

# Review of: "The impact of land use practice on the spatial variability of soil physicochemical Properties at Wondo Genet, Southern Ethiopia"

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Potential competing interests: No potential competing interests to declare.

The paper needs to be revised and then publish or reject in this journal.

The followings are what i find in the paper need to be revised.

1. NF and PF in the abstract refer to natural forest and plantation forest, I suggest the author when natural forest first appears in the abstract section, write them like natural forest (NF), PF does the same, then it will not cause confusion about NF and PF.
2. In the abstract section 'Soil Total nitrogen was higher in Natural forest ( $0.37 \pm 0.024 \mu\text{g/g}$ ) in the soil's uppermost layer and significant with PF and agricultural land. Microbial biomass carbon was higher in Natural forest ( $939.84 \pm 46.0 \mu\text{g/g}$ ) and plantation forest /Grevillea ( $712.8 \pm 48.4 \mu\text{g/g}$ ) and agricultural land /Enset ( $570.2 \pm 38.8 \mu\text{g/g}$ ). Similarly, microbial biomass N was higher in Natural forest ( $81.0.4 \pm 3.9 \mu\text{g/g}$ ) and significant with plantation forest /Gravellea ( $60.08 \pm 4.2 \mu\text{g/g}$ ) and agricultural land /Enset ( $40.96 \pm 3.3 \mu\text{g/g}$ ).' significant with does not say things clearly.
3. Page 2, the third row of the first paragraph of introduction. it should have a full stop (period) after superscript 1,2,3? Or superscript 1,2,3 should be placed after globally?
4. Page 8, the last paragraph 'Soil aggregate is a naturally formed collection of soil particles that determines the creation of organometal complexes in the soil. Across all land-use categories, macroaggregates made up 53.9-67.6 percent of the soil, followed by meso aggregates (29.3-41.9 percent)'. Soil aggregate makes up how many percent of the soil does not clearly display the exact amount in the Table 1.

Table 1 shows something wrong. For example, the second row of Macro aggregates (%),  $48.2 \pm 8.9^1$ ,  $51.9 \pm 7.1^{1ac}$ ,  $81.5 \pm 2.3^{1b}$ , It is confused that statistical analysis was done like that.

Below table 1, "Letter" indicates the land use types; "Number" indicates the soil depths for each aggregate size. What do "Letter" and "Number" refer to is not clear, the sentence is not complete.

5. Table 2 statistical analysis does not follow the same trend, sometimes the lowest value labels with a, sometimes the highest value labels with a in the row.