

NARIC Research Institute of Agricultural Economics

**Regulation (EU) 2017/1004 of the European Parliament and of 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 (recast)

**Commission Implementing Decision (EU) 2016/1251**

adopting a multiannual Union programme for the collection, management and use of data in  
the fisheries and aquaculture sectors for the period 2017-2019

**Commission Implementing Decision (EU) 2016/1701**

laying down rules on the format for the submission of work plans for data collection in the  
fisheries and aquaculture sectors

**Commission Implementing Decision (EU) 2018/1283**

laying down rules on the format and timetables for the submission of annual data collection  
reports in the fisheries and aquaculture sectors

**Hungarian Annual Report for data  
collection in the fisheries and aquaculture  
sectors**

**2019**

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Budapest, 2020

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## SECTION 1: BIOLOGICAL DATA

### **Text Box 1C: Sampling intensity for biological variables**

General comment: This box fulfils paragraph 2 point (a)(i)(ii)(iii) of Chapter III, Chapter IV of the multiannual Union programme and Article 2, Article 4 paragraph 1 and Article 8 of the Decision (EU) 2016/1701. This box is applicable to the Annual Report.

This part of the AR does not apply to Hungary as a land-locked country.

(max. 1000 words per Region/RFMO/RFO/IO)

## SECTION 1: BIOLOGICAL DATA

### **Text Box 1D - Recreational fisheries**

General comment: This box fulfils paragraph 2 point (a) (iv) of Chapter III of the multiannual Union programme and Article 2, Article 3 and Article 4 paragraph 1 of the Decision (EU) 2016/1701. This box is applicable to the Annual Report. This box is intended to provide information on the design, implementation and analysis of all components of sampling schemes/ surveys that are listed in Table 1D.

This part of the AR does not apply to Hungary as a land-locked country.

(max. 900 words per survey)

## SECTION 1: BIOLOGICAL DATA

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

General comment: This box fulfils paragraph 4 of Chapter V of the multiannual Union programme and Article 2 and Article 4 paragraph (3) point (a) of the Decision (EU) 2016/1701.

General comment: This box is applicable to the Annual Report. This box is intended to provide information on the results obtained from the implementation of the pilot study.

1. Aim of pilot study
2. Duration of pilot study
3. Methodology and expected outcomes of pilot study

(max 900 words)

This part of the AR does not apply to Hungary as a land-locked country.

(max 900 words)

SECTION 1: BIOLOGICAL DATA

**Text Box 1E: Anadromous and catadromous species data collection in fresh water**

General comment: This box fulfills paragraph 2 points (b) and (c) of Chapter III of the multiannual Union programme and Article 2 of the Decision (EU) 2016/1701.

General comment: This box is applicable to the Annual Report.

1. Method selected for collecting data.

(max 250 words per Area)

Paragraph 2 point (b) of Chapter III refers to “data on anadromous and catadromous species listed in Table 1E caught by commercial fisheries during the freshwater part of their lifecycle”. Hungary abolished all commercial fisheries on its natural waters as of 01.01.2016, and therefore, this point is not relevant for Hungary. Hungary has no eel management units as its territory was deemed not to constitute significant eel habitat and was exempted from the obligation to establish an Eel Management Plan as defined under Council Regulation (EC) No 1100/2007, and thus, Paragraph 2 point (c) of Chapter III cannot be applied to Hungary, either.

(max 500 words per Area)

SECTION 1: BIOLOGICAL DATA

**Text box 1F: Incidental by-catch of birds, mammals, reptiles and fish**

General Comment: This box fulfils paragraph 3 point (a) of Chapter III of the multiannual Union programme and Article 2 of the Decision (EU) 2016/1701. This box is applicable to the Annual Report. This box is applicable only for those sections where Member States have reported that they have been carrying out regular sampling. Results and deviations for Pilot studies should be reported under Pilot Study 2.

This part of the AR does not apply to Hungary as a land-locked country.

(max 900 words)

SECTION 1: BIOLOGICAL DATA

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

General comment: This Box fulfils paragraph 3 point (c) of Chapter III of the multiannual Union programme and Article 2 and Article 4 paragraph (3) point (b) of the Decision (EU) 2016/1701.

