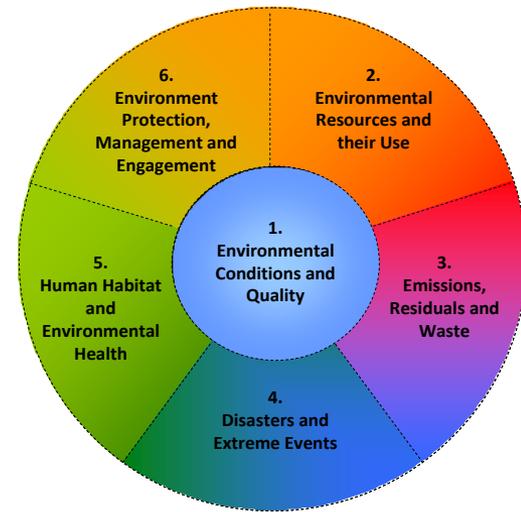


COMPILATION OF ENVIRONMENTALLY-RELATED QUESTIONS IN CENSUSES AND SURVEY, AND SPECIALIZED ENVIRONMENTAL SURVEYS



Session Two: Environment Statistics Data Collection and Surveys

**Fourth Meeting of the Expert Group on Environment Statistics
(Prague, Czechia, 3-5 May 2017)**



Last year's EGES Final Report

- “Upon the invitation of UNSD, several experts expressed their willingness to contribute to a proposal to create a repository of environment-related surveys and censuses...”
- “...sharing of these surveys may help countries analyse good practices in survey design, estimation procedures and data analysis”
- “...sharing of surveys which feature a module specifically focused on environment statistics (e.g. MICSES) is also encouraged”



Current status

- UNSD, in collaboration with this Expert Group, has compiled a list online: <https://unstats.un.org/unsd/environment/censusesandsurveys.html>
- 62 surveys/censuses online in one list alphabetically by country name. [country], [census or survey title], [year census or survey was administered], [language if other than English]
- Themes of censuses/surveys include agriculture, environment protection expenditure, fisheries, GHG emissions, land management, sanitation, waste, water
- Both household and business surveys (including government sector surveys)
- Most are in English, but all languages are welcome



Other international organisations' similar work

- PARIS21's [International Household Survey Network](#)
- “...a searchable list of surveys and censuses conducted in low- and middle-income countries... maintained in collaboration with the World Bank and national and international agencies.”
 - Filtered (by keyword, country and year) database of 5906 surveys.
 - Scope goes well beyond environment.
 - Household surveys only.



Other international organisations' similar work

- The World Bank's [Living Standards Measurement Survey](#)
- “The goal of the LSMS is to facilitate the use of household survey data for evidence-based policymaking.”
 - Filtered (by theme, sub-theme, country and year) database of 113 surveys; also tabulated.
 - Scope goes well beyond environment.
 - Household surveys only.



Other data sources of environment statistics

- Statistical surveys (e.g., censuses or sample surveys of population, housing, agriculture, enterprises, households, employment, and different aspects of environment management);
- Administrative records of government and non-government agencies responsible for natural resources, as well as other ministries and authorities;
- Remote sensing and thematic mapping (e.g., satellite imaging and mapping of land use and land cover, water bodies or forest cover);
- Monitoring systems (e.g., field-monitoring stations for water quality, air pollution or climate);
- Scientific research and special projects undertaken to fulfil domestic or international demand

Source of above text: FDES, para. 1.39



Analysis of question structure themselves (expenditure)

MEDIA						
AKTIVITI ACTIVITY	UDARA AIR		AIR WATER		AIR BAWAH TANAH GROUND WATER	
	Perbelanjaan Operasi Operating Expenditure	Perbelanjaan Modal Capital Expenditure	Perbelanjaan Operasi Operating Expenditure	Perbelanjaan Modal Capital Expenditure	Perbelanjaan Operasi Operating Expenditure	Perbelanjaan Modal Capital Expenditure
(i) Pengawasan Alam Sekitar <i>Environmental Monitoring</i> (Jelaskan secara ringkas kos dan peralatan yang digunakan) (Brief description of costs and equipment used)	RM 0009	RM 0010	RM 0017	RM 0018	RM 0025	RM 0026
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	0209	0210	0217	0218	0225	0226

(ii) Tebus guna Tapak dan Pembersihan <i>Site Reclamation and Decommissioning</i> (Jelaskan secara ringkas kos dan peralatan yang digunakan) (Brief description of costs and equipment used)	RM 0011	RM 0012	RM 0019	RM 0020	RM 0027	RM 0028
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	0211	0212	0219	0220	0227	0228

