



Agency for Strategic planning  
and reforms of the  
Republic of Kazakhstan  
Bureau of National statistics

# Quality report

*On the work of water supply and sewerage  
systems in the Republic of Kazakhstan*

## Content

S.1 Contact details

S.2 Introduction - Relevance

S.3 Updating metadata

S.4 Presentation of statistical information

S.5 Unit of measurement

S.6 Reporting period

S.7 Legal basis

S.8 Confidentiality and data protection

S.9 Publication Policy

S.10 Frequency of propagation

S.11 Dissemination format, accessibility and clarity

S.12 Availability of Documentation

S.13 Quality management

S.14 Relevance

S.15 Accuracy and reliability (to be completed taking into account the type of observation)

S.16 Timeliness and punctuality

S.17 Comparability

S.18 Consistency

S.19 Load

S.20 Revision of data

S.21 Processing of statistical data

S.22 Notes

## S.1 Contact details

### S.1.1 Organization

Bureau of National Statistics of the Agency for Strategic  
Planning and Reforms of the Republic of Kazakhstan

### S.1.2 Structural subdivision

Department of Production and Environment Statistics

### S.1.3 Name of contact person

Dinara Bakitovna Sadvakasova

#### S.1.3.1 Name of the head of the responsible structural unit

Shauenova Asel Saukymbekkyzy

### S.1.5 Postal address of the contact person

010000, Nur-Sultan, Mangilik El avenue, 8, House of Ministries, 4  
entrance

### S.1.6 E-mail address of the contact person

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### S.1.7 Contact person's phone number

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## S. 2 Introduction-Relevance

The main task of statistics on the operation of water supply and sewerage system facilities is to collect, generalize and publish information on the number of water supply and sewerage system facilities, on the length, deterioration, production capacity of water supply and sewerage system facilities, on the operation of sewerage treatment facilities, on the consumption of water released by the water supply system's enterprises, water supply, water leaks, volumes of discharged treated wastewater.

## S.3 Updating metadata

### S.3.1 Latest confirmation of updated metadata

05/15/2020

### S.3.2 Last Placement of Metadata

05/15/2020

### S.3.3 Latest metadata update

05/15/2020

## S.4 Presentation of statistical information

### S.4.1 Description of data

- 1) Number of waterworks
- 2) The number of accidents in the water supply system
- 3) Water is supplied to the network
- 4) Issued water to consumers
- 5) Leakage and unaccounted water consumption
- 6) Waste water missed
- 7) Wastewater passed through the treatment plant
- 8) Discharged treated wastewater into natural water bodies  
(river, lake, sea)
- 9) Length of water supply networks (single length)
- 10) The length of the drainage system networks (single  
length)

#### S.4.2 Classification system

- 1) OKED - General classifier of economic activities;
- 2) KATO - Classifier of administrative-territorial objects.
- 3) KSP - a reference book of statistical indicators (not posted on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms);
- 4) MKEI - Interstate classifier of units of measurement and counting and a directory of units of measurement not included in table 1 MKEI. Continued work to ensure the quality of statistical data.

(Posted on the Internet resource of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms [www.stat.gov.kz](http://www.stat.gov.kz) in the "Classifiers" section).

#### S.4.3 Sectoral coverage

Enterprises and individual entrepreneurs with water supply and sewerage systems

#### S.4.4 Statistical concepts and definitions

1. The type of observation is continuous.
2. The circle of respondents: legal entities and (or) their structural and separate divisions, individual entrepreneurs with the main or secondary types of activity "Collection, treatment and distribution of water", "Collection and treatment of waste water" according to the codes of the General Classifier of Economic Activities - 36 , 37.
3. Collection tools - a statistical form of national statistical observation "Report on the work of enterprises operating water supply and (or) sewerage systems" (code - 151112096, index 1-VK, frequency - annual) and instructions for filling out the statistical form of national statistical observation " Report on the work of enterprises operating water supply and (or) sewerage systems "(code - 151112096, index 1-VK, annual frequency), approved by order No. 24 of the Chairman of the Constitutional Court of the Ministry of National Economy of the Republic of Kazakhstan dated February 21, 2020.

