



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

Quality Report Production Activities of Households in the Republic of Kazakhstan for 2024

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S.1 Contact details

S.1.1 Organization

National Statistics Bureau of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan (hereinafter referred to as the Bureau)

S.1.2 Structural unit

Department of Labor Statistics and Living Standards

S.1.3 Name of contact person

Zhumanova Nagima Askarkyky

S.1.3.1 Name of head of responsible structural unit

Belonosova Natalya Evgenievna

S.1.4 Postal address of contact person

010000, Astana, 8 Mangilik El Ave., House of Ministries, Entrance 4

S.1.5 Contact person's email address

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S.1.6 Contact person's phone number

+7 7172 749285

S.2 Introduction—Relevance

The purpose of the survey is to obtain information on the production of consumer goods in households, household expenditure on land, livestock maintenance, income from the sale of agricultural products, and the provision of services by households in the republic.

Domestic production represents the value of goods, products, and services resulting from the productive activities of households in the reporting period, intended for both own consumption and sale.

The production of goods, products, and services is recorded in kind and in value terms at selling prices.

Scope of application: for compiling household sector accounts in the system of national accounts; obtaining weight indicators for calculating the consumer price index; obtaining data on the distribution of the population by level of material well-being.

Users: individuals, legal entities, and government agencies.

Feedback from respondents and users of official statistical information is provided through the Bureau's Single Contact Center 1446.

S.3 Metadata update

S.3.1 Last confirmation of updated metadata

Not applicable

S.3.2 Last metadata placement

Not applicable

S.3.3 Last metadata update

Not applicable

S.4 Presentation of statistical information

S.4.1 Description of data

Production of consumer goods in households;
Production of services in households;
Production of livestock products in households;
Collection and use of crop products in households.

S.4.2 Classification system.

The following statistical classifiers are used in the survey:

KATO - Classifier of administrative-territorial objects;

KIPTS - Nomenclature of commodity items for the classifier of individual consumption by purpose.

These classifiers are available on the Bureau's website www.stat.gov.kz / Home / Statistical Classifications.

S.4.3 Sectoral coverage

All households participating in the sample survey of households on the standard of living of the population are subject to observation.

S.4.4 Statistical concepts of definition

The survey covers 12,000 households.

The type of observation is selective.

The survey is conducted using form D004, "Quarterly Household Income and Expenditure Record Book," by specially trained interviewers who visit households.

The deadline for submission is the 20th day after the reporting period.

The form was revised in 2024 and approved by Order of the Head of the Bureau No. 11 of June 25, 2024 (registered with the Ministry of Justice of the Republic of Kazakhstan on June 26, 2024, No. 34596) and is available on the Bureau's website www.stat.gov.kz in the section "For respondents" / "Statistical forms for 2025" / "Quarterly forms."

S.4.5 Statistical object

Household.

S.4.6 General population (principle of selecting survey units)

The general population includes households living in all types of residential premises, except for those living in communal apartments, dormitories, nursing homes for the elderly and disabled, orphanages, prisons, hotels, religious communities, and other similar residential premises. The final sampling unit is defined as a household, which is

also the survey unit. The main source for forming the sample population of households is the Statistical Register of Housing Fund information system, a component of the integrated e-Statistics information system (hereinafter referred to as SRHF).

The sample population of households is formed using a two-stage probability (random) sampling method, with stratification and random selection procedures at each stage of sample formation. The stratification procedure is aimed at forming a representative sample of households that adequately reflects the territorial characteristics of the population stratification.

S.4.7 Territorial coverage

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

S.4.8 Time coverage

The production activities of households in the Republic of Kazakhstan have been recorded since 2001.

S.4.9 Base period

Corresponds to the previous year.

S.5 Unit of measurement

Thousand tenge

S.6 Reporting period

Quarter

S.7 Legal basis

S.7.1 Legal framework

1. Law of the Republic of Kazakhstan No. 257-IV dated March 19, 2010, "On State Statistics."

2. Statistical work plan approved in accordance with the established legislative procedure by order of the Head of the Bureau.

3. Rules for the submission of primary statistical data by respondents, approved by Order No. 173 of the Chairman of the Agency of the Republic of Kazakhstan on Statistics dated July 9, 2010 (registered with the Ministry of Justice of the Republic of Kazakhstan on September 8, 2010, No. 6459).

4. Schedule for the dissemination of official statistical information, approved on August 23, 2023, No. 140 by order of the Head of the Bureau.

