



Second FAO Workshop on Statistics for Greenhouse Gas Emissions Report

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FAO-OEA/CIE-IICA WORKING GROUP ON AGRICULTURAL AND LIVESTOCK STATISTICS FOR LATIN AMERICA AND THE CARIBBEAN , Twenty-sixth Session, Port of Spain, 5-7 June



Workshop Background:

The science and policy context

1. Climate Change International Agreements require that countries report their GHG emissions regularly (UNFCCC)
2. Developed parties use GHG reporting to demonstrate their emission reduction commitments (e.g., Kyoto Protocol)
3. Developing countries parties use GHG reporting as a key to receive climate funding and to inform international negotiations (Durban COP/MOP; etc.)



Workshop Background:

The urgent need for action in developing countries

1. Agriculture sectors are key emitters in developing countries, and a basis for climate mitigation that is relevant to food security and sustainable development goals
2. Need to improve capacity to collect and analyze activity data and GHG statistics. Only 3-4 reports per country over the past 20 years
3. Starting in 2014, need to report bi-annually to UNFCCC



GHG Emission Statistics: Categories

DOMAIN	CATEGORY	GAS	
Agriculture	Enteric Fermentation	CH ₄	
	Rice Cultivation	CH ₄	
	Manure Management	CH ₄ , N ₂ O	
	Agricultural soils	Synthetic Fertilizers	N ₂ O
		Manure applied to soils	N ₂ O
		Manure left on pasture	N ₂ O
		Crop residues	N ₂ O
		Degraded organic soils	N ₂ O, CO ₂
	Biomass burning	CH ₄ , N ₂ O	

DOMAIN	CATEGORY	GAS
LULUCF	Forest land	CO ₂
	Cropland	CO ₂
	Grassland	CO ₂
	Wetlands	CO ₂
	Settlements	CO ₂
	Other land	CO ₂



Workshop Attendance

Thirty-four participants from twenty countries.

Ministries of Environment, together with their counterparts in Ministries of Agriculture and Census Bureaus.

Trinidad and Tobago, Belize, Mexico, Honduras, Nicaragua, Guatemala, Costa Rica, Panama, Cuba, Republica Dominicana, Colombia, Bolivia, Venezuela, Peru, Ecuador, Chile, Argentina, Uruguay, Paraguay, Brazil



Workshop Objectives:

- Raise awareness on the importance of agriculture statistics (crop, livestock, forestry, land use change) to estimate GHG emissions and identify mitigation strategies, in support of rural development and food security goals.
- Facilitate dialogue among member countries to share experiences and identify challenges and opportunities to improve activity data, methodologies and address institutional gaps
- Present the FAOSTAT Emissions database as a tool for national capacity development and data support



Workshop Activities:

Day One: Critical background Information

1. Science and Policy context; Asia-Pacific analysis; MAGHG
2. UNFCCC Methodology and guidelines
3. Break-out groups identifying status of national statistics, planning for mitigation and recognition of the linkages with other developmental dimensions. Identification of country/regional institutional gaps and needs for improved reporting



Workshop Activities:

Day Two: FAOSTAT and GHG Data Tools

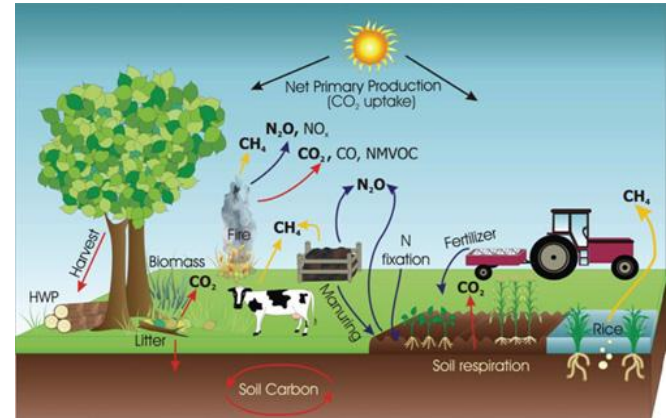
1. FAOSTAT as a source of activity data statistics
2. Demonstration of new FAOSTAT GHG and IPCC Software features
3. Break-out groups identifying country/regional interests and opportunities for collaboration with FAO on GHG statistics



FAOSTAT Statistics Online Demo



2006 IPCC Guidelines



Food and Agriculture Organization of the United Nations
FAOSTAT

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Browse Data

By Domain | By Country/Region | Rankings

Emissions - Agriculture
Emissions of methane and nitrous oxide produced from agricultural activities

Items: All GHG Agricultural Sectors Countries/Areas: World From Year: 1998 To Year: 2010 Aggregation: Average

Emissions by country (CO2 equivalent)
Average 1990 - 2010

Legend (Gt/annum): 5,121, 14,411, 48,491, 103,742, 187,364, 347,804

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The designations employed and the presentation of material in the maps do not imply the expression of any opinion whatsoever on the part of FAO concerning the legal or constitutional status of any country, territory or sea area, or concerning the delimitation of frontiers. South Sudan declared its independence on July 9, 2011. Due to data availability, the assessment presented in the map for Sudan and South Sudan reflects the situation up to 2011 for the former Sudan.

Emissions (CO2 equivalent) 1990 - 2010: 500K

Emissions growth rate by continent 1990 - 2010: Africa 2.29%



Key Findings:

Data and Institutional Gaps

- Data Gaps Capacity Development
 - Improved collection, maintenance and update of relevant activity data within robust, coordinated national statistical systems
- Institutional Capacity Development
 - Enhanced national and regional institutional coordination of statistical data for GHG Emissions
 - Enhanced coordination of international agency work



Key Findings:

Use of FAOSTAT Emissions database

- Global and regional assessments: Unlike for energy, no international agency regularly reports for GHG agriculture
- Fill data gaps and build capacity: a bridging tool for many non-Annex I parties, considering the need to report biannually (BURs)
- Benchmarking and QA/QA analysis: provide an internationally accepted and neutral data platform for evaluation
- Develop indicators for analyses of emission impacts and mitigation planning



Conclusions and Follow-up:

- Participants welcomed the use of FAOSTAT Emissions database and IPCC software as a platform for achieving coherency in national reporting and support international climate policy
- Encouraged the role of FAO for capacity development to fill gaps, and apply UNFCCC methodologies for improving agriculture and land use change statistics and GHG estimations
- Expressed interests in follow-up regional activities, with proposals to develop a joint work plan in Centro-America and the Caribbean, to meet challenges of current climate policy requirements and develop robust national data systems



Thank you!

MAGHG website: www.fao.org/climatechange/micca/ghg



Food and Agriculture Organization of the United Nations



www.fao.org/climatechange/micca