4. The deadline for submission is February 22 (inclusive) after the reporting period.

5. Definitions:

1) accident - damage or failure of water supply and water disposal systems or individual structures, equipment, devices, resulting in the termination or significant reduction in the volume of water supply and water disposal services, drinking water quality and damage to public health, the environment and property of individuals and legal entities. persons;

2) in-yard network - a network of pipelines laid on the territory of households for their connection to the street water supply network, as well as sewer pipelines designed to connect households to the street sewage network;

3) main collector - a pipeline (or canal) that collects wastewater from its sewerage territory and discharges it to a treatment plant or to a reservoir;

4) separate sewer network - a network that does not have its own outlet, but transfers waste liquid to the sewer facilities of other enterprises;

5) a separate water supply network - a water supply system that does not have water intake and treatment facilities, only a distribution street network, into which water comes from a water supply system of another organization, an enterprise.

#### S.4.5 Statistical object

The objects of statistical observation are enterprises that have structures for water supply and sewerage systems, supplying piped water to consumers, and treating waste water at treatment facilities. At the end of 2019, the number of enterprises that submitted a report on the operation of water supply and sewerage systems was 1,654.

#### S.4.6 General population (principle of selection of survey units)

The source for determining the general population is the Statistical Business Register, which includes information on legal entities registered in the Republic of Kazakhstan and their separate and structural divisions.

The main criterion of the general population is the enterprises listed in the database of the Statistical Business Register with the main or secondary activities “Collection, treatment and distribution of water”, “Collection and treatment of waste water” according to the codes of the General Classifier of Economic Activities - 36, 37.

#### S.4.7 Territorial coverage

Republic of Kazakhstan (all regions, cities of republican significance, the capital).

#### S.4.8 Time coverage

Statistical indicators in the form 1-VK are formed and published from 1999 to the present.

#### S.4.9 Base period

absent

#### S.5 Unit of measurement

Cubic meter

#### S.6 Reporting period

year

#### S.7 Legal basis

##### S.7.1 Legal framework

1. Law of the Republic of Kazakhstan dated March 19, 2010 No. 257-IV "On state statistics".
2. Rules for the provision of primary statistical data by respondents, approved by order of the Chairman of the Agency of the Republic of Kazakhstan on statistics dated July 9, 2010 No. 173.
3. Rules for the submission of administrative data by administrative sources on a gratuitous basis, approved by order of the acting Chairman of the Agency of the Republic of Kazakhstan on statistics dated July 14, 2010 No. 183.
4. The plan of statistical work, approved in accordance with the established legislative procedure of the Republic of Kazakhstan by order of the Minister of National Economy of the Republic of Kazakhstan.
5. Schedule for the dissemination of official statistical information, approved by the order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan.
6. Rules for the provision of statistical information on a gratuitous basis that is not provided for by the schedule for the dissemination of official statistical information and developed on the basis of primary statistical data submitted by respondents in accordance with the schedule for submitting primary statistical data by respondents, approved by order of the Chairman of the Agency of the Republic of Kazakhstan on Statistics of May 20, 2010 No. 113.

7. Rules for the provision and use for scientific purposes of databases in a de-identified form, approved by the order of the Chairman of the Agency of the Republic of Kazakhstan on statistics dated July 2, 2010 No. 168. Registered with the Ministry of Justice of the Republic of Kazakhstan on August 13, 2010 No. 6388.

8. Environmental Code of the Republic of Kazakhstan dated January 9, 2007.

9. Water Code of the Republic of Kazakhstan dated July 9, 2003 No. 481.

## S.8 Privacy and data protection

### S.8.1 Privacy Policy

1. Article 8 of the Law of the Republic of Kazakhstan dated March 19, 2010 "On State Statistics", in accordance with which a guarantee of confidentiality and protection of the submitted data by respondents is ensured.

2. Article 28 of the Entrepreneurial Code of the Republic of Kazakhstan dated October 29, 2015 ensures the protection of information constituting a commercial secret.

3. The information security policy (hereinafter referred to as the Policy) approved by the Order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan dated October 31, 2016 No. 252 defines the goals, objectives, guidelines and practices in the field of information security of the Bureau of National Statistics. The main goal of the Policy is to ensure the availability of official statistical information, the confidentiality of information stored and processed on the computer facilities of the Bureau of National Statistics under the conditions of its integrity and authenticity.

