

Canada's National Carbon and Greenhouse Gas Accounting and Verification System for Agriculture. (5047)

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Abstract:

The National Carbon and Greenhouse Gas Accounting and Verification System (NCGAVS) is being developed to quantify carbon stock changes and non-CO₂ greenhouse gas (GHG) emissions, and their uncertainties, from agriculture within Canada to support policy development and reporting under the Framework Convention on Climate Change and the Kyoto Protocol. NCGAVS is based on applying factors (coefficients) of carbon stock changes and GHG emissions to agricultural activity data. Uncertainty is estimated using Monte-Carlo simulation considering uncertainty of these factors and of the activity data. NCGAVS has to follow Good Practice Guidance of Inter-Governmental Panel on Climate Change including being verifiable as not being an over- or under-estimate of accounts with minimum practical uncertainty. To contribute to meeting Canada's Kyoto GHG emission, any offset derived from GHG emission reductions or carbon sinks due to activities of agricultural enterprises must be reported into Canada's overall GHG inventory through NCGAVS but NCGAVS does not directly support emission offset trading.

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