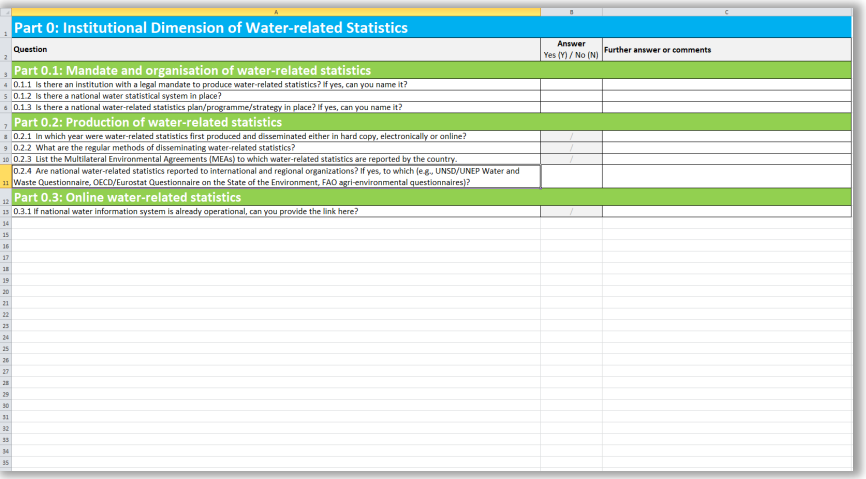
Communication on the survey and analysis of current data and infrastructure for water in Georgia

European Environment Agency
European Topic Centre on Inland, Coastal and Marine Waters

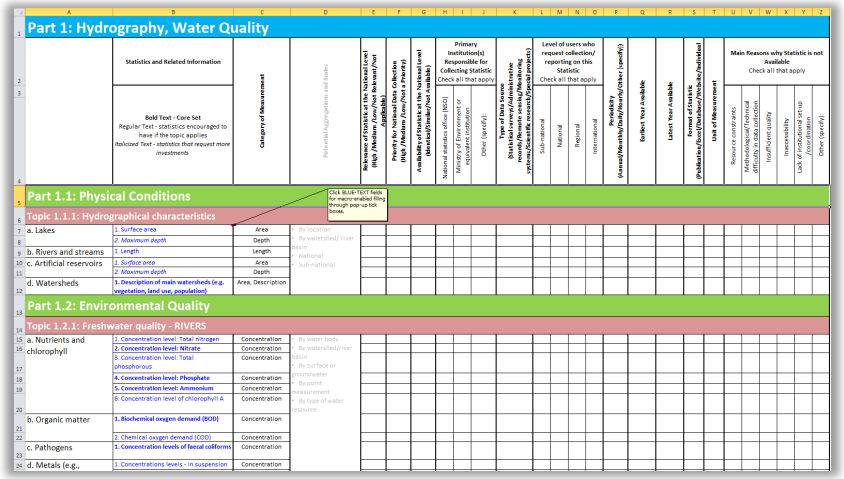
Questionnaire

Where does Georgia stand in water statistics in terms of:



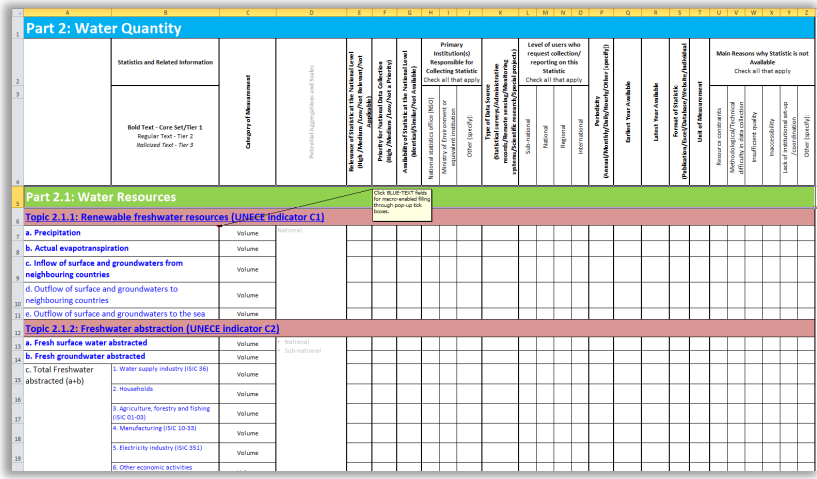
Part 0: Institutional Dimension of Water-related Statistics		
Question	Answer Yes (Y) / No (N)	Further answer or comments
Part 0.1: Mandate and organisation of water-related statistics		
0.1.1 Is there an institution with a legal mandate to produce water-related statistics? If yes, can you name it?		
0.1.2 Is there a national water statistical system in place?		
0.1.3 Is there a national water-related statistics plan/programme/strategy in place? If yes, can you name it?		
Part 0.2: Production of water-related statistics		
0.2.1 In which year were water-related statistics first produced and disseminated either in hard copy, electronically or online?	/	
0.2.2 What are the regular methods of disseminating water-related statistics?	/	
0.2.3 List the Multilateral Environmental Agreements (MEAs) to which water-related statistics are reported by the country.	/	
0.2.4 Are national water-related statistics reported to international and regional organizations? If yes, to which (e.g., UNSD/UNEP Water and Waste Questionnaire, OECD/Eurostat Questionnaire on the State of the Environment, FAO agri-environmental questionnaires)?		
Part 0.3: Online water-related statistics		
0.3.1 If national water information system is already operational, can you provide the link here?	/	

1 GENERAL



Part 1: Hydrography, Water Quality		
Statistics and Related Information	Category of Measurement	Potential Aggregations and Breaks
Bold Text - Core Set Regular Text - statistics encouraged to have if the topic applies Italicized Text - statistics that request more investments		
Part 1.1: Physical Conditions		
Topic 1.1.1: Hydrographical characteristics		
a. Lakes	1. Surface area	Area
	2. Maximum depth	Depth
b. Rivers and streams	1. Length	Length
c. Artificial reservoirs	1. Surface area	Area
	2. Maximum depth	Depth
d. Watersheds	1. Description of main watersheds (e.g. vegetation, land use, population)	Area, Description
Part 1.2: Environmental Quality		
Topic 1.2.1: Freshwater quality - RIVERS		
a. Nutrients and chlorophyll	1. Concentration level: Total nitrogen	Concentration
	2. Concentration level: Nitrate	Concentration
	3. Concentration level: Total phosphorous	Concentration
	4. Concentration level: Phosphate	Concentration
	5. Concentration level: Ammonium	Concentration
	6. Concentration level of chlorophyll A	Concentration
b. Organic matter	1. Biochemical oxygen demand (BOD)	Concentration
	2. Chemical oxygen demand (COD)	Concentration
c. Pathogens	1. Concentration levels of fecal coliforms	Concentration
d. Metals (e.g.,	1. Concentrations levels - in suspension	Concentration

2 QUALITY



Part 2: Water Quantity		
Statistics and Related Information	Category of Measurement	Potential Aggregations and Breaks
Bold Text - Core Set/Tier 1 Regular Text - Tier 2 Italicized Text - Tier 3		
Part 2.1: Water Resources		
Topic 2.1.1: Renewable freshwater resources (UNECE indicator C1)		
a. Precipitation	Volume	National
b. Actual evapotranspiration	Volume	
c. Inflow of surface and groundwaters from neighbouring countries	Volume	
d. Outflow of surface and groundwaters to neighbouring countries	Volume	
e. Outflow of surface and groundwaters to the sea	Volume	
Topic 2.1.2: Freshwater abstraction (UNECE indicator C2)		
a. Fresh surface water abstracted	Volume	National Sub-national
b. Fresh groundwater abstracted	Volume	
c. Total Freshwater abstracted (a+b)	Volume	
1. Water supply industry (ISIC 36)	Volume	
2. Households	Volume	
3. Agriculture, forestry and fishing (ISIC 01-03)	Volume	
4. Manufacturing (ISIC 10-33)	Volume	
5. Electricity industry (ISIC 351)	Volume	
6. Other economic activities	Volume	

3 QUANTITY

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Part 0: General overview

Part 0: Institutional Dimension of Water-related Statistics

Question	Answer Yes / No	Further answer or comments
Part 0.1: Mandate and organisation of water-related statistics		
0.1.1 Is there an institution with a legal mandate to produce water-related statistics? If yes, can you name it?	Y	Ministry of Environment and Natural Resources Protection of Georgia (MoNRP)
0.1.2 Is there a national water statistical system in place?	Y	
0.1.3 Is there a national water-related statistics plan/programme/strategy in place? If yes, can you name it?	N	
Part 0.2: Production of water-related statistics		
0.2.1 In which year were water-related statistics first produced and disseminated either in hard copy, electronically or online?	/	From 1975, hard copy
0.2.2 What are the regular methods of disseminating water-related statistics?	/	Moenrp collects water use statistic reports from water users once a year. Summirized data (Annual Report) is submitted to the GeoStat
0.2.3 List the Multilateral Environmental Agreements (MEAs) to which water-related statistics are reported by the country.	/	
0.2.4 Are national water-related statistics reported to international and regional organizations? If yes, to which (e.g., UNSD/UNEP Water and Waste Questionnaire, OECD/Eurostat Questionnaire on the State of the Environment, FAO agri-environmental questionnaires)?		

Part 1: Hydrography, water quality

Topic 1.1.1: Hydrographical characteristics

Lakes, rivers, reservoirs, watersheds (length, area)

Topic 1.2.1: Freshwater quality – rivers, lakes (indicators C10, C11)

Nutrients and chlorophyll, organic matter, pathogens, metals, organic contaminants, physical and chemical characteristics, plastic waste and other freshwater debris

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Part 2: Water quantity

Topic 2.1.1: Renewable freshwater resources (UNECE indicator C1)

Precipitation, actual evapotranspiration, Inflow + outflow

Topic 2.1.2: Freshwater abstraction (UNECE indicator C2)

Fresh surface/groundwater abstracted (industry, households, agriculture, manufacturing, electricity, other)

Topic 2.1.3: Total water use (UNECE indicator C3)

Freshwater available, Freshwater use (losses, households, agriculture, manufacturing, electricity)

Topic 2.1.4: Household water use per capita (UNECE indicator C4)

Households supplied by water supply industry, Households supplied by self supply

Topic 2.1.5: Water supply industry and population connected to water supply industry (UNECE indicator C5)

Water supplied by water supply industry, population connected to water supply industry

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Conclusions

1. monitoring data **does exist**
2. different sources or storages have **to be connected**
3. **focus** on indicators important for the setting of Georgia