### S.8.2 Privacy-handling of data

Rules for the provision and use for scientific purposes of databases in a de-identified form, approved by the order of the Chairman of the Agency of the Republic of Kazakhstan on statistics dated July 2, 2010 No. 168. Registered with the Ministry of Justice of the Republic of Kazakhstan on August 13, 2010 No. 6388.

## S.9 Publication Policy

### S.9.1 Publication Calendar

Clause 1, Clause 2 of Article 26 of the Law of the Republic of Kazakhstan "On State Statistics" dated March 19, 2010 No. 257. The schedule for the dissemination of official statistical information is posted on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms [www.stat.gov.kz](http://www.stat.gov.kz) in the "Home" section // "Basic documents".

### S.9.2 Access to the Graph

Clause 1, Clause 2 of Article 26 of the Law of the Republic of Kazakhstan "On State Statistics" dated March 19, 2010 No. 257. The schedule for the dissemination of official statistical information is posted on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms [www.stat.gov.kz](http://www.stat.gov.kz) in the "Home" section // "Basic documents".

#### S.9.3 User access

Official statistical information is subject to dissemination in accordance with the schedule for the dissemination of official statistical information in the volumes stipulated by the statistical work plan. State statistics bodies provide users with equal rights to simultaneous access to high-quality official statistical information and statistical methodology by posting them on the Internet resources of state statistics bodies (Website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms [www.stat.gov.kz](http://www.stat.gov.kz)).

#### S.10 Propagation frequency

once a year

#### S.11 Dissemination format, accessibility and clarity

##### S.11.1 News publications

Press releases are not provided.

##### S.11.2 Publications

- 1) 1) The statistical bulletin "On the operation of water supply and sewerage systems in the Republic of Kazakhstan" is published annually on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan [www.stat.gov.kz](http://www.stat.gov.kz). Placed in the section Official statistics / By industry / Environmental statistics / Bulletins;
- 2) The statistical collection "Environmental Protection and Sustainable Development of Kazakhstan" is published annually on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms [www.stat.gov.kz](http://www.stat.gov.kz). Placed in the section Official statistics / By industry / Environmental statistics / Publications;
- 3) Environmental indicators for monitoring and assessing the environment of the UNECE (United Nations Economic Commission for Europe), placed in the section Official statistics / Environmental indicators for monitoring and assessing the environment;
- 4) OECD (Organization for Economic Co-operation and Development) Green Growth Indicators Placed in the section Official Statistics / By Sector / Environment Statistics / Green Economy Indicators.

##### S.11.3 Databases in on-line mode



Information-analytical system "Taldau" / Sections of statistics /  
Statistics of industrial production and the environment / Statistics  
of the environment / Water supply and sewerage

#### S.11.3.1 AC1. Data tables-consultation

Not implemented

#### S.11.4 Microdata access

The rules for the provision and use for scientific purposes of databases in a de-identified form, approved by order of the Chairman of the Agency of the Republic of Kazakhstan on statistics dated July 2, 2010 No. 168. Registered with the Ministry of Justice of the Republic of Kazakhstan on August 13, 2010 No. 6388.

#### S.11.5 Other

##### S.11.5.1 AC2. Metadata consultation

Not implemented

#### S.12 Availability of Documentation

##### S.12.1 Methodology documentation

Methodology for the formation of indicators of environmental statistics, approved by order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan dated October 20, 2017 No. 147. Registered with the Ministry of Justice of the Republic of Kazakhstan on January 26, 2016 No. 12931. Available on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Development [www.stat.gov.kz](http://www.stat.gov.kz) in the Methodology / Industry and Environment Statistics section and on the website [www.adilet.kz](http://www.adilet.kz).

