

Statistical product– Cattle breeding / livestock numbers (annual), livestock production (monthly, annual)

Processes	Sub-processes	Sub-process description
1 Specify needs		
	1.1 Identify needs	Regular changes of indicators are carried out in the statistical and summary reporting forms stipulated by the statistical information users' requirements changes.
	1.2 Consult & confirm needs	In order to provide explanations concerning the data collection, the working discussions with the representatives of the relevant organizations providing information are conducted.
	1.3 Establish output objectives	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: https://www.armstat.am/am/?nid=131).
	1.4 Identify concepts	
	1.5 Check data availability	Data collection on the livestock product is carried out by widespread method via reporting forms and sample observation via questionnaires. The latter method serves as an alternative to indicators received by summary reporting forms.
	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 where possible.

2.Design		
	2.1 Design outputs	<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". Besides, Statistical Reporting Form No 6 AC (annual) "On Sum Totals of Livestock Census" approved by the Resolution No 24-N dated December 24, 2008 of RA State Council on Statistics and the instruction for filling in it. Statistical Reporting form No 24-AC (monthly) "On Report on Cattle-breeding Situation" approved by the Resolution No 71-N dated November 30, 2018 of RA State Council on Statistics and the instruction for filling in it. Statistical Reporting Form No 24-AC (annual) "On Cattle-breeding Situation" approved by the Resolution No 72-N dated November 30, 2018 of RA State Council on Statistics and the instruction for filling in it.</p>
	2.2 Design variable descriptions	<p>The statistical reporting and summary reporting forms for the collection of statistical indicators includes:</p> <ol style="list-style-type: none"> 1. Monthly, 21 statistical indicators 2. 2 yearly, correspondingly 87 and 118 statistical indicators.
	2.3. Design collection	<p>Statistical data is collected through the statistical reporting forms and summary reporting forms approved by the RA State Council on Statistics. The information is collected also from administrative source, from the RA Ministry of Economy as an administrative register.</p>
	2.4 Design frame and sample	<p>The design of the general population is implemented to provide complete information regarding the cattle breeding sphere. For this purpose, the information is collected from all previously known organizations dealing with cattle breeding.</p>
	2.5 Design processing and analysis	<p>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</p>

		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	Statistical reporting and summary reporting forms, the instructions for filling them that are needed for the data collection are available in paper and electronic form (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.
	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.
	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 data, 2. arithmetical and logical checks and adjustments, 3. Data 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 data in paper and electronic forms.
	3.5 Test production	Due to indicators changes in the statistical reporting forms,

	system	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.
	3.6 Test statistical business production	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.
	3.7 Finalize production system	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.
4.Collection		
	4.1 Create frame and select sample	The information on general population is formed in the result of widespread observation of data collection (administrative register) that includes the statistical data collected from organizations dealing with the cattle breeding.
	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.
	4.3 Run collection	Statistical data collection is carried out by the Armstat relevant units 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	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>		
	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 is 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 available.
	5.6 Calculate weights	As the information provided by the organization dealing with cattle breeding 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 based on primary information due to the necessity to obtain operative statistical data.
<i>Analysis</i>		
	6.1. Prepare draft outputs	<p>The creation of indicator groups, as well as time series of statistical indicators is implemented based on obtained statistical summary data. In particular, the following main indicators are calculated; livestock number by age and sex groups, sales of livestock and poultry for slaughter, produced milk, produced eggs etc.</p> <p>The calculation of received indicators is used to create the time series of indicators.</p>
	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 forms, summary reporting forms.
	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 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	Before the dissemination of summary information, the summary indicators characterizing the crop production sphere are analyzed by time series.
<i>Dissemination</i>		
	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	<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"> • Statistical Yearbook of Armenia https://www.armstat.am/am/?nid=586 • RA marzes and Yerevan city by figures https://www.armstat.am/am/?nid=80&id=2203 • Armenia in figures (annual) https://www.armstat.am/am/?nid=80&id=2219 • “Socio-Economic Situation of the Republic of Armenia” (monthly) https://www.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	
	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 primary statistical information.
<i>Evaluation</i>		
	8.1 Gather evaluation input	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.
	8.2 Conduct evaluation	The basis for the evaluation of information quality are: the information provided by legal entities and individual entrepreneurs dealing with the cattle breeding registered in the state register of the Ministry of Justice of the Republic of Armenia, the relevant information collected from the agricultural statistics sampling field and the relevant information provided by the RA Ministry of Economy as an administrative register.
	8.3 Agree an 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. Forming of action plan based on evaluation report. Implementation of monitoring on impact of these actions.