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Agricultural Statistics

AQUACULTURE STATISTICS



Bosnia and Herzegovina

**Agency for Statistics of
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**Institute for Statistics
of Federation of BiH**

**Institute for Statistics
of Republika Srpska**

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Users are kindly requested to refer to the data source

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LEGAL BASIS

According to the Law on Statistics of Federation of Bosnia and Herzegovina („Official Gazette of the Federation of BiH, No. 63/03 and 9/09) and the Law on Statistics of Republika Srpska („Official Gazette of RS”, No. 85/03) the Survey is conducted by entity statistical institutes: Federal Office of Statistics of BiH and Institute of Statistics of Republika Srpska. The Agency for Statistics of BiH in line with the Law on Statistics of BiH (“Official Gazette of BiH”, No. 26/04 and 42/04) is authorised for compilation, aggregation and international reporting for the state level.

METHODOLOGICAL BASIS

Objective and summary of survey

Annual report on aquaculture should provide data on fish and molluscs intended for food, juvenile fish and production of fish eggs, structure of facilities used in the field of aquaculture, structure of employees and scope of their work expressed in working hours, consumption of food, fertilizers and fuel, and harmonization of the Aquaculture Statistics with EU standards and recommendations (Regulation No. 762/2008/EC).

Observation units

1. All legal units included in the entity statistical institutions’ Administrative registers of business units and classified, according to the Classification of Activity of BiH, into the Section A - Agriculture (Fishery);
2. Legal units not classified into the Section A ÷ Agriculture (Fishery), but having the units that perform aquaculture activities;
3. Entrepreneurs registered in statistical and administrative data sources dealing with aquaculture.

Reporting units for this survey are all companies/entrepreneurs producing fish and molluscs intended for consumption, juveniles and fish eggs in the salt water or fresh water in the ponds, cages, enclosures, tanks or other methods of rearing on the territory of Bosnia and Herzegovina (Federation of Bosnia and Herzegovina, Republika Srpska, and Brcko District of Bosnia and Herzegovina).

Coverage

This survey covers all companies/entrepreneurs producing fish and molluscs intended for consumption, juveniles and fish eggs in the salt water or fresh water in the ponds, cages, enclosures, tanks or other methods of rearing on the territory of Bosnia and Herzegovina.

Method and time of data collection

The survey is conducted by reporting method and covers all companies/entrepreneurs producing fish and molluscs intended for consumption, juveniles and fish eggs in the salt water or fresh water in the ponds, cages, enclosures, tanks or other methods of rearing.

Reporting units submit the data on aquaculture using AQ-1 form, and accounting and financial data.

Surveys are conducted on the annual basis. Reporting unit is obliged to submit the data to Federal Office of Statistics of BiH and Institute of Statistics of Republika Srpska by the 1st April of current year for referent period (previous year).

Entity institutes for statistics are obliged to submit the data to the Agency for Statistics of BiH by 30th April for previous year.

Obligation for the protection of personal data

The data submitted by this survey are exclusively used for statistical purposes and will not be published separately. The protection of personal data is regulated by the Law on the Statistics of Bosnia and Herzegovina ("Official Gazette of BiH", No 26/04 and 42/04), Law on the Statistics of Federation of Bosnia and Herzegovina („Official Gazette of the Federation of BiH, No. 63/03 and 9/09), Law on the Statistics of Republika Srpska („Official Gazette of RS", No. 85/03), and by the Law on the protection of personal data ("Official Gazette of BiH", No. 49/06).

DEFINITIONS AND CLARIFICATIONS

Basic concepts

Definitions given below are harmonised with the EU Regulation No. 762/2008/EC.

Aquaculture: the rearing or cultivation of aquatic organisms using techniques designed to increase the production of the organisms in question beyond the natural capacity of the environment. The organisms remain the property of legal person throughout the rearing including investments.

Production: means the output from aquaculture at first sale, including production from hatcheries and nurseries offered for sale.

1. Regarding the rearing of fish and molluscs, **“production”** does not include the amounts of fish and molluscs left in nursery, but are transferred to the next production year.
2. Regarding the rearing of juveniles, **“production”** does not include the amounts of juveniles left in nursery, but are transferred to the next production year regardless of purpose (sale or fattening).
3. Regarding the rearing of fish eggs, **“production”** does not include the amounts of fish eggs left in nursery, but are transferred to the next production year regardless of the purpose (sale and rearing).

Salt water means water which has a constantly negligible salinity.

Saltwater means water where the salinity is appreciable. This may be water where the salinity is constantly high (e.g. seawater) or where the salinity is appreciable but not at a constantly high level (e.g. brackish water). The salinity may be subject to periodic variation due to the influx of fresh or seawater.

Species mean the species of aquatic organisms identified using the international 3-alfa code as defined by the FAO (ASFIS list of species for fishery statistics purpose).

Ponds mean relatively shallow and usually small bodies of still water with a low refreshment rate, most frequently artificially formed, but can also apply to natural pools, tarns, mers or small lakes. Ponds are constructed areas (pools made of earth or concrete) placed on agriculture or other land or fishing waters intended for rearing and production of fish and molluscs, juveniles and fish eggs (roe). This methodology under **“ponds”** also includes facilities for broodstocks, nursery, hatcheries, feedlots and winter harbours.

Hatcheries and nurseries mean places for artificial rearing, hatching and breeding through the early life stages of aquatic animals. For statistical purposes, hatcheries are limited to the production of fertilised eggs. First juvenile stages of aquatic animals are considered as being produced in nurseries.

“Enclosure and pens” mean areas of water confined by nets, mesh and other barriers allowing uncontrolled water interchange since it is placed in natural water surfaces. It is transitional form between ponds and cages (primitive system of rearing) and enclosures occupy the full water column between substrate and surface. Pens and enclosures generally enclose a relatively large volume of water.

Cages mean open or covered enclosed structure constructed with net, mesh or any porous material allowing natural water interchange. These structures may be floating, suspended or fixed to the substrate but still permitting water interchange from below.

Other food is all the food not mentioned in the AQ-1 form in the Table on food consumption and it refers to food that is not in pellet: fish meal, meat and bone meal, corn flour, forage wheat flour, soybean meal, sunflower meal, fish oil, brewer's yeast and other non-pelleted food as well as vitamins and minerals and other additives for fish food.

Volume: For fish, crustaceans, molluscs, and other aquatic animals, the live weight equivalent of the product. For molluscs, the living weight shall include the weight of the shell.

Unit value means the total value (excluding invoice value-added tax) of the production in KM divided by the total volume of the production.

Level of data representativeness

Data are representative for the level of Bosnia and Herzegovina, Federation of Bosnia and Herzegovina, Republika Srpska, Brcko District of Bosnia and Herzegovina.

Harmonisation with international recommendations and standards

This survey is harmonised with above mentioned EU Regulation No. 762/2008/EC.

ORGANIZATION OF SURVEY

The bodies for conducting the survey

Participating parties in the preparations and conducting the survey in the field of aquaculture are: Agency for Statistics of Bosnia and Herzegovina, Federal Office of Statistics of Bosnia and Herzegovina and Institute of Statistics of Republika Srpska.

Agency for Statistics of Bosnia and Herzegovina, in cooperation with entity statistic institutes, determines methodological basis, designs forms and instructions for their completion, takes into account effective implementation of survey, controls and process data and prepares survey results for the level of Bosnia and Herzegovina.

Data collection, control, processing and publishing data for the entity level is responsibility of the entity statistical institutes.

Processing and publishing the statistics

After the control of reporting units' coverage, the control of accuracy and the completeness of data, data coding, transferring to electric media, conducting computing and logical control, data are processed for entity level and forwarded to the Agency for Statistics of Bosnia and Herzegovina. The results from the Annual survey on aquaculture are published in regular publications.

Forms

For conducting the annual survey, entity statistics institutes use "The annual report on aquaculture (AQ-1)" form.

INSTRUMENTS FOR SURVEY

For each facility where the production in the field of aquaculture is conducted (fish and molluscs intended for consumption, juveniles and fish eggs) a separate form AQ-1 is filled in for the reporting year.

This refers to all facilities regardless of the methods of rearing (ponds, enclosures and tanks, cages, or other methods of rearing).

Data filled in the form AQ-1 are related to production of fish and molluscs intended for consumption, the production of juveniles and fish eggs; to the structure of facilities used in the field of aquaculture, consumption of food, fertilizers, energy and fuel, as well as the data on structure of staff by sex and the number of working hours in the aquaculture.