

Environmental Statistics



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National Statistics Office of Georgia
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Responsible Unit



Responsible unit for producing official environmental statistics

Agricultural and Environmental Statistics Department

- Agricultural Statistics Division
- Environment Statistics Division

Number of staff in Environmental Statistics Division - 3 persons

Data Sources



Data Sources:

- *Surveys - Geostat*
- *Administrative Data - Ministry of Environmental Protection and Agriculture (MEPA) and respective agencies*

Geostat

- *Survey of Water Supply Enterprises (Data on water supply industry)*
- *Data from different sources - used for producing environmental indicators and Environmental Accounts*
 - *Agricultural Statistics (Agricultural and Environmental Statistics Department)*
 - *Energy Balance and Transport Statistics (Business Statistics Department)*
 - *Import/Export Data (External Trade and Foreign Investments Statistics Department)*
 - *Population (Population Census and Demography Department)*
 - *GDP (National Accounts Department)*

MEPA

- *Data on Water Resources and Ambient Air Protection*
(Ministry of Environmental Protection and Agriculture)
- *Data on Forest Resources and its Protection*
(National Forestry Agency, Forestry Agency of Adjara)
- *Data on Protected Areas*
(Agency of Protected Areas)
- *Data on Natural Hazards*
(National Environmental Agency)

Survey of Water Supply Enterprises



- *Regular survey since 2016*
- *Covers every active enterprise providing water supply service in the country*
- *Data collection method - CASI (online questionnaires)*
- *Data is collected on water supply, wastewater collection and wastewater treatment*

Requested by the Ministry of Environmental Protection and Agriculture

Fulfills international indicators regarding water supply industry:

✓ ***UNECE Environmental Indicators***

C-4. Household water use per capita

C-5: Water supply industry and population connected to water supply industry

C-7: Water losses

C-14: Population connected to wastewater treatment

✓ ***UNSD/UNEP Questionnaire on Environment Statistics***

W3: Water Supply Industry

W5: Population Connected to Wastewater Treatment

Survey of Water Supply Enterprises



List of indicators obtained from the Survey:

- ✓ *Gross volume of water supplied by water supply industry*
- ✓ *Losses during transportation*
- ✓ *Net volume of water supplied by water supply industry*
- ✓ *Population connected to water supply industry*
- ✓ *Population connected to a wastewater collecting system*
- ✓ *Population connected to wastewater treatment facilities*
- ✓ *Population connected to primary/mechanical treatment*
- ✓ *Population connected to secondary/biological treatment*
- ✓ *Population connected to tertiary/ advanced treatment*
- ✓ *Population connected to a wastewater collecting system without subsequent treatment*
- ✓ *Population connected to water supply industry without connection to a wastewater collecting system*

Environmental Statistics Disseminated by Geostat



Land resources:

- *Land cover*
- *Agricultural and non-agricultural land operated by agricultural holdings*

Forest resources and its protection:

- *Forest area*
- *Forest fire and restoration*
- *Illegal and legal timber logging*
- *Export and import of non-processed timber*

Protected areas:

- *Structure of protected areas*
- *Number of preserved animal and bird species*
- *Expenses on maintenance of protected areas and number of employees*

Water Resources:

- *Main rivers, lakes and reservoirs*
- *Main indicators for water supply industry and wastewater collection*
- *Main indicators for protection and use of water resources*

Ambient air protection:

- *Generated, Decontaminated and emitted hazardous substances from stationary sources*
- *Exhaust emissions from road transport*

Natural hazards

- *Number of hydro meteorological events and geological phenomena*

Environmental Indicators



UNECE Environmental Indicators

C-4. Household water use per capita

C-5. Water supply industry and population connected to water supply industry

C-7. Water losses

C-14. Population connected to wastewater treatment

F-2. Fertilizer consumption

F-4. Pesticide consumption

G-1. Final energy consumption

G-2. Total primary energy supply

G-3. Energy intensity

G-4. Renewable energy supply

H-1. Passenger transport demand

H-2. Freight transport demand

H-3. Composition of road motor vehicle fleet by fuel type

H-4. Age of road motor vehicle fleet

Methodology - definitions and terms:

- *UNECE environmental indicators*
- *UNSD/UNEP Questionnaire on Environment Statistics*

Environmental Economic Accounts



Geostat Started Producing Environmental Economic Accounts since 2018

Methodology: System of Environmental-Economic Accounting 2012 - Central Framework (SEEA 2012 CF) (UN)

✓ Material Flow Accounts - Established

<https://www.geostat.ge/en/modules/categories/566/environmental-economic-accounts>

❑ Environmental Taxes - In progress

❑ Air Emission Accounts - In progress

Data Dissemination Formats



- ✓ *Annual statistical publication “Natural Resources of Georgia and Environmental Protection”*
<https://www.geostat.ge/en/single-categories/109/environment>
- ✓ *Statistical Yearbook of Georgia:*
Section: Natural Resources and Environmental Protection
<https://www.geostat.ge/en/single-categories/95/statistical-yearbook>
- ✓ *Environment section at Geostat website:*
Charts and tables
<https://www.geostat.ge/en/modules/categories/73/environment-statistics>
- ✓ *Regional statistical portal of Geostat*
<https://www.geostat.ge/regions/#>
- ✓ *Regional statistics section*
<https://www.geostat.ge/en/modules/categories/93/regional-statistics>
- ✓ *Separate section for UNECE environmental indicators at Geostat website:*
<https://www.geostat.ge/en/modules/categories/565/environmental-indicators>
- ✓ *Android application*
<https://play.google.com/store/apps/details?id=com.geostatappge>

International Cooperation



➤ *Memorandum of cooperation between Geostat and Ministry of Environmental Protection and Agriculture of Georgia (should be updated)*

✓ *Data Exchange Calendar*

✓ *Working Groups*

➤ *Institutional Capacity Building Project with Statistics Sweden (SCB), Environmental Statistics Component (2015-2018), (Geostat, M&PA, SCB)*

4 prioritized subcomponents:

✓ *Water Statistics - Prepared methodology and questionnaire for the Survey of Water Supply Enterprises; Established Electronic reporting system in M&PA;*

✓ *Air statistics - Improved methodology in M&PA;*

✓ *Waste statistics - Improvement of Electronic reporting system in M&PA;*

✓ *Environmental Economic Accounts (CF) - 1 established account, 2 in progress.*

➤ *ENI SEIS Project with European Environmental Agency (EEA), (2016-2020), Funded by EU*

Implementation Shared Environmental Information System principles and practices in the Eastern Partnership countries

(Georgia, Armenia, Azerbaijan, Moldova, Belarus, Ukraine)

Implementation of Water Information System in Georgia (WISE)

Implementation of System of Environmental Economic Accounting (SEEA) in Georgia

biodiversity, air and environmental assessment



International Cooperation



➤ Cooperation with FAO

- *Strategic Plan for Agricultural, Environment and Rural Statistics in Georgia 2016-2020*

➤ Cooperation with UNECE/UNSD/SIAP/OECD

- *E-learning Courses and workshops*
- *Support on capacities building in environmental accounting*

- ✓ *E-learning Course on S&E&A Central Framework*
UN ECOSOC Statistical Institute for Asia and the Pacific (SIAP)

- ✓ *Online Training Program on S&E&A*
UNECE/UNSD

- ✓ *Regional Training Workshop on S&E&A*
UNECE/UNSD





Thank you for your attention!

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