##### S.12.2 Quality documentation

1. Policy in the field of quality, approved by order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan dated April 23, 2015 No. 67.
2. Objectives in the field of quality of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan, Objectives in the field of quality of the relevant structural unit.
3. Documented information of the quality management system: Quality manual; Documented procedures; Instructions; Process maps.
4. Standard methodology for describing the process of production of statistical information by state bodies, approved by order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan dated March 30, 2015 No. 53;

5. Methodology for assessing the quality of official statistical information, approved by order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan dated May 23, 2018 No. 63

### S.13 Quality management

#### S.13.1 Quality assurance

The quality and reliability of data on environmental statistics is supported by generally accepted procedures:

- compliance with the basic principles of primary accounting;
- use of standard statistical classifications of goods, products, services;
- at the stages of collection and processing of primary data, all control schemes (format-logical, arithmetic) have been developed and implemented;
- to confirm the reliability of primary data, the possibility of obtaining additional information from respondents is legally enshrined.

#### S.13.2 Quality control

The methodology for the formation of environmental statistics indicators (hereinafter referred to as the Methodology) was developed using the recommendations of the United Nations Economic Commission for Europe "Environmental indicators and assessment reports based on them. Eastern Europe, Caucasus and Central Asia ", published in 2007, and is a general methodology for the formation of basic environmental indicators in the Republic of Kazakhstan, comparable at the international level and necessary for submission to international environmental organizations and publication in national reports.

### S.14 Relevance

#### S.14.1 Needs

The main users of information are the Government of the Republic of Kazakhstan, state bodies (Ministry of National Economy of the Republic of Kazakhstan, Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan and others), research institutes, international organizations (Organization for Economic Cooperation and Development, Statistical Office of the European Communities, Economic Commission for Europe) United Nations, World Bank and others) and individuals.

#### S.14.2 User satisfaction

The Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan annually conducts a survey of users of official statistical information according to the questionnaire Q-002 "Survey of users".

#### S.14.3 Completeness / R1. Data completeness-share

Enterprises covered by the water supply and sewerage system belong to the housing and communal sector, and therefore are practically monopolists in certain regions and are under the control of local executive bodies. At the same time, on an annual basis, specialists update the Statistical Business Register for the relevance of the main or secondary types of economic activities 36 and 37 "Collection, treatment and distribution of water", "Collection and treatment of waste water". The report on the construction of the water supply and sewerage system covers all enterprises listed in the database of the Statistical Business Register with primary or secondary economic activities 36 and 37 "Collection, treatment and distribution of water", "Collection and treatment of waste water"

#### S.15 Accuracy and reliability (to be filled in according to the type of observation)

##### S.15.1 Overall accuracy

The accuracy of the initial data is ensured by adhering to methodological recommendations and ensuring completeness of coverage. The number of respondents in the catalog is 2140, of which 1654 reported, 666 reports with data.

##### S.15.2 Sample errors - indicators / A1.

The survey is carried out by a continuous method.

##### S.15.3 Non-sampling error

All format-logical controls were corrected during the collection of primary statistical data.

##### S.15.3.1 Coverage error

###### S.15.3.1.1 A2. Overcoverage-share

Not applicable.

###### S.15.3.1.2 A3. Common units-ratio

Not applicable.

##### S.15.3.3 No response errors

###### S.15.3.3.1 A4. Absence unit-share

Not applicable.

###### S.15.3.3.2 A5. No response-share clause

Not applicable.

#### S.16 Timeliness and punctuality

##### S.16.1 Timeliness

###### S.16.1.1 TP1 Waiting period - first results

The first results in the bulletin are published 86 days after the reporting period. The release dates were approved and published in the Statistical Work Plan and the Schedule for the dissemination of the official statistical information.

The time spent on processing the first results, from the term of submission by the territorial statistics bodies to the first publication, is on average 46 days.

#### S.16.1.2 TP2.Waiting Period - Latest Results

The first results are final.

#### S.16.2 Punctuality

##### S.16.2.1 Punctuality / TP3

The data are published and disseminated in accordance with the Schedule for the dissemination of official statistical information, approved annually by order of the Head of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan. The terms of publications are set in the Plan of statistical works, approved annually by order of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan and registered with the Ministry of Justice of the Republic of Kazakhstan. Actual and planned dates coincide, there was no disruption to the publication dates for 2019. Release of the publication is postponed to the next business day if the publication falls on weekends or holidays.

