



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

# Quality report

*On the state of protection of atmospheric air in  
the Republic of Kazakhstan for 2018*

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## 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

Dina.sadvakasova@economy.gov.kz

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

74- 93-11

## S. 2 Introduction-Relevance

The main task of statistics on the state and pollution of atmospheric air is to collect, generalize and publish information on the anthropogenic impact of human economic activity on the atmospheric air, the formation, capture (neutralization), utilization and emission of harmful substances polluting the atmosphere by stationary sources.

To form an indicator of emissions of pollutants into the atmosphere from stationary sources, the data of the annual national statistical observation on the protection of atmospheric air are used.

The basis for the formation of the indicator is the data of primary accounting organized at the enterprise, logs for recording stationary sources of pollution and their characteristics, logs for recording the operation of gas cleaning and dust collecting installations, as well as a passport of the installation.

## S.3 Updating metadata

### S.3.1 Latest confirmation of updated metadata

28.06.2019

### S.3.2 Last Placement of Metadata

28.06.2019

### S.3.3 Latest metadata update

28.06.2019

## S.4 Presentation of statistical information

#### S.4.1 Description of data

- 1) The volume of emissions of pollutants into the atmosphere;
- 2) The volume of pollutants escaping from all stationary sources of pollution;
- 3) The volume of pollutants emitted without treatment;
- 4) The volume of captured and neutralized pollutants;
- 5) The volume of disposed pollutants;
- 6) The number of stationary sources of emissions by enterprises with established norms of maximum permissible emissions of pollutants;
- 7) The number of stationary sources of emissions by enterprises that have increased emissions of pollutants; the number of stationary sources of emissions by enterprises that have increased emissions of pollutants, with established standards for maximum permissible emissions;
- 8) The number of stationary sources of emissions by enterprises that have increased emissions of pollutants, with established standards for maximum permissible emissions;
- 9) The number of organized stationary sources of pollutant emissions;
- 10) Number of stationary emission sources equipped with treatment facilities

#### S. 4.2 Classification system

- 1) OKED - General classifier of economic activities;
- 2) KATO - Classifier of administrative-territorial objects.
- 3) KSP - a directory of statistical indicators (not posted on the website of the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan;
- 4) MKEI - Interstate classifier of units of measurement and counting and a directory of units of measurement not included in table 1 MKEI.  
(Posted on the Internet resource 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) in the "Classifiers" section).

#### S.4.3 Sectoral coverage

Enterprises and (or) individual entrepreneurs with stationary sources of air pollution, as well as emitting pollutants into the air, regardless of the type of economic activity.

#### S.4.4 Statistical concepts and definitions

- 1.1. The type of observation is continuous.

2. The circle of respondents: legal entities and (or) their structural and separate divisions, individual entrepreneurs with stationary sources of air pollution, with volumes of pollutants allowed to be released into the air over 0.999 tons per year and (or) from 0.500 to 0.999 tons inclusive if there are 1 and (or) 2 hazard class pollutants in the composition of emissions.

3. Collection tools - statistical form of national statistical observation "Report on the protection of atmospheric air" (code - 151112187, index 2-TP (air), frequency - annual) and instructions for filling out the statistical form of national statistical observation "Report on the protection of atmospheric air" (code - 151112187, index 2-TP (air), annual frequency), approved by order No. 5 of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan dated December 13, 2018.

4. The deadline for submission is April 10 (inclusive) after the reporting period.

5. Definitions:

1) emission of pollutants into the atmosphere - the entry into the atmospheric air of pollutants (having an adverse effect on the health or activities of the population, on the environment) substances from stationary sources of emissions;

2) a stationary source of atmospheric pollution - a technological unit (installation, device, apparatus) that emits harmful substances during operation;

3) capture and disposal of pollutants - the amount of captured pollutants returned to production, used to obtain a marketable product or sold to a third party;

4) organized sources of pollution - sources from which harmful substances enter the system of gas ducts or air ducts (pipe, aeration lantern, ventilation shaft), allowing the use of appropriate gas cleaning and dust collecting installations to capture them.

#### S.4.5 Statistical object

The object of statistical observation is nature users of categories I, II, III, IV, who received permits for emissions into the air, the volume of total emissions of which was less than 999 kilograms during the reporting period. At the end of 2018, the number of enterprises emitting pollutants was 27,770.

#### 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 list of nature users of I, II, III, IV categories who have received permits for emissions into the atmospheric air from the authorized body for environmental protection.

#### 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 2-TP- (air) are formed and published from 1990 to the present.

