

MANUAL ON THE BSES: GENERATION AND MANAGEMENT OF WASTE STATISTICS

Session One: Environment Statistics Toolbox

Wednesday, 3rd May 2017



Component 3: Residuals						
Sub-component 3.3: Generation and Management of Waste						
Sta	tistics and Related Information	Category of	Potential	Methodological Guidance		
	Id Text - Core Set/Tier 1 ; Regular Text er 2; <i>Italicized Text - Tier 3</i>)	Measurement	Aggregations and Scales			
Тор	ic 3.3.1: Generation of waste					
a.	Amount of waste generated by source	Mass	 By ISIC economic activity By households By tourists National Sub-national 	 European Commission: European List of Waste, pursuant to European Waste Framework Directive Eurostat: Environmental Data Centre on Waste 		
b.	Amount of waste generated by waste category	Mass	 By waste category (e.g., chemical waste, municipal waste, food waste, combustion waste) National 	 Eurostat: European Waste Classification for Statistics (EWC-Stat), version 4 (Waste categories) Basel Convention: Waste categories and hazardous characteristics 		
C.	Amount of hazardous waste generated	Mass	 By ISIC economic activity National Sub-national 	 Eurostat: Manual on Waste Statistics Eurostat: Guidance on classification of waste according to EWC-Stat categories SEEA Central Framework (2012) UNSD: Environment Statistics Section-Waste 		



Questionnaire

Тор	ic 3.3.2: Management of waste			
a.	Municipal waste		By type of	Eurostat: Environmental
	1. Total municipal waste collected	Mass	treatment and	Data Centre on Waste
	2. Amount of municipal waste treated by type of treatment and disposal	Mass	disposal (e.g., reuse, recycling, composting, incineration,	 Eurostat metadata: Organisation for Economic Co-operation and Development
	3. Number of municipal waste treatment and disposal facilities	Number	landfilling, other) • By type of waste,	(OECD)/Eurostat definition of municipal waste
	4. Capacity of municipal waste treatment and disposal facilities	Volume	when possible National	• UNSD: Environment Statistics Section-Waste
b.	Hazardous waste		Sub-national	Questionnaire Basel Convention: Waste
	1. Total hazardous waste collected	Mass		categories and hazardous
	2. Amount of hazardous waste treated by type of treatment and disposal	Mass		characteristics • Eurostat: EWC-Stat, version 4 (Waste
	3. Number of hazardous waste treatment and disposal facilities	Number		categories) • European Commission:
	4. Capacity of hazardous waste treatment and disposal facilities	Volume		European Waste Framework Directive (Waste treatment
c.	Other/industrial waste			operations)
	Total other/industrial waste collected	Mass		 Eurostat: Manual on Waste Statistics
	2. Amount of other/industrial waste treated by type of treatment and disposal	Mass		 Eurostat: Guidance on classification of waste according to EWC-Stat
	3. Number of other/industrial treatment and disposal facilities	Number		categories Rotterdam Convention
	4. Capacity of other/industrial waste treatment and disposal facilities	Volume		



d.	Amount of recycled waste	Mass	 By specific waste
			streams (e.g., e-
			waste, packaging
			waste, end of life
			vehicles)
			By waste category
			 National
			 Sub-national
e.	Imports of waste	Mass	By waste category

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f.	Exports of waste	Mass	(e.g., chemical waste,
g.	Imports of hazardous waste	Mass	municipal waste, combustion waste)
h.	Exports of hazardous waste	Mass	



FDES Statistics

- Potential aggregations and scales: should follow by ISIC economic activity, government and households
- Why are tourists, hotels and restaurants separate from the ISIC economic activities
 - Why include these? May be difficult to collect/estimate waste by tourists.
- Medical waste is preferred term to clinical waste
- Household waste is mentioned some countries only collect municipal waste



FDES Statistics

- National level only may be possible
 - e.g. waste fractions, industry level and treatment of waste
- Sub-regional level—may be suitable only for household waste
- Data on waste treatment facilities difficult to obtain
- Difficult to group treatment by origin: municipal, industrial etc.



