



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

Quality report

*On collection, removal, sorting and deposit of
municipal waste*

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

Dina.sadvakasova@economy.gov.kz

S.1.7 Contact person's phone number

74- 93-11

S. 2 Introduction-Relevance

One of the pressing problems associated with the deterioration of the quality of the natural environment is irrational, environmentally hazardous and unorganized waste disposal.

In order to inform society about the state and protection of the environment in terms of waste generation and disposal, the following main indicators are studied:

- 1) waste generation;
- 2) transboundary movement of hazardous waste;
- 3) processing and recycling of waste;
- 4) final disposal of waste.

Municipal waste includes all collected household waste, as well as the estimated amount of household waste from areas not served by a solid waste collection service. Typically waste generated from households and similar waste generated from commerce and trade, small businesses, office buildings and institutions (schools, hospitals, office buildings), as well as from street cleaning and city waste.

In order to form, on an annual basis, the main statistical indicators characterizing the collection, removal, sorting and deposition of municipal waste in the Republic of Kazakhstan, a statistical observation was organized on municipal waste in the Republic of Kazakhstan in the context of regions, types of waste.

S.3 Updating metadata

S.3.1 Latest confirmation of updated metadata

05/02/2019

S.3.2 Last Placement of Metadata

05/02/2019

S.3.3 Latest metadata update

05/02/2019

S.4 Presentation of statistical information

S.4.1 Description of data

- 1) The volume of collected municipal waste,
- 2) The volume of transported waste,
- 3) The volume of received waste,
- 4) The volume of sorted waste,
- 5) The volume of recycled waste,
- 6) The volume of waste sent to third parties,
- 7) The volume of waste sent to third-party organizations for processing.

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 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 in the "Classifiers" section).

S. 4.3 Sectoral coverage

- 1) legal entities and (or) their structural and separate divisions and individual entrepreneurs with the main and (or) secondary types of activity "Collection, processing and disposal of waste; utilization (recovery) of materials" according to the code of the General classifier of types of activities 38 (except 38.12. 0 "Collection of hazardous waste") and 38.22.0 "Treatment and disposal of hazardous waste" (solid coverage);
- 2) individual entrepreneurs with primary and secondary activities under codes 38 (except 38.12.0 "Collection of hazardous waste") and 38.22.0 "Treatment and disposal of hazardous waste" (continuous coverage).

S. 4.4 Statistical concepts and definitions

1. The type of observation is continuous.

The circle of respondents - legal entities and (or) their structural and separate subdivisions and individual entrepreneurs with the main and secondary types of activities "Collection, processing and waste removal; utilization (recovery) of materials "and" Collection of non-hazardous waste "according to the codes of the General Classifier of Economic Activities 38 (except 38.12.0" Collection of hazardous waste "and 38.22.0" Treatment and disposal of hazardous waste ");

3. Data collection tools:

1) Statistical form of national statistical observation "Report on processing (sorting), utilization and burial (deposit) of waste" (code 151112180, index 2-waste, annual frequency) and instructions for filling out the statistical form of the national statistical observation "Report on processing (sorting), disposal and burial (deposit) of waste" (code - 151112180, index 2-waste, annual frequency), approved by order No. 5 chairman of the Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan dated December 13, 2018;

2) Statistical form of national statistical observation "Report on collection and removal of municipal waste" (code 151112127, index 1-waste, annual frequency) and instructions for filling out the statistical form of national statistical observation "Report on collection and removal of municipal waste" (code - 151112127 , index 1-waste, 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 February 1 (inclusive) after the reporting period.

5. Definitions:

- Municipal waste - consumption waste generated in settlements, including as a result of human activity, as well as production waste, close to them in composition and nature of formation;

- Waste types - a set of wastes having common characteristics in accordance with their origin, properties and treatment technology, determined on the basis of the waste classifier.

S.4.5 Statistical object

The statistical object of observation is the enterprises collecting, transporting, processing, processing (sorting), utilizing and burying (depositing) waste.

At the end of 2018, the number of enterprises collecting and removing waste was 519, processing and depositing was 181.

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.

S.4.7 Territorial coverage

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

S.4.8 Time coverage

Statistical indicators for forms 1-waste and 2-waste are formed and published from 2005 to the present.

S.4.9 Base period

absent

S.5 Unit of measurement

Ton per year

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 practices in the field of ensuring information security 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 Privacy-handling of data

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. 9 Publication Policy

S.9.1 Publications 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 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 in the section "Home" // "Basic documents"

S.9.3 Доступ для пользователя

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).

S.10 Propagation frequency

once a year

S.11 Dissemination format, accessibility and clarity

S.11.1 News publications

Press release "On municipal waste in the Republic of Kazakhstan" for 2018 was published on the website Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan www.stat.gov.kz

S.11.2 Publications

1) The statistical bulletin "On collection, removal, processing (sorting) and burial (deposit) of municipal waste in the Republic of Kazakhstan" "is published annually on the website Bureau of national statistics of the Agency for strategic planning and reforms of the Republic of Kazakhstan 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. Placed in the section Official statistical information (by industry) / Environment statistics / Publications

S.11.3 Online databases

Information-analytical system "Taldau" / Sections of statistics / Statistics of industrial production and the environment / Statistics of the environment / Waste.

S.11.3.1 AC1. Data tables-consultation

Not implemented

S.11.4 Access to microdata

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 in the section Methodology / Industry and Environment Statistics and on the website www.adilet.kz.

S.12.2 Quality documentation

1. 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. Typical 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

Coordination and control of municipal waste management are under the jurisdiction of local executive bodies. Territorial statistical bodies request lists of enterprises that collect, export, process, and dispose of municipal waste. For 2018, 700 enterprises submitted reports with data on statistical forms 1-waste and 2-waste.

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.

According to the form 1-waste, the number of respondents in the catalog is 1549, of which 1154 reported, 519 reports with data.

Form 2-waste, the number of respondents in the catalog 2676, of which 1791 reported, reports with data 181

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

S.15.3.3 No response errors

S.15.3.3.1 A4. Absence unit-fraction

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 90 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 first results were published on May 3, 2019

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 2005. 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 in the section Methodology / Industry and Environment Statistics.

S.18.2 Internal consistency

Internal consistency not foreseen

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 in the form 1-waste was 1549, of which 32% reported online, in the form 2-waste - 2676, of which 43% 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 on average 1 hour. There is no duplication with other nationwide surveys.

When forming a statistical bulletin, data on the volume of solid household waste are used.

S.20 Data revision

S.20.2 Revision of data / A6

absent

S.21 Processing of statistical data S.21.1

Input data

The basis for filling out statistical forms 1-waste and 2-waste is the data of accounting and primary accounting for the collection and removal (transfer) of municipal waste, receipt and further movement of waste, passports of solid waste objects (hereinafter - MSW). The volume of all types of waste received at the facilities for disposal of solid waste for processing (sorting), utilization and burial (deposition) is reflected. The survey covers units that process (sort), utilize and burial (deposit) (waste sorting plant, landfill for solid waste, landfills) of municipal waste.

S.21.2 Inspection frequency

year

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

Submission of statistical forms 1-waste "Report on the collection and removal of municipal waste" and 2-waste "Report on processing (sorting), disposal and burial (deposit) of waste" are carried out on paper on purpose in the "One window" of territorial statistical bodies, through postal communication services or electronically. 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