



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

Quality report

Fertility rates by age groups

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 Social and Demographic Statistics

S.1.3 Name of contact person

Uteulina Bakytkul Kenesovna

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

010000, Republic of Kazakhstan, Nur-Sultan, Left bank of the Ishim river, Mangilik el street 8, House of Ministries, entrance 4

S.1.6 E-mail address of the contact person

ba.uteulina@economy.gov.kz

S.1.7 Telephone number of the contact person

+ 7 (7172) 74 98 05

S. 2 Introduction-Relevance

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

One of the fertility indicators is fertility rates by age groups, which provide good opportunities for analyzing the state and dynamics of fertility. Fertility rates by age group make it possible to accurately express the dynamics and territorial differentiation of the intensity of births.

S.3 Updating metadata

S.3.1 Latest confirmation of updated metadata

S.3.2 Latest placement of metadata

S.3.3 Latest metadata update

S.4 Presentation of statistical information

S.4.1 Data description

Fertility rates by age group are expressed in ppm and show the number of births to women of a certain age. The lower and upper limits of reproductive age are usually taken as 15 years and 49 years. Those born to women under 15 and to women over 50 are included in these lower and upper bounds. Age coefficients are calculated using the formula:

$$\text{ASFR} = (\text{Bx} / \text{Fx}) * 1000$$

Where:

ASFR - age-specific fertility rates;

BX - the number of births to women age x;

FX - average annual number of women age x years

S.4.2 Classification system

KATO - Classifier of Administrative Territorial Objects;

SGVL - Directory of age groupings

S.4.3 Sectoral coverage

Average annual number of women, number of births by age of mother, administrative and territorial changes.

S.4.4 Statistical concepts and definitions

The significance of the calculated fertility 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 is necessary for demographic research purposes, as well as for use by health, education and social policy authorities.

The reproductive period (age) is the period of time during which a woman is capable of fertility. For statistical purposes, most countries conventionally assume a period of 15-49 years. Fertility rates by age group characterize the average fertility rate in each age group in a calendar year.

Reproduction of the population is the process of continuous renewal of generations of people as a result of the interaction of fertility and mortality

S.4.5 Statistical object

Permanent residents of the Republic of Kazakhstan

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

Sample surveys are not carried out

S.4.7 Territorial coverage

Republic of Kazakhstan (14 regions, cities of republican significance and the capital)

S.4.8 Time coverage

from the year 2000

S.4.9 Base period

Corresponds to the corresponding period of the previous year

S.5 Unit of measurement

For 1000 people

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 the 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 of May 20, 2010 No. 113.
7. Rules for the provision and use for scientific purposes of databases in a de-identified form, approved by the Order of the Chairman of the Agency on Statistics of the Republic of Kazakhstan dated July 2, 2010 No. 168.
Registered in the Ministry of Justice of the Republic of Kazakhstan on August 13, 2010 No. 6388.
8. Methodological regulation on statistics, Astana 2018. Fourth edition, supplemented. Ministry of National Economy of the Republic of Kazakhstan
Bureau of national statistics

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 - 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 31 October 2016 No. 252 defines the goals, objectives, guidelines and practices in the field of 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 Privacy - data handling

The rules for the provision and use for scientific purposes of databases in a de-identified form, approved by the Order of the Chairman of the Agency on Statistics of the Republic of Kazakhstan dated July 2, 2010 No. 168. Registered in 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 www.stat.gov.kz in the section "Home" // "Basic documents".

S.9.2 Access to the Graph

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 User access

Bureau of national statistics website www.stat.gov.kz Official statistics - By industry - Demographic statistics - Statistics - Express information - Fertility rates by age groups

S.10 Propagation frequency

year

S.11 Dissemination format, accessibility and clarity

S.11.1 News publications

Press releases are not published

S.11.2 Publications

The publication is posted on the Bureau of national statistics website www.stat.gov.kz (periodicity - annual) Official statistics:

- By industry - Demographic statistics - Statistics - Express information - Fertility rates by age group;
- - Publications - Statistical compilations - Demographic yearbook of Kazakhstan;
- - Publications - Statistical compilations - Youth of Kazakhstan;
- - Publications - Statistical compilations - Children of Kazakhstan.

