

Statistical product - Freight transportation tariff index (railway, road, air and pipeline transportation)/
Freight transportation tariff index (monthly, quarterly and annual)

Processes	Sub-processes	Sub-process description
<i>Specify needs</i>		
	1.1 Determination of needs	Taking into account the need of calculation of freight transportation tariff index by Armstat, calculation of freight transportation tariff index is carried out since 1997, according to different types of transportation.
	1.2 Consulting & confirmation of needs	<p>The relevant experts of the Armenian branch of the Tetra Tech Inc. company have carried out consultations within the frameworks of USAID (EC-LEDS) Program on “Enhancing Capacity for Low-Carbon Development Strategies” related to the necessity to include the new indicator in the statistical reporting form.</p> <p>Necessary consultations and workshops have been conducted within the framework of tripartite Memorandum of Understanding signed on 02 July 2013 between the European Union's Technical Assistance Program “INOGATE”, the Statistical Committee and the Ministry of Ministry of Territorial Administration and Infrastructure.</p> <p>Work discussions were held with the representatives of following companies providing statistical information: “CJSC Yerevan Subway”, “CJSC Electric Transport of Yerevan” and other interested organizations in order to give clarifications related to the collection of information.</p> <p>The data are collected based on the Law on "Official Statistics" and “Five Year Statistical Program”, as well as the Resolution No. 05-N of RA State Council on Statistics “On Approval of the Procedure for the collection of statistical data” dated 20 June 2016 and Resolution “On Approval of Annual Statistical Program”.</p>
	1.3 Establishment of output objectives	<p>The opinion of statistical information users related to the Five-Year and Annual Statistical Programs is periodically studied to reveal their attitude related to the inclusion of the proposed new indicator, as well as to the available indicator, the needs and expectations.</p> <p>Information users opinions on the statistical indicators are studied through the work discussions with them, as well as through the “User satisfaction survey questionnaire” which is</p>

		available on Armstat website (see: https://www.armstat.am/am/?nid=131).
	1.4 Identification of concepts	The necessity of calculating freight transportation tariff index is conditioned by the additional calculations of revenues received from freight transportation, calculation of GDP at comparable prices, as well as by analysis carried out by state and private organizations.
	1.5 Checking the data availability	Data is collected through <i>Form No 1 – Price (railway) (monthly)</i> , <i>Form No 1 – Price (road) (monthly)</i> , <i>Form No 1 – Price (civil aviation) (monthly)</i> , <i>Form No 1 – Price (pipeline) (monthly)</i> statistical reporting form, in accordance with the Five-Year and Annual Statistical Programs. Other administrative and non-statistical sources for data collection are not available.
	1.6 Preparation of business case	Before the adoption of the Statistical Reporting Form by the RA State Council on Statistics and its state registration by the Ministry of Justice as normative legal act, the working discussions related to the included indicators and the instruction of filling it in are carried out with the different interested bodies, scientific organizations, users, as well as the opinion of international experts is taken into account.
<i>Design</i>		
	2.1 Design outputs	The data are collected based on the Law on "Official Statistics" and "Five Year Statistical Program", as well as the Resolution No. 05-N of RA State Council on Statistics "On Approval of the Procedure for the collection of statistical data" dated 20 June 2016 and Resolution "On Approval of Annual Statistical Program".
	2.2 Design variable descriptions	<p>Statistical indicators on 4 types of transportation flows are collected in the following reporting forms:</p> <p>1. Railway transport flow - <i>Form No 1 – Price (railway) (monthly)</i> statistical reporting form. The freight transportation by railway transport is implemented in 3 destinations:</p> <ul style="list-style-type: none"> • freight delivery out of the republic • freight import to the republic, • inter-republican freight transportation <p>2. The information on the tariffs of freight transportation by road transport is provided through the statistical reporting <i>Form No 1- Tariff (road)(monthly)</i>. The freight transportation by road transport is implemented in the following destinations:</p>