#### S.17 Comparability

##### S.17.1 Geographic comparability

Within the territories of the Republic of Kazakhstan.

##### S.17.1.1 Asymmetry in mirror flow statistics-coefficient / CC1

Not applicable.

##### S.17.2 Length of comparable time series / CC2

The dynamic range for the main indicators has been continuous since 2000.

#### S.18 Consistency

##### S.18.1 Consistency, external, cross

The methodology for the formation of indicators of environmental statistics refers to the statistical methodology formed in accordance with international standards and approved in accordance with the Law of the Republic of Kazakhstan "On State Statistics" dated March 19, 2010 of the year.

Developed using the recommendations of the United Nations Economic Commission for Europe "Environmental Indicators and Assessment Reports. Eastern Europe, Caucasus and Central Asia ", published in 2007, and is a general methodology for the formation of basic environmental indicators in the Republic of Kazakhstan, comparable at the international level and necessary for submission to international environmental organizations and publication in national reports. The methodology is available on the website of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan [www.stat.qov.kz](http://www.stat.qov.kz) in the section Methodology / Industry and Environment Statistics.

#### S.18.2 Internal consistency

The generated indicators are used by the Committee for Construction and Housing and Communal Services of the Ministry of Industry and Infrastructure Development of the Republic of Kazakhstan, as well as other departments. Used to calculate SDG indicator 6.3.1 "Share of treated wastewater in total wastewater flow" used by the Sustainable Development Goals Office of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan. It is also used among indicators of the green economy.

#### S.19 Load

Data collection is carried out electronically or on paper at the request of the respondent. Online data collection is carried out by means of a digital signature. When entering data, respondents are provided with automated arithmetic and logical controls, excluding the possibility of typical input errors.

At the end of 2019, the number of respondents was 2,140, of which 60% reported online.

Data processing processes are automated using software systems, which provide for the control of input and output information. The time spent on filling out the statistical form is 1.5 hours on average.

There is no duplication with other nationwide surveys. Administrative or other data sources are not used in the formation of the statistical bulletin.

#### S.20 Data revision

##### S.20.2 Revision of data / A6

absent

#### S.21 Processing of statistical data

##### S.21.1 Input data

The statistical form is represented by water supply, water supply and sewerage, sewerage enterprises, which are either on an independent balance sheet or included in diversified enterprises, as well as organizations on the balance sheet that supply water to the population or for household and industrial needs.

If in a settlement two or more water pipelines are combined into one enterprise, then one statistical form is provided for the settlement.

When a water supply company is supplied with water to several settlements, a statistical form is filled in for each settlement and submitted to the statistics body at its location.

When transferring water pipelines or separate water supply networks from other enterprises, the statistical form is filled out separately for the time actually worked before (or after) the transfer.

If, in a settlement, two or more separate economic-fecal or general-purpose drainage systems are combined into one economy, then one statistical form is compiled for the settlement.

The wastewater disposal system receives effluents from separate networks of the wastewater disposal system of other settlements, the network of which is on the balance sheet of the reporting organization, it compiles separate statistical forms for the wastewater disposal system of each settlement and all statistical forms are submitted to the statistics authority at their location.

#### S.21.2 Inspection frequency

year

#### S.21.3 Method (method) of collecting primary statistical data

The submission of the statistical form 1-VK "Report on the work of enterprises operating water supply and (or) sewerage systems" is carried out on paper on purpose to the "One window" of territorial statistical bodies, through postal communication services or in electronic form. Filling out the statistical form in electronic form is carried out through the information system "Online data collection" posted on the Internet resource of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan (<https://cabinet.stat.gov.kz/>)

#### S.21.4 Reliability of primary statistical data

When entering primary statistical data, formatting and logical controls are laid. In accordance with Article 17 of the Law of the Republic of Kazakhstan "On State Statistics", the respondent is obliged to provide reliable primary statistical data when conducting statistical observations in accordance with the schedule for submitting primary statistical data by respondents and with statistical methodology.

S.21.5 Imputation - share / A7

Not implemented.

S.21.6 Correction

Not implemented.

S.21.6.1 Seasonal adjustment

Not implemented.

S.22 Notes

Continue work to ensure the quality of statistical data.