INTRODUCTION TO DATA COLLECTION ACTIVITIES

Session Three: Environment Statistics Data Collection

International data collection and reporting requirements

Seventh Meeting of the Expert Group on Environment Statistics 17 November 2020



Introduction of data collection activities

- UNSD conducted an inventory of regular, international primary environmental data collection, reporting and dissemination from countries undertaken by the United Nations, specialized agencies, intergovernmental organizations, and conventions.
- In light of the SDG indicators, and the emerging demands for climate change statistics and indicators, there is great demand for the coordination of data collection and dissemination on environmental statistics and indicators. The Inventory serves as a resource to alleviate the reporting burden on countries.
- A standardized reporting format, summarizes country data collection by each institution.
- Countries provide data to these international institutions through questionnaires, national communications or online reporting.
- Three inventories have been conducted, in 2015, 2017 and 2019.



Introduction of data collection activities

 This inventory is compiled by UNSD in collaboration with the members of the Intersecretariat Working Group on Environment Statistics (IWG-ENV) and other partner organizations:

https://unstats.un.org/unsd/envstats/coordination https://unstats.un.org/unsd/envstats/Inventory_datacollection_dissemination

• Results included in the Background Document to the Report of the Secretary-General on Environment Statistics to the 51st session of the Statistical Commission, Annex 2:

https://unstats.un.org/unsd/statcom/51st-session/documents/BG-item-4e-EnvironmentStats-E.pdf

 The inventory on data collections serves as a response to the mandate from the 34th session of the United Nations Statistical Commission. This mandate empowered UNSD to convene the IWG-ENV to develop and harmonize concepts, methods and standards, as well as coordinate data collection and capacity development in environment statistics.



Objectives

- Support institutions' continuous efforts to promote data sharing and exchanges on the basis of common data templates and to encourage indepth assessments of data.
- Provide a platform to compare and harmonize data collection from a methodological point of view.
- Provide countries and institutions with a picture of data flows from various national sources with the intention to reduce reporting burden and avoid duplication of efforts, both at the national and international levels.
- Encourage countries to provide their own, national and official data, and to encourage users to refer to these data as a matter of priority over external or non-official data.



Inventory includes following information

Information on data collection activities from the following institutions and programmes are included:

Conventions	UN agencies, international, intergovernmental organizations										
Basel Convention	CARICOM	• FAO-AQUASTAT	UNEP-GEMS-Water								
• CBD	• COMESA	• FAO-FAOSTAT	UNEP-Ozone								
• CMS	• CRED	• FAO-FISHSTAT	• UNEP-WCMC								
• CITES	• OECD	• FAO-FRA	• UNICEF								
Ramsar Convention	• ECE	Eurostat	• UNSD								
Stockholm Conv. (POPs)	• ECLAC	• IEA	• WHO								
• UNCCD	• EEA	• IUCN	World Bank								
• UNFCCC	• ESCAP	• UN-HABITAT									
World Heritage Convention	Eurostat	• UNDRR									