		<ul style="list-style-type: none"> • intra-urban, • intra-marz, • inter-marz, • inter-governmental (import) • inter-state (export) <p>3. The information on the tariffs of freight transportation by air transport is provided through the statistical reporting <i>Form No 1 Tariff (civil aviation) (monthly)</i>. The survey on the air transport is carried out by the main destinations of freight flow: freight export and import to the CIS countries and the far foreign countries.</p> <p>4. The information on the tariffs of gas transportation by pipeline transport is provided through the statistical reporting Form No 1 Tariff (pipeline) (monthly).</p>
	2.3 Design data collection	Statistical data collection is carried out through the statistical reporting form approved by the RA State Council on Statistics. The collection of information is carried out by widespread observation method.
	2.4 Design of general population and sampling	<p>The design of the general population is implemented to provide complete information regarding the sphere. For this purpose the receiving of the information from all possible sources on the activity of previously known freight transportation organizations is organized that is immediately followed by the informing these organizations on being covered by the statistical observation field, then by the collection of the relevant statistical information. There is no need for sampling design.</p> <p>The organizations implementing economic activity in accordance with the section Transport and communication (part 1) of Armenian Classification of Types of Economic Activity (thereafter NACE rev.1) are selected for the calculation of freight transportation tariff index.</p> <p>The divisions 61, 63, 64 of NACE rev.1 are not included in the calculation of freight transportation tariff index due to the lack of those services.</p>
	2.5 Process and analyze design	After the collection of information the statistical indicators are subject to arithmetic and logical checks, based on them, and in case of necessity the appropriate adjustments are carried out also by contacting to the relevant organizations that provide the information. In case of submission of not reliable, incomplete or corrupted information on indicators, in case of need the process of verification is also implemented according to the requirements of the Article 169.2 of RA Code on “Administrative Offences”, as a result the prior period data are subject to be adjusted.
	2.6 Design production	The preparatory work, particularly related to the appropriate

	systems & workflow	notification of freight organizations, ensuring relevant reporting forms, etc. is carried out during all processes started from the collection of information until its publication.
<i>Build</i>		
	3.1 Build data collection instrument	The statistical reporting form needed for the collection of information and the instruction for filling it in, are available in paper and electronic form (see the link at https://www.armstat.am/am/?nid=547).
	3.2 Build or enhance process components	The guidelines and instructions necessary for information verification are available. Input software package (Microsoft Office Access) has necessary tools for arithmetic and logical checks of input data, systems for checking the sum total, logical chains, organizations' registration, identification codes and tax compliance and other automated check systems.
	3.3 Build or enhance dissemination components	The dissemination of information is possible in paper, as well as in electronic form of publication of information on monthly, quarterly and annual basis in accordance with the Annual Statistical Program.
	3.4 Regulation of processes	The derivation of statistical product is carried out by the following successive stages: <ol style="list-style-type: none"> 1. Collection of information, 2. Arithmetic and logical checks and adjustments, 3. Information input through the pre-designed input software (Microsoft Office Access), 4. Comparison of obtained summary information with the corresponding time series, 5. Dissemination of information in paper or electronic forms through the yearbooks, information reports, statistical handbooks, as well as through the official response letters to the official requests.
	3.5 Test statistical system	Due to indicators changes in the statistical reporting form the input software is regularly undergoing to relevant changes.
	3.6 Test statistical business process	In parallel with the inclusion of the indicator in the statistical reporting form, the field examination of the latter is implemented to reveal the opportunities of freight organizations to provide with the indicator, as well as to test their understanding of it.
	3.7 Finalize production system	The composition of methodological clarifications on the completion of indicators available in statistical reporting form and provision to the statistical information providers (respondents) is carried out. The consents of information providers got during the workshops on indicators are summarized.

<i>Collection</i>		
	4.1 Design general population and sampling	The information general population is formed in the result of widespread observation of information collection that includes the statistical information collected from all freight organizations.
	4.2 Set up collection	In order to organize the collection of statistical information, the formation of order on printing of relevant statistical reporting forms and in case of need of the instruction of filling them in, their printing and distribution to the relevant organizations is implemented according to the number of organizations previously known as subject to observation. At the same time the statistical reporting form and the instruction of filling it in accessible on the Armstat official website. The required network resources for the report collection in the electronic form are in place. The responsible staff of structural and territorial units has relevant knowledge and skills for the organization of the statistical information collection process.
	4.3 Run collection	Statistical data collection is carried out by the Armstat territorial units, regional departments, as well as by the relevant unit of Armstat, by hand, mail and electronic system means according to the Resolution of RA State Council on Statistics No 05-N on the “Approval of the Procedure of the collection of Statistical Data” dated 20 June 2016.
	4.4 Finalize collection	After being arithmetically and logically cross-checked, the collected information is input in the electronic environment. The information input is carried out mechanically, as well as by direct input of information in electronic environment.
<i>Process</i>		
	5.1 Integrate data	The unification of relevant data received from the Armstat marz (regional) departments in one common database is implemented, in a result of which the duplications would be excluded.
	5.2 Classify & code	The coding work by main types of organization activity is implemented in accordance with the Classification of Economic Activities (NACE, rev. 2), as well as the coding of marz and territorial units is implemented according to the pre-determined order.
	5.3 Review and approval	The cross checking of incomplete and corrupted presented data, as well as the compiling of incorrect encoded data with requirements of pre-approved classifications is implemented. In case of need the validation of relevant codes on registration in the tax bodies, identification, registration of organizations in state register is implemented using the data provided by the business register maintained by the Armstat