5. Rules for the provision, free of charge, of statistical information not covered by the schedule for the dissemination of official statistical

information developed on the basis of primary statistical data submitted by respondents in accordance with the schedule for the submission of primary statistical data by respondents, approved by Order of the Chairman of the Agency of the Republic of Kazakhstan on Statistics No. 113 dated May 20, 2010 (registered with the Ministry of Justice of the Republic of Kazakhstan on June 10, 2010, No. 6283).

6. Rules for the provision of databases in a de-identified form for use in scientific and scientific-technical activities, approved by Order of the Minister of National Economy of the Republic of Kazakhstan No. 778 dated December 18, 2015.

S.8 Confidentiality 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," which guarantees the confidentiality and protection of data submitted by respondents.

2. Article 28 of the Entrepreneurial Code of the Republic of Kazakhstan No. 183 dated October 29, 2015, provides for the protection of information constituting a trade secret.

3. The Information Security Policy (hereinafter referred to as the Policy), approved by Order of the Head of the Bureau No. 20 dated February 10, 2021, defines the goals, objectives, guiding principles, and practical methods in the field of ensuring the information security of the National Statistics Bureau. The main objective of the Policy is to ensure the availability of official statistical information and the confidentiality of information stored and processed on the computing equipment of the National Statistics Office, while maintaining its integrity and authenticity.

S.8.2 Confidentiality of data handling

1. Rules for the provision of databases in a de-identified form for use in scientific and scientific-technical activities, approved by Order of the Minister of National Economy of the Republic of Kazakhstan No. 778 of December 18, 2015.

S.9 Publication Policy

S.9.1 Publication Calendar

Paragraphs 1 and 2 of Article 26 of the Law of the Republic of Kazakhstan

"On State Statistics" dated March 19, 2010, No. 257, state statistics

bodies shall ensure equal rights for users to simultaneous access to high-quality official statistical information, including in machine-readable data format and statistical methodology, by posting it on the Internet resources of state statistics bodies and the open data Internet portal of the “e-government” web portal. All statistical information provided for in the Statistical Work Plan and the Schedule for the Dissemination of Official Statistical Information is freely available on the Bureau's Internet resource www.stat.gov.kz.

The Statistical Work Plan and the Schedule for the Dissemination of Official Statistical Information are available on the Unified Platform of Internet Resources of State Authorities (EPIR GO) www.gov.kz in the section “Bureau” / ‘Home’ / “Key Documents”.

S.9.2 Access to the Schedule

The Schedule for the dissemination of official statistical information is available on the Unified Platform of Internet Resources of State Bodies (EPIR GO) www.gov.kz in the section “Bureau” / ‘Home’ / “Key Documents”.

S.9.3 User Access

The data is available on the official website of the Bureau www.stat.gov.kz and in the Taldau Information and Analytical System taldau.stat.gov.kz.

S.10 Frequency of dissemination

Quarterly, annually

S.11 Dissemination format, accessibility, and clarity

S.11.1 News releases

No press releases are planned.

S.11.2 Publications

The electronic tables “Production activities of households in the Republic of Kazakhstan” contain data on the production activities of households. Quarterly and annual results are presented based on the results of a sample survey of households, with the data obtained being distributed across the general population of the republic and by region. Published on the Bureau's website in the section Home / Industries / Labor and Income / Living Standards Statistics / Spreadsheets;

1) Sections 3 and 4 of the annual statistical compendium “Living Standards of the Population in Kazakhstan” contain annual data on the republic's population expenditure and income. It is available on

the Bureau's website in the section Official Statistics - Publications - Statistical Compendiums.

S.11.3 Online databases

The IAS “Taldao” is available on the official website of the Bureau of National Statistics at the following link: Home / Information and Analytical System Taldao / Home / Living Standards Statistics.

S.11.3.1 AC1. Data consultation tables

Not implemented.

S.11.4 Access to microdata

There is no access to microdata. In accordance with paragraph 6 of Article 8 of the Law, the provision of databases in a de-identified form is regulated by the Rules for the provision and use of databases in a de-identified form for scientific purposes, approved by Order No. 168 of the Chairman of the Agency of the Republic of Kazakhstan on Statistics dated July 2, 2010 (available on the Bureau's website www.stat.gov.kz).

S.11.5 Other

S.11.5.1 AC2. Metadata consultations

Not implemented.