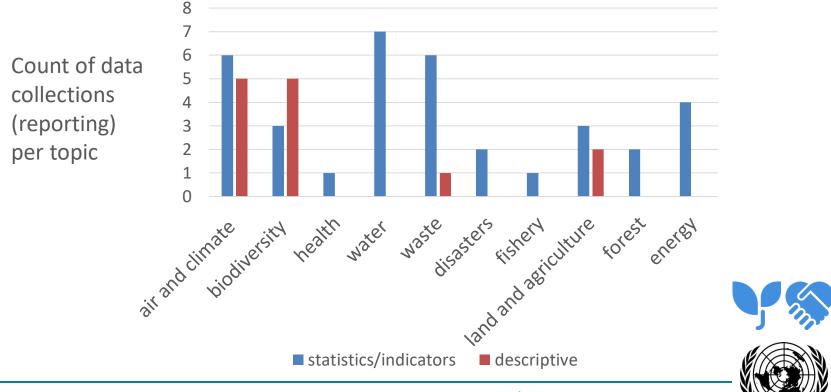
Example of a template

Institution	Food and Agriculture Organization of the United Nations (FAO); AQUASTAT											
Website	http://www.fao.org											
Focal point	Mr. Pietro Gennari, FAO Chi	ief Statistician, chief-statisti	cian@fao.org									
Description of	AQUASTAT. Topics include	AQUASTAT. Topics include: water resources, water uses, dams, irrigation and drainage, wastewater, institutional frameworks.										
data collection												
Periodicity of	Dual update: A light	Geographical coverage	Global	Temporal	AQUASTAT: 1961-							
data collection	annual update with SDG-	I		coverage	2015, data availability							
	related variables and	I			varies.							
	A full data set update	I										
CD C	every 5 years.											
SDG coverage	6.4.1 Change in water-use efficiency over time (Tier II)											
Outputs	6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources (Tier I) AQUASTAT: http://www.fao.org/nr/water/aquastat/main/index.stm											
Outputs	AQUASTAT Profiles (147 country, 6 regions and 11 river basins): http://www.fao.org/nr/water/aquastat/countries_regions/index.stm											
Metadata	Refers to the AQUASTAT glossary for definition of the variables included in the database:											
(link)	http://www.fao.org/nr/water/aquastat/data/glossary/search.html?lang=en											
`	Three levels of metadata (data-point, variable, database) are described at: http://www.fao.org/nr/water/aquastat/metadata/index.stm											
Methodological	International Recommendations for Water Statistics: https://unstats.un.org/unsd/envaccounting/irws/											
guidance used	The International Standard Industrial Classification of All Economic Activities, Rev. 4:											
for data	https://unstats.un.org/unsd/cr/registry/isic-4.asp											
collection	World Programme for the Census of Agriculture 2020 (based on the CPC classification): http://www.fao.org/3/a-i4913e.pdf											
Data validation	AQUASTAT is currently moving from a data collection based on country surveys filled in by national consultants towards a data											
process	collection similar to the FAC	collection similar to the FAO global Forest Resources Assessment (FRA, see above) based on officially nominated national										
-	correspondents. Manual and automated cross-checking is made within time-series, between variables, with neighbouring countries and											
	other existing data sources. Regular contacts between national correspondents and FAO staff form part of the validation process and											
	ensure country endorsement.											



Responses by topics

- The current responses to the inventory show that institutions collect and disseminate a multitude of environment-related data and statistics.
- Several environment topics, including water and waste, feature in multiple institutions' data collection mandates.



United Nations Statistics Division

Some data related to the SDGs

	1 nd Poverty Ř;*Ř*ř	2 ZERO HUNGER	3 GOODHEALTH AND WELL BEING 	4 QUALITY EDUCATION	5 EENDER EQUALITY	6 CLEAN WATER AND SANITATION	8 DECENT WORK AND ECONOMIC BROWTH	9 INDUSTRY INVENIATION ANDIVERSISTICUTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES	12 RESPONSELE CONSUMPTION AND PRODUCTION	13 GLIMATE	14 LIFE BELOW WATER	15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTINERSHIPS FOR THE EQUALS
Basel Conv.																
CITES																
Ramsar Conv.																
FAO																
IEA																
IUCN																
OECD																
UNICEF																
UNEP																
UNFCCC																
UN-HABITAT																
UNDRR																
UNSD																
World Bank																
WHO																

• A lot of data collection effort on SDG 6: Clean water and sanitation, 7: Affordable and clean energy, 11: Sustainable cities and communities, 12: Responsible consumption and production, 14: Life below water, and 15: Life on land.



Example: Water data collection spanning across many institutions and multiple SDG indicators

Multiple organizations work on water-related statistics among whom there is established collaboration, e.g., in the areas of water resources, abstraction, use, supply and wastewater.

- **FAO-AQUASTAT**: water resources, water uses, dams, irrigation and drainage, wastewater, institutional frameworks.
- **OECD**: inland waters, marine environment, water quality, wastewater.
- Ramsar Convention: concerns about change in the extent of water-related ecosystems over time.
- **UNICEF** and **WHO**: Joint Monitoring Programme (JMP) for water supply and sanitation.
- UN-HABITAT: country, urban, rural, and city level data on selected number of environmental related indicators such as access to water, sanitation, etc.
- UNEP: Global Environment Monitoring System for Water (GEMS-Water), water quality data of ground and surface waters.
- **UNSD**: freshwater resources, abstraction and use, supply, wastewater.





Key issues

- Need to further complete and regularly update the inventory.
- Need clearer understanding of what is regular primary data collection.
- Need more streamlined thematic categorization.
- Need to distinguish internationally comparable statistics, from non-comparable (indicators), from descriptive information.
- Need more specific temporal and geographic coverage and periodicity.
- Specify type of reporting: mandatory, optional, voluntary.



The way forward

Summaries

- There is rich information in this data collection inventory.
- Should be conducted on a regular basis.
- It helps identifying the data overlaps and data gaps, this inventory can be used to synchronize institutions to collaborate better on the data cycles, definitions, methodologies, etc.

Questions

- Are there any institutions that were not currently covered?
- Are there any other topics that are worthy of additional or closer coordination?
- Are there any suggestions on improving the template, in terms of structure, e.g. types of reporting (mandatory, optional, voluntary)?



Thank you! <u>envstats@un.org</u>