2.0 Introduction Relevance

- Include reuse: Waste as a resource when recycling, reusing components or fuel
- Amend diagram to include informal waste management/dumping

3.0 Definitions and Descriptions

Chapter overview

- Sets out main issues with waste statistics
 - Data collection challenges
- What is waste?
 - Groupings of waste: sources, types, management or characteristics of waste
- Waste category
- Waste stream
- Composition of waste: UNSD/UNEP questionnaire, OECD/Eurostat
- Aggregates of waste
- Waste treatment and disposal: UNSD/UNEP questionnaire, OECD/Eurostat
 - Waste treatment methods
- Hazardous waste treatment



3.0 Definitions and Descriptions

- Clarify that waste generated does not equal waste collected/treated
 - Informal collection/dumping needs to be mentioned
- Clarify what is meant by the lack of data affecting policy areas
 - Particularly for food waste which is high on the agenda but lacks data



3.0 Definitions and Descriptions (II)

- 3.3.1 Generation of waste: needs mention of estimates using consumption data
- 3.3.1.a Amount of waste generated by source
 - In addition to mineral wastes, other wastes can differ between countries: share of services, tourism etc
- 3.3.1.c Amount of hazardous waste
 - Include households as hazardous waste includes batteries etc.
- 3.3.2.d Amount of recycled waste
 - Definition of recycling incineration for energy recovery is not recycling but recovery.
 - EU waste hierarchy is one level below recovery



4.0 International Sources and Classifications

Chapter overview

4A Classifications

- Classification of Waste European Waste Catalogue
- Hazardous waste as defined by Basel Convention

4B International recommendations, frameworks and standards

- UNSD/UNEP Waste Questionnaire
- OECD/Eurostat State of the Environment
- European Union and Eurostat Regulations 2150/2002, 574/2004, 783/2005. Directive 2008/98/EC
- UNECE Workshop on Waste Statistics
- UN Basel Convention



4.0 International Sources and Classifications

Chapter overview

4C Sources of global and regional statistics

- UNSD Environmental Statistics and Indicators
- European Union
- OECD Environment Directorate

5.0 Data collection and sources of data

- Set out examples of the main data collection methods in countries
 - Different waste streams
 - Municipal waste
- Elaborate with comparison of administrative data and survey data. Some questions may be: When is admin data used and when are surveys used? What variables are they each collecting? If a country does a survey does it also use admin data, in which countries is a survey used as a primary data set or is a survey mainly a secondary data set to supplement the admin data.
- Issues specific to administrative data are: give concrete examples of units used, are different definitions used by waste treatment operators? etc



5.0 Data collection and sources of data

- Waste generated: include examples of methods for estimating waste generated
 - e.g. WEEE generated using 'apparent consumption method'. Method in the EU WEEE Directive.
- Periodicity usually annual
- Validation some countries include checks on specific waste streams that are waste statistics but not considered waste by discarder, e.g., food pulp or peelings used for bio gas, animal feed

6.0 Dissemination and Indicators

Chapter overview

- SDGs 11.6.1, 12.4.2, 12.5.1
- Other indicators
- OECD Environmental and Green Growth Indicators: waste generation intensity and recovery ratios
- Eurostat Waste Management indicators
- EU Efficiency Scoreboard indicators
- EU Sustainable Development Indicators



6B Use in SEEA

- Section should include Section 3.6.5 of the SEEA-Central Framework on "Solid Waste Accounts",
- "Physical supply table for solid waste" and "Physical use table for solid waste"
- Section 3.2.4 of the SEEA-CF, "Definition and classification of residuals " on "Solid waste".
- Include a concordance table in this section (6B) to allocate the FDES waste with the solid waste accounts

