Content

- Evolution of the environmental economic accounting in Colombia.

- Institutional arrangement and mapping of the existent information for the elaboration of the accounts.

- Diffusion of the environmental economic accounts.

- Advances of the environmental economic accounts.

- Progress and challenges of implementing the SEEA in Colombia.

- Ecosystem Accounts: Project WAVES.
Evolution of the Environmental Economic Accounting in Colombia

1990

1992
Interinstitutional Committe CICA
Integrated Economic Environmental Accounting Pilot Proyect for Colombia (COLSCEA)

2000
Minerals Addition (iron, copper and nickel)

2005
Manual Studies SEEA 2003
2006-2010
Development National Plan

2007
• International Course of satellite accounts- Bogotá
• Forest Account Desing
• expenditure Account Redesing (industry)

2009 -2010
• Energy Account Desing
• SEEA-Energy Implementation
• Water Account preliminar desing
• SEEA-Water implementation
• Stock and expenditure report
• Climate Change Conpes

2011 -2012
• Global consultation participation SEEA
• Methodological Actualization of the satellite account
• Stock Methodological Actualization
• Energy Account Implementation (oil and derivatives)
• Desing of Air Emissions and Solid Waste Account
• Publication of the pilots (water, energy, products flow)
• Stock report (2 y 3)
• Expenditure report (2 y 3)
• WAVES proyect
• DANE-Conpes 3700

Source: DANE
Institutional arrangement

President of the Republic of Colombia

National Administrative Department of Statistics - DANE

Chief Statistician

Deputy Chief Statistician

- Director of Regulation, Planning, Standardization and Normalization
- Director of Methodology and Statistical Production
- Director of Censuses and Demography
- Director of Geostatistics

Director of Synthesis and National Accounts

Satellite Accounts

- Agricultural-industry
- Culture
- Turism
- Environment
- Health and Social Security
- Use of the time and economy of the care

External sources: compilation of information and results validation

- National Planning Department; Ministry of the Environment and Sustainable Development and research institutes; Regional environmental authorities; Ministry of Mines and Energy; National Auditing Office; National Accounting Office; Superintendency of Public Utility; private sector and others.

Source: DANE
**Cuentas económico - ambientales**

Las Cuentas Económico-Ambientales, a través de cuadros monetarios y físicos, permiten describir las interrelaciones existentes entre la economía y el medio ambiente, con el fin de apoyar la formulación de políticas públicas. Para ello, cuantifica los fenómenos de deterioro y mejoramiento del medio ambiente; los gastos destinados a la conservación, mitigación, protección del medio ambiente y, a su vez, determina la variación en el estado de los recursos naturales.

**Antecedentes**

Generalidades conceptuales

**Ejercicios Piloto**

En este espacio serán presentados los ejercicios pilotos de avance en la implementación de las cuentas ambientales; los cuales constituyen una aproximación al marco de la contabilidad ambiental económica.

**Agua**

Flujos del agua (PDF)
Matriz utilización hogares (xls)
Matriz utilización industria manufacturera (xls)

**Rute:** http://www.dane.gov.co/index.php?option=com_content&view=article&id=69&Itemid=87
Advances of the environmental economic accounts

National Statistics System

- Sectoral groups for Identification and diagnosis of needs
- Statistics operations planification
- Quality asegurament
- Statistic regulation

Implemented Environmental Economic Accounts

1. Environmental Protection Expenditure Accounts

1.1 Government:

- Income generation at current prices and production account 2009p
- Account of capital at current prices 2009p
- Total expenditure at environmental protection according to purpose at current prices 2009p
- Indicator of government environmental protection expenditure over GDP 2009p
Advances of the environmental economic accounts

**Implemented Environmental Economic Accounts**

1. Environmental Protection Expenditure Accounts

1.2 Industry:

- Income generation at current prices and production account 2009p
- Account of capital at current prices 2009p
- Total expenditure at environmental protection according to purpose at current prices 2009p

2. Assets Accounts (Stocks) Miner Energetic Resources:

- Physic Account of oil, gas and coal stock 1994 – 2010p
- Physic Account of iron, copper and nickel stock 2000 – 2010p
Advances of the environmental economic accounts

Environmental Economic Accounts at implementation phase (pilots)

Physic Flow Accounts (from the environment to the economy and inside the economy)

**Water:**

**Energy:**

**Forestry:**
Accounts at conceptual and methodological construction

Physic flow accounts (from economy to the environment)

Residues (solid, liquids and air emissions)

• Conceptual Framework of the residues flow account (solid, liquids and air emissions) and it’s relation with the other accounts.

• Tables of correspondence between economic activity, productive process type, product and type of pollutant, according to the classifications ISIC, CCP, y nomenclatures National Accounts base 2005, SNAP/CORINAIR and others.
Advances of the environmental economic accounts

Projects

**CEPAL:** “Strengthening of the national capacity's in statistics and water accounts for the generation of policies based on evidence” 2011 – 2012.

*Waited Products:*
  - Water statistics diagnosis
  - National strategy for Water account development
  - Document for the technical viability for the construction of the water account

**CONPES 3700:** “Institutional strategy for the articulation of policies and actions at climate change in Colombia”.
  - Production of statistic information at climate change
  - Air Emission Accounts for making decisions

**Project WAVES**
  - Methodology line for Ecosystem Accounts
  - Analysis and adjustment of macroeconomic indicators
Progress and challenges of implementing the SEEA in Colombia

**SEEA Central Framework**

Environmental (within flows)

- Flows from the environmental into the economy (natural inputs)
  - WAVES

- Flows within the economy (products or residuals)
  - Flows the forest products (fuelwood, boards wood, timber, wood pulp)

- Flows from the economy to the environmental (residuals)
  - Solid waste
  - Emissions
  - Wastewater

**Sub-systems**

- Water accounts
  - Project CEPAL (water statistics and pilot calculation - industry and households)

- Energy accounts
  - Conceptual framework and pilot calculation (products of oil and the derivatives, and natural gas)

- Materials accounts
  - Air emissions (conceptual framework and pilot calculation GHG)
  - Solid waste (conceptual framework and pilot calculation households)
  - Wastewater (conceptual framework)

Source: DANE
Progress and challenges of implementing the SEEA in Colombia

Source: DANE
Ecosystem Accounts: Project WAVES

Steering Group:
- National Planning Authority
- Ministry of Environment
- Superior Audit Authority
- National Statistics Authority
- Hydrology, Meteorology and Environmental Studies Institute

Advisory Group:
- All other institutions or experts on ecosystem valuation and environmental accounting

Source: Project WAVES
Contact

Dirección de Síntesis y Cuentas Nacionales
dctasnales@dane.gov.co
Departamento Administrativo Nacional de Estadística

http://www.dane.gov.co

Carrera 59 No.26-70 Interior I – CAN
Bogotá, Colombia – Suramérica
Tel. (571) 5978300 Ext. 2257
Fax (571) 5978399