

Statistical product – Industrial (non- general use) railway transport (annual)

Processes	Sub-processes	Sub-process description
1.Specify needs		
	1.1 Identify needs	Regular changes are carried out in the statistical reporting form based on statistical information users' requirements changes.
	1.2 Consult & confirm needs	In order to provide clarifications on information collection, working discussions are held with representatives of interested organizations providing statistical data.
	1.3 Establish output objectives	The statistical information users' opinion 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 requirements and expectations. The users' opinions about statistical information are studied by business discussions as well as through the "User satisfaction survey questionnaire" which is available on Armstat website (see: https://www.armstat.am/am/?nid=131).
	1.4 Identify concepts	
	1.5 Check data availability	Data collection is carried out by the statistical reporting form according to the Annual and Five –Year Statistical programs. There aren't administrative and non-administrative sources for the data collection.
	1.6 Prepare business case	Before the approval of the statistical report form by the State Statistics of the Council and its state registration by the Ministry of Justice, as a legal act, it is carried out discussions with different institutions, research organizations, and users as well as the international experts' opinion is taken into account.

2.Design		
	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", as well as the Resolution No. 63-N of RA State Council on Statistics dated 12 November 2018 "on operation of industrial railway transport" and the instruction of filling in it.
	2.2 Design variable descriptions	<p>A statistical reporting form has been approved for the collection of statistical indicators (annually), which includes 20 statistical indicators.</p> <p>For the collection of indicators is used the Classification of Types of Economic Activity is used for the collection of indicators (Order of the Minister of Economy of RA N-1579 RA, OB 04.11.2013 30/(474)1, dated 10 December 2019) (NACE Rev.2) (see: https://www.armstat.am/am/?nid=370). .</p>
	2.3. Design collection	Statistical data collection is carried out through the statistical reporting form, approved by the State Council on Statistics. Data is collected through the widespread observation method.
	2.4 Design frame and sample	The design of the general population is implemented to provide complete information regarding the sphere. For this purpose, the receiving of information from all possible sources on the fact of activity of industrial railway transport organizations previously known is implemented and immediately, organization is notified about being involved in the statistical observation field and then the relevant statistical information is collected.
	2.5 Design processing and analysis	After the collection of information the statistical indicators are subject to arithmetical and logical checks, and in case of necessity the appropriate adjustments are carried out also by contacting 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 systems and workflow	The preparatory work is carried out for all processes from the collection of information and until its publication, particularly, related to the appropriate notification of respondents, the training of the staff through professional courses and etc.
3.Build		
	3.1 Build collection instrument	The statistical reporting form needed for the collection of data and the instruction for filling it in, are available in paper and electronic version (see link: https://www.armstat.am/am/?nid=547).
	3.2 Build or enhance process components	The methodological guidelines and instructions necessary for information calculation and verification of needed information are available. Input software (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 checks 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 Configure workflows	The derivation of statistical product is carried out by the following successive stages: <ol style="list-style-type: none"> 1. collection of information, 2. arithmetical and logical checks and adjustments, 3. information input through the pre designed input software (Microsoft Office Access software), 4. comparison of obtained summary data 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 upon the official requests.
	3.5 Test production system	Due to indicators changes in the statistical reporting form the input software is regularly undergoing to relevant changes. The testing of software is also carried out in case of need.
	3.6 Test statistical business production	In parallel with the inclusion of the indicators in the statistical reporting form, the field examination of the latter is implemented to reveal the opportunities of the respondents to provide with the indicators, 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 on indicators got during the workshops are summarized.
4.Collection		
	4.1 Create frame and select sample	The information general population is formed in the result of widespread observation of information collection (administrative register) that includes the statistical data collected from the organization dealing with industrial railway transport activity.
	4.2. Set up collection	In order to organize the collection of statistical data, the formation of order on printing of relevant statistical reporting form and in case of need of the instruction of filling in it, 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 forms and the instruction of filling them are 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 data collection process.
	4.3 Run collection	Statistical data collection is carried out by the Armstat territorial units, relevant units of regional departments 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	The collected information, after being arithmetically and logically cross checked, is input in the electronic environment. The information input is carried out automated, as well as by direct input of information in electronic environment.
5.Process		
	5.1 Integrate data	The unification of relevant data received from the Armstat Yerevan and marz (regional) departments in one common database is implemented, in a result of which the duplications would be excluded.
	5.2 Classify and code	The coding process by the main type of activity of the organization according to the classification of economic activities (NACE Rev. 2), as well as the encoding of marz and territorial units in accordance with a predetermined order are implemented.
	5.3.Review and validate	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 the 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 RA Ministry of Justice implementing state register of legal entities being used as an administrative data source.
	5.4 Edit and impute	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 data in case of being available for the next periods is subject to adjustment.
	5.5 Derive new variables and units	Additional calculations and estimations for the calculation of other indicators are not available.
	5.6 Calculate weights	As the information provided by the organization dealing with industrial railway transport activity ensures the statistical integrity of the sphere thus there is no need for additional weights calculation.
	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 done due to the necessity to obtain operative statistical data. The first published data is classified as preliminary.
6. Analysis		
	6.1. Prepare draft outputs	The creation of indicator groups, as well as time series of statistical indicators is implemented based on obtained statistical summary data. In particular, the main indicators of industrial rail transport are: (freight transportation (ton), freight turnover (thousand tons / km), number of own trains and wagons, length of own railway lines. The calculated indices are used to create the time series.
	6.2 Validate outputs	The methodological requirements to the received indicators are strictly followed during the whole process of indicators receiving according to the pre-defined classifications, methodological guidelines and the instruction on completing the statistical reporting form.
	6.3 Interpret and explain 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	The confidentiality of statistical indicators (not containing

	control	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	Before the dissemination of summary information, it is conducted an analysis of the summary indicators of the industrial railway transport by time series, as well as the relevant indicators are compared with other types of formation sources.
7. Dissemination		
	7.1 Update output system	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 products	All the production steps are implemented for the disseminating products: preparation of explanatory text, tables, charts and other materials, editing of these products and making them compliant with publishing standards. The information on the statistical indicators is published in electronic versions in Armenian, Russian, English through the yearbooks, statistical handbooks. <ul style="list-style-type: none"> • Statistical Yearbook of Armenia • RA transport and communication (each five years one time) The electronic version of the yearbook is available on Armstat website : http://armstat.am/am/?nid=45 Publications http://armstat.am/am/?nid=82
	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	Various information presented on the Armstat official website (indicators, metadata, notifications, news about the sphere, micro-data, etc.) is not only a statistical tool, but also dissemination tool of information on the Armstat activity, which promotes the effectiveness of the sector's activities.
	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.
8.Evaluation		
	8.1 Gather evaluation input	The collection of data received from the same source and/ or from the administrative register on relevant organizations is carried out for the purpose of comparison.
	8.2 Conduct evaluation	The relevant information provided by administrative registers, such as the state registration agency of legal entities of the RA Ministry of Justice and / or the Ministry of Finance serves as informational basis for the evaluation of information quality.
	8.3 Agree an action plan	