Brazilian accounts for stocks of water and land use changes: preliminary statistics and challenges for the future

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Water Assets

Brazil already has a lot of information about water and more than 20 years working with a focus on International Recommendations of Water Statistics. We still have much work ahead to enable a Water Statistics set, according to the methodology of Environmental Accounts.

ANA, for example, has information on stocks and stock statistics, but this information must be reworked so suited to SEEA Water.

The tables in the presentation show the first accounting of Water stocks in Brazil made from the databases available from ANA, following the IRWS methodology.

Water in Economic Flows: Challenges for the Future

Water flows to the Economy (Water Industry, Water Sanitation and Water in Agriculture) are fundamental to this system and also need to be accounted for.

This is a point of high complexity, in charge of the IBGE, and one of the biggest challenges for the accounts of the Water in Brazil: it is not enough to have information about stocks, we have to produce information about flows.

It is necessary to implement the use of **technical coefficients** to meet the Brazilian reality as well **the insertion of water questions in economic surveys** carried out by IBGE.

Land Use Change Assets

Goals

Land cover and land use mapping in Brazil, at regular intervals of two years from the interpretation of medium-resolution satellite imagery, complemented by related information available;

Produce Physical Accounts of Land Use Changes;

Identify the transformation processes (dynamic) during periods of interest;

Cover and Land Use Map of Brazil in shapefile, and pdf - every 2 years.

Land Use Physical Accounts – every 2 years.

Methodological note published with procedures, current and previous results (tables, graphs and spatial information) – every 2 years

Considerations about the Main Changes Processes

Period of 2000-2010: The main change process was agricultural expansion, over forest areas. Another important process: the increase in planted pastures over areas of natural pasture.

Period of 2010-2012: The expansion of agricultural areas was also the main change process. However, this expansion occurred both in forest areas and in natural pasture. The increase in planted pastures was also significant, and happened especially on natural pastures.

In proportional terms, the resulting loss of vegetation these expansions took place mainly in grasslands (cerrado and caatinga)