General comment: This box is applicable to the Annual Report. This box is intended to provide information on the results obtained from the implementation of the pilot study.

1. Aim of pilot study

2. Duration of pilot study

3. Methodology and expected outcomes of pilot study

(max 900 words)

This part of the AR does not apply to Hungary as a land-locked country.

(max 900 words)

SECTION 1: BIOLOGICAL DATA

**Text Box 1G: List of research surveys at sea**

General comment: This box fulfills Chapter IV of the multiannual Union programme and Article 2 and Article 7 paragraph (3) of the Decision (EU) 2016/1701. It is intended to specify which research surveys at sea set out in Table 10 of the multiannual Union programme will be carried out. Member States shall specify whether the research survey is included in Table 10 of the multiannual Union programme or whether it is an additional survey.

General comment: This box is applicable to the Annual Report. This box should provide complementary information on the performance of the surveys, the results and their main use.

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)

This part of the AR does not apply to Hungary as a land-locked country.

(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 multiannual Union programme and Article 2, Article 4 paragraph (2) point (b) and Article 5 paragraph (2) of the Decision (EU) 2016/1701. 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.

General comment: This box is applicable to the Annual Report. This box should provide information on the implementation of the data collection of fishing activity variables of Member States.

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)

This part of the AR does not apply to Hungary as a land-locked country.

(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 fulfils paragraph 5 points (a) and (b) of Chapter III of the multiannual Union programme and Article 2, Article 4 paragraphs (1), (2) and (5) and Article 5 paragraph (2) of the Decision (EU) 2016/1701. It is intended to specify data to be collected under Tables 5(A) and 6 of the multiannual Union programme.

General comment: This box is applicable to the Annual Report. This box should provide information on the implementation of the fleet socio-economic data collection of Member States.

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)

This part of the AR does not apply to Hungary as Hungary suspended all commercial fisheries on its natural waters as of 01.01.2016. Accordingly, Table 5A on Economic variables for the fleet are not available.

(max 1000 words)

## SECTION 3: ECONOMIC AND SOCIAL DATA

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

General comment: This box fulfils paragraph 5 point (b) and paragraph 6 point (b) of Chapter III of the multiannual Union programme and Article 2 and Article 3 paragraph (3) point (c) of the Decision (EU) 2016/1701. It is intended to specify data to be collected under Table 6 of the multiannual Union programme.

General comment: This box is applicable to the Annual Report. This box is intended to provide information on the results obtained from the implementation of the pilot study (including deviations from planned and justifications as to why if this was not the case).

1. Aim of pilot study

2. Duration of pilot study

3. Methodology and expected outcomes of pilot study

(max 900 words)

Data on employment by education level and nationality are collected together with the other socio-economic data, no separate pilot studies were done.

(max 900 words)

## SECTION 3: ECONOMIC AND SOCIAL DATA

### **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 multiannual Union programme and Article 2, Article 4 paragraphs (1) and (5) and Article 5 paragraph (2) of the Decision (EU) 2016/1701. It is intended to specify data to be collected under Tables 6 and 7 of the multiannual Union programme.

General comment: This box is applicable to the Annual Report. This box should provide information on the implementation of the socio-economic data collection for aquaculture of Member States.

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

All available statistical data bases consisting data on aquaculture enterprises will be used as data sources. The Research Institute for Agricultural Economics (AKI) has a register on all aquaculture enterprises and detailed (company-level) production data on fish ponds, intensive farms and on nurseries, respectively. Employment data by gender are also available. The National Food Chain Safety Office (NÉBIH) keeps a register of fish hatcheries and pond farms larger than 30 hectares, as well as data on recreational fisheries in natural-waters. In order to improve the coverage, a registration system for all aquaculture farms of over 0.5 ha is currently being developed by the Ministry of Agriculture. The database of the National Tax and Customs Administration of Hungary (NAV) and the Hungarian Central Statistical Office (KSH) will be also used, where relevant (income, financial results, FTE). Aggregated data from aquaculture statistics will be broken down according to Table 9 of Commission Implementing Decision (EU) 2016/1251. Relevant species categories in case of Hungary are carp and other freshwater fishes (mainly North African catfish and silver carp), that are above the 10% threshold set out in Chapter V. of Commission Implementing Decision (EU) 2016/1251. The economic variables, for which no known reliable data sources are readily available (personnel costs, energy costs, raw material costs, repair and maintenance, other operating costs, subsidies, capital costs, investments, debt, unpaid labour, employment by age, education level, nationality, status and environmental variables) are planned to be collected through questionnaires addressed to a representative population of aquaculture enterprises by AKI and stored in their statistical database, for which professional requirements were established according to EUROSTAT, FAO and other EU database development demands. Economic data will be based on farm accounts, accounting offices will be involved, where necessary. Further work will be conducted to establish the new elaborated data collection programme covering these variables.