S.12 Availability of documentation

S.12.1 Methodology documentation

“Methodology for organizing and conducting a selective survey of households on living standards,” approved by Order No. 31 of the Chairman of the Statistics Committee of the Ministry of National Economy of the Republic of Kazakhstan dated July 2, 2020, and registered with the Ministry of Justice of the Republic of Kazakhstan on July 3, 2020, No. 20922;

Methodology for constructing a sample of households for a survey of living standards, approved by order of the Head of the National Statistics Bureau of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan dated December 20, 2023;

All methodologies are available on the website of the National Statistics Bureau www.stat.gov.kz in the section on the standard of living of the population.

S.12.2 Quality documentation

1. Quality policy, approved by order of the Head dated November 16, 2020;

2. Quality objectives of the Bureau, quality objectives of the relevant

structural unit;

3. Documented information on the quality management system: Quality Manual; Documented procedures; Instructions; Process maps;

4. Standard methodology for describing the process of producing statistical information by state bodies, approved by Order of the Chairman of the Statistics Committee of the Ministry of National Economy 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 Statistics Committee of the Ministry of National Economy of the Republic of Kazakhstan No. 63 dated May 23, 2018.

S. 13 Quality management

S.13.1 Quality assurance

The quality and reliability of data on living standards statistics is ensured by generally accepted procedures:

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

S.13.2 Quality assessment

-Global assessment of the statistical system of the Republic of Kazakhstan by the United Nations Economic Commission for Europe (2008, 2017).

- The methodology for measuring living standards is internationally comparable; international questionnaires from the Interstate Statistical Committee of the Commonwealth of Independent States of the Eurasian Economic Commission are completed based on data from the bulletin "Production Activities of Households in the Republic of Kazakhstan."

S.14 Relevance

S.14.1 Needs

Information users: government agencies, individuals, and legal

entities. Obtaining data for compiling household sector accounts in the system of national accounts; obtaining weighting indicators for calculating the consumer price index; obtaining data on the distribution of the population by level of material well-being.

S.14.2 User satisfaction

No user surveys are conducted to assess satisfaction with the data compiled from Form D 004, "Quarterly Household Income and Expenditure Record."

An annual survey of users of official statistical information is conducted. The user questionnaire is available on the Bureau's website www.stat.gov.kz in the section "Home" / 'Surveys' / "User Questionnaire."

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

S.15 Accuracy and reliability (to be completed according to the type of observation)

S.15.1 Overall accuracy

The following indicators are used to measure the accuracy of static estimation: standard sampling error and relative standard sampling error.

The standard error of sampling is the standard deviation of the sample parameter value from the sample mean of that parameter.

The relative standard error is the ratio of the estimated statistical value to its mean value.

The standard error of the sample (SE) shows the magnitude of the possible deviation of the sample estimate from the true value of the parameter in the general population.

The standard error of the sample is determined by the following formula:

$$SE = \frac{\delta \sqrt{Deff}}{\sqrt{n}}$$

where, δ – variance;

Deff is the effect of the sample design (1.0 for urban areas and 2.0 for rural areas);

n is the sample size.

The relative standard error of the sample (RSE) is determined by the

following formula:

$$RSE = \frac{SE}{\bar{x}}$$

where SE is the standard error of the sample;

\bar{x} - is the mean value of the variable used to estimate the relative standard error.

Reliability estimates are calculated based on indicators such as the production of consumer goods in households and the production of services by households in the Republic of Kazakhstan as a whole.

Accuracy indicators for assessing the results of the 2024 sample survey on living standards

	Relative standard error, in percent
Production of consumer goods in households	1,4%
Production of services by households	2,3%

S.15.2 Sampling errors—indicators/A1.

According to the Methodology for constructing a sample of households for the living standards survey, approved by Order No. 237 of the Head of the National Statistics Bureau dated December 20, 2023, the standard sampling error and the standard relative sampling error are used as indicators of the accuracy of statistical estimation. The sample size ensures that the results have an error of no more than 4% at the national level and no more than 7% at the regional level.

The number of selected primary sampling units (hereinafter referred to as PSUs) in each stratum and the number of households in each PSU, as well as their distribution by region, are shown in the Table.