S.11.3 Databases in on-line mode

Information and analytical system "Taldau" - Demographic statistics - Vital movement of the population - Fertility - Fertility rates by age group

S.11.3.1 AC1. Data tables-consultation

Not implemented

S.11.4 Microdata access

The rules for the provision and use for scientific purposes of databases in a de-identified form, approved by the Order of the Chairman of the Agency on Statistics of the Republic of Kazakhstan dated July 2, 2010 No. 168. Registered in 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

Bureau of national statistics website www.stat.gov.kz Official statistics - By industry - Demographic statistics - Methodology:
 - Methodology for calculating fertility rates, 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 July 29, 2019 No. 3. Registered with the Ministry of Justice of the Republic of Kazakhstan on August 5, 2019 No. 19190.

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 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 March 30, 2015 No. 53;
5. Methodology for assessing the quality 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 dated May 23, 2018 No. 63

S.13 Quality management

S.13.1 Quality assurance

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

- compliance with the basic principles of primary accounting;
- at the stages of primary data processing, all control schemes (format-logical, arithmetic) have been developed and implemented.

S.13.2 Quality control

Not produced

S.14 Relevance

S.14.1 Needs

Information users: International organizations Statistical Committee of the Commonwealth of Independent States, European Economic Commission, Ministry of Health, and other state bodies of the Republic of Kazakhstan, individuals and legal entities.

S.14.2 User satisfaction

The Committee 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

not applicable

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

S.15.1 Overall accuracy

Not applicable

S.15.2 Sample errors - indicators / A1.

Not applicable

S.15.3 Non-sampling error

Not applicable

S.15.3.1 Coverage error

Not applicable

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 time taken to process the first results, from the deadline for submission by administrative sources to the first publication, is 50 days. The first results are published in express information and are final. The release dates were approved and published in the Statistical Work Plan and the Schedule for the Dissemination of 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

Express information is published in accordance with the Statistical Work Plan approved in accordance with the procedure established by the legislation of the Republic of Kazakhstan and the Schedule for the dissemination of official statistical information, approved by the order of the Chairman of the Bureau of national statistics. Actual and planned dates coincide, there is no disruption to the publication date of Express Information for 2018. The publication deadline is postponed to the next business day if the publication deadline falls on weekends or holidays.

The publication date of the collection "Demographic Yearbook of Kazakhstan" for 2018 in connection with the detection of errors in the data received from the Information and Computing Center was moved by 23 days (Memo # 36-7-23 / 289 of 09/30/2019).

S.17 Comparability

S.17.1 Geographic comparability

Within the territory of the Republic of Kazakhstan

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

Absent

S.17.2 Length of comparable time series / CC2

The dynamic range of fertility rates by age group has been comparable and continuous since 2000. This time series is placed in the Information and Analytical System "Taldau" -Demographic statistics - Fertility rates by age groups

S.18 Consistency

S.18.1 Consistency, external, cross

The methodology for the indicator is in line with the United Nations Principles and Recommendations for Vital Statistics (2015). This indicator is used in their calculations by the Ministry of Health, the Institute for Economic Research, and other research organizations.

S.18.2 Internal consistency

Not

S.19 Load

Local executive bodies of cities, districts (including districts in cities of regional and republican significance) that carry out state registration of birth certificates (hereinafter referred to as registration bodies), no later than the 6th day following the reporting month, send second copies to the city (district) statistics departments records of birth certificates according to the accompanying list of registration of birth certificates, which indicates the number of submitted acts. Inventories are drawn up in two copies, one of which remains with the registering authorities, the second is sent to the territorial statistical offices. District and city departments of statistics, in turn, check the correctness of filling out the acts, in case of errors or incompleteness of information, they are returned for replenishment. Then the birth certificates and medical birth certificates are transferred to the regional departments of statistics, where the data is encoded according to normative and reference information, entered into an electronic database, and checked for logical and arithmetic control. After that, the generated birth database is transferred to the Information and Computing Center of the Committee, where logical and arithmetic control is carried out at the republican level, editing, processing of data and the release of tables in accordance with the plan of statistical work for the current year. Then the generated tables are transferred to the Bureau of national statistics, where the analysis, approval and dissemination of information is carried out.

S.20 Revision of data

S.20.2 Revision of data / A6

Data for 2018 has not been revised.

S.21 Processing of statistical data

S.21.1 Input data

The source of birth rate data is administrative data received by the territorial bodies of the Committee from local executive bodies.

S.21.2 Inspection frequency

year

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

Registration records of the birth of civil registry offices

S.21.4 Reliability of primary statistics

To check the reliability of primary statistical data, format-logical controls are provided. Data analysis is in progress.

S.21.5 Imputation - share / A7

Not applicable

S.21.6 Correction

Not applicable

S.21.6.1 Seasonal adjustment

Not implemented

S.22 Notes

Continue work on data quality assurance