Review Report Form

**Open Review**

( ) I would not like to sign my review report  
(x) I would like to sign my review report

**English language and style**

( ) Extensive editing of English language and style required  
( ) Moderate English changes required  
( ) English language and style are fine/minor spell check required  
(x) I don't feel qualified to judge about the English language and style

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| --- | --- | --- | --- | --- |
|  | Yes | Can be improved | Must be improved | Not applicable |
| Does the introduction provide sufficient background and include all relevant references? | ( ) | (x) | ( ) | ( ) |
| Are all the cited references relevant to the research? | ( ) | (x) | ( ) | ( ) |
| Is the research design appropriate? | ( ) | ( ) | ( ) | (x) |
| Are the methods adequately described? | ( ) | ( ) | (x) | ( ) |
| Are the results clearly presented? | ( ) | ( ) | (x) | ( ) |
| Are the conclusions supported by the results? | ( ) | ( ) | (x) | ( ) |

**Comments and Suggestions for Authors**

I appreciate the interesting location and the pedological assessment. The paper has several significant formal flaws. Please use only SI units in the article (do not use "Mg"; or "cm"). The text is not properly divided into chapters. Evaluation of the influence of mechanization is unacceptable. Their technical parameters determine the influence of tires on soil properties. The design of your observation does not allow this! The terms "in-the-wheel-track (IT)" and "outside-the-wheel-track" (OT) are unacceptable. You can replace "places with frequent crossing" and "places without crossing".

**Abstract:**

·         It is not clear what new things you have discovered.

·         Line 12: "intensive tillage" - replace "intensive"

**Introduction:**

·         Line 34: "other Mediterranean regions", what do you mean by "other"? "Mediterranean" - this term is used to refer to the region around the Mediterranean Sea. Consider replacing this term in both the text and the title. It will be good to avoid confusion.

·         Line 75 "excessive tillage" - how do you understand the term "excessive"?

·         Define hypotheses. It is not clear what you expect. The title shows that you want to evaluate the variability of selected properties. Please include it in the hypotheses. Considering your methodology, goal (i) is unacceptable.

**Materials and Methods:**

·         Any information about technology and tires is missing.

·         Lines 109 – 110: It is necessary to describe the entire technology of growing corn.

·         Line 112: You cannot prove this. If you don't use GPS navigation and even then, it's questionable.

**Results and Discussion:**

·         I recommend dividing it into two chapters

·         The text blurs the differences between your results and the quoted data.

**Conclusions:**

·         Write only your most important findings!

·         Line 511 – 512: "This directly affects soil functionality, limiting the ability of the roots to reach water and nutrients, reducing maize yields, but this effect could be eliminated through deep ploughing." - are these your results?

**English errors:**

**Line 40:**..making difficult an straightforward comparisons.. A straightforward

Submission Date

25 August 2022

Date of this review

07 Sep 2022 17:29:56