

Capacity Development

Activities in support of NAMA Preparation

Monitoring and Assessment of GHG Emissions and Mitigation Potentials in Agriculture, FAO

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Asia Pacific Regional Workshop on NAMAs
Vientiane, Laos
22-25 April, 2014

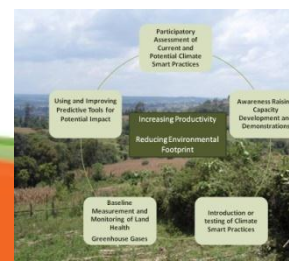


MAGHG:

Monitoring and Assessment of GHG Emissions and Mitigation Potentials in Agriculture

PROJECT GOALS:

- Generate knowledge to help developing countries identify, assess and report their GHG emissions in agriculture, forestry and fisheries
- Help countries identify mitigation options consistent with their rural development goals, food security, and agro-ecosystems resilience
- Work in close collaboration with IPCC and UNFCCC in support of reporting and negotiations



Climate Change & Agriculture Mitigation

- Livestock management
- Restoration of degraded lands
- Reducing emission from deforestation and forest degradation
- Restoration of cultivated organic soils
- Bioenergy
- Cropland management
- Rangeland management
- Agroforestry
- Afforestation
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MAGHG Activities

- Development of a global FAOSTAT emissions database, with country detail, in collaboration with FAO departments, academia and international organizations
- Direct contribution to IPCC AR5, IPCC Revised GHG Guidelines, UNFCCC COP/MOP and SBSTA events
- Regional Capacity Development workshops with Member Countries to build capacity to report GHG emissions, and identify mitigation strategies
- Build synergies with UNDP, UNREDD, Global Strategy etc.



Developing Capacities

Develop Capacities within Member Countries for increased Sustainability and Impact



- ✓ Country ownership and leadership
- ✓ Supporting a process of learning and change
- ✓ Work with existing capacities
- ✓ Functional skills – uptake and sustain changes

Capacity Development Activities

- **Technical Capacities**

- Assess and report GHG emissions from agriculture, including land use activities (Biennial Update Reports, BUR)
- Identify mitigation options, including Nationally appropriate mitigation actions (NAMAs)

- **Functional Capacities**

- Access, generate, manage and exchange information and knowledge towards robust GHG inventory, BUR, NAMA, and national data systems
- Collaborate with relevant national and international agencies and institutions for efficient support to countries

- **Three levels:** Regional; Sub-regional; National



Regional level – CD activities

- **Inception Workshop on Greenhouse Gas Emissions Statistics**

Da Lat, Viet Nam, 5 - 6 October 2012

33 participants; 18 countries (Bangladesh, Bhutan, Cambodia, China, Fiji, India, Indonesia, LAO PDR, Korea ROK, Malaysia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand, Viet Nam)

- **Second FAO workshop on Statistics for Greenhouse Gases Emissions**

Port of Spain, Trinidad and Tobago, 3 - 4 June 2013

29 participants; 18 countries (Argentina, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, Guatemala, Honduras, Mexico, Nicaragua, Panama, Dominican Republic, Peru, Uruguay, and Trinidad and Tobago)

- **Third FAO Regional workshop on Statistics for Greenhouse Gas Emissions**

Casablanca, Morocco, 2 - 3 December 2013

37 participants; 23 countries (Algeria, Cameroon, Central African Republic, Congo Dem. Rep., Cote d'Ivoire, Egypt, Ethiopia, Gabon, Ghana, Kenya, Madagascar, Mali, Mauritania, Morocco, Namibia, Nigeria, Rwanda, Senegal, South Africa, Sudan, United Republic of Tanzania, Uganda, and Zambia).



Regional workshops on Statistics for Greenhouse Gas Emissions

Workshop Objectives:

- Raise awareness on the importance of agricultural and forestry statistics for preparing national greenhouse gas (GHG) inventories and for planning national mitigation actions that link long term agricultural productivity, food security and sustainability
- Explore the need for increased capacity in view of NAMA preparation and new UNFCCC requirements to prepare and submit Biennial Update Reports (BURs) by the end of 2014, detailing national emissions and mitigation strategies
- Facilitate communication and exchange of relevant knowledge, at national and regional level, identifying challenges, gaps, and opportunities for improving national data systems and analysis tools



Key Findings:

Data and Institutional Gaps

- All workshops identified improved coordination of national activities and actors as essential to meet commitments for the BURs
- Key issues highlighted for progress:
 - Reliability
 - Sustainability
 - Coherence of data collection and analysis procedures
- The dissemination of tools such as the FAOSTAT emissions database is critical because it facilitates compliance with national commitments and fosters development of the standardization process and capacity development.



