Testing the Feasibility of Quantifying Change in Agricultural Soil Carbon Stocks through Empirical Sampling (December 2023)

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This study, *Testing the Feasibility of Quantifying Change in Agricultural Soil Carbon Stocks through Empirical Sampling*, explores the debate about whether regenerative farming practices can effectively store more organic carbon in soil, which is important for combating climate change. It focuses on the challenge of accurately measuring changes in soil organic carbon at the level of individual farm fields and across larger agricultural regions. Report findings indicate that estimating carbon storage changes in a single field can be highly variable and unreliable and vary greatly. However, combining many fields in a project-level approach and sampling at increased density within those fields can provide a much clearer picture of carbon storage due to farming practices. Further, adding control fields where regenerative practice changes are not implemented would provide valuable clarity on the impact of regenerative agriculture.

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