



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

Quality report

Age-specific fertility rates for 2024

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S.1. Contact information

S.1.1 Organization

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

S.1.2 Structural subdivision

Department of Population Statistics

S.1.3 Name of the contact person

Kopes Yerlan Kanatuly

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

Khanzhigitov Nurlan Erkenovich

S.1.5 Postal address of the contact person

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S.1.6 E-mail address of the contact person

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S.2 Introduction-Relevance

Fertility rate is one of the main demographic processes, which is determined by the frequency and characteristics of childbirth (mother's age, the order of childbirth, etc.) in a given population.

One of the indicators of birth rate is the age-specific fertility rates, which provide good opportunities for analyzing the state and dynamics of birth rate. Age-specific fertility rates allow to accurately express the dynamics and territorial differentiation of the intensity of births.

Feedback from and users of official statistical information is provided through the Unified Contact Center of Bureau 1446.

S.3 Updating metadata

S.3.1 Last confirmation of updated metadata

27.03.2025

S.3.2 Last metadata posting

27.03.2025

S.3.3 Last updating metadata

27.03.2025

S.4 Presentation of statistical information

S.4.1 Description of data

Age-specific fertility rates, total birth rate.

S.4.2 Classification system

The following statistical classifiers are used to generate birth rate data:

KATO – Classification of Administrative-Territorial Units;

This classifier is available on the Bureau's website www.stat.gov.kz in the «Main» / «Classifiers» section.

S.4.3 Sectoral coverage

All women who gave birth to children in the reporting year are subject to observation. Average annual number of women, number of births by mother's age, administrative and territorial changes.

To form the indicator, administrative data ZAGS of the Ministry of Justice of the Republic of Kazakhstan and from the RPN of the Ministry of Health of the Republic of Kazakhstan are used on the basis of the following agreements:

1) Agreement on the implementation of the integration of the integrated information system «e-Statistics» of the Statistics Committee of the Ministry of National Economy of the Republic of Kazakhstan with the information system «Civil Status Records» of the Ministry of Justice of the Republic of Kazakhstan through the «e-Government» gateway of the Ministry of Digital Development, Innovation, and Aerospace Industry of the Republic of Kazakhstan dated June 18, 2019;

2) Agreement on the implementation of the integration of the integrated information system «e-Statistics» of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan with the information system «Register of the Attached Population» of the Ministry of Health of the Republic of Kazakhstan through the «e-Government» gateway of the Ministry of Digital Development, Innovation, and Aerospace Industry of the Republic of Kazakhstan dated June 11, 2021.

S.4.4 Statistical concepts and definitions

The significance of the calculated birth rates is due to the role in the analysis of demographic phenomena and the assessment of the current demographic situation in the country and its regions. The calculation and analysis of fertility rates are necessary for the purposes of demographic research, as well as for the application of health, education, and social policy authorities.

The reproductive period (age) is the time during which a woman is capable of giving birth. For statistical purposes, most countries conventionally use the period of 15-49 years. Age-specific fertility rates represent the average level of fertility in each age group in a calendar year.

S.4.5 Statistical object

The permanent population of the Republic of Kazakhstan.

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

Not applicable

S.4.7 Territorial coverage

The Republic of Kazakhstan (districts, regions, cities of national importance, and the capital).

S.4.8 Temporal coverage

Data are collected annually since 2000. There are time series for 2000-2024. Time series are available on the Bureau's website

www.stat.gov.kz under the section «Main» / «Statistics» / «Social Statistics» / «Demographic Statistics» / «Dynamic Series».

S.4.9 Base period

Corresponds to the corresponding period of the previous year.

S.5 Unit of measurement

Per thousand women.

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 №257-IV «On State Statistics».

2. The Rules for the submission of primary statistical data by respondents, approved by Order №173 of the Chairman of the Agency of the Republic of Kazakhstan for Statistics dated July 9, 2010.

3. The Rules for the submission of administrative data by administrative sources on a gratuitous basis, approved by Order №183 of the Acting Chairman of the Agency of the Republic of Kazakhstan for Statistics dated July 14, 2010.

4. The Statistical Work Plan, approved in accordance with the established legal procedure of the Republic of Kazakhstan by Order of the Head of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan.

5. The schedule for disseminating official statistical information, approved by the Order of the Head of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan.

S.8 Confidentiality and Data Protection

S.8.1 Confidentiality Policy

The Information Security Policy (hereinafter referred to as the Policy), approved by the Order of the Head of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan dated February 10, 2021, №20, defines the goals, objectives, guidelines, and practices for ensuring the information security of the Bureau. The main goal of the Policy is to ensure the availability of official statistical information, the confidentiality of information stored and processed on the Bureau's computer systems, and its integrity and authenticity.

