

SOIL Discuss., author comment AC1
<https://doi.org/10.5194/soil-2021-45-AC1>, 2021
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Reply on RC1

Danielle L. Gelardi et al.

Author comment on "Biochar alters hydraulic conductivity and inhibits nutrient leaching in two agricultural soils" by Danielle L. Gelardi et al., SOIL Discuss.,
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We greatly appreciate the time and effort that went into this extensive and constructive review. We will address the reviewers concerns by restructuring the manuscript, providing more comprehensive information in the materials and methods section, making linkages between these experiments and our corresponding field trials clearer, and highlighting the novelty of this work through a more nuanced, critical, and lengthy discussion section, as detailed in the attached document. Furthermore, we have performed an additional experiment to answer the reviewer's questions about the effect of pH and the mechanistic underpinnings behind observed results. The point of zero charge (PZC) for each biochar is now included. Please find a detailed response in the attached PDF.

Please also note the supplement to this comment:

<https://soil.copernicus.org/preprints/soil-2021-45/soil-2021-45-AC1-supplement.pdf>