GHG emissions from soil, and from lime and fertilizer spreading

- GHG emission inventory is a demanding task requiring profound expertice
- IPCC Quidelines for GHG inventories could be used, but… Look at: http://www.ipcc.ch/publications_and_data/publications_and_data_reports.shtml
- GHG emissions come from
  - organic matter in soil
  - manure
  - crop residue
  - lime and fertilizer spreading
  - ….

IPCC Litterature for GHG inventories

2006 IPCC Guidelines for National Greenhouse Gas Inventories

2006 - Edited by Simon Eggelston, Leandro Buendia, Kyoko Miwa, Todd Ngara, Kiyoto Tanabe

Published by the Institute for Global Environmental Strategies (IGES) for the IPCC
ISBN 4-88788-032-4

Available from IPCC Secretariat or NGGIP in Arabic, Chinese, English, French, Russian, Spanish
Also available on CD ROM

Read it on the NGGIP website

Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories

2000 - J Penman, D Kruger, I Galbally, T Hiraishi, B Nyenzi, S Emmanul, L Buendia, R Hoppaus, T Martinsen, J Meijer, K Miwa and K Tanabe (Eds)

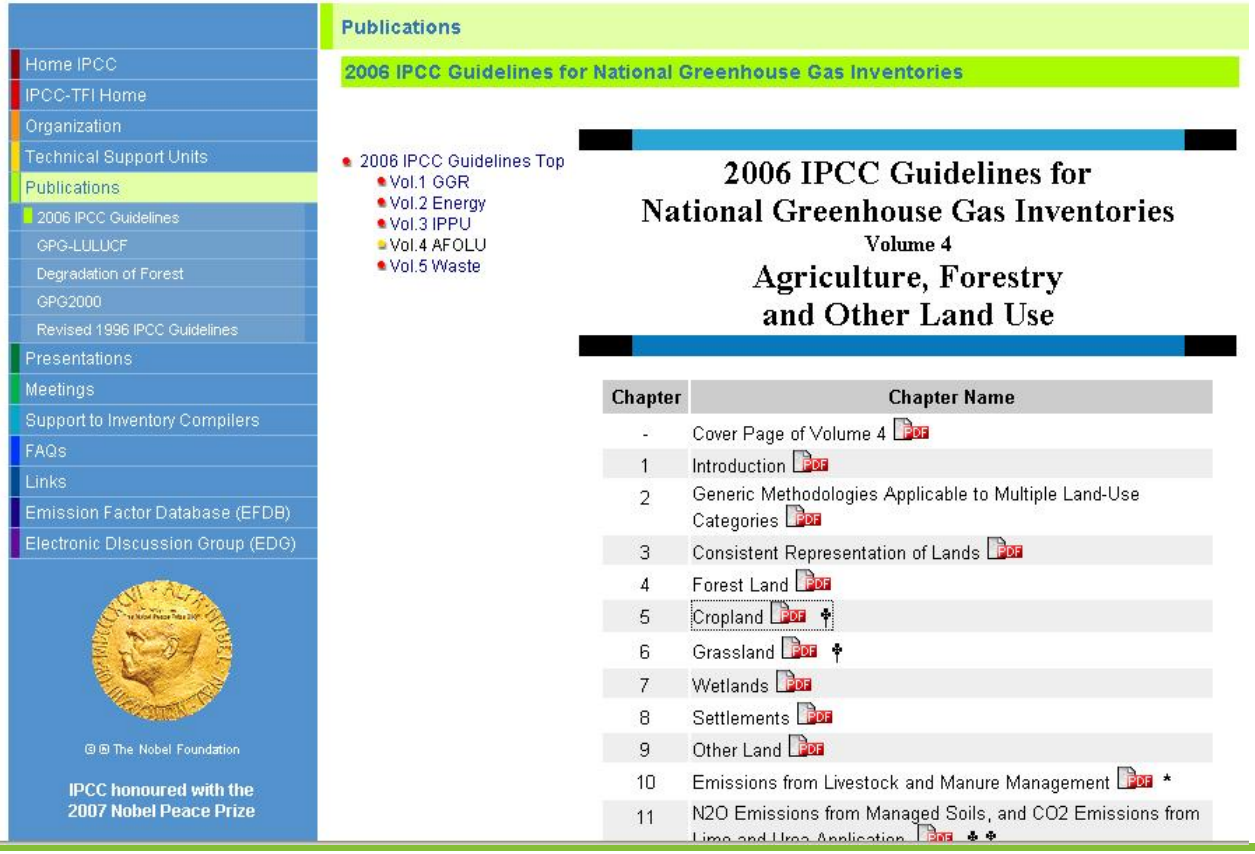
IPCC National Greenhouse Gas Inventories Programme

Published for the IPCC by the Institute for Global Environmental Strategies, Japan
ISBN 4-88788-000-6

Available from IPCC Secretariat or NGGIP in Arabic, Chinese, English (OUT OF PRINT), French, Russian, Spanish
Also available on CD ROM

Read it on the NGGIP website

GHG Guidelines a bit more in detail...



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Publications

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- 2006 IPCC Guidelines Top
  - Vol.1 GGR
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Volume 4

Agriculture, Forestry and Other Land Use

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4	Forest Land
5	Cropland †
6	Grassland †
7	Wetlands
8	Settlements
9	Other Land
10	Emissions from Livestock and Manure Management *
11	N2O Emissions from Managed Soils, and CO2 Emissions from Lime and Urea Application ♣ ♣

Questions

- How deep do we need/want to go into this subject?
- Do have expertice for a thorough analysis?

What parameters we have used

- Emissions from soil have been ignored.
- For N_2O emissions from fertilizer-N and CO2 emissions from lime we have used parameters estimated by VTT
  - 2.55 % of fertilzer-N is converted to N_2O through direct and indirect processes
  - Emission factor for carbonate compounds is 0.431 ton CO_2 per ton carbonate.

This material has been produced in ENPOS project. ENPOS is acronym for ***Energy Positive Farm***.

The project partners are
• University of Helsinki, department of Agricultural Sciences – Agrotechnology
• MTT Agrifood Research Finland - Agricultural Engineering
• Estonian University of Life Sciences

Project home page is at http://enpos.weebly.com/

The project is financed by the EU Central Baltic IV A Programme 2007-2013

ENPOS Energy Positive Farm

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