Distribution of primary sampling units by strata (urban and rural areas)

	Number of households			Number of primary sampling units		
	total	city	village	total	city	village
Republic of Kazakhstan	12000	6600	5400	400	220	180
Abay	510	240	270	17	8	9

Akmola	750	360	390	25	12	13
Aktobe	720	360	360	24	12	12
Almaty	480	180	300	16	6	10
Atyrau	510	300	210	17	10	7
Batys Kazakhstan	660	240	420	22	8	14
Zhambyl	630	300	330	21	10	11
Zhetisu	480	240	240	16	8	8
Karagandy	630	390	240	21	13	8
Kostanay	780	360	420	26	12	14
Kyzylorda	600	240	360	20	8	12
Mangystau	570	330	240	19	11	8
Pavlodar	780	360	420	26	12	14
Soltustik Kazakhstan	660	270	390	22	9	13
Turkistan	600	210	390	20	7	13
Ulytau	390	210	180	13	7	6
Shygys Kazakhstan	480	240	240	16	8	8
Astana city	570	570		19	19	
Almaty city	720	720		24	24	
Shymkent city	480	480		16	16	

S.15.3 Non-sampling error

Non-sampling errors are not analyzed.

S.15.3.1 Coverage error

During the survey, there are cases where households cannot be interviewed because the dwelling cannot be found, is unoccupied, or the household refuses to participate in the survey. Refusal to participate is undesirable because it reduces the sample size and, more importantly, because it is a source of potential sample bias and leads to distorted statistical results. Careful documentation of each case is an effective preventive measure to overcome the problem of non-response. In 2024, the refusal rate was 2.5%.

S.15.3.1.1 A2. Coverage excess-share

Not okay.

S.15.3.1.2 A3. Total units-ratio

Not okay.

S.15.3.3. Non-response errors

S.15.3.3.1 A4. Unit of non-response—proportion

Data non-response occurs when a sampling unit does not participate in the survey at all or participates only partially. To compensate for cases of complete non-response, a simple weight adjustment scheme is applied by assigning higher weights to all responding households in a given settlement. The weights of all responding

households in a given settlement are increased by the same coefficient.

S.15.3.3.2 A5. Non-response item – share

In the absence of data only for certain questions, the method of imputation is applied. This method consists of replacing the missing data for a particular item with a value that is predicted based on other information available for that object or for other objects in the survey.

S 16 Timeliness and punctuality

S. 16.1 Timeliness

S. 16.1.1 TP1. Waiting period—first results

The first results for the quarter in the bulletin "Production activity of households in the Republic of Kazakhstan" are published 70 days after the deadline for respondents to provide primary statistical information and are final. The release date is approved and published in the Statistical Work Plan and in the Schedule for the dissemination of official statistical information.

S.16.1.2 TP2. Waiting period - final results

The results are final.

S.16.2 Timeliness

S.16.2.1 Timeliness/TP3

The data are published in accordance with the Statistical Work Plan and the Schedule for the Dissemination of Official Statistical Information, approved by order of the Head of the Bureau.

The actual and planned dates coincide, and there have been no delays in publication.

S. 17 Comparability

S.17.1 Geographical comparability

Within the territory of the Republic of Kazakhstan.

S.17.1.1 Asymmetry in mirror statistics of flows-coefficient/CC1

Not applicable.

S.17.2 Duration of comparable time series/CC2

The dynamic series of household production activity is comparable and continuous since 2001.

S.18 Consistency

S.18.1 External, cross-sectional consistency

The methodology for constructing a sample of households for the living standards survey was developed based on the

