

ABSTRACTS

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STATISTICS AND SOCIETY

N. Dmitrieva, M. Balakhnev «Question of statistical literacy of population of the Russian Federation»

Keywords: statistical literacy, state statistics, concept of improving statistical literacy of the Russian population, promoting activities of statistical bodies.

Key issues and possible ways for improving statistical literacy of the Russian population are developed in this article. The authors touch upon topical issues such as the necessity to promote activities of statistical bodies, government-wide concept for raising general education levels of broad layers of the population in the sphere of economy and statistics within the modernization and globalization of economy. Concrete steps in this direction are suggested.

E. Kuznetsova, A. Maslyanenko, N. Pashintseva «Use of modern communication channels - a way for improving statistical literacy of the society»

Keywords: statistical literacy of population, Fundamental Principles of Official Statistics, Information and Communication Technologies (ICT), ways to disseminate statistical information, innovation instruments for dissemination of statistical information, web sites of national statistical offices.

Authors analyze improvement issues and challenges of statistical literacy of society based on the use of modern communication channels in terms of necessity for increase public confidence in statistics. Priorities for statistical information dissemination are emphasized, experience of foreign statistical offices in implementation of innovation instruments and most recent means for dissemination of statistical information is analyzed. Eurostat analysis results for web sites of several national statistical offices are commented on.

QUESTIONS OF METHODOLOGY

Generalization of international experience on building a system of social indicators of living conditions (materials of the Interstate Statistical Committee of the Commonwealth of Independent States)

Keywords: living conditions of population, system of social indicators, dwelling and living conditions, material living conditions, subjective estimation of population, material deprivation, evaluation of public health and access to health services and education.

This material, summarizing international experience on the improvement of living conditions statistics, is designed to further the development of common methodological approaches to the formation of a unified system of indicators that enables a cross-country comparisons on living conditions of population. Main research directions concerning living conditions of population are developed. Possibilities of statistical evaluation of dwelling and living conditions, material living conditions (methods based on population subjective estimation of material deprivations), health and accessibility of health services and education are being thoroughly considered.

A. Dumnov, V. Rodin «Statistics of pollution, state and protection of atmospheric air in Russia: a brief overview and comprehensive analysis»

Keywords: atmospheric air (air), pollution, emissions of harmful substances, sources of pollution, expenditures on atmospheric air protection, pollution charges.

Origin and development of the information support for atmospheric air protection activities in the Russian Federation (first of all, statistical work genesis) are examined in this article. Information flows in authorities of sanitary supervision and monitoring of the state of the air in cities are analyzed. Comprehensive analysis of statistical data, characterizing atmospheric pollution from various anthropogenic sources and actions on air protection is carried out. The data is presented in a long-term retrospective.

REGIONAL STATISTICS

M. Polikarpova «Economic-and-statistical analysis of innovation-and-technological and integration activities in regions of the Russian Federation»

Keywords: hierarchical system, innovation, integral indicator, region, mergers and acquisitions, typological groups (units).

Issues concerning level estimates of innovation-and-technological and integration activities in regions of the Russian Federation are considered in this article. Methodical approach to level estimates of integral and innovation activities on the basis of objectivistic approach of integral synthetic categories is suggested and substantiated. The introduced analysis makes it is possible to array regions of the Russian Federation in typological groups (units) for federal and regional economic policy-making.

A. Ageenko, S. Yurkevich «Investment activity of the key companies of the Omsk region, during the crisis and post-crisis periods»

Keywords: trends of investment activity, investments in fixed capital, factors of internal and external environment, renewal of fixed assets, use of production capacities, sources of financing, foreign investments.

Trends, characterizing investment activities of companies, playing key role in the economy during the crisis of 2008-2009, and post-crisis recovering of the economy, are considered. Internal and external environment factors, identifying the dynamics of investments in fixed capital are analyzed. Impact that fixed assets state of repair and use of production capacities have on economic units' investment activity is estimated. Data on profit use and amortization on real investments is presented.

E. Artem'eva, E. Shiripova «Statistical analysis of population morbidity rate by socially significant pathologies (case study: Republic of Mordovia)»

Keywords: morbidity rate, socially significant pathologies, cardiovascular diseases, malignant neoplasms, tuberculosis, diabetes, cluster analysis.

This article is dedicated to morbidity rate of population by socially significant pathologies in the Republic of Mordovia in 2000-2010. Special emphasis is given to the analysis of the following diseases: cardiovascular diseases, malignant neoplasms, tuberculosis, diabetes. Comparative analysis of the morbidity of the population by socially significant pathologies broken down by regions of the Privolzhsky (Volga) federal district is carried out, along with regions' clusterization by a list of morbidity rate characteristics. Statutes and regulations containing measures on decreasing the level of socially significant pathologies among population are analyzed.

IMPLEMENTATION OF MATHEMATIC AND STATISTICAL METHODS

V. Motorin «Analytical and computational properties of the proportional Denton method»

Keywords: high-frequency and low-frequency macroeconomic data, quarterly national accounts, benchmarking of macroeconomic data, movement preservation principle, proportional Denton method, analytical solution of optimization problem, Lagrange multipliers method, computational efficiency.

The article presents a unified analytical solution for combining high-frequency and annual (more accurate and reliable) macroeconomic data by the proportional Denton method with parametrical dependence on benchmarking initial condition in evident form. This solution demonstrates high computational efficiency for handling of quarterly, monthly or more frequent data in the time-series framework. Some provisional recommendations for its use in the statistical practice are made.

V. Shabanov «Living standard and way of life of the rural population: transformation estimation on the basis of consumption structure analysis»

Keywords: living standards, final consumption expenditures, food expenditures, Engel's law, income in kind, private subsidiary farms, rural way of life.

The paper presents an approach to mathematical formalization of Engel's law which is based on comparative analysis of food and final expenditures dynamics. It is used to derive the living standard indicator as well as the one measuring the degree of transformation of the rural way of life. Dynamics of these indicators for 1997-2009 for the Russian Federation is analyzed by employing statistics of the budget surveys conducted by Rosstat. Rosstat's time budgets statistics for 2008 was used to compare the basic features of the way of life of the rural and urban population of the Russian Federation.

A. Orlov «Algorithm for decomposition of complete increase between factors»

Keywords: algorithm, sedate method, remaining member, additional increase.

An algorithm on the basis of the non-standard analysis, that allows to sufficiently decompose remaining members (additional increase) between factors is presented. The algorithm answers the criterion of authenticity. Examples, illustrating the sedate method capacity, are considered.

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