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United Nations Statistics Division (UNSD) and United Nations Environment Programme (UNEP)

QUESTIONNAIRE 2013 ON ENVIRONMENT STATISTICS

Section: WATER

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GUIDANCE

INTRODUCTION

The biennial data collection which is a joint activity of the United Nations Statistics Division (UNSD) and the United Nations Environment Programme (UNEP) contributes to the development of the UNSD International Environment Statistics Database. The data will be analyzed and consolidated by UNSD for use in international work and will be made available to users at UNSD's website.

The data requested in this questionnaire may be initially collected or compiled by different institutions in a country. The national statistical offices or ministries of environment are asked to bring together the data from these different sources.

Where a country has provided data to previous UNSD/UNEP Questionnaires on Environment Statistics, the 2013 Questionnaire has been pre-filled with these data. Countries are requested to add data for later years and to check the time series for consistency.

The definitions are listed in order of appearance of the variables. Where variables are repeated, the definition can be found where the variable first appeared.

Copies of the questionnaire are available online at http://unstats.un.org/unsd/environment/questionnaire.htm. Data from previous data collections are available at http://unstats.un.org/unsd/environment/qindicators.htm.

The water questionnaire asks for key information concerning water resources management in a country. The tables cover renewable freshwater resources, freshwater abstraction and use, the water supply industry (ISIC 36), wastewater generation and treatment, and population connected to wastewater treatment.

Because of the complex nature of water-related environmental issues, countries are asked to provide additional information that assists the analysis and interpretation of the data in the Supplementary Information Sheet (W6).

A useful reference against which water resources data can be compared is the FAO Aquastat database: http://www.fao.org/nr/water/aquastat/main/index.stm.

A data validation section is added next to each table. It includes two validation table types: time series validation and coherence validation. It will help both the country and UNSD to validate the data provided.

Diagrams have been developed by UNSD to demonstrate the relationships between variables in Tables W1, W2 and W3. A new diagram has also been developed for Table W4. Respondents are encouraged to use the diagrams for clarifications on the concepts underlying the data requested in this questionnaire.

Changes from the UNSD/UNEP Questionnaire 2010 on Environment Statistics:

Table W2 has been modified and renamed "Freshwater abstraction and use" (W2, W3 and W4 of the 2010 Questionnaire have been merged to create this table), which has the following consequences:

The current Table W3 is the former Table W5 of the 2010 Questionnaire with slight modifications.

The current Table W4 is a modified version of the former Table W6 of the 2010 Questionnaire and has been renamed "Wastewater generation and treatment". It now includes the amount of wastewater generated and treated.

The current Table W5 is the former Table W7 of the 2010 Questionnaire with slight modifications.

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STEPS TO FOLLOW

- ☑ Fill in the contact institution information at the top of each table.
- ☑ Tables are pre-filled with data received from previous UNSD/UNEP Questionnaires. Check the pre-filled data and, if possible, kindly update in the table. Check the pre-filled footnotes and correct them if necessary.
- ☑ If necessary, include footnotes to give additional information on data. Assign codes in alphabetical order (e.g., A, B, C...) in the first column to the right of the data and in the 'Footnotes' section below each table. Write your explanatory text in the footnote text column next to the associated code. If there are big data fluctuations in the time series, add footnotes to explain the large changes. Provide as much information as possible in the footnotes on the source and data collection method for each value.
- ☑ Based on the definitions provided, fill in the tables as much as possible (see the Definitions Sheet). If a different definition or methodology has been used, explain the differences in a footnote or provide the definition and/or methodology applied in the Supplementary Information Sheet (W6).
- ☑ **Note that years 1990, 1995-2000 can also be viewed/edited: Select the columns indicated below each table, right-click, and select "Unhide".**
- ☑ **If the requested data are not available, leave the cell blank. If the requested variable is not applicable (the phenomenon is not relevant) to the country, or the value is less than half the unit of measurement, the cell should be filled with "0".**
- ☑ Report data in the requested unit. A conversion matrix is provided below the description of tables.
- ☑ Attach any documents or reference which could help UNSD to understand your data.
- ☑ After you have filled in the data for each table, check the flagged cases (in red) for data coherence in the data validation section next to each table.

Contact us: If you have any questions, contact the United Nations Statistics Division

- by mail: UN Statistics Division, Environment Statistics Section, DC2-1416, 2 United Nations Plaza, New York, New York, 10017, USA
- by e-mail: envstats@un.org
- by fax: +1 (212) 963-0623
- by phone: Reena Shah at +1 (212) 963-4586, or Karen Cassamajor at +1 (212) 963-4561, or Marcus Newbury +1 (212) 963-0092 or Robin Carrington at +1 (212) 963-6234.

