Developing Reliable Methods to Estimate Changes in Soil C in US and Canadian Agroecosystems. (S05-rice161844-Poster)

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Abstract:

A scientific, transparent, and verifiable accounting system for reporting soil C stocks and C stock changes is required to meet international goals to reduce greenhouse gases and support sustainable agriculture. Research projects are being developed in the US and Canada to reliably quantify changes in soil C that occur as a result of agricultural management practices. In Canada a project titled National Carbon and Greenhouse Gas Emission Accounting and Verification System (NCGAVS) for Agriculture will develop the accounting system for Canadian primary agriculture that encompasses all relevant non-point and point GHG sources and sinks. The first phase of NCGAVS will focus on accounts and uncertainties for non-point soil C stock change. In the US, one research group, CASMGS (Consortium for Agricultural Soils Mitigation of Greenhouse Gases) will develop methodologies to estimate and verify changes in soil C that result from changes in land use and management and to apply prediction and assessment technologies at local, regional and national scales. Coordination between US and Canada will provide a scientifically sound accounting system for C sequestration in agricultural soils.

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