

Interactive comment on “No-tillage lessens soil CO₂ emissions the most under arid and sandy soil conditions: results from a meta-analysis” by K. Abdalla et al.

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P15501L13 "To our knowledge, Baker et al. (2007) was the first to point out that the studies concluding on carbon sequestration under no-tillage management had only considered the top-soil (to a maximum of 0.3 m), while plants allocate SOC to much greater depths."

Actually it was briefly pointed out in a report of the Royal Society (2001) that lack of adequate depth of sampling could omit the total C stock and thus favor C storage under no-till. It was further illustrated by VandenBygaart and Angers (2006) who highlighted the problem in relation to a meta-analysis conducted in the U.S. and depth profiles from

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a long-term experiment.

Royal Society 2001. The role of land carbon sinks in mitigating global climate change. Royal Society, London UK.

AJ VandenBygaart and DA Angers 2006. Towards accurate measurements of soil organic carbon stock change in agroecosystems. Canadian Journal of Soil Science 86:465-471.

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