Key Findings: Latin America

Key roles for FAO were identified and recommended:

- Creation of an online forum to facilitate the exchange of technical expertise: D-groups
- Creation of a Meso-American working group to support BUR preparation
- Training materials on methodologies for the preparation of GHG inventories, and a manual for the FAOSTAT database
- Organization of a workshop for English-speaking countries of the Caribbean region in conjunction with IPCC and the Caribbean Community Climate Change Center
- Further development of capacity development activities based on country needs and in collaboration with relevant agencies
- Periodic dissemination on the achievements of the region as well as activities from FAO and IPCC linked to GHG estimations



Key Findings: Africa

- Countries identified the need for improved institutional arrangements as the most crucial and critical, underpinned by the need to provide human, technical and financial resources for development, implementation and maintenance of sound GHG inventories
- *Key roles for FAO were identified and recommended:*
 - Follow-up with identified national counterparts to strengthen the FAOSTAT data reporting process
 - Follow-up with countries that are interested in receiving and or contributing to GHG capacity development efforts by FAO in the African Region



Sub-regional capacity development activities

- **Workshop on Thematic Geospatial Information in Tropical Peatlands for Agriculture**
Bogor, Indonesia, 7- 8 November 2013.
70 participants; 3 countries (Indonesia, Papua New Guinea, Malaysia)
- **Meso-American working group on agricultural and forestry statistics to support Biennial Update Report (BUR) preparation**
Under discussion - location to be determined, 2014.
- **Workshop for the English speaking countries of the Caribbean Region, with IPCC and the Caribbean Community Climate Change Center**
Under discussion - location to be determined, 2014.



National capacity development activities

- **Ecuador, Colombia [UNREDD]**

- AFOLU GHG emission inventory (BURs, NC).
- Coordinated process: FAO, UNDP and other initiatives/agencies (CD REDD/EPA)



- **Indonesia:**

- GHG mitigation: peatlands management (NAMA)
- Facilitate a coordinated national data system for peatland



Countries using FAOSTAT

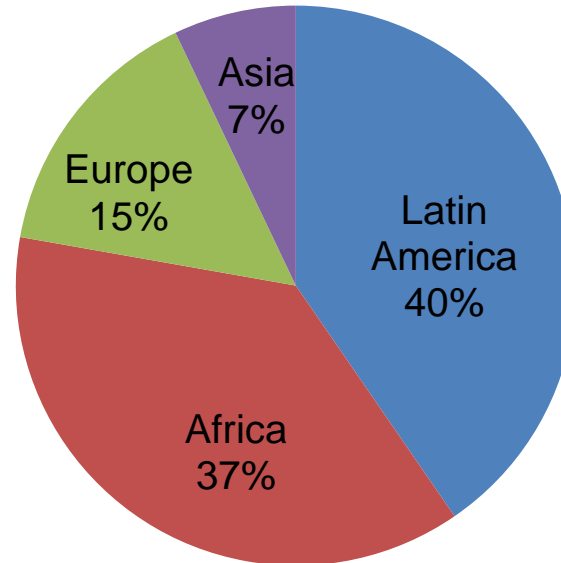
Current Uses of the FAOSTAT Emissions database:

- QA/QC process for GHG emissions and underlying FRA data for LULUCF estimates
- To check activity data needed as input to GHG estimations for agriculture
- Support National GHG Inventory in coordination with UN – REDD
- For the centralized UNFCCC review process, to analyze GHG emissions data from cultivated organic soils
- EU-28 through Joint Research Center for its QA/QC of its consolidated Annual European Union inventory report
- To inform the national process on peatland mapping and NAMAs with co-organization of sub-regional workshop (Indonesia)
- For practical exercises in the livestock sector to model capacity building workshops of the UNDP-LECB



Countries using FAOSTAT

27 countries



Latin America

Argentina, Brazil
Chile, Colombia
Costa Rica, Dominican
Republic, Ecuador,
Mexico, Panama,
Suriname, Uruguay

Africa

Botswana, Democratic
Republic of Congo,
Ghana, Kenya,
Lebanon, Liberia,
Mauritania, Namibia,
South Africa, Zambia

Europe

European Union
Hungary
Italy
Spain

Asia

Indonesia
Pakistan



International Collaborations

Agencies:

- UNDP/LECB
- UNDP/UN-REDD
- UNFCCC
- IPCC (AR5, TFI)
- UNEP
- ESCAP

Global initiatives:

- UN-REDD
- NAMA partnership
- LEDS Global Partnership
- CD REDD
- National agencies



For more information

FAO -Monitoring and Assessment of Greenhouse Gas Emissions and Mitigation Potential in Agriculture (MAGHG): maghg@fao.org

FAO/MAGHG web site:

<http://www.fao.org/climatechange/micca/ghg/en/>

<http://www.fao.org/climatechange/micca/ghg/fr/>

<http://www.fao.org/climatechange/micca/ghg/es/>

FAOSTAT web site: <http://faostat.fao.org>

FAOSTAT emissions database in English (also available in French and Spanish):

Emissions – Agriculture http://faostat3.fao.org/faostat-gateway/go/to/download/G1/*/E

Emissions – Land Use http://faostat3.fao.org/faostat-gateway/go/to/download/G2/*/E

Report of the Second FAO Workshop on Statistics for Greenhouse Gas Emissions
03 - 04 June 2013, Port of Spain, Trinidad and Tobago

<http://www.fao.org/docrep/018/i3397e/i3397e.pdf>

Report of the Third FAO Regional Workshop on Statistics for Greenhouse Gas Emissions
02 - 03 December 2013, Casablanca, Morocco

<http://www.fao.org/docrep/019/i3624e/i3624e.pdf>

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Thank you!

Contact: MAGHG@fao.org

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

FAOSTAT: <http://faostat.fao.org>

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