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DESCRIPTION OF TABLES

Table W1: Renewable Freshwater Resources
Table W1 covers the main components to assess the renewable freshwater resources and their availability in a country. Renewable freshwater (surface and groundwater) resources are replenished by precipitation (less evapotranspiration) falling over the territory of the country that ends up as runoff to rivers and recharge to aquifers (internal flow), and by surface waters and groundwater flowing in from neighbouring countries (inflow). The table also includes the outflow of surface and groundwaters to neighbouring countries and to the sea (which is not included in the equation to determine the amount of renewable freshwater resources). The outflow to neighbouring countries is divided into that which is secured by treaties and that which is not secured by treaties. The data requested in the table are usually based on hydrological/meteorological monitoring and modelling.
Table W2: Freshwater Abstraction and Use
Freshwater can be abstracted from surface waters (rivers, lakes etc.) and from groundwaters (through wells or springs). Water is abstracted by the public or private bodies whose main function is to provide water to the general public (the water supply industry). It can also be directly abstracted by industries, farmers, households and others. The table asks for data on abstraction of freshwater, broken down according to the main activity of the water abstractor, as defined by the International Standard Industrial Classification of All Economic Activities (ISIC Rev. 4). The table covers the amount of water made available for use by abstraction, desalination, reuse and net imports. Total freshwater use equals total water available for use minus losses during transport. The table also covers the overall amount of water used by the main ISIC groupings.
Table W3: Water Supply Industry (ISIC 36)
Table W3 focuses on the water supply industry, i.e., the public or private bodies whose main function is to provide water to the general public. It asks for the quantities of water supplied by the water supply industry to its customers (water users), broken down by the main ISIC groupings. It also asks for water losses and for the population served by the water supply industry. The term water supply industry is identical to 'public water supply' and it refers to economic units belonging to ISIC 36 (water collection, treatment and supply).
Table W4: Wastewater Generation and Treatment
Wastewater can be generated from various economic activities and households. Wastewater can be discharged directly into water bodies, or may be treated to remove some of the pollutants before being discharged. Table W4 asks for data on the amount of wastewater generated as well as the amount of wastewater treated in the sewerage industry, in other treatment plants, and in independent treatment facilities. The table distinguishes primary, secondary and tertiary treatment according to the level of wastewater treatment (see definitions).
Table W5: Population Connected to Wastewater Treatment
The share of the resident population connected to public wastewater collecting system, to public wastewater treatment and to independent treatment facilities indicate the coverage and level of sanitation.
Table W6: Supplementary Information Sheet
Table W6 is where any relevant additional information can be added. For example, UNSD has provided a generic definition of freshwater in the Definitions sheet for this questionnaire. However, a more specific national definition (e.g., indicating a degree of salinity) would be useful for international comparisons. In addition, countries are encouraged to provide or attach any complementary source of information such as website addresses, publications, results of surveys, etc., related to the water topic, particularly if countries encountered difficulties filling in the questionnaire.

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CONVERSION TABLE

To Convert	To	Multiply by
gallons (UK)	l	4.54609
gallons (US)	l	3.785411784
m^3	l	1000
litre (l)	m^3	0.001
ml	l	0.001

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List of Definitions

Industry Classification

This questionnaire uses the International Standard Industrial Classification of All Economic Activities (ISIC Rev. 4) to attribute water abstraction and use to economic activities. The codes used in this questionnaire are listed below. For the full classification, see http://unstats.un.org/unsd/cr/registry/regcst.asp?Cl=27.

ISIC Code(s)	Questionnaire abbreviation	ISIC Rev. 4
E 36	**Water supply industry**	**Water collection, treatment and supply** includes water collection, treatment and distribution activities for domestic and industrial needs. Collection of water from various sources, as well as distribution by various means is included.
E 37	**Wastewater treatment (sewerage)**	**Sewerage** includes: - operation of sewer systems or sewer treatment facilities - collecting and transporting of human or industrial wastewater from one or several users, as well as rain water by means of sewerage networks, collectors, tanks and other means of transport (sewage vehicles etc.) - emptying and cleaning of cesspools and septic tanks, sinks and pits from sewage; servicing of chemical toilets - treatment of wastewater (including human and industrial wastewater, water from swimming pools etc.) by means of physical, chemical and biological processes like dilution, screening, filtering, sedimentation etc. - maintenance and cleaning of sewers and drains, including sewer rodding
A 01-03	**Agriculture, forestry and fishing**	**Agriculture, forestry and fishing** cover: crop and animal production, hunting and related service activities; forestry and logging; and fishing and aquaculture. This section includes the exploitation of vegetal and animal natural resources, comprising the activities of growing of crops, raising and breeding of animals, harvesting of timber and other plants, animals or animal products from a farm or their natural habitats.
C 10-33	**Manufacturing**	**Manufacturing** includes the physical or chemical transformation of materials, substances, or components into new products. The materials, substances, or components transformed are raw materials that are products of agriculture, forestry, fishing, mining or quarrying as well as products of other manufacturing activities. Substantial alteration, renovation or reconstruction of goods is generally considered to be manufacturing.
D 351	**Electricity industry**	**Generation, transmission and distribution of electricity.**

