more general context.

Authors must be careful with some typo errors. For example: SYRS formulae or mistakes on citation as “by Lobell and Asner, (2003), Lobell et al., (2011) and Potopová et al., (2015).” (commas exceed). Also in the first paragraph of page 6 (line 186), it is not clear how many correlations were obtained, why 120?

Assessing these minor revisions, I recommend accept this paper, due its interest, if all these changes are made.

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Interactive comment on Nat. Hazards Earth Syst. Sci. Discuss., <https://doi.org/10.5194/nhess-2019-1>, 2019.

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