

Quality declaration – **Water Accounts**

0 General information on statistical product		
0.1	Name	Water Accounts
0.2	Subject area	Environment
0.3	Responsible Authority, Office, Person, etc.	Ms. Anna Hakobyan Head Nature Protection Division Armstat 3 Government House, Republic Avenue, Yerevan 0010, the Republic of Armenia Phone: +374 11 524 620 Email: <a href="mailto:eco@armstat.am">eco@armstat.am</a> , <a href="mailto:info@armstat.am">info@armstat.am</a>
0.4	Purpose and History	<p>The main purposes of compiling water statistics and water accounts are to identify social, economic or environmental burdens, to control relevant policies and to promote comprehensive environmental accounting as a key component of environmental assessment and policy support, as well as to provide annual information on the assessment of the current status of water accounts.</p> <p>In August 2015 two-year EU Twinning program in statistics was launched. The beneficiary of the program was the Statistical Committee of the Republic of Armenia (Armstat) and the implementing partner was Statistics Denmark.</p> <p>The objective of the program was to support the modernization of official statistics of Armenia, introducing new statistical methodologies aligned with EU standards and strengthening dissemination of official statistics within the public.</p> <p>The program was consisted of six components, the sixth of which was on «Water Accounts», within the framework of which, the assessment of the current status of water statistics in Armenia was carried out by Italian experts, the report "Development of a system of satellite water accounts in Armenia" was developed based on the Environmental and Economic Accounts System (ACIS) adopted by the United Nations and Water accounts methodologies.</p> <p>The experts presented a list a list of key water resources activities, differentiating water data requirements between national and international level. Water statistics and water</p>

		accounts are part of an integrated program, where water statistics provide a catalogue of water-related characteristics and indicators, and water accounts measure the interactions of hydrological systems and economy. The European Strategy on Environmental Accounts (ECAP) approved in 2003 and revised in 2008 proposes to consider water supply and water use accounts as a priority area for development.
0.5	Users and Application	<p>The main users of statistical data are state governmental and local self-governmental bodies, public, scientific-educational, financial organizations, business community, mass media, international organizations, etc.</p> <p>The data on the assessment of the current status of water statistics and water accounts are used for the processing of strategies in the field of nature protection, tactical problem solving, business environment analysis, development trends discovery and other purposes.</p>
0.6	Information Sources	<p>The time series of tables of physical water flows are filled in by the water intake, water use and drainage available in the database of the Armstat, as well as on the basis of annual summary statistical data on the volume of water discharged to users through the centralized water supply system of the communities of the republic, losses and sewerage (see. <a href="http://armstatbank.am/pxweb/hy/ArmStatBank/?rxid=002cc9e9-1bc8-4ae6-aaa3-40c0e377450a">http://armstatbank.am/pxweb/hy/ArmStatBank/?rxid=002cc9e9-1bc8-4ae6-aaa3-40c0e377450a</a>;</p> <p>Natural resources and environment in the Republic of Armenia (annual) <a href="http://www.armstat.am/am/?nid=82&amp;id=1967">http://www.armstat.am/am/?nid=82&amp;id=1967</a> and «Housing resources and public utility in the RA» <a href="https://armstat.am/am/?nid=82&amp;id=2201">https://armstat.am/am/?nid=82&amp;id=2201</a> annual statistical handbook).</p> <p>The production-expenditure GDP from the National Accounts of Armenia in accordance with the National Classifications System (SNA-2008) basic classifications, definitions and concepts, as well as other methodological foundations is used for the calculation of indicators.</p>
0.7	Legal Authority to Collect Data	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".

		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.
0.8	Response Burden (Primary information providers)	Response burden not estimated.
<b>1 Content</b>		
1.1	Description of content	<p>The data of the Armstat were used for the physical flows of water, which are included in the UN Statistical Office, Environmental Programs, Economic Cooperation and Development, and in the tables of Eurostat single Inland Waters Questionnaire. Data for 2012-2015 have been used, as the necessary macro indicators were available for those years. The indicators reflected in them are:</p> <ul style="list-style-type: none"> <li>• Renewable freshwater resources,</li> <li>• Annual freshwater intake by source and by sector,</li> <li>• Water use by water supply sources and by types of economic activity,</li> <li>• Serviced population by wastewater treatment plants,</li> <li>• Sewage sludge formation and removal (in dry matter),</li> <li>• Generation and disposal of sewage</li> </ul> <p>Economic water accounts include expenditures on intermediate consumption and use, income of household and industrial water supply, and sewage treatment. In addition to these indicators, capital repairs of capital assets and current environmental costs are also included.</p>
1.2	Statistical concepts	<p><b>Water Accounts</b></p> <p>Water accounts generally have two components: water resources, physical water supply and use tables. According to the SEEA framework, water resources are:</p> <ul style="list-style-type: none"> <li>• Surface water (artificial reservoirs, lakes, rivers, snow and ice)</li> <li>• Groundwater</li> <li>• Precipitation</li> <li>• The waters entering and leaving from the territory of the neighboring country</li> <li>• Evaporation</li> </ul>