Definitions

Table	Term	Definitions
W1, 1	**Precipitation**	Total volume of atmospheric wet precipitation (rain, snow, hail, dew, etc.) falling on the territory of the country over one year, in millions of cubic metres.
W1, 2	**Actual evapotranspiration**	Total actual volume of evaporation from the ground, wetlands and natural water bodies and transpiration of plants. According to the definition of this concept in Hydrology, the evapotranspiration generated by all human interventions is excluded, except unirrigated agriculture and forestry. The 'actual evapotranspiration' is calculated using different types of mathematical models, ranging from very simple algorithms (Budyko, Turn Pyke, etc.) to schemes that represent the hydrological cycle in detail.
W1, 3	**Internal flow**	Total volume of river run-off and groundwater generated over the period of a year, in natural conditions, exclusively by precipitation into a country. The internal flow is equal to precipitation less actual evapotranspiration and can be calculated or measured. If the river run-off and groundwater generation are measured separately, transfers between surface and groundwater should be netted out to avoid double counting.
W1, 4	**Inflow of surface and groundwaters from neighbouring countries**	Total volume of actual external inflow of rivers and groundwater, coming from neighbouring countries. Boundary waters should be divided 50/50 between the two riparian countries, unless other water sharing agreements exist.
W1, 5	**Renewable freshwater resources**	= Internal flow + Inflow of surface and groundwaters from neighbouring countries.
W1, 6	**Outflow of surface and groundwaters to neighbouring countries**	Actual outflow of rivers and groundwater into neighbouring countries.
W1, 7	**Secured by treaties**	The volume of surface water and groundwater that moves out of the country of reference that is guaranteed by formal agreements to adjacent countries per year.
W1, 8	**Not secured by treaties**	The volume of surface water and groundwater that moves out of the country of reference that is not guaranteed by formal agreements to adjacent countries per year.
W1, 9	**Outflow of surface and groundwaters to the sea**	Actual outflow of rivers and groundwater into the sea.
W1	**Long-term annual average**	Arithmetic average over at least 30 consecutive years. Please provide average over available period and indicate the length of the time period in the footnotes.
W2	**Fresh surface water**	Water which flows over, or rests on, the surface of a land mass; natural watercourses such as rivers, streams, brooks, lakes, etc., as well as artificial watercourses such as irrigation, industrial and navigation canals, drainage systems and artificial reservoirs. For purposes of this questionnaire, water obtained through bank filtration is included under (fresh) surface water. Sea-water, and transitional waters, such as brackish swamps, lagoons and estuarine areas are not considered fresh surface water. **Bank filtration** is the use of existing geologic formations adjacent to surface water bodies to filter drinking water. Wells are dug in fine, sandy sediments next to water bodies and water is extracted from these wells. Water in the water bodies filters through the sediments, removing contaminants.

Definitions

Table	Term	Definitions
W2	**Fresh groundwater**	Water which is being held in, and can usually be recovered from, or via, an underground formation. All permanent and temporary deposits of water, both artificially charged and naturally, in the subsoil, of sufficient quality for at least seasonal use. This category includes phreatic water-bearing strata, as well as deep strata under pressure or not, contained in porous or fracture soils. For purposes of this questionnaire, groundwater includes springs, both concentrated and diffused, which may be subaqueous.
W2, 1	**Fresh surface water abstracted**	Water removed from any surface water sources, such as rivers, lakes, reservoirs or rainwater, either permanently or temporarily.
W2, 2	**Fresh groundwater abstracted**	Water removed from any groundwater sources either permanently or temporarily.
W2, 3	**Freshwater abstracted**	Water removed from any water source (surface water sources, such as rivers, lakes, reservoirs or rainwater; and groundwater sources) either permanently or temporarily. Includes abstraction by the water supply industry for distribution and direct abstraction by other activities for own use. The volume of water abstracted is broken down by main groups of economic activity of the abstractors (according to ISIC Rev.4) and households.
W2, 4	(Freshwater abstracted by) **Water supply industry (ISIC 36)**	The volume of water abstracted from surface water sources (rivers, lakes, reservoirs etc., including the volume of rainwater collected) and groundwater sources, by economic units whose main activities are the collection and treatment of water and its distribution to households and other users (ISIC 36: Water collection, treatment and supply). The volume of water abstracted by the water supply industry for the operation of irrigation canals is excluded here and should be reported under Freshwater abstracted by agriculture, forestry and fishing.
W2, 5	(Freshwater abstracted by) **Households**	The volume of water directly abstracted from surface water sources (rivers, lakes, reservoirs etc., including the volume of rainwater collected) and groundwater sources by households for own use.
W2, 6	(Freshwater abstracted by) **Agriculture, forestry and fishing (ISIC 01-03)**	The volume of water directly abstracted from surface water sources (rivers, lakes, reservoirs etc., including the volume of rainwater collected) and groundwater sources by economic units belonging to ISIC 01-03 for own use. Includes water abstracted by the water supply industry (ISIC 36) for the operation of irrigation canals.
W2, 7	(Freshwater abstracted by) **Manufacturing (ISIC 10-33)**	The volume of water directly abstracted from surface water sources (rivers, lakes, reservoirs etc., including the volume of rainwater collected) and groundwater sources by economic units belonging to ISIC 10-33 for own use.
W2, 8	(Freshwater abstracted by) **Electricity industry (ISIC 351)**	The volume of water directly abstracted from surface water sources (rivers, lakes, reservoirs etc., including the volume of rainwater collected) and groundwater sources by economic units belonging to ISIC 351 for own use. Water for hydroelectricity generation (e.g., water behind dams) is excluded.
W2, 9	(Freshwater abstracted by) **Other economic activities**	The volume of water directly abstracted from surface water sources (rivers, lakes, reservoirs etc., including the volume of rainwater collected) and groundwater sources by economic units belonging to all other ISIC categories not specified above for own use.
W2, 10	**Desalinated water**	Total volume of water obtained from desalination of (i.e., removal of salt from) seawater and brackish water.

