

# Quality of surface water and waste water

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2 Metadata update	
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## 3 Statistical presentation

3.1 Data description
The data provide users with information on surface water quality - specifically the biochemical oxygen demand in selected watercourses. In addition, information about waste water discharged into watercourses by source and generation of waste water by source.

3.2 Classification system
Nomenclature of Territorial Units for Statistics (NUTS) Statistical Classification of Economic Activities (SK NACE Rev. 2)

3.3 Sector coverage

3.4 Statistical concepts and definitions
Surface water quality indicator is a quantity that characterizes the composition or properties of water. Surface water means inland water, except groundwater water; transitional waters and coastal water. Biochemical oxygen demand (BOD) is a measure of the quantity of oxygen used by microorganisms in the aerobic oxidation of organic matter contained in water over specific time period (5 days). Waste water is water that is of no further immediate value to the purpose for which it was used or in the pursuit of which it was produced because of its quality, quantity or time of occurrence.

Sources of waste water are the following: public sewerage, agricultural production, manufacture activities, and other activities.

### 3.5 Statistical unit

Not relevant

### 3.6 Statistical population

Watercourse administrators

### 3.7 Reference area

Statistics on quality of surface water and waste water are available for the SR together.

### 3.8 Time coverage

2002-2019 for biochemical oxygen demand in selected watercourses and 2009-2019 for produced and discharged amount of waste water and data on produced and discharged waste water pollution in selected indicators.

### 3.9 Base period

Not applicable.

## 4 Unit of measure

Biochemical oxygen demand is in mg / l, wastewater discharged into watercourses is in thousands of m<sup>3</sup> per year and generation of waste water is in tonnes per year.

## 5 Reference period

The reference period is the calendar year.

## 6 Institutional mandate

### 6.1 Legal acts and other agreements

Act no. 201/2009 on the State Hydrological Service and the State Meteorological Service, as amended. 39/2013 Coll. and Act No. 364/2004 Coll. on Waters and on Amendment to Act of the Slovak National Council no. 372/1990 Coll. on offenses as amended (Water Act).

### 6.2 Data sharing

Statistical information on the quality of surface water and waste water is a source for fulfilling the obligations of the Slovak Republic resulting from the requirements of the European Statistical System, the requirements of international institutions and to meet the needs of the National Information System. The outputs are provided to international, European and national organizations on a regular annual basis.

## **7 Confidentiality**

### **7.1 Confidentiality - policy**

These data are not covered by the statistical confidentiality policy.

### **7.2 Confidentiality - data treatment**

The handling of SHMI data is stipulated in Act No. 201/2009 Z.z. on the State Hydrological Service and the State Meteorological Service, as amended and pursuant to Act no. 205/2004 Coll. on the collection, storage and dissemination of environmental information, information on the quality of surface water and waste water is publicly available.

## **8 Release policy**

### **8.1 Release calendar**

Not applicable.

### **8.2 Release calendar access**

Not applicable.

### **8.3 User access**

The statistical information dissemination policy is formulated in accordance with the State Statistics Act, the Statistical Office Development Strategy, the Eurostat Information Dissemination Strategy and the European Statistics Code of Practice.

The principles of publishing and providing statistical information are available on the SO SR website at:

<https://slovak.statistics.sk/wps/portal/ext/services/infoservis/principles>

## **9 Frequency of dissemination**

Yearly.

## **10 Accessibility and clarity**

### **10.1 News release**

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## 10.2 Publications

Data on quality of surface water and waste water are published in the publication Environment in the Slovak Republic, which is available on the website of the SO SR

<https://slovak.statistics.sk/wps/portal/ext/themes/environment/environment/publications>

The Environment in the Slovak Republic is published according to the Catalogue of publications. The Catalogue of publications contains basic information about publications, release dates and language versions.

Statistical Yearbook of the Slovak Republic - contains data also for the area of quality of surface water and waste water.

All publications are available at the Statistical Office of the Slovak Republic. The Catalogue of publications is available on the website of the SO SR at:

<https://slovak.statistics.sk/wps/portal/ext/products/publikacie/catalogue>

## 10.3 On-line database

SO SR databases: DATAcube and STATdat, access at:

<https://slovak.statistics.sk/wps/portal/ext/Databases>

## 10.4 Micro-data access

Not applicable.