		and by the body of the Ministry of Justice implementing state register of legal entities being used as an administrative data source.
	5.4 Edit & input	The completion of the missing data is implemented using the data on the indicator presented for the previous period in case of the lack of the alternative information on them. The completed information in case of being available for the next periods is subject to adjustment.
	5.5 Derive new variables & units	Additional calculations and estimations for the calculation of other indicators are not available.
	5.6 Calculate weights	The revenues of freight transportation organizations received from the transport activity in the previous year are used as a weight for the calculation of freight transportation tariff index. Every year the recalculation of weights is implemented for all types of the transport.
	5.7 Calculate aggregates	The summary data by separate statistical indicators are derived based on the input data through the pre-designed software.
	5.8 Finalize data files	Often the calculation of primary indicators that are subject to further adjustment is carried out due to the necessity to obtain operative statistical data.
<i>Analyse</i>		
	6.1 Prepare draft outputs	The information on the freight transportation tariff index is used by the structural subdivisions of Armstat for the additional calculations of revenues received from freight transportation, serving as one of deflators for the calculation of GDP at comparable prices, as well as used by many state and private organizations and interested institutions to follow the economic developments and to make analysis.
	6.2 Validate outputs	The methodological requirements to the received indicators are strictly followed during the whole process of receiving according to the pre-defined classifications, methodological guidelines and the instruction on completing the statistical reporting form.
	6.3 Explanation and interpretation of outputs	The logical analysis of the received summary indicators is carried out taking into account the impact of various phenomena taking place in the economy on the given sphere.
	6.4 Apply disclosure control	The confidentiality of statistical indicators (not containing individual (personal) data) that is subject to publication, as well as requested by the users of statistical information is strictly followed according to the Law on Official Statistics and the Resolution of the SCS No 53 " Approval of the Order on Protection of Statistical Confidentiality" dated 25 June 2001, and only summarized data are provided (see: https://www.armstat.am/file/doc/99454478.pdf).
	6.5 Finalize outputs	The analysis of summary indicators on freight price summary

		indices, as well as on 4 transportation type indices separately is carried out before the dissemination of summary information.
<i>Dissemination</i>		
	7.1 Update output systems	The work on the derivation and final checking of relevant tables of statistical indicators that are subject to publication is carried out, as well as the time series update is implemented. In case of the need the changes and/ or additions are made in the concepts and methodological explanations of the relevant indicator.
	7.2 Produce dissemination	<p>All production steps for dissemination products are carried out; preparation of explanation text, tables, figures and other materials, editing of that products and their consistency to publication standards.</p> <p>The information on the statistical indicators is published in Armenian, Russian, English through the yearbooks, statistical handbooks and monthly informational reports mentioned below:</p> <ul style="list-style-type: none"> • “Statistical Yearbook of Armenia” • “Armenia in Figures”, statistics summary (annual) • “Socio Economic situation in the Republic of Armenia” statistical handbook (monthly). <p>Electronic version of the Yearbook is accessible on the official website of Armstat by the following link: http://armstat.am/am/?nid=82</p>
	7.3 Manage release of dissemination products	The dissemination of statistical information is carried out according to the schedule envisaged by the Five-Year and Annual Statistical Programs. In case of the changes and adjustments made in the indicators provided by the providers of statistical information the indicators already published by the Armstat are also being changed and adjusted correspondingly.
	7.4 Promote dissemination products	Submission of dissemination products. Use of tools to manage communication with users. Use of website, Facebook, etc.
	7.5 Manage user support	In case of the official request of the users of statistical information related to the information not being published, the calculation of additional indicators is carried out at possible extend and submitted to them following the principle of confidentiality of statistical information.
<i>Evaluation</i>		

	8.1 Gather evaluation input	The collection of information received from the same source and/ or from the administrative register on relevant organizations is carried out in case of need with the purpose to make comparisons.
	8.2 Conduct evaluation	The comparisons of data on the same organizations received by the same source included in the different reporting forms are implemented from the point of view of the quality management of statistical indicators. The relevant information provided by administrative registers, such as the body of state registration of legal entities of the RA Ministry of Justice and/or the Ministry of Finance serves as informational basis for the assessment of information quality.
	8.3 Agree action plan	In the case of detection of discrepancies between the information received from different sources on the same indicator being compared, the revealing of the possible reasons is carried out, and the corresponding final adjustment is implemented based on it.