Definitions

Table	Term	Definitions
W2, 11	**Reused water**	Used water directly received from another user with or without treatment for further use. It also includes treated wastewater received for further use from treatment plants. Excludes water discharged into a watercourse and used again downstream. Excludes recycling of water within industrial sites.
W2, 12	**Imports of water**	Total volume of bulk water that is imported from other countries as a commodity through pipelines or on ships or trucks. Excludes bottled water.
W2, 13	**Exports of water**	Total volume of bulk water that is exported to other countries as a commodity through pipelines or on ships or trucks. Excludes bottled water.
W2, 14	**Total freshwater available for use**	= Freshwater abstracted + Desalinated water + Reused water + Imports of water - Exports of water.
W2, 15 & W3, 2	**Losses during transport**	The volume of water lost during transport between a point of abstraction and a point of use, and between points of use and reuse. Includes leakages and evaporation.
W2, 16	**Total freshwater use**	Water use is the total volume of water, either self abstracted or received from a water supplier, which is used by final users, such as households or economic activities for their production or consumption processes. The volume of water used is broken down by main groups of economic activity of the final users (according to ISIC Rev. 4) and households.
W2, 17	(Freshwater used by) **Households**	The volume of water used by households either supplied by the water supply industry or directly abstracted by households for own use. Water used in the normal functioning of households (e.g., drinking or washing). It includes watering of household gardens but should not include water used for commercial agriculture.
W2, 18	(Freshwater used by) **Agriculture, forestry and fishing (ISIC 01-03)**	The volume of water used for economic activities belonging to agriculture, forestry and fishing (ISIC 01-03), either directly abstracted from water sources for own use or supplied by the water supply industry.
W2, 19	**Irrigation in agriculture**	Artificial application of water on land to assist in the growing of crops and pastures.
W2, 20	(Freshwater used by) **Manufacturing (ISIC 10-33)**	The volume of water used for economic activities belonging to manufacturing (ISIC 10-33), either directly abstracted from water sources for own use or supplied by the water supply industry.
W2, 21	(Freshwater used by) **Electricity industry (ISIC 351)**	The volume of water used for economic activities belonging to the generation, transmission and distribution of electricity (ISIC 351), either directly abstracted from water sources for own use or supplied by the water supply industry. Water for hydroelectricity generation (e.g., water behind dams) is excluded.
W2, 22	(Freshwater used by) **Other economic activities**	The volume of water used for all other economic activities not specified above, either directly abstracted from water sources for own use or supplied by the water supply industry.
W3, 1	**Gross freshwater supplied by water supply industry (ISIC 36)**	Water supplied by water supply industry to the user. Includes losses during transport. The water supplied by water supply industry for the operation of irrigation canals is excluded.

Definitions

Table	Term	Definitions
W3, 3	**Net freshwater supplied by water supply industry (ISIC 36)**	Gross freshwater supplied by water supply industry minus freshwater losses during transport. The net volume of freshwater supplied by the water supply industry to final users is broken down by households and by main groups of the economic activity of the final users (according to ISIC Rev. 4).
W3, 9	**Total population supplied by water supply industry (ISIC 36)**	Percentage of the total resident population using water supplied by the water supply industry (ISIC 36).
W3, 10	**Urban population supplied by water supply industry (ISIC 36)**	Percentage of the urban resident population using water supplied by the water supply industry (ISIC 36).
W3, 11	**Rural population supplied by water supply industry (ISIC 36)**	Percentage of the rural resident population using water supplied by the water supply industry (ISIC 36).
W4, 1	**Total wastewater generated**	Wastewater is water which is of no further value to the purpose for which it was used because of its quality, quantity or time of occurrence. Total wastewater generated is the total volume of wastewater generated by economic activities (agriculture, forestry and fishing; manufacturing; electricity industry; and other economic activities) and households. Cooling water is excluded.
W4, 5	(Wastewater generated by) **Other economic activities**	Excluding wastewater generated by ISIC 37 (Sewerage).
W4, 7	**Urban wastewater treatment**	Urban wastewater treatment is all treatment of wastewater in urban wastewater treatment plants (UWWTP's). UWWTP's are usually operated by public authorities or by private companies working by order of public authorities. Includes wastewater delivered to treatment plants by trucks. UWWTP's are classified under ISIC 37 (Sewerage).
W4, 11	**Other wastewater treatment**	Treatment of wastewater in any non-public treatment plant, i.e., industrial wastewater treatment plants (IWWTP). Excluded from "other wastewater treatment" is the treatment in septic tanks. IWWTPs may also be classified under ISIC 37 (Sewerage) or under the main activity class of the industrial establishment they belong to.
W4, 8 & W4, 12	**Primary wastewater treatment**	Treatment of wastewater by a physical and/or chemical process involving settlement of suspended solids, or other process in which the Biochemical Oxygen Demand (BOD_5) of the incoming wastewater is reduced by at least 20% before discharge and the total suspended solids of the incoming wastewater are reduced by at least 50%. To avoid double counting, water subjected to more than one type of treatment should be reported under the highest level of treatment only.
W4, 9 & W4, 13	**Secondary wastewater treatment**	Post-primary treatment of wastewater by a process generally involving biological or other treatment with a secondary settlement or other process, resulting in a Biochemical Oxygen Demand (BOD_5) removal of at least 70% and a Chemical Oxygen Demand (COD) removal of at least 75%. To avoid double counting, water subjected to more than one type of treatment should be reported under the highest level of treatment only.