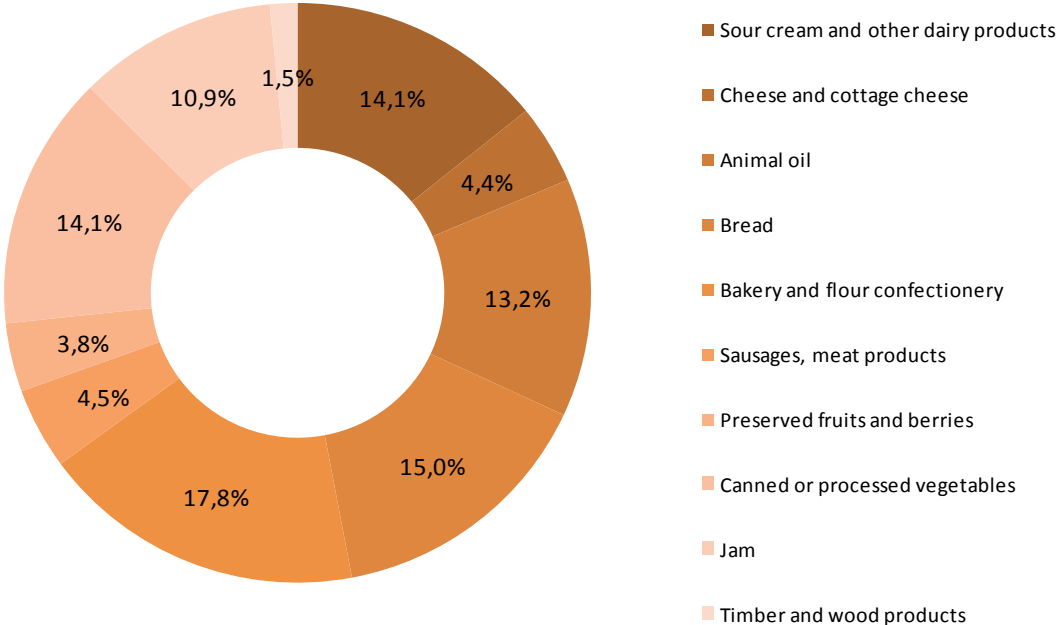
recommendations of World Bank experts as part of the implementation of the 2010 Joint Economic Research Project “Development of a new sample for the household living standards survey.”

This methodology is consistent with internationally accepted sampling methods and ensures the production of high-quality statistical data.

S.18.2 Internal consistency

Structure of consumer goods produced in households in 2024 in the Republic of Kazakhstan

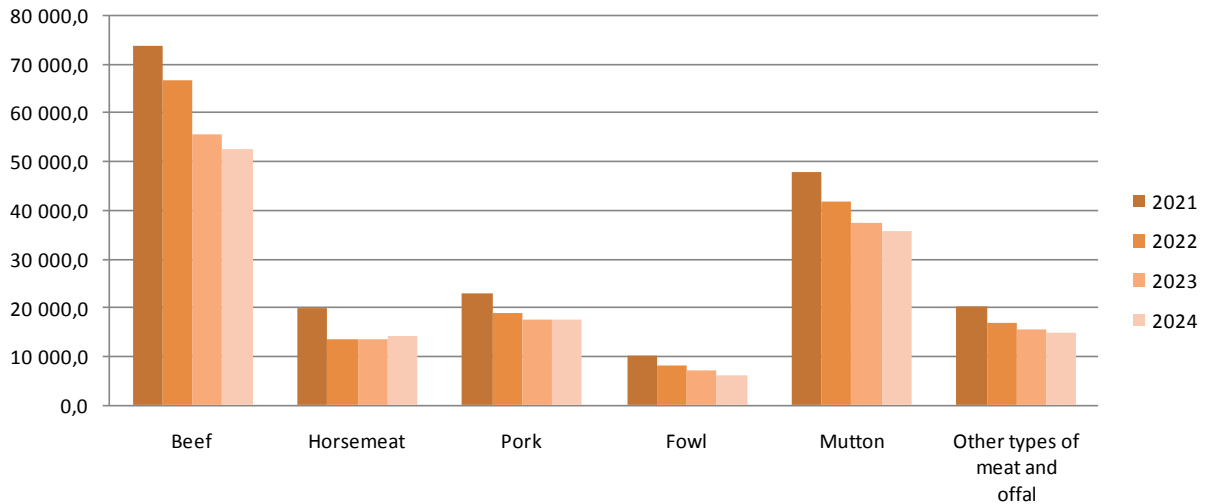
percentages



According to 2024 data, the largest share in the value structure of consumer goods production in households is accounted for by the production of bakery and flour confectionery products (17.8%), bread (15%), canned or processed vegetables (14.1%), sour cream and other dairy products (14.1%).