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

Sampling method was chosen in such a way as to be representative both on EU and national level, thus a census will be applied for data collection from large enterprises, while for midsize and small enterprises stratified probability sampling is to be used. To ensure that the sample of aquaculture farms adequately reflects the diversity of aquaculture farming, the sampling frame have to be stratified before the sample of enterprises is selected. Stratification is based on geographical location, pond type, farming technique, produced fish quantity and previous response rate. The sample is drawn at random from the subset of enterprises within the sampling frame.

All data collection is done according to EU and international regulations, standards and guidelines (EUROSTAT, FADN, STECF, etc.).

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

Target population was established according to Commission Implementing Decision (EU) No 2016/1251, i.e. include all profit-oriented enterprises whose primary activity is defined according to the European Classification of Economic Activities NACE code 03.22. Sampling frame is adapted to the domestic conditions regarding fish farming and the fisheries sector in Hungary, and consists economic entities based in Hungary owning fish ponds or intensive fish production systems and units and are included in the register

of AKI and NÉBIH. Sampling units are enterprises dealing with fisheries or aquaculture. Stratification is to be used to ensure that the sample taken from the frame covers all categories of interest. The participation of enterprises is on a voluntary basis. If some enterprises that are selected for the sample may not want to participate, it will be replaced by drawing another enterprise from the sampling frame. Data will be collected yearly to be comparable and that trends could be studied together with other variables on a yearly basis.

#### 4. Description of methodologies used for estimation procedures

Missing data will be complemented by contacting the data provider electronically or on phone. In cases where no data are available for estimations the estimations of data providers will be used. Unavailable data are to be imputed based on previous years' returns, where necessary and possible. However, since data provision is voluntary, data providers may refuse to provide some of the requested data (particularly financial data), which may not be possible to estimate (e.g. debt).

#### 5. Description of methodologies used on data quality

Quality assurance and quality control framework follow the commonly used procedures recommended by EUROSTAT, FADN, etc. Checking, approving and entering of the data will be done by the person responsible for data collection at the Statistical Department of AKI. In the frame of data preparation, the completeness of the received forms and of their filling are checked. Checking and correction of errors (including numerical relations within the table) are continued during the data entry. Data provision is assisted by the personal relations between the data provider and the person responsible for data collection. Unlikely values are identified by likelihood tests which compare the value of a variable to the expected value.

The following indicators of accuracy are planned to be used:

- Coefficient of variation, as quality indicator of sampling error, expressed as the square root of the variance of the estimated value divided by the expected value;
- Unit response rate (un-weighted/weighted), to show what percentage of the respondents assigned for responding and actually belonging to the population responded the questionnaire;
- Item response rate (un-weighted/weighted), to express the percentage of respondents answering a given question;
- Achieved sampling rate, expressing the level of coverage in the frame of the data collection;
- Imputation rate, determining to what extent imputation is used within the data set;

*(max 1000 words)*

#### 6. Deviations from Work Plan methodology for selection of data source

No deviations. Data source was the questionnaire survey.

#### 7. Deviations from Work Plan methodology to choose type of data collection

No deviations from Work Plan methodology to choose type of data collection.

As it was planned in the data collection plan, a census was applied for data collection from large enterprises. Based on previous years annual fish production data, an enterprise was considered large if its production was over 400 tonnes per year (t/y) in Hungary. Thus for the census survey we set a 400 t/y threshold. Note that the planned sampling rate (60%) was also based on production volume. Willingness to participate was very low.

#### 8. Deviations from Work Plan methodology regarding sampling frame and allocation scheme

No deviations from Work Plan methodology regarding sampling frame and allocation scheme