Jamaica's Experiences in the Production of Environmental-Economic Accounts

Dr. Shelley Winston
Statistical Institute of Jamaica
June 17, 2013

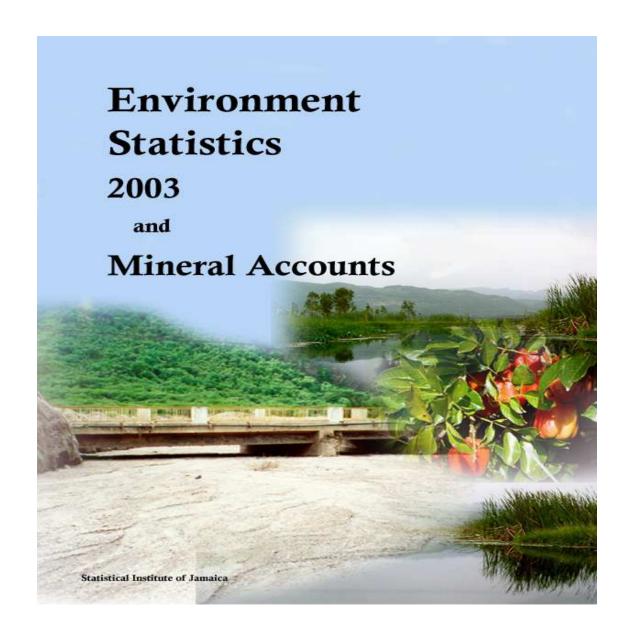
Environmental Protection Expenditure (EPE)

An EPE pilot survey in industry was conducted in 2002.

Environmental Protection Expenditure (EPE)

 The EPE covered four selected sectors of the economy, including the food processing industry and the bauxite industry for the 2001 reference year.

 Unfortunately, very few responses were returned, and no statistics for the entire sectors can therefore be reported. Jamaica's environment statistics programme began in 2000 with help from the Swedish International Development Cooperation Agency (Sida).



• This compilation on mineral accounts was attempted in order to give an indication of the level of the resources and/or the level at which the resources were declining.

This sector was chosen because the data on resources, production and exports were larger than for other sectors.

Data on extraction and use of Jamaica's main minerals (bauxite, limestone, gypsum, marble, sand and gravel, silica sand and gold) was set up as supply and use tables.

Main Challenges

In many cases, it was not possible to distribute the domestic use of the minerals to different industries;

The input/output) tables were unavailable;

Physical values for minerals reserves were outdated No monetary evaluation of the mineral resources was done.

Environmental Statistics Updates

- Human Settlements
- Solid and Liquid Waste
- Land and Mineral Resources
- Agriculture
- Forestry
- Biological Resources
- Protected Areas
- Freshwater
- Marine Resources
- Tourism
- Energy and Transport
- Air
- Climate and Natural Disasters
- Environmental Policies and Actions

Water Accounts

Subsequently, Jamaica was invited to participate in a UNSD-sponsored Regional Workshop on Water Accounting in the Dominican Republic.

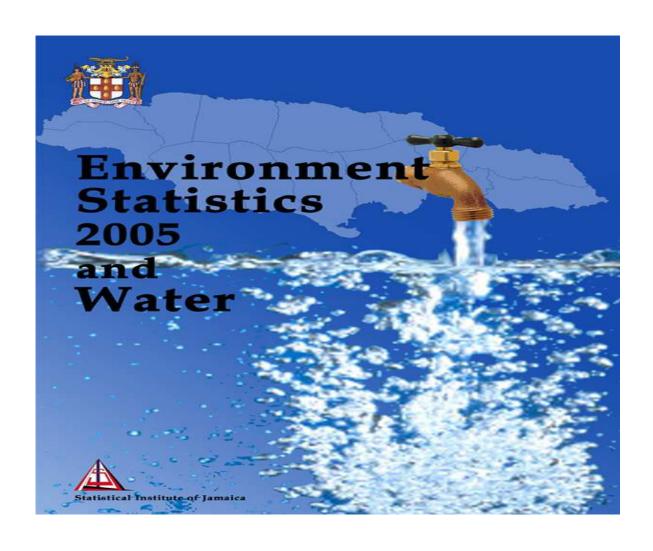
This took place in 2007 when STATIN made a presentation on the state of water statistics in Jamaica. Included in the data provided was the table below.

Estimated Economic Contribution and Water Use by Sector, 2005

Sector	Direct contribution to GDP	Annual Water Use
Unit	J\$ billion	10 ⁶ m³/year
Manufacturing	125	16
Irrigated Agriculture	31	439
Tourism	106	4
Mining and Processing	60	60
Other Services	120	10
Residential	_	274
Environment	_	510
Total	442	1,313
Source: Water Resources Authority		

Water Statistics

In 2007, another report from the Statistical Institute of Jamaica focused on water when the compendium *Environment Statistics 2005 and Water* was published.



