Session 1.2: Manual on the Basic Set of Environment Statistics

Workshop on Environment Statistics and Information for Sustainable Development in the Arab Region

(Beirut, Lebanon, 12-16 November 2018)
The Manual on the Basic Set of Environment Statistics

- What it is
- The audience
- The method of work
- The template of the methodology sheets
- What we have done and learned so far
- Examples
FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS (FDES 2013)

- Scope of environment statistics
- Organizing structure
- Comprehensive, though not extensive, list of statistics (Basic Set of Environment Statistics)
- Relevance of the statistical topics, the typical data sources and institutional partners and information on the most important aspects of temporal and spatial aggregation, as well as on existing methodology

FDES 2013 does not include:
- Methodological guidance with regard to the collection and compilation of environmental data and its transformation into statistics.
- Practical and detailed guide to many of the Basic Set themes, including variable definitions, description of sources and data collection, methods of data compilation/processing for environment statistics production, methods of dissemination and other relevant information.
Objectives

• Produce and disseminate a set of methodology sheets or metadata for the collection or compilation of all environment statistics of the Basic Set of Environment Statistics embedded in the FDES 2013 based on a template agreed by the Expert Group on Environment Statistics.
• Methodology sheets offer:
  • Definitions
  • International sources and recommendations
  • Classifications and groupings
  • Statistical methods for collection and/or compilation
  • Examples of visual dissemination
  • SEEA accounts/tables using the statistics
  • Links to SDG indicators
• Aspects provided by the standards and guidelines established by lead agencies in the relevant fields, such as FAO, UNFCCC and UN-HABITAT, which ensures that the methodology sheets utilize established international best practices. The references can be found with the respective definitions and classifications.
Audience

• Practitioners working in environment statistics programmes or within specific areas of environment statistics.

• They may work at NSOs, Ministries of Environment or other relevant line ministries at the national and sub-national levels.

• This Manual can also serve sub-regional and regional agencies working or planning to work in environment statistics production and dissemination.

• The main target audience of the Manual are environmental statisticians and environmental specialists who work in data analysis and reporting.
Method

This work is being coordinated by UNSD and being carried out in a collaborative way with the Expert Group on Environment Statistics (EGES) and other thematic experts from specialized agencies as needed, using a common template.

As there are 458 environment statistics identified in the Basic Set of Environment Statistics, their methodology sheets are being developed in a modular and progressive manner.

Expert Group on Environment Statistics:
Plan of Work

1. Preparation
This stage includes the preparatory work to be carried out by UNSD, including the following tasks:

- Prepare work programme, metadata template
- Discuss with experts
- Distribute work among experts

2. Elaboration of draft methodology/metadata sheets
- Elaboration of methodology/metadata sheets (filling all fields of template) for the topics/statistics by responsible experts: UNSD, EGES, other experts from specialized agencies as needed.

3. Review and finalization
- The peer review of the drafts of the methodological sheets is carried out on a continuous basis as drafts become available. Both national and international experts are called upon to review submitted methodology/metadata sheets before their finalization.

4. Dissemination
- The methodology sheets when finalized is disseminated through the website.
Methodology sheets available

- Soils
- Land use/land cover
- Ecosystems and Biodiversity
- Forests
- Minerals
- Energy
- Crops and Livestock
- Water
- Human Settlements
- Environmental Protection Expenditures
- Waste
- Air Quality

Methodology sheets in the pipeline

- Natural Disasters
- Geology
- Environmental Information and Awareness
Example: Mineral Resources

Manual on the Basic Set of Environment Statistics of the FDES 2013

Mineral Resources

Statistics

(Ex: component 2.1 Mineral Resources of the basic set of environment statistics of the FDES 2013)

Elaborated by the Environment Statistics Section of the United Nations Statistics Division, in collaboration with the Expert Group on Environment Statistics

Version 1.0
20 December 2016


1. Statistics in Sub-Component 2.1

Mineral Resources

Component 2: Environmental Resources and their Use

Sub-component 2.1: Mineral Resources

<table>
<thead>
<tr>
<th>Statistics and Related Information</th>
<th>Category of Measurement</th>
<th>Potential Aggregations and Scales</th>
<th>Methodological Guidance</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Mineral resources</td>
<td>Mass, Volume</td>
<td>By mineral (e.g., metal ores including precious metals and rare earths, coal, oil, gas, stone, sand and clay, chemical and fertiliser minerals, salt, gemstones, abrasive minerals, graphite, asphalts, natural solid bitumen, quartz, etc.)</td>
<td>National &amp; Sub-national</td>
</tr>
<tr>
<td>c. Stocks of potentially commercially recoverable resources</td>
<td>Mass, Volume</td>
<td>Global Environmental Framework (GEF) 2012 (asset and physical flow accounts)</td>
<td></td>
</tr>
<tr>
<td>d. Stocks of non-commercial and other known resources</td>
<td>Mass, Volume</td>
<td>International Standard Industrial Classification of All Economic Activities (ISIC) Revision 4, Section D, Division 05-09</td>
<td></td>
</tr>
</tbody>
</table>

6. Uses and dissemination

6A. Potential presentation/dissemination formats

The following images illustrate some of the potential dissemination formats. Note that the statistics shown may reflect national classifications rather than the international classifications.

Example: Mineral Resources Table 1

<table>
<thead>
<tr>
<th>December 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>National &amp; Sub-national</td>
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</tbody>
</table>


Thank you for your attention!

For more information please contact the Environment Statistics Section at the United Nations Statistics Division:

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