Definitions

Table	Term	Definitions
W4, 10 & W4, 14	**Tertiary wastewater treatment**	Treatment (additional to secondary treatment) of nitrogen and/or phosphorous and/or any other pollutant affecting the quality or a specific use of water: microbiological pollution, colour etc. The different possible treatment efficiencies ('organic pollution removal' of at least 95% for BOD_5, 85% for COD, 'nitrogen removal' of at least 70%, 'phosphorous removal' of at least 80% and 'microbiological removal') cannot be added and are exclusive. To avoid double counting, water subjected to more than one type of treatment should be reported under the highest level of treatment only.
W4, 15	**Independent wastewater treatment**	Collection, preliminary treatment, treatment, infiltration or discharge of domestic wastewater from dwellings generally between 1 and 50 population equivalents, not connected to a wastewater collection system. An example is septic tanks. Excluded from here are systems with storage tanks from which the wastewater is transported periodically by trucks to a wastewater treatment plant which are part of urban wastewater treatment.
W4, 17	**Sewage sludge production (dry matter)**	The accumulated settled solids, either moist or mixed, with a liquid component as a result of natural or artificial processes, that have been separated from various types of wastewater during treatment. Data on dry weight should be provided. If data are only available for wet weight, please fill in the data for wet weight and specify in a footnote.
W5, 1	**Population connected to wastewater collecting system**	Percentage of the resident population connected to the wastewater collecting systems (sewerage). Wastewater collecting systems may deliver wastewater to treatment plants or may discharge it without treatment to the environment.
W5, 2	**Population connected to wastewater treatment**	Percentage of the resident population whose wastewater is treated at wastewater treatment plants.
W5, 4	**Population with independent wastewater treatment (e.g., septic tanks)**	Percentage of the resident population whose wastewater is treated in individual, often private facilities such as septic tanks.
W5, 5	**Population not connected to wastewater treatment**	Percentage of the resident population whose wastewater is neither treated in treatment plants nor in independent treatment facilities.
	Freshwater	Freshwater is water that contains only minimal quantities of dissolved salts, especially sodium chloride, thus distinguishing it from sea water or brackish water.
	Brackish water	Water that is saltier than freshwater and less salty than sea water. Technically, brackish water contains between 500 and 30,000 milligrams of salt per litre, but most brackish water has a concentration of total dissolved salts is in the range of 1,000-10,000 milligrams per litre (mg/l).
	Sea water	Sea water is water from a sea or ocean. On average, sea water in the world's oceans has a salinity of 35,000 milligrams per litre.