## 10.5 Other

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## 10.6 Documentation on methodology

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## 10.7 Quality documentation

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# 11 Quality management

## 11.1 Quality assurance

The SO SR has a quality management system in place. The Quality Manual includes a description of the quality management system and the fulfillment of ISO 9001 requirements. The application of the Manual ensures that all activities that affect the quality of the products being produced are planned, managed, reviewed, evaluated and meet the requirements accepted in the order. The Quality Guide is available at:

[https://slovak.statistics.sk/wps/wcm/connect/9ca43aa4-bfaf-4101-9dae-5263aa834df7/Prirucka\\_kvality.pdf?MOD=AJPERES&CVID=mu8R9IM&CVID=mu8R9IM](https://slovak.statistics.sk/wps/wcm/connect/9ca43aa4-bfaf-4101-9dae-5263aa834df7/Prirucka_kvality.pdf?MOD=AJPERES&CVID=mu8R9IM&CVID=mu8R9IM)

The basis of the whole quality management system is the Code of Practice for European Statistics: <https://slovak.statistics.sk/wps/portal/ext/aboutus/key.documents/code.of.practise>

## 11.2 Quality assessment

The quality of quality of surface water and waste water statistics is very good.

## 12 Relevance

### 12.1 User needs

The main users of data on quality of surface water and waste water are: central government authorities, research organizations, academia, researchers and students, professional associations, etc.

### 12.2 User satisfaction

Since 2009, the Statistical Office of the SR has been conducting customer satisfaction surveys with its products and services at two-year intervals. The aim of the surveys is to get information about the interest and opinions of users on providing and quality of statistical products and services. The information obtained is a valuable source for the further activities of the SO SR. The result of the satisfaction survey in 2017 is available on the website of the SO SR at: <https://slovak.statistics.sk/wps/portal/ext/aboutus/marketing/survey.of.satisfaction>  
It was not specifically measured for quality of surface water and waste water statistics.

### 12.3 Completeness

100%. Data is available for all indicators required. Time series of data for individual indicators are available in the public database of the SO SR.

## 13 Accuracy and reliability

### 13.1 Overall accuracy

Not applicable.

### 13.2 Sampling error

Not applicable.

### 13.3 Non-sampling error

Not applicable.

## 14 Timeliness and punctuality

## 14.1 Timeliness

Publication of data in the public database of the SO SR is governed by an internal schedule. Waste water data are published by the 10th month after the reference year and biochemical oxygen demand data in selected watercourses by 12 months after the reference year.

## 14.2 Punctuality

Publication deadlines are met.

## 15 Coherence and comparability

### 15.1 Comparability - geographical

Not relevant. Statistics of quality of surface water and waste water are compiled for the whole territory of the Slovak Republic.

### 15.2 Comparability - over time

The published data are fully comparable.

### 15.3 Coherence - cross domain

Not relevant.

### 15.4 Coherence - internal

There are no deviations, statistical outputs are internally consistent.

## 16 Cost and burden

The SO of the SR regularly monitors the workload of reporting units. As part of the optimization of statistical surveys, it takes measures aimed at reducing their burden. The cost and workload at the level of European statistical products and its monitoring is the responsibility of the Directorate Group for Resources within Eurostat.

## 17 Data revision

### 17.1 Data revision - policy

The revision policy governs the basic rules and general procedures by which the pre-drafted data is later revised as well as applied in revisions for other reasons. The revision policy and calendar is available on the SO SR website at:

<https://slovak.statistics.sk/wps/portal/ext/products/revisions>

## 17.2 Data revision - practice

Not applicable.

## 18 Statistical processing

### 18.1 Source data

Qualitative indicators of surface waters in the respective year are monitored in accordance with the Water Act and in accordance with the approved Framework Program for Monitoring of Waters of Slovakia for the relevant period and its annual amendments. Waste water data are reported in accordance with the Water Act.

### 18.2 Frequency of data collection

Yearly.

### 18.3 Data collection

The Statistical Office of the Slovak Republic takes over data from the administrative sources of the SHMI.

### 18.4 Data validation

In accordance with SHMI's internal methodology.

### 18.5 Data compilation

### 18.6 Adjustment

Data are not being adjusted.

## 19 Comment