Data was not sufficient to calculate water accounts, although at that time the input/output table was available.

Technical support needed to do further work.

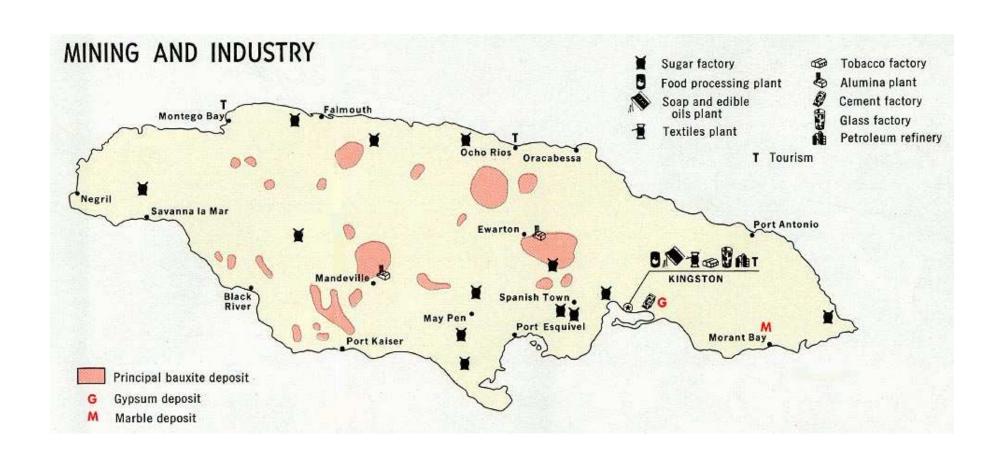
Recently

In 2012, in an informal discussion, the Forestry Department indicated their willingness to participate in environmental accounting for forests.

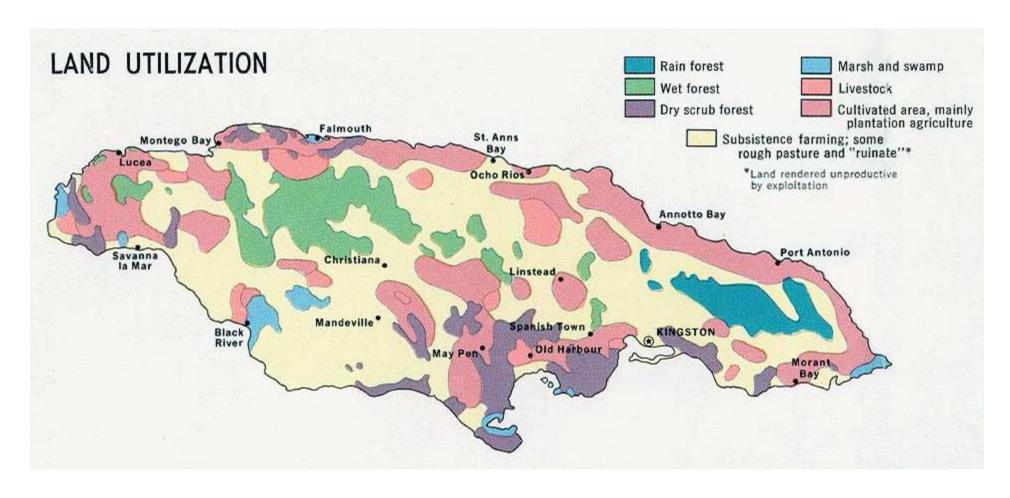
Challenges

- No monetary valuation of natural resources/ecosystems have been prepared;
- •There are no data for the volume of trees felled. Most of felling of trees is on private lands; and,
- No current data on wood removal.

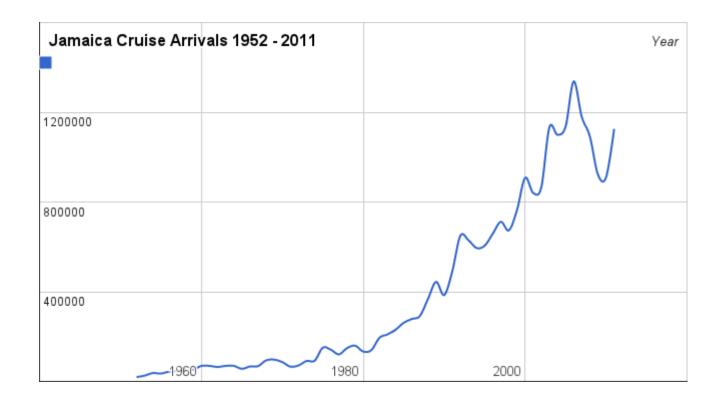
Jamaica Mining and Industry



Jamaica Land Utilization



Jamaica Cruise Arrivals



Cruise Ship Arrivals



The port of Ocho Rios in Jamaica. The island saw cruise ship visits increase 23.7% last year, but officials are hoping for a 10% jump this year in cruise spend per passenger, to \$120 per person.