

**Statistical product– Sown areas under agricultural crops, gross harvest, yield capacity / Sown area of agricultural crops, gross yield and average crop yield (yearly), Gross Agricultural Output (monthly), Gross Yield of Agricultural Crops (monthly)**

<b>Processes</b>	<b>Sub-processes</b>	<b>Sub-process description</b>
<b>1 Specify needs</b>		
	<b>1.1 Identify needs</b>	Regular updates (additional processing, changes) of the list of indicators are carried out in the statistical reporting form based on statistical information users' requirements changes.
	<b>1.2 Consult &amp; confirm needs</b>	Working discussions were held with the statistical information providers (rural/urban communities and representatives of commercial organizations engaged in agriculture), as well as with the experts from the RA Ministry of Economy that is the main information user.
	<b>1.3 Establish output objectives</b>	The statistical information users' opinion related to the inclusion of new proposed indicator, as well as to the available indicator to reveal their attitude the requirements and expectations is periodically studied by phone calls and through the "User satisfaction survey questionnaire" which is available on Armstat website (see: <a href="https://www.armstat.am/am/?nid=131">https://www.armstat.am/am/?nid=131</a> ).
	<b>1.4 Identify concepts</b>	
	<b>1.5 Check data availability</b>	Data on sown area of agricultural crops, gross yield and average crop yield is collected by the widespread observation and sampling method (12090 peasant farms under sample survey). The accuracy of the data presented is verified comparing with the crop yield, gross harvest and average crop yield of each crop's previous year's indicators, as well as with the relevant indices from 12090 farms included in the agricultural statistics sample survey field.
	<b>1.6 Prepare business</b>	Before the approval of the statistical report form by the

	<b>case</b>	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.
<b>2.Design</b>		
	<b>2.1 Design outputs</b>	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 Resolutions on approval of statistical reporting forms and summary reporting forms dated 30 November 2018, Resolutions No 73-N and 74-N, 25 January, 2019 Resolutions No 01-N and 02-N, 20 March, 2019 Resolutions No 24-N and 25-N and Resolutions No 35-N, 36-N, 37-N 38 dated July 12, 2019. Data collection on the crop production sphere (from 12090 peasant farms under covered by the statistical sample observation field osurvey) is implemented by two questionnaires approved by the Resolution No. 68-N of RA State Council on Statistics dated 31 October 2014 and the Resolution No. 22-N of RA State Council on Statistics dated 20 July .
	<b>2.2 Design variable descriptions</b>	For the collection of the statistical indicators, the statistical reporting and the summary reporting form are: <ul style="list-style-type: none"> <li>• 4 monthly forms, 2 of them consist of 24 and 2 others consist of 23 statistical indicators</li> <li>• 6 yearly forms, 2 of them consist of 231 and 154 and 4 others consists of 657 statistical indicators each one.</li> </ul>
	<b>2.3. Design collection</b>	Statistical data is collected through the statistical reporting forms and summary reporting forms, as well as through the questionnaires approved by the RA State Council on Statistics. Data collection is carried out from rural and urban communities and commercial enterprises engaged in agriculture, as well as 12090 peasant farms included in sample observation field of the

		agricultural statistics.
	<b>2.4 Design frame and sample</b>	The design of the general population is implemented to provide complete information regarding the crop production sphere. The information is provided by rural municipalities, municipalities, legal persons, institutions and private entrepreneurs. The received information is summarized in the marz and Yerevan level. The inclusion of economic entities and the mandatory provision of statistical information are fixed in the legal documents regulating the statistical field.
	<b>2.5 Design processing and analysis</b>	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 (organization, community leader etc.) that provide the information. The accuracy of the data presented is verified comparing with the crop yield, gross harvest and average crop yield of each crop's previous year's indicators, as well as with the relevant indices received by marzes from 12090 farms included in the agricultural statistics sample survey field.
	<b>2.6 Design production systems and workflow</b>	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.
<b>3.Build</b>		
	<b>3.1 Build collection instrument</b>	Statistical reporting and summary reporting forms and questionnaires, the instruction for filling them that are needed for the data collection are available in paper and electronic form (see link <a href="https://www.armstat.am/am/?nid=547">https://www.armstat.am/am/?nid=547</a> ).
	<b>3.2 Build or enhance process components</b>	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. The first published data is qualified as preliminary. Changes in published data are accompanied by explanatory notes.

		Preliminary data are reviewed based on adjustments and other adjustments made by economic entities. The final data is presented in annual publications.
	<b>3.3 Build or enhance dissemination components</b>	The dissemination of information is possible in paper, as well as in electronic form of publication of information on monthly and annual basis.
	<b>3.4 Configure workflows</b>	The derivation of statistical product is carried out by the following successive stages: <ol style="list-style-type: none"> <li>1. collection of data,</li> <li>2. arithmetic and logical checks and adjustments,</li> <li>3. Data input through the pre designed input software (Microsoft Office Access software),</li> <li>4. comparison of obtained summary data with the corresponding time series,</li> <li>5. dissemination of data in paper, as well as in electronic versions.</li> </ol>
	<b>3.5 Test production system</b>	Due to indicators changes in the statistical reporting forms, summary reporting forms and questionnaires the input software is regularly undergoing to relevant changes. The testing of software is also carried out in case of need.
	<b>3.6 Test statistical business production</b>	In parallel with the inclusion of the indicator in the statistical reporting forms and summary reporting forms, the field examination of the latter is implemented to reveal the opportunities of the respondents to provide with the indicator, as well as to test their understanding of it.
	<b>3.7 Finalize production system</b>	The composition of methodological clarifications on the completion of indicators available in statistical reporting and summary reporting forms as well as the provision to the statistical data providers (respondents) is carried out, at the same time, maintaining verbal and e-mail contacts with the experts.
<b>4.Collection</b>		

	<b>4.1 Create frame and select sample</b>	The data information general population is formed in the result of widespread observation of data collection that includes the statistical data collected from rural and urban communities and from organizations dealing with crop production.
	<b>4.2. Set up collection</b>	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.
	<b>4.3 Run collection</b>	Statistical data collection is carried out by the Armstat 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.
	<b>4.4 Finalize collection</b>	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.
<i>5.Process</i>		
	<b>5.1 Integrate data</b>	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.
	<b>5.2 Classify and code</b>	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

		is implemented.
	<b>5.3.Review and validate</b>	The checking of provided incomplete or corrupted information is carried out, the indicators are subject to arithmetical and logical checks, based on them and in case of need, through the contact with information providers (organization, community head, etc.) the appropriate adjustments are carried out. The accuracy of the data presented is verified comparing with the crop yield, gross harvest and average crop yield of each crop's previous year's indicators, as well as with the relevant indices from 12090 farms included in the agricultural statistics sample survey field.
	<b>5.4 Edit and impute</b>	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.
	<b>5.5 Derive new variables and units</b>	Additional calculations and estimations for the calculation of other indicators are not available.
	<b>5.6 Calculate weights</b>	As the information provided by the organization dealing with crop production activity ensures the statistical integrity of the sphere thus there is no need for additional weights calculation.
	<b>5.7 Calculate aggregates</b>	The summary data by separate statistical indicators are derived based on the input data through the pre-designed software.
	<b>5.8 Finalize data files</b>	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. The changes in published data are accompanied by explanatory notes. Preliminary data are reviewed based on adjustments and other checking made by economic entities. The final data is presented in annual publications.
<b>6. Analysis</b>		

	<b>6.1. Prepare draft outputs</b>	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 the sown area under agricultural crops, gross yield (in kind and value expression) and average crop yield are calculated. The calculation of the indicators is used to create the time series of indicators, as well as for the calculation of gross crop production.
	<b>6.2 Validate outputs</b>	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 forms, summary reporting forms and questionnaires.
	<b>6.3 Interpret and explain of outputs</b>	The logical analysis of the received summary indicators is carried out taking into account the processes taking place in the given sphere (policy conducted) and natural climatic conditions of reference year.
	<b>6.4 Apply disclosure control</b>	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: <a href="https://www.armstat.am/file/doc/99454478.pdf">https://www.armstat.am/file/doc/99454478.pdf</a> ).
	<b>6.5 Finalize outputs</b>	Before the dissemination of summary information, the summary indicators characterizing the crop production sphere are analyzed by time series.
<b>7. Dissemination</b>		
	<b>7.1 Update output system</b>	The work on the derivation and final checking of relevant tables of statistical indicators that are subject to publication is

		<p>carried out, as well as the time series update is implemented.</p> <p>In case of the need the changes and/ or additions are made in the concepts and methodological explanations of the relevant indicator.</p>
	<p><b>7.2 Produce dissemination products</b></p>	<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 in Armenian, Russian and English through the yearbooks, statistical handbooks and monthly informational reports.</p> <ul style="list-style-type: none"> <li>• Statistical Yearbook of Armenia <a href="https://www.armstat.am/am/?nid=586">https://www.armstat.am/am/?nid=586</a></li> <li>• RA marzes and Yerevan city by figures <a href="https://www.armstat.am/am/?nid=80&amp;id=2203">https://www.armstat.am/am/?nid=80&amp;id=2203</a></li> <li>• Armenia in figures (annual) <a href="https://www.armstat.am/am/?nid=80&amp;id=2219">https://www.armstat.am/am/?nid=80&amp;id=2219</a></li> <li>• “Socio-Economic Situation of the Republic of Armenia” (monthly) <a href="https://www.armstat.am/am/?nid=82">https://www.armstat.am/am/?nid=82</a></li> </ul>
	<p><b>7.3 Manage release of dissemination products</b></p>	<p>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.</p>
	<p><b>7.4 Promote dissemination products</b></p>	<p>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.</p>
	<p><b>7.5 Manage user support</b></p>	<p>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 (in case of need) and submitted to them</p>



		following the principle of confidentiality of primary statistical information.
<b>8.Evaluation</b>		
	<b>8.1 Gather evaluation input</b>	The collection of data from the same source and/ or from the administrative register on relevant organizations is carried out for the purpose of comparison.
	<b>8.2 Conduct evaluation</b>	The basis for the assessment of information quality is the information collected from the RA Ministry of Economy as well as the relevant information gathered from 12090 farms included in the agricultural statistics sample survey field.
	<b>8.3 Agree an action plan</b>	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. Forming of action plan based on evaluation report. Implementation of monitoring on impact of these actions.