(iii) Peredaan dan Kawalan Pencemaran <i>Pollution Abatement and Control (PAC)</i> (Jelaskan secara ringkas kos dan peralatan yang digunakan) (Brief description of costs and equipment used)	RM 0013	RM 0014	RM 0021	RM 0022	RM 0029	RM 0030
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	0213	0214	0221	0222	0229	0230



Analysis of question structure themselves (volume)

NOTE i) Water volumes are to be reported in the units in use at this facility;
please **mark only one selection** and use this unit of measure throughout the questionnaire.

Line
1

C0101

1 cubic metres

C0102

2 other – specify

IMPORTANT

If reporting in multiples of a unit of measure, please take care to enter the correct decimal values or number of zeros. (i.e., if *other*, above, is specified as *thousands* of litres, note that a reported quantity of 3 = 3,000 (*3 thousand*) litres, whereas a reported quantity of 3,000 = 3,000,000 (*3 million*) litres).

If reporting in gallons, please specify Imperial or U.S. gallons.

Statistics Canada, Industrial
Water Survey, Manufacturing
Industries, 2015.



Analysis of question structure themselves (volume)

SECTION 1: MONTHLY AND ANNUAL TOTAL WATER INTAKE AND DISCHARGE

INSTRUCTIONS

- (i) In this section, under intake, please report by month the quantity of "new water" brought into your operation. For the purpose of this questionnaire "new water" is defined as water introduced for the first time into this establishment **regardless of source or quality** (including sanitary/domestic water intake).
- (ii) Where you supply water to adjacent or tenant industry(ies) or municipality(ies), please report estimated water intake for your establishment only.
- (iii) Under discharge, please report the quantity of water routed to its ultimate point of discharge (including sanitary/domestic discharge).
- (iv) Under discharge **do not report** the volume of water released to ponds, lagoons or basins and intended for recirculation or reuse until such water is actually discharged to a location beyond the control of the establishment.
- (v) Under discharge **do not include** any water lost in production through evaporation, permanently held in open or closed storage, or otherwise consumed (e.g. included in a final product).

Month	Volume per month	
	Intake	Discharge
2 January	C1001	C1101
3 February	C1002	C1102
4 March	C1003	C1103
5 April	C1004	C1104
6 May	C1005	C1105
7 June	C1006	C1106
8 July	C1007	C1107
9 August	C1008	C1108
10 September	C1009	C1109
11 October	C1010	C1110
12 November	C1011	C1111
13 December	C1012	C1112
14 ANNUAL TOTAL	C1013	C1113

Statistics Canada,
Industrial Water Survey,
Manufacturing Industries,
2015.



Analysis of question structure themselves (volume)

Section 2: Irrigation methods, water origin and quantity in calendar year 2009 **1**

		Code	Please tick
Outdoor irrigation methods	Sprinkler irrigation	2091	<input type="checkbox"/> 1
	Drop irrigation (just above ground level, also micro-sprinklers) 2	2092	<input type="checkbox"/> 1
Water source mainly used for outdoor irrigation 3	Receipt of water from public or private supply networks	2093	<input type="checkbox"/> 1
	Ground water (incl. spring water and bank filtrate)		<input type="checkbox"/> 2
	Surface water belonging to the holding (e.g. ponds, reservoirs)		<input type="checkbox"/> 3
	Non-holding surface water (e.g. rivers, lakes)		<input type="checkbox"/> 4
	Other origin (e.g. brackish water, processed water)		<input type="checkbox"/> 5
Water quantity consumed in calendar year 2009 4		2099	<input type="text"/> m ³

Federal Statistical Office, Germany,
Irrigation follow-up survey of the
census of agriculture, 2010.



Selected questions for discussion

- How should the UNSD compilation be used by countries?
- What data collection methods are useful for difficult topics? How can difficult topics be identified?
- How should guidance be provided in using the questionnaires?
 - Which questions are appropriate in which national/regional contexts? Can guidance be provided on question wording?
 - Should there be a compilation of best practices (and for which topics, given that some environment statistics are already well covered, with many practices compiled, e.g. crops and livestock) – covering a variety of regions and country circumstances for resource availability, staffing, skill levels, e.g., where surveys are feasible, administrative data etc.?
- Should other materials, questionnaire guides, manuals, etc. be included to interpret the questionnaires or add additional value?