#### S.4.9 Base period

absent

#### S.5 Unit of measurement

Ton (metric)

#### 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 Bureau of national statistics of the Agency for strategic planning and reforms 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 dated May 20, 2010 No. 113.
7. 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.
8. Environmental Code of the Republic of Kazakhstan dated January 9, 2007.
9. Methodology for the formation of indicators of environmental statistics, approved by the order of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms 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.

## 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. Information security policy (hereinafter referred to as the Policy) approved by the Order of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan dated October 31, 2016 No. 252 defines the goals, objectives, guidelines and practical techniques in the field of ensuring information security of the Committee. The main goal of the Policy is to ensure the availability of official statistical information, confidentiality of information stored and processed on the computer equipment of the Committee under the conditions of its integrity and authenticity.

### S. 8.2 Confidentiality - data handling

1. The rules for the provision and use of databases in a de-identified form for scientific purposes, 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.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 of the Republic of Kazakhstan [www.stat.gov.kz](http://www.stat.gov.kz) in the section "Home" // "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 of the Republic of Kazakhstan [www.stat.gov.kz](http://www.stat.gov.kz) in the "Home" section //

#### S.9.3 User access

Official statistics shall be disseminated in accordance with the dissemination schedule of official statistics.

information in the volumes stipulated by the plan of statistical work. 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 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)).

#### 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) The statistical bulletin "On the state of atmospheric air protection 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 statistical information (by industry) / Environment statistics

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 of the Republic of Kazakhstan [www.stat.gov.kz](http://www.stat.gov.kz). Placed in the section Official statistical information (by industry) / Environment statistics / Publications



3) Express information "On emissions of air pollutants 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 statistical information (by industry) / Environment statistics / Express information

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

Information-analytical system "Taldau" / Statistics sections / Industrial production and environment statistics / Environment statistics / Atmospheric air.

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

Not implemented

#### S.11.4 Access to microdata

1.1. 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 the order of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms 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 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) in the section Methodology / Industry and Environment Statistics 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 the order of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan dated April 23, 2015 No. 67.

2. Objectives in the field of quality 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 Bureau of national statistics of the Agency for strategic planning and reforms 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 Bureau of national statistics of the Agency for strategic planning and reforms 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

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

Air emissions from stationary sources are produced by facilities that have received permits for emissions from the authorized bodies for environmental protection. The report on the protection of atmospheric air covers all nature users who have received permits for emissions into the air, the share of the actual volume of emissions of which is about 98% of the total emissions in the country, thereby providing 100% coverage.

#### 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 31509, of which 28723 reported, reports with data 22944.

##### 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 89 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.

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 Dissemination of Official Statistical Information, approved annually by order of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan. The terms of publication are set in the Plan of statistical work, approved annually by order of the Chairman of the Bureau of national statistics of the Agency for strategic planning and reforms 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 2018. 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 1998.

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.

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.gov.kz](http://www.stat.gov.kz) in the section Methodology / Industry and Environment Statistics.

#### S.18.2 Internal consistency

The generated indicators are used to calculate the accounts of environmental and economic accounting used by the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan. In addition, to calculate the green growth indicator "Emissions per capita".

#### 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 2018, the number of respondents was 28,723, of which 84% 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 compiled on the basis of primary accounting data organized at the enterprise, logs for recording stationary sources of pollution and their characteristics, logs for recording the operation of gas cleaning and dust collecting installations, as well as a passport of the installation. Information is provided on a legal entity and (or) their structural and separate subdivision or individual entrepreneur:

- with a permitted emission volume of more than 0.999 tons per year;
- with the volume of the permitted emission from 0.500 to 0.999 tons, inclusive, if there are 1 and (or) 2 hazard class pollutants in the emissions.

All pollutants contained in waste gases from stationary sources of pollution that were present at enterprises during the year (despite the absence of sources of emissions of pollutants at the end of the year, due to their transfer by a third-party organization during the year), and aspiration air (except for those indicated below ). The amount of pollutants for the reporting period (total, solid, gaseous and liquid) is indicated on the basis of instrumental measurements and (or) calculations.

#### S.21.2 Inspection frequency

year

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

The submission of the statistical form 2-TP (air) "Report on the protection of atmospheric air" is carried out on paper on purpose to the "One window" of the territorial statistical bodies, through postal communication services or in electronic form. Filling out the statistical form electronically is carried out through the "Online Data Collection" information system posted on the Bureau of national statistics of the Agency for strategic planning and reforms 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

#### S.21.6.1 Seasonal adjustment

Not implemented.

#### S.22 Notes

Continue work to ensure the quality of statistical data.