Livestock production in households in the Republic of Kazakhstan for 2021-2024

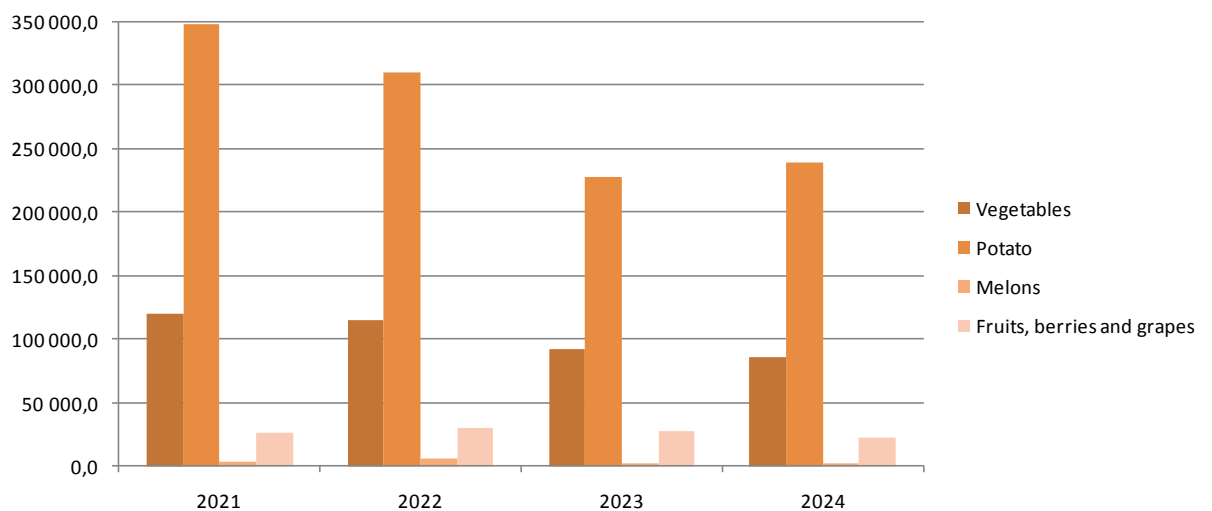
ton, per year



For 2021-2024, beef and lamb production will dominate the structure of livestock production in households.

In 2021-2024, beef and lamb production will dominate the structure of livestock farming in households.

ton, per year



For 2021-2024, potato harvesting will dominate the structure of crop production and use in households.

S.19 Workload

The workload for each interviewer is 30 households.

S.20 Data revision

S.20.2 Data revision/A6

The form was last revised in 2024. The statistical form is available on

the Bureau's website www.stat.gov.kz in the section for respondents – Home / For respondents / Statistical forms for 2025 / Annual forms. There was no republication of official statistical information for 2024.

S.21.1 Source data

The data set is based on a household survey (questionnaire). For this survey, households are selected using a two-stage probability (random) sampling method, with stratification and random selection procedures at each stage of sample formation. The Housing Stock Register serves as the information base for forming the sample population of households. The survey unit is defined as a household, and the sample size is 12,000 households (0.2% of the general population).

S.21.2 Survey frequency

Quarterly

S.21.3 Method (approach) for collecting primary statistical data

The data set is based on a household survey (questionnaire). Data collection is carried out on paper by completing statistical form D004 “Quarterly questionnaire on household expenditure and income.”

S.21.4 Reliability of primary statistical data

Data processing procedures include editing, imputation, and aggregation of data. The first stage of processing involves editing the database and bringing it into working order. To this end, the following types of control are carried out:

- 1) control to identify extreme values (outliers). The range of extreme values of indicators is outside the interval, the boundaries of which are determined by the deviation from the mean value of the indicators by the standard deviation;
- 2) analysis of the maximum and minimum values of quantitative indicators;
- 3) assessment of the quality of information received from respondents.

For this purpose, a logical control system is built within each section of the questionnaire, which allows eliminating both input errors and registration errors on the part of households: expenses that are atypical for households (purchase of exotic foods or expensive foods for feeding pets), living space should not be larger than the total area;

4) control based on the logical interconnection of information obtained from different statistical forms.

Cross-checks are used to verify the interconnection between questionnaires and to control the completeness of the forms.

S.21.5 Imputation share/A7

According to the Methodology for organizing and conducting a sample survey of households on living standards, the second stage of data processing is imputation—assigning values to missing responses. In the household survey on living standards, there is a certain percentage of non-responses both in the survey forms and in individual questions. In order to avoid errors caused by missing responses, it is important to compensate for the missing information when processing the data. If a quarterly questionnaire is missing, it is not imputed; the household is excluded from the survey and all diary entries are excluded from processing.

S.21.6 Adjustment

Data adjustments are made directly during the statistical observation.

S.21.6.1 Adjustment for seasonal fluctuations

Not performed.

S.22 Remarks

The Bureau works continuously to ensure data quality and improve user satisfaction with statistical data. In this regard, based on user needs, statistical data on living standards will continue to be improved to ensure data quality and international comparability.