		<ul style="list-style-type: none"> <li>• Actual evaporation through plants</li> <li>• Water intake and drainage (by the economic entity).</li> </ul> <p>As some of the above indicators are published by Armstat, Water accounts include only physical water supply and use tables, which cover:</p> <ul style="list-style-type: none"> <li>• organizations, households, individuals who use water directly from surface and groundwater sources for their direct use (for example, at home, industry, agriculture or other purposes);</li> <li>• water suppliers who draw water from surface groundwater, prepare it and provide it to users for further use (irrigation, fish farming).</li> <li>• other large organizations that take water directly from the water source and return it completely to the water source after use (for example, mining).</li> </ul> <p>Water intake by hydropower plants is not calculated according to the methodology of the concept of the environmental-economic system of water accounts, but the volume of water supplied to other organizations for irrigation or fish farming purposes is included.</p> <ul style="list-style-type: none"> <li>• Physical flows of water use and water supply</li> <li>• Water intake from surface and groundwater sources for own use or distribution</li> <li>• Matrix of water use and physical flows of water supply within the economy</li> <li>• Hybrid table of water supply</li> <li>• Hybrid table of water supply</li> </ul> <p>Economic accounts of water include expenditures on intermediate consumption and use, income from household and industrial water supply, and wastewater treatment.</p> <p><b>Geographical coverage</b> It covers all marzes of the Republic of Armenia and the Yerevan city.</p> <p><b>Publication groupings</b> Water accounts are published according to the summary</p>
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		information of the Republic of Armenia. The coding work is carried out for the marz and territorial units in accordance with a predetermined order, the large water intake organizations of 01 and 36 sectors of main types of economic activities (NACE Rev.2) in Armenian market are targeted.
<b>2 Time</b>		
2.1	Reference period	Annual
2.2	Date of publication	Annual indicators are published in the 4 <sup>th</sup> quarter of the year following the reference period.
2.3	Punctuality	Data are published according to schedule of annual programs publication and no delays from defined deadlines have been recorded.
2.4	Frequency	Annual
<b>3 Accuracy</b>		
3.1	Overall Accuracy	The adjustment of statistical data and the structure of published indicators (publications formats, output tables etc.) works are carried out. The final data is published in Armstatbank.am. The methodological guidelines and instructions necessary for information calculation and verification of needed information are available. Input software has necessary tools for arithmetic and logical checks of input data.
3.2	Sources of Inaccuracy	The source of inaccuracy can be the own water intake carried out by households. A calculation approach is used for this indicator according to the methodology.
3.3	Measures on accuracy/ Measurability	The accuracy of the data provided by the organizations on the reporting year during the reporting period of the current year is carried out by comparing it with the corresponding data of the previous year.
<b>4 Comparability</b>		
4.1	Comparability over Time	The final tables are presented in annual publications and in the database by years, where it is possible to follow the abrupt changes in the dynamic series of the indicator and to find the connection with the change of other indicators.

4.2	Comparability with Other Statistics	The main indicators of water accounts are not comparable with other statistics.
4.3	Coherence between Provisional and Final Statistics	Only final data are published.
<b>5 Accessibility</b>		
5.1	Forms of Dissemination	<p>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.</p> <p>The information on the statistical indicators is published electronic versions in the "Compliance of Satellite Water Accounts in Armenia System Development" report.</p> <p>"Environmental Statistics of Armenia and Time-Series of Indicators" annual statistical bulletin (Armenian and English).</p> <p><b>Database</b></p> <p><a href="http://armstatbank.am/pxweb/hy/ArmStatBank/?rxid=602c2fcf-531f-4ed9-b9ad-42a1c546a1b6">http://armstatbank.am/pxweb/hy/ArmStatBank/?rxid=602c2fcf-531f-4ed9-b9ad-42a1c546a1b6</a></p> <p><b>Website</b></p> <p>Electronic versions of the publications are available in Armenian, Russian and English at the following address:  <a href="https://www.armstat.am/am/?nid=82">https://www.armstat.am/am/?nid=82</a></p>
5.2	Basic material: Storage and Usability	The statistical reports collected from respondents are kept both in paper and electronic forms, which are archived.
5.3	Documentation	Information is available under the General Statistical Business-Process Model at <a href="https://www.armstat.am/eng/?nid=373">https://www.armstat.am/eng/?nid=373</a> .
5.4	Other information	-
<b>6 Supplementary documentation</b>		
		No supplementary documentation is available.