S.8.2 Confidentiality and Data Handling

Rules for the provision of databases in a de-identified form for use in scientific and scientific-technical activities, approved by the Order of the Chairman of the Agency of the Republic of Kazakhstan for Statistics dated July 2, 2010 №168.

S.9 Publication Policy

S.9.1 Publication Calendar

p.1, p.2 of Article 26 of the Law of the Republic of Kazakhstan «On State Statistics» dated July 19 March 2010, №257, state statistical agencies provide users with equal rights to simultaneous access to high-quality official statistical information, including in the format of machine-readable data and statistical methodology, by posting them on the Internet resource of state statistical agencies. All statistical information provided for by 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 Bodies (UPIR GB) www.gov.kz in the «Bureau» / «Main» / «Main Documents» section.

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 Government Agencies (EPIR GO) www.gov.kz in the «Bureau» / «Main» / «Main documents» section.

S.9.3 User access

paragraphs 1, paragraph 2 of Article 26 of the Law of the Republic of Kazakhstan «On State Statistics» dated March 19, 2010 In the year №257, the state statistical authorities provide users with equal rights to simultaneous access to high-quality official statistical information, including in the format of machine-readable data and statistical methodology, by posting them on the Internet resource of the state statistical authorities. All statistical information provided for by 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 Bodies (UPIR GB) www.gov.kz in the «Bureau» / «Main» / «Main Documents» section.

S.10 Frequency of propagation

Year

S.11 Dissemination format, availability, and clarity

S.11.1 News publications

Press releases are not generated.

S.11.2 Publications

1) Electronic table «Age-specific fertility rates in the Republic of Kazakhstan» (frequency: annual), available on the Bureau's website

www.stat.gov.kz under «Main» / «Statistics» / «Social Statistics» / «Demographic Statistics» / Electronic tables.

2) Statistical compilations «Demographic Yearbook of Kazakhstan» and «Youth of Kazakhstan» are available on the Bureau's website www.stat.gov.kz in the «Main» section / Publications / Compilations.

3) Key indicators and dynamic tables are available on the Bureau's website www.stat.gov.kz in the «Main» section / «Statistics» / «Social Statistics» / «Demographic Statistics» / «Dynamic Series».

S.11.3 Online databases

Bureau's Internet resource www.stat.gov.kz Information and Analytical System «Taldau» / «Demographic Statistics».

S.11.3.1 AC1. Consultation data tables

Not implemented

S.11.4 Access to microdata

The provision of de-identified databases is regulated by the «Rules for the provision of de-identified databases for use in scientific and technical activities, approved by Order №168 of the Chairman of the Agency of the Republic of Kazakhstan for Statistics dated July 2, 2010.

Information on the conditions for submitting an application to obtain de-identified databases is available on the Bureau's website www.stat.gov.kz under the «Main» / «For Researchers» section.

The application is formed and submitted through the «Personal Account» / «User Account» on the Bureau's online resource www.stat.gov.kz, and is certified with an electronic digital signature and the necessary documents.

S.11.5 Other

S.11.5.1 AC2. Metadata-consultations

Not implemented

S.12 Availability of documentation

S.12.1 Methodology documentation

The methodology for calculating birth rates, approved by Order №8 of the Head of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan dated June 21, 2024, «On Amendments and Additions to Order №3 of the Chairman of the Statistics Committee of the Ministry of National Economy of the Republic of Kazakhstan dated July 29, 2019, «On Approval of the Methodology for Calculating Birth Rates.» Registered with the Ministry of Justice of the Republic of Kazakhstan on June 25, 2024, №34565.

The methodology is available on the Bureau's website www.stat.gov.kz in the «Methodology» / «Demographic Statistics» section.

S.12.2 Quality Documentation

1) Standard methodology for describing the process of statistical information production by government agencies, approved by Order

№53 of the Chairman of the Committee on Statistics of the Ministry of National Economy of the Republic of Kazakhstan dated March 30, 2015.

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

3) Rules for assessing the quality of administrative data, approved by the Order of the Head of the Bureau of National Statistics of the Agency for Strategic Planning and Reforms of the Republic of Kazakhstan dated March 19, 2024 №2.

S.13 Quality Management

S.13.1 Quality Assurance

The quality and reliability of demographic statistics data are supported by generally accepted procedures:

- monitoring the list of indicators provided by administrative sources;
- compliance with the basic principles of primary accounting;
- use of standard statistical classifications by administrative-territorial units;
- all control schemes (format-logical, arithmetic) have been developed and implemented at the stages of integrating primary data from administrative sources;
- comparative analysis of statistical data (in dynamics with administrative data) is carried out.

S.13.2 Quality assessment

The methodology for calculating birth rates is based on statistical methodology that is developed in accordance with international standards and approved in accordance with the Law of the Republic of Kazakhstan dated March 19, 2010, «On State Statistics».