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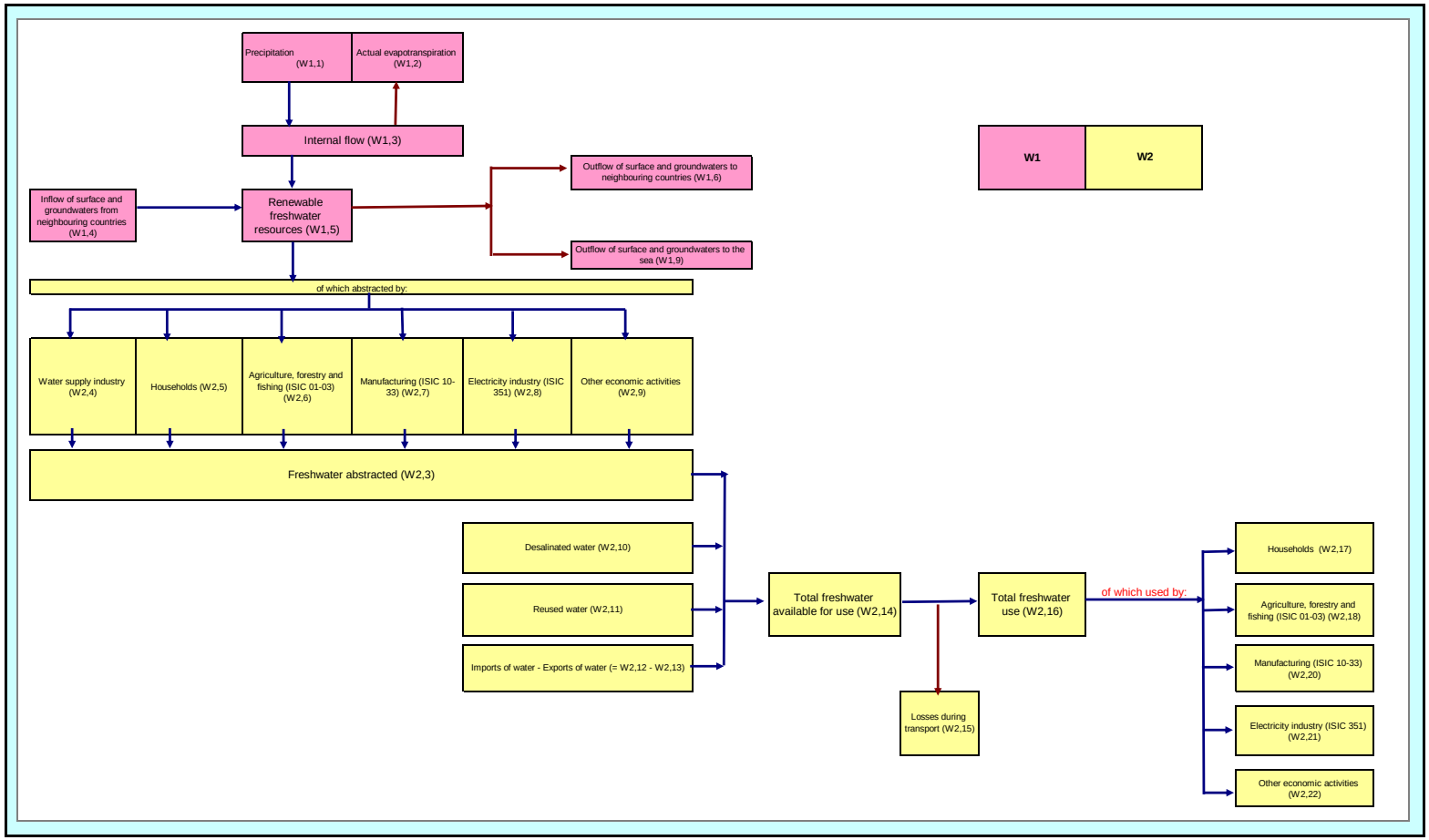
This diagram has been developed by UNSD to demonstrate the relationships between the variables in Tables W1 and W2. Respondents are encouraged to use this diagram for clarifications on the concepts underlying the data requested in this questionnaire.

Diagram: Summary of freshwater resources, freshwater abstraction, distribution and use.



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Country: **Contact institution:**

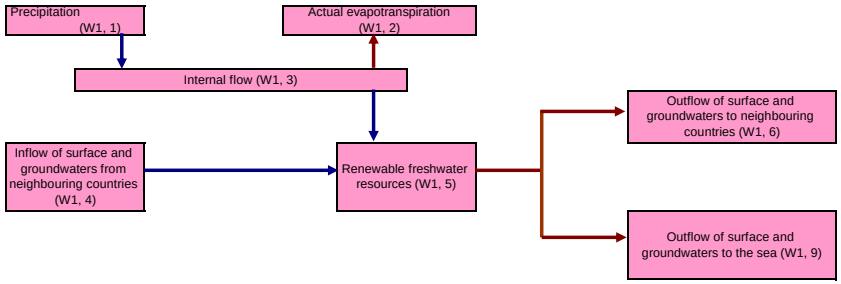
Table W1: Renewable Freshwater Resources

• **Unhide to view/edit previous years** • If the value turns red, please check if it is correct.

Line	Category	Unit	Long term annual average	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	Precipitation	mio m^3/y													
2	Actual evapotranspiration	mio m^3/y													
3	Internal flow (=1-2)	mio m^3/y													
4	Inflow of surface and groundwaters from neighbouring countries	mio m^3/y													
5	**Renewable freshwater resources (=3+4)**	mio m^3/y													
6	Outflow of surface and groundwaters to neighbouring countries	mio m^3/y													
7	*Of which:* Secured by treaties	mio m^3/y													
8	Not secured by treaties	mio m^3/y													
9	Outflow of surface and groundwaters to the sea	mio m^3/y													

Notes :

- Precipitation figures should be based on representative precipitation measurements from across the country and the country's climatic zones.
- Long term annual average is the arithmetic average over at least 30 consecutive years. Please provide average over the available period and indicate the length of the time period in the footnotes.
- **If the requested data are not available, please leave the cell blank. If the requested variable is not applicable (the phenomenon is not relevant) to the country or the value is less than half the unit of measurement, the cell should be filled with "0".**
- Please provide in the Footnotes Section below information on the source and data collection methodology for the values provided, such as estimation methods (if any), and the titles of the original sources (e.g., surveys or administrative records).
- **Data can also be viewed/edited for years 1990, 1995-2000. Select column G to column V, right-click, and select "Unhide".**



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Footnotes

Code	Footnote text

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Country: **Contact institution:**

