

SURVEY ON URBAN WASTEWATER

LEGAL BASIS

The survey on urban wastewater is regulated by Law on Official Statistics ("Official Gazette of RS", No 104/2009).

METHODOLOGICAL BASIS

Objective of conducting the survey on urban wastewater is to provide the data on:

- Quantities of wastewater discharged in the recipient
- Quantities of discharged treated and untreated wastewater
- Devices for wastewater treatment
- Biological and chemical oxygen demand
- Sewerage system/ network.

Reporting units, statistical units

Data on wastewater and treated water are collected from the reporting units managing the sewerage systems. Activity of these reporting units is, according to the Classification of Activities (CA 2010), defined in the section of Water supply; sewerage, waste management and remediation activities (divisions 36 – Water collection, treatment and supply and 37 – Sewerage).

Reporting units, statistical units Survey coverage

The survey covers all business entities that perform their activity on the entire territory of the Republic of Serbia. Starting from 1999 the Statistical Office of the Republic of Serbia has not at disposal and may not provide available certain data relative to AP Kosovo and Metohija and therefore these data are not included in the coverage for the Republic of Serbia (total).

Method, time and sources for data collection

Data collection is done by the reporting method, meaning that the reporting unit uses its available documentation and records to fill in the questionnaires. The competent person enters the requested data in the first quarter of the current year for the previous year. If related records are non-existent for certain data, competent persons will make an evaluation. The reporting unit forwards the questionnaire to the relevant statistical authority on which territory its head office is located within the deadline set up in the annual plan.

Obligation to protect individual data

Results of the survey are published as aggregates, taking into account the obligation to protect individual data according to the Law on Official Statistics.

List definitions of main items – indicators

Public sewerage system (network) is a set of technical – sanitary facilities and measures that provide continuous and systematic collection, drainage, treatment and discharge of wastewaters and atmospheric waters away from settlements and economy into appropriate recipients.

Length of collecting network is the length of the sewerage network system of closed street canals, i.e. pipes for carrying wastewaters and atmospheric waters away from settlements, without household connections and network.

Wastewaters are the quantities of water which, after being used, are carried to the treatment plant or are discharged in underground or surface waters. Atmospheric water is included in the quantities of wastewater. The quantities of wastewater are measured by water meters or are estimated according to defined standards of production.

Wastewater treatment means removal of hazardous and harmful constituents and radio-nuclides from water thus making it harmless for use.

Main collector is the collecting wastewater canal that drains wastewater to the treatment plant or recipient.

One population equivalent (P.E.) means the organic biodegradable load having a five-day biochemical oxygen demand (BOD₅) of 60 g of oxygen per a day.

Effluent from wastewater treatment plant is water discharged after wastewater treatment.

Level of data representativeness (*territorial, CA*)

Data representativeness is provided for the territory of the Republic of Serbia, to the level of municipalities, as well as by river basins.

Harmonization with international recommendations, standards and practice

The methodology relative to this survey is harmonized with international recommendations and standards:

- Water Framework Directive, WFD - 2000/60/EC;
- JQ OECD/Eurostat – Inland water;
- Questionnaire REQ – Regional Environmental Data Collection - Inland water;
- JQ UNSD/UNEP – Environmental statistics

DESCRIPTION OF THE SURVEY MANAGEMENT

Bodies in charge of the survey management

Preparations and conduction of this survey involves:

- Statistical Office of the Republic of Serbia: Group for Environmental Statistics in Belgrade, Statistical Department of AP Vojvodina and regional offices of Statistical Office
- Secretariat for Administration – Statistical Sector, City of Belgrade

Obligation to provide data

The obligation to provide data is laid down in Article 26 and penalty provisions relative to the refusal of providing data or providing incomplete and false data in Article 52 of the Law on Official Statistics (“Official Gazette of RS”, No 104/2009).

Timetable of the main phases of the survey, including data publishing

Conducting the survey on urban wastewater encompasses the activities that are realized in accordance with the annual plan of official statistics, adopted by the Government of the Republic of Serbia.

- Distribution of the questionnaires to regional organizational units, Statistical Department of AP Vojvodina and Secretariat for Administration – Statistical Sector, City of Belgrade, (February)
- Delivery of inputted and controlled material, (March) and for Vojvodina (April)
- Logical and computer control, (April)
- Preliminary data, (May)
- Final data, (Decembar)

SURVEY TOOLS

Questionnaire and instructions for filling the questionnaire

For conducting the survey on urban wastewater, applied is the questionnaire “Survey on urban wastewater, (VOD-2k)”, with the enclosed instructions.

Electronic form of the questionnaire with the instruction is available on the website of the Statistical Office of the Republic of Serbia: www.stat.gov.rs.

List of nomenclatures and classifications used in the survey

- Code list of watercourses
- Classification of Activities (CA – 2010, “Official Gazette of RS”, 54/10)
- Regulation on Nomenclature of Statistical territorial Units (“Official Gazette of RS”, No 109/09 and 46/10)

All documents are available on SORS website: www.stat.gov.rs.

List of publications in which the survey results and the relevant methodology are published

- Statistical Yearbook
- Statistical Pocketbook
- Municipalities and regions
- Eco-bulletin
- Statistical Release ZS40 – Urban wastewater
- Website: www.stat.gov.rs

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