S.14 Relevance

S.14.1 Needs

Users of information: government agencies of the Republic of Kazakhstan, individuals and legal entities, the CIS Statistical Committee, and the ECE.

S.14.2 User Satisfaction

A survey of users of official statistical information is conducted annually. The user questionnaire is available on the Bureau's website www.stat.gov.kz in the «Main» / «Surveys» / «User Questionnaire» section.

S.14.3 Completeness/R1 Data completeness - percentage

Not applicable

S.15 Accuracy and reliability (filled in based on the type of observation)

S.15.1 Overall accuracy

Age-specific fertility rates characterize the average level of fertility in each age group in a calendar year. When calculating the coefficient for the age group under 20 years, the number of women aged 15-19 years is used as

the denominator. When calculating the coefficient for the age group 15-49 years, the numerator includes all births, including births to mothers aged under 15 years and 50 years and older.

ASFR_x = N_x P_x 1000, where:

ASFR_x is the age-specific fertility rate, where
x is the age;

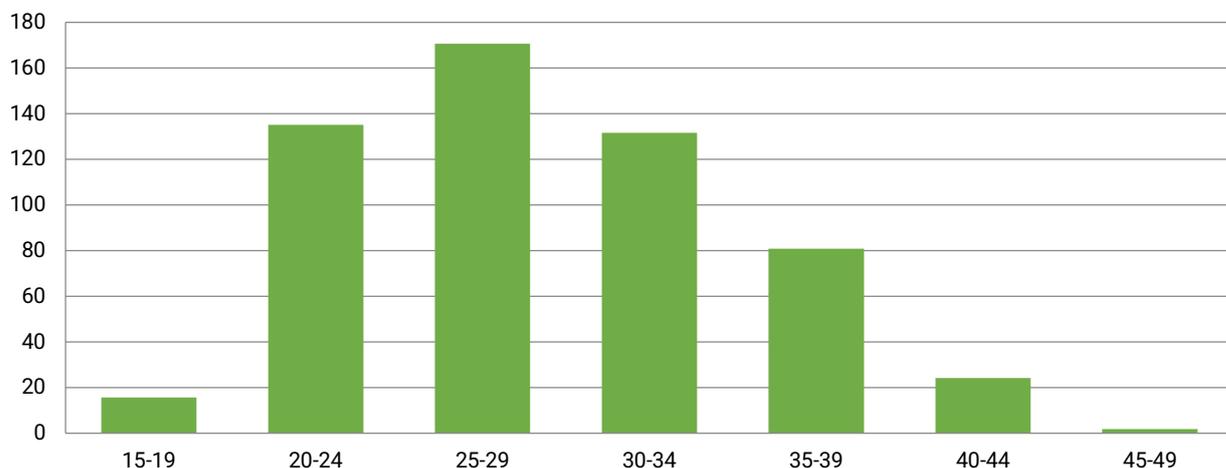
N_x is the number of births among women aged x;

P_x is the average annual number of women aged x.

Age-specific fertility rates for 2024 at the age of 15-19 years was 15.64; 20-24 years – 135.10; 25-29 years – 170.63; 30-34 years – 131.55; 35-39 years – 80.79; 40-44 years -24.18; 45-49 years – 1.81.

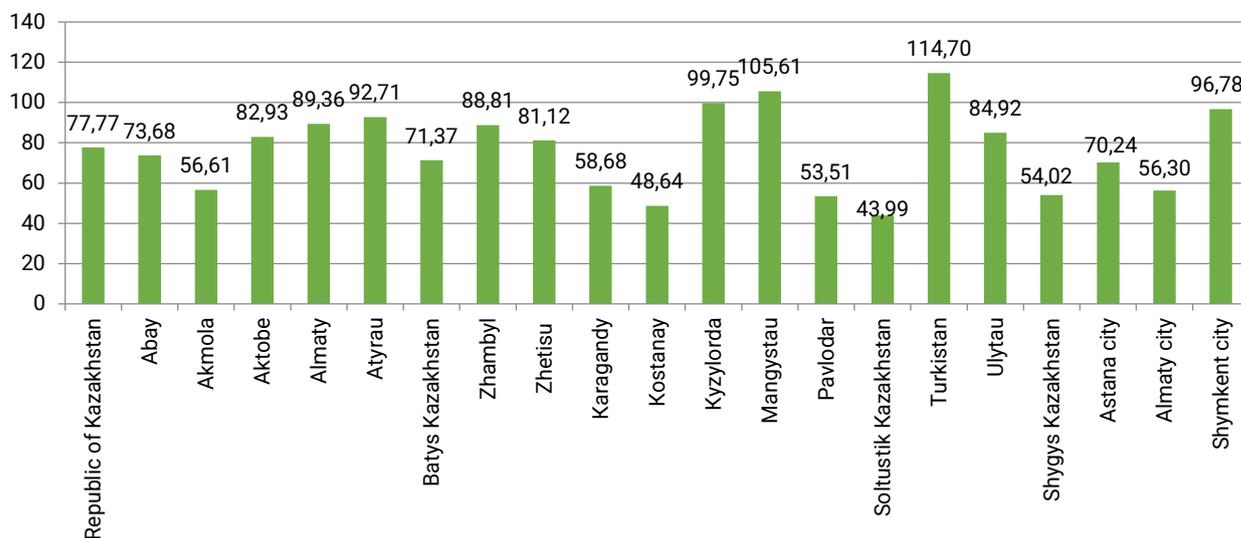
Fertility rates by age group for 2024.