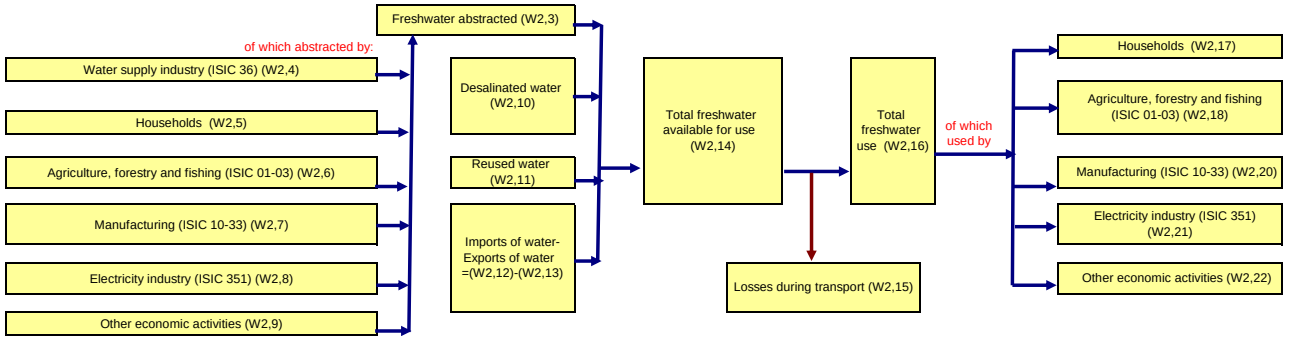
Table W2: Freshwater Abstraction and Use

• **Unhide to view/edit previous years** • If the value turns red, please check if it is correct.

Line	Category	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	Fresh surface water abstracted	mio m^3/y												
2	Fresh groundwater abstracted	mio m^3/y												
3	**Freshwater abstracted (=1+2)**	mio m^3/y												
	of which abstracted by:													
4	Water supply industry (ISIC 36)	mio m^3/y												
5	Households	mio m^3/y												
6	Agriculture, forestry and fishing (ISIC 01-03)	mio m^3/y												
7	Manufacturing (ISIC 10-33)	mio m^3/y												
8	Electricity industry (ISIC 351)	mio m^3/y												
9	Other economic activities	mio m^3/y												
10	Desalinated water	mio m^3/y												
11	Reused water	mio m^3/y												
12	Imports of water	mio m^3/y												
13	Exports of water	mio m^3/y												
14	**Total freshwater available for use (=3+10+11+12-13)**	mio m^3/y												
15	**Losses during transport**	mio m^3/y												
16	**Total freshwater use (=14-15)**	mio m^3/y												
	of which used by:													
17	Households	mio m^3/y												
18	Agriculture, forestry and fishing (ISIC 01-03)	mio m^3/y												
19	*of which for:* Irrigation in agriculture	mio m^3/y												
20	Manufacturing (ISIC 10-33)	mio m^3/y												
21	Electricity industry (ISIC 351)	mio m^3/y												
22	Other economic activities	mio m^3/y												

Notes :

- This table covers the volume of water abstracted from water bodies (rivers, lakes, groundwater etc.) by different abstractors; the volume of water available from other sources; and the volume of water used by different final users.
- Water for hydroelectricity generation purposes should be **excluded** from electricity industry.
- **If the requested data are not available, please leave the cell blank. If the requested variable is not applicable (the phenomenon is not relevant) to the country or the value is less than half the unit of measurement, the cell should be filled with "0".**
- Please provide in the Footnotes Section below information on the source and data collection methodology for the values provided, such as estimation methods (if any), and the titles of the original sources (e.g., surveys or administrative records).
- **Data can also be viewed/edited for years 1990, 1995-2000. Select column E to column T, right-click, and select "Unhide".**



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Footnotes

Code	Footnote text

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Country: **Contact institution:**

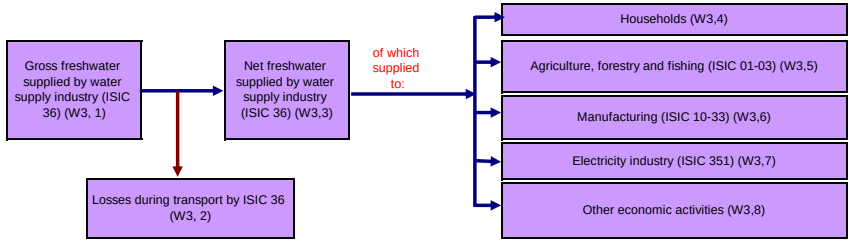
Table W3: Water Supply Industry (ISIC 36)

• **Unhide to view/edit previous years** • If the value turns red, please check if it is correct.

Line	Category	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	**Gross freshwater supplied by water supply industry (ISIC 36)**	mio m^3/y												
2	Losses during transport by ISIC 36	mio m^3/y												
3	**Net freshwater supplied by water supply industry (ISIC 36) (=1-2) (=4+5+6+7+8)**	mio m^3/y												
	of which supplied to:													
4	Households	mio m^3/y												
5	Agriculture, forestry and fishing (ISIC 01-03)	mio m^3/y												
6	Manufacturing (ISIC 10-33)	mio m^3/y												
7	Electricity industry (ISIC 351)	mio m^3/y												
8	Other economic activities	mio m^3/y												
	Population supplied by water supply industry (ISIC 36)													
9	**Total population supplied by water supply industry (ISIC 36)**	%												
10	Urban population supplied by water supply industry (ISIC 36)	%												
11	Rural population supplied by water supply industry (ISIC 36)	%												

Notes:

- This table covers water supplied by water supply industries, whether under public or under private control. It corresponds to the term public water supply.
- **If the requested data are not available, please leave the cell blank. If the requested variable is not applicable (the phenomenon is not relevant) to the country or the value is less than half the unit of measurement, the cell should be filled with "0".**
- Water for hydroelectricity generation purposes should be **excluded** from electricity industry.
- Please provide in the Footnotes Section below information on the source and data collection methodology for the values provided, such as estimation methods (if any), and the titles of the original sources (e.g., surveys or administrative records).
- **Data can also be viewed/edited for years 1990, 1995-2000. Select column E to column T, right-click, and select "Unhide".**



Section: WATER

Footnotes

Code	Footnote text

Section: WATER

Country: **Contact institution:**

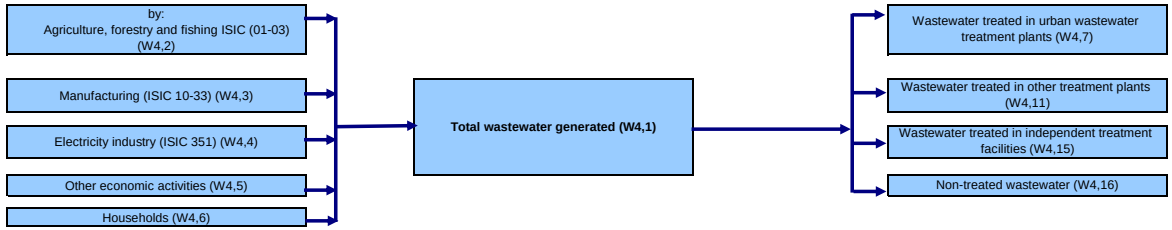
Table W4: Wastewater Generation and Treatment

• Unhide to view/edit previous years • If the value turns red, please check if it is correct.

Line	Category	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	**Total wastewater generated**	1000 m^3/d												
2	by: Agriculture, forestry and fishing ISIC (01-03)	1000 m^3/d												
3	Manufacturing (ISIC 10-33)	1000 m^3/d												
4	Electricity industry (ISIC 351)	1000 m^3/d												
5	Other economic activities	1000 m^3/d												
6	Households	1000 m^3/d												
7	Wastewater treated in urban wastewater treatment plants	1000 m^3/d												
8	*Of which:* Primary treatment	1000 m^3/d												
9	Secondary treatment	1000 m^3/d												
10	Tertiary treatment	1000 m^3/d												
11	Wastewater treated in other treatment plants	1000 m^3/d												
12	*Of which:* Primary treatment	1000 m^3/d												
13	Secondary treatment	1000 m^3/d												
14	Tertiary treatment	1000 m^3/d												
15	Wastewater treated in independent treatment facilities	1000 m^3/d												
16	Non-treated wastewater	1000 m^3/d												
17	Sewage sludge production (dry matter)	1000 t												

Notes:

- To avoid double counting, water subjected to more than one type of treatment should be reported under the highest level of treatment only.
- **If the requested data are not available, please leave the cell blank. If the requested variable is not applicable (the phenomenon is not relevant) to the country or the value is less than half the unit of measurement, the cell should be filled with "0".**
- Please provide in the Footnotes Section below information on the source and data collection methodology for the values provided, such as estimation methods (if any), and the titles of the original sources (e.g., surveys or administrative records).
- **Data can also be viewed/edited for years 1990, 1995-2000. Select column E to column T, right-click, and select "Unhide".**



Section: WATER

Footnotes

Code	Footnote text

Section: WATER

Country: **Contact institution:**

Table W5: Population Connected to Wastewater Treatment

• **Unhide to view/edit previous years** • If the value turns red, please check if it is correct.

Line	Category	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
1	**Population connected to wastewater collecting system**	%												
2	**Population connected to wastewater treatment**	%												
3	*of which* at least secondary treatment	%												
4	Population with independent wastewater treatment (e.g., septic tanks)	%												
5	Population not connected to wastewater treatment (100% - (2) - (4))	%												

Notes :

- **If the requested data are not available, please leave the cell blank. If the requested variable is not applicable (the phenomenon is not relevant) to the country or the value is less than half the unit of measurement, the cell should be filled with "0".**
- Please provide in the Footnotes Section below information on the source and data collection methodology for the values provided, such as estimation methods (if any), and the titles of the original sources (e.g., surveys or administrative records).
- **Data can also be viewed/edited for years 1990, 1995-2000. Select column E to column T, right-click, and select "Unhide".**

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Footnotes

Code	Footnote text

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Country: Contact institution:

Table W6: Supplementary Information Sheet

Please insert the national definition for freshwater below:
Please provide supplementary information below, such as: calculation method used for various inflows and outflows; the reference period covered in the long-term annual averages; the methodology used for estimating evapotranspiration, additional categories of national water use statistics, etc.
Please describe the difficulties encountered in filling in the questionnaires.