

**Review Form 3**

Journal Name:	<a href="#">Asian Journal of Research in Agriculture and Forestry</a>
Manuscript Number:	Ms_AJRAF_126217
Title of the Manuscript:	<b>Impact of Land Use and Land Cover Changes on Soil Physio-Chemical Properties in Southern Tigray, Northern Ethiopia</b>
Type of the Article	<b>Original Research Article</b>

**Review Form 3**

**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<p><b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b></p>	<p>The manuscript is interesting and is in the scope of the journal. This article is well written, addresses an important topic, and provided very interesting data on the effect of land use land cover on soil physical and chemical properties. There are a few issues with results that need to be clarified/addressed</p> <ul style="list-style-type: none"> <li>○ As with the introduction, authors should make the effort to discuss the results based on more recent work.</li> <li>○ In the methodology section, the authors presented a model that should allow to follow the evolution over time of the physicochemical parameters, at no time in the results and recommendations section, the results of this model were presented and even less discussed. Can the authors explain this ?</li> <li>○ There are contradictions in some parts of the discussion that the authors need to clarify.</li> </ul>	
<p><b>Is the title of the article suitable? (If not please suggest an alternative title)</b></p>	<p><b>Yes</b></p>	
<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p><b>Yes</b></p>	
<p><b>Are subsections and structure of the manuscript appropriate?</b></p>	<p><b>Yes</b></p>	
<p><b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b></p>	<p><b>The manuscript deals with a scientifically interesting theme. The methodology is mastered, the results are well illustrated.</b></p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p> <p>=</p>	<p><b>References are old. We offer more recent work on Ethiopian soils:</b></p> <ul style="list-style-type: none"> <li>○ Woldeyes Debebe et al., 2024. Dynamics of Soil Physical and Chemical Properties under Different Current Land Use Types and Elevation Gradients in the Sala Watershed of Ari Zone, South Ethiopia. Applied and Environmental Soil Science Volume 2024, <a href="https://doi.org/10.1155/2024/7389265">https://doi.org/10.1155/2024/7389265</a></li> <li>○ Kabtamu Girma et al., 2023. Effect of Land Use Change on Soil Physico-Chemical Properties under Different Land Use System in Arsi Zone, Oromia Region, Ethiopia. Journal of Biology and Nature vol. 15, no. 1, pp. 57-69,</li> <li>○ Eyayu Molla et al., 2022. Land use change and its effect on selected soil properties in the northwest highlands of Ethiopia. Heliyon 8, e10157 <a href="https://doi.org/10.1016/j.heliyon.2022.e10157">https://doi.org/10.1016/j.heliyon.2022.e10157</a></li> <li>○ Getahun Haile et al., 2022 Variation in soil properties under different land use types managed by smallholder farmers in central Ethiopia, Sustainable Environment, 8:1, 2093058, DOI: 10.1080/27658511.2022.2093058</li> </ul>	

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	<ul style="list-style-type: none"> <li>○ Kebede Wolka et al., 2021. Soil organic carbon and associated soil properties in Enset (Ensete ventricosum Welw. Cheesman)-based homegardens in Ethiopia. Soil &amp; Tillage Research 205 (2021) 104791. <a href="https://doi.org/10.1016/j.still.2020.104791">https://doi.org/10.1016/j.still.2020.104791</a></li> <li>○ Belayneh Bufebo and Eyasu Elias 2020. Effects of Land Use/Land Cover Changes on Selected Soil Physical and Chemical Properties in Shenkolla Watershed, South Central Ethiopia. <i>Advances in Agriculture</i>. <a href="https://doi.org/10.1155/2020/5145483">https://doi.org/10.1155/2020/5145483</a></li> <li>○ Fentanesh H. Buruso et al., 2019. Effects of land use/land cover changes on soil properties in Rib watershed, Ethiopia. <i>Catena</i> 224 (2023) 106977. <a href="https://doi.org/10.1016/j.catena.2023.106977">https://doi.org/10.1016/j.catena.2023.106977</a></li> <li>○ Gebeyaw T. Y. 2019. Impact of Land Use Types and Soil Depths on the Distribution of Soil Physical and Chemical Properties in Soils of Aboy Gara Watershed, at Gidan District, North Wollo Zone, Ethiopia. <i>Nigerian Journal of Environmental Sciences and Technology (NIJEST)</i>. <a href="https://doi.org/10.36263/nijest.2019.02.0102">https://doi.org/10.36263/nijest.2019.02.0102</a></li> </ul>	
Minor REVISION comments		
<b>Is the language/English quality of the article suitable for scholarly communications?</b>	<b>Yes</b>	
Optional/General comments	<ul style="list-style-type: none"> <li>○ As with the introduction, authors should make the effort to discuss the results based on more recent work.</li> <li>○ In the methodology section, the authors presented a model that should allow to follow the evolution over time of the physicochemical parameters, at no time in the results and recommendations section, the results of this model were presented and even less discussed. Can the authors explain this ?</li> <li>○ There are contradictions in some parts of the discussion that the authors need to clarify.</li> </ul>	

**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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