per 1.000 women



Birth rates by region for women aged 15-49

per 1.000 women



The highest birth rate for women aged 15-49 was in Turkestan Region, with 114.70 births per 1,000 women, while the lowest was in North Kazakhstan Region, with 43.99 births per 1.000 women.

S.15.2 Sample error indicators/A1

Not acceptable

S.15.3 Non-sampling error

Not acceptable

S.15.3.1 Coverage error

Not acceptable

S.15.3.1.1 A2.Coverage excess-share

Not acceptable

S.15.3.1.2 A3.Total units-ratio

Not acceptable

S.15.3.3 Non-response errors

S.15.3.3.1 A4.Unit of non-response-share

Not acceptable

S.15.3.3.2 A5.Item of non-response-share

Not acceptable

S.16 Timeliness and punctuality

S.16.1 Timeliness

S.16.1.1 TP1.Waiting period-first results

The time taken to process the results, from the deadline for submission by administrative sources to publication, is 40 days. The results are published in an electronic spreadsheet. The release dates are approved and published in the Statistical Work Plan and the Schedule for the dissemination of official statistical information.

Age-specific fertility rates of the Republic of Kazakhstan are published on the 40th day after the reporting period on an annual basis.

S.16.1.2 TP2.Waiting period-latest results

The results are final

S.16.2 Punctuality

S.16.2.1 Punctuality/TP3

The data are published in accordance with the Statistical Work Plan and the Schedule for the dissemination of official statistical information, approved by the Order of the Head of the Bureau.

Actual and planned dates match, and there was no delay in publishing for 2024. The publication is postponed to the next business day if it falls on a weekend or holiday.

S.17 Comparability

S.17.1 Geographic comparability

Data are comparable between regions

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

Not acceptable

S.17.2 Duration of comparable time series/CC2

There are time series for 2000-2024. Time series are available on the Bureau's website www.stat.gov.kz in the «Main» / «Statistics» / «Social Statistics» / «Demographic Statistics» / «Dynamic Series» section.

S.18 Consistency

S.18.1 External and cross-sectional consistency

The indicator methodology complies with the United Nations «Principles and Recommendations for the Statistical Account of Natural Population Movements» (2015). This indicator is used in the calculations of the Ministry of Health, the Institute of Economic Research, and other research organizations.

S.18.2 Internal consistency

Not acceptable

S.19 Load

Birth certificates from the Registry Office of the Ministry of Justice of the Republic of Kazakhstan (hereinafter referred to as the Ministry of Justice), as well as medical birth certificates from the Registry Office of the Ministry of Health of the Republic of Kazakhstan (hereinafter referred to as the Ministry of Health), are received by the Bureau's Registry Office online. Every month, by the 10th day of the month after the reporting period, the Birth event table is downloaded from the ZAGS module of the SRN IS according to the Download Requirements. The generated Birth table is checked for format and logical controls and for the completeness of information. In case of errors or incomplete information, these records are transferred to Department of Data Quality Control and Communication Development.

After that, by the 25th day of the month following the reporting period, the completed Birth table is submitted to the Bureau's Information and Computing Center, where the data is processed and the tables are issued according to the current year's statistical work plan. The generated tables are then submitted to the Bureau for analysis, approval, and dissemination.

S.20 Revision of data

S.20.2 Revision of data /A6

Due to administrative and territorial transformations, the birth rate was recalculated from 2009 to 2022.

S.21 Processing of statistical data

S.21.1 Input data

Data from the Registry Office of the Ministry of Justice of the Republic of Kazakhstan and the Register of Births and Deaths of the Ministry of Health of the Republic of Kazakhstan.

S.21.2 Frequency of the survey

Once a year.

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

In real time through integration with administrative source information systems.

S.21.4 Reliability of the primary statistical data

Control on the completeness and quality of the formed databases.

S.21.5 Imputation - share /A7

Not acceptable

S.21.6 Adjustment

Data of birth is specified taking into account late registrations of events in civil registration offices.

S.21.6.1 Seasonal fluctuation correction

Not acceptable

S.22 Notes

Further work on ensuring data quality.