

Canada's National Carbon and Greenhouse Gas Accounting and Verification System. (S05-mcconkey161521-Oral)

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Abstract:

The National Carbon and Greenhouse Gas Accounting and Verification System (NCGAVS) will be a transparent and verifiable accounting system to estimate the amounts and uncertainties of soil carbon changes and non-point source N₂O emissions from Canadian agricultural lands. The system will be in place by March 2005 and provide the means for synthesizing data of land, land use and management, and greenhouse gas (GHG) emissions/sinks from GHG research activities to make regional, provincial, or national assessments of the amount and uncertainty of sources and sinks. The smallest reporting unit in NCGAVS will be the 1:1 million scale Soil Landscapes of Canada (SLC) polygons and the system will be extensively tested for a number of pilot SLC polygons across Canada. Importantly, the NCGAVS project will also develop methodologies for monitoring actual soil carbon change and nitrous oxide emissions to corroborate and improve the GHG source/sink accounts. The NCGAVS project will be coordinated and linked with the entire Canadian GHG inventory. The accounting system will have the capability to produce various types of reports to meet the needs of diverse clients.

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