Ministry of Agriculture of the Czech Republic

Department of the Civil Service of Forest, Game management and Fishery

Regulation (EU) 2017/1004 of 17 May 2017of the European Parliament and the Council

on the establishment of a Union framework for the collection, management and use of data in the fisheries sector and support for scientific advice regarding the common fisheries policy and repealing Council Regulation (EC) No 199/2008

Commission Implementing Decision (EU) 2019/909 of 18 February 2019 establishing the list of mandatory research surveys and thresholds for the purposes of the multiannual Union programme for the collection and management of data in the fisheries and aquaculture sectors

Commission Delegated Decision (EU) 2019/910 of 13 March 2019

establishing the multiannual Union programme for the collection and management of biological, environmental, technical and socioeconomic data in the fisheries and aquaculture sectors

[Czech Republic]

Work Plan for data collection in the fisheries and aquaculture sectors

2020-2021

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Pilot Study 1: Relative share of catches of recreational fisheries compared to commercial fisheries

General comment: This Box fulfills paragraph 4 of Chapter II of the Implementing Decision (EU) 2019/909 on the multi-annual Union programme.
Non relevant for CZE. 1. Aim of pilot study 2. Duration of pilot study 3. Methodology and expected outcomes of pilot study *(max 900 words)*

Text Box 1E: Anadromous and catadromous species data collection in freshwater

General comment: This Box fulfills paragraph 2 points (b) and (c) of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union program.

European Eel (*Anguilla anguilla*) – the Czech Republic plans to ensure the requirements following from regulation no. 1100/2007/EC:

- revision of the Czech eel management plan based on current scientific knowledge,

- information about downstream eel migration (especially monitoring of migration, mortality, the survival of stocked eel).

Salmon (*Salmo salar)* – The Czech Republic does not plan the data collection in the case of salmon.

Sea trout (*Salmo trutta trutta*) – there is no proven presence of this species in the Czech Republic.

The Czech Anglers Union, in cooperation with the Moravian Anglers Union, is preparing an information system, the AIS (Angling Information System), which will include a platform collection of data about eel, socioeconomic data on aquaculture, and environmental data in aquaculture, including data about non-commercial recreational fisheries. Data about non-commercial recreational fisheries provide the information about eel (f. e. the better information about stocking, catches and so about catch per unit effort.) and about other fish species occurring in rivers (f. e. carp, trout family, bighead carp, rheophilic fish, etc). These data provide important information especially for the needs of the Ministry of Agriculture, but some data will be reported to the European Commission within the EU MAP. For example, data about non-commercial recreational fisheries provide information about fish migration, activities of fishing inspections to anglers fishing the eel and other fish species. Information about non-commercial recreational fisheries will serve for better management in fishing grounds and better national scientific advice.

(max 250 words per Area)

Pilot Study 2: Level of fishing and impact of fisheries on biological resources and marine ecosystem

General comment: This Box fulfills paragraph 3 point (c) of Chapter III of the Delegated Decision (EU) 2019/910, on the multi-annual Union programme.
Non relevant for CZE as a landlocked country. 1. Aim of pilot study 2. Duration of pilot study 3. Methodology and expected outcomes of pilot study *(max 900 words)*

Text Box 1G: List of research surveys at sea

General Comment: This Box fulfills Chapter I in the Annex of the Implementing Decision (EU) 2019/909, on the list of mandatory research surveys and thresholds. It is intended to specify which reseach surveys at sea set out in the Implementing Decision on the multi-annual Union programme will be carried out. Member States shall specify whether the research survey is included in the Chapter I in the Annex of the Implementing Decision on the multi-annual Union programme or whether it is an additional survey.

Non relevant for CZE as a landlocked country.

1. Objectives of the survey

2. Description of the methods used in the survey. For mandatory surveys, link to the manuals. Include a graphical representation (map)

3. For internationally coordinated surveys, describe the participating Member States/vessels and the relevant international group in charge of planning the survey

4. Where applicable, describe the international task sharing (physical and/or financial) and the cost sharing agreement used

5. Explain where thresholds apply

(max 450 words per survey)

SECTION 2: FISHING ACTIVITY DATA

Text Box 2A: Fishing activity variables data collection strategy

General comment: This Box fulfills paragraph 4 of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union programme. It is intended to describe the method used to derive estimates on representative samples where data are not to be recorded under Regulation (EU) No 1224/2009 or where data collected under Regulation (EU) No 1224/2009 are not at the right aggregation level for the intended scientific use.
Non relevant for CZE as a landlocked country. 1. Description of methodologies used to cross-validate the different sources of data. 2. Description of methodologies used to estimate the value of landings. 3. Description of methodologies used to estimate the average price (it is recommended to use weighted averages, trip by trip) 4. Description of methodologies used to plan collection of the complementary data (sample plan methodology, type of data collected, frequency of collection etc) *(max 900 words per Region)*

SECTION 3: ECONOMIC AND SOCIAL DATA

Text Box 3A: Population segments for collection of economic and social data for fisheries

General comment: This Box fulfills paragraph 5 points (a) and (b) of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union programme. It is intended to specify data to be collected under Tables 5(A) and 6 of the Delegated Decision on the multi-annual Union programme.
Non relevant for CZE as a landlocked country. 1. Description of methodologies used to choose the different sources of data 2. Description of methodologies used to choose the different types of data collection 3. Description of methodologies used to choose sampling frame and allocation scheme 4. Description of methodologies used for estimation procedures 5. Description of methodologies used on data quality *(max 900 words per Region)*

Pilot Study 3: Data on employment by education level and nationality

General comment: This Box fulfills paragraph 5 point (b) and paragraph 6 point (b) of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union programme. It is intended to specify data to be collected under Table 6 of the Delegated Decision (EU) 2019/910 on the multi-annual Union programme.

Non relevant for CZE. CZE will collect social data as a part of activity mentioned in Table 3B.

1. Aim of pilot study

2. Duration of pilot study

3. Methodology and expected outcomes of pilot study

(max 900 words)

Text Box 3B: Population segments for collection of economic and social data for aquaculture

General comment: This Box fulfills paragraph 6 points (a) and (b) of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union program. It is intended to specify data to be collected under Tables 6 and 7 of the multi-annual Union program.

In the Czech Republic is the total freshwater fish production approximately 20 000 tons per year. The carp is the most frequently farmed fish produced in the amount of 17 500 tons per year. According to Chapter V, paragraph 5 of Regulation (EU) 2016/1251, the Czech Republic has to collect the economic and social data for carp culture. Because the carp is farmed in polyculture with other fish species, the Czech Republic can report only two variables connected with carp mentioned in Table 3B, namely the value of **Gross sales per species** and **Weight of sales per species**. The other social and economic variables mentioned in Table 3B, will be collected on the company level.

1. **Description of methodologies used to choose the different sources of data**

The main sources for the direct data collection on the farm level of the economic and social data are financial accounts and company registers. Freshwater fish farmers shall submit the economic and social variables to the Ministry of Agriculture, so this is a second source of the data. The economic variables will be collected every year, the social variables every three years.

2. **Description of methodologies used to choose the different types of data collection**

The economic and social variables will be collected by the questionnaire surveys on-line. The questionnaires will be prepared according to tables 6, 7, and 9 of Regulation (EU) 2016/1251 and Regulation (EU) 2017/1004 of the European Parliament and the Council of 17 May 2017.

3. Description of methodologies used to choose the sampling frame and allocation scheme

Economic and social data will be collected from selected fish companies. Data collection in 2021 will be completely organized by the Institute of Agricultural Economics and Information. At the same time, in 2021, is intended to prepare the Angling Information System (AIS), which in the future (in 2025) will also collect socio-economic data from the members of the Czech Anglers Union and Moravian Anglers Union. Both Unions produce about 9% of aquaculture production in the Czech Republic. Simultaneously with the launch of AIS, the data collection organized by the IAEI will continue with the public procurement method, which will include fishing enterprises in the Czech Republic that will not be AIS users. The planned AIS system will also ensure the data collection about eel (see text box 1E) and also environmental data on aquaculture (see pilot study 4), but also about the non-commercial recreational freshwater fishing. The Czech Republic states that AIS will enable both the collection of data, that will be reported to the EK (partial share of the total volume of collected data) and the collection of data that will serve the needs of the Czech state authority (f. e. for the needs of Ministry of Agriculture, it is also information about non-commercial recreational

fisheries; major share of the total volume of collected data). The AIS will serve the internal needs of the Czech Anglers Union and Moravian Anglers Union as well. The AIS will be a tool for a more efficient way of collecting both sets of data than at present.

The Czech Republic wants to create also the joint fishing web portal as a support instrument in data collection for fish farmers and state authorities.

4. Description of methodologies used for estimation procedures

The results will be generalized by the methodology of extrapolation.

5. Description of methodologies used on data quality

Data quality will be ensured by using appropriate statistical methods during data collection and data control. It will be used method of remote values and other suitable methods.

(max 1000 words)

Pilot Study 4: Environmental data on aquaculture

General comment: This Box fulfills paragraph 6 point (c) of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union program and Article. It is intended to specify data to be collected under Table 8 of the multi-annual Union program.

The Czech Anglers Union, in cooperation with the Moravian Anglers Union, is preparing an information system, the AIS (Angling Information System), which will include a platform including the collection of environmental data in aquaculture. Environmental data will be collected from members of both unions.

1. Aim of the pilot study

To create and test a platform for future collection of Environmental data according to Table 8 Environmental variables in the aquaculture sector of the EU Commission Implementing Decision 2016/1251.

2. Duration of the pilot study

Start of system development in 2021. The completion of the pilot study is expected in 2025.

3. Methodology and expected outcomes of the pilot study

The methodology of environmental data collection will be based on direct data collection from members of the Czech Anglers Union and the Moravian Anglers Union, through AIS. The value of parameters will be collected according to Table 8 Environmental variables in the aquaculture sector of the EU Commission Implementing Decision 2016/1251, Administered medicinal products, Applied treatments, and Fish mortality values.

(max 900 words)

Text Box 3C: Population segments for collection of economic and social data for the processing industry

General comment: This Box fulfills paragraph 1.1(d) of Chapter III and Table 10 of the Delegated Decision (EU) 2019/910 on the multi-annual Union programme, and Article 2, Article 4 paragraphs (1) and (5). It is intended to specify data to be collected under Table 10 of the multi-annual Union programme.
Data collection of economic and social data for the processing industry is not in CZE planned. 1. Description of methodologies used to choose the different sources of data 2. Description of methodologies used to choose the different types of data collection 3. Description of methodologies used to choose sampling frame and allocation scheme 4. Description of methodologies used for estimation procedures 5. Description of methodologies used on data quality *(max 1000 words)*

SECTION 4: SAMPLING STRATEGY FOR BIOLOGICAL DATA FROM COMMERCIAL FISHERIES

Text Box 4A: Sampling plan description for biological data

General Comment: This Box fulfills Article 3, Article 4 paragraph (4) and forms the basis for the fulfilment of paragraph 2 point (a)(i) of Chapter III of the Delegated Decision (EU) 2019/910 on the multi-annual Union programme. This Table refers to data to be collected under Tables 1(A), 1(B) and 1(C) of the multi-annual Union programme.
Non relevant for CZE. Description of the sampling plan. *(max 900 words per Region)*