

SOIL Discuss., referee comment RC2  
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## Comment on soil-2021-118

Anonymous Referee #2

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Referee comment on "Effects of environmental factors on the influence of tillage conversion on saturated soil hydraulic conductivity obtained with different methodologies: a global meta-analysis" by Kaihua Liao et al., SOIL Discuss., <https://doi.org/10.5194/soil-2021-118-RC2>, 2022

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### Reviewer comments

Dear editor and authors,

General comments:

This study is aimed to assess the association between experimental conditions and the response of the soil property: saturated hydraulic conductivity ( $K_{sat}$ ). Particularly, it is intended to deduce if the methodology used and some environmental conditions are associated with a certain response in  $K_{sat}$  in soils that underwent a conversion from conventional tillage practices to conservation tillage practices. This study is based on the application of a meta-analysis of published data.

I consider that the topic is within the scope of the journal and has international relevance. The manuscript is in general well-structured and written. However, I agree with the concerns presented by the editor and the reviewer 1.

Specific comments and technical corrections:

Page 4, Line 70. Is this sentence implying that tillage affects soil texture?

Page 10, Line 203-205. Suggestion: add the treatments that are being compared, to the sentence.

Page 11, Line 208. It is suggested to replace the wording "under CS" for "under CS conversion".

Line 210. Consider an alternative for this wording: reverse response

Line 261. Eliminate the word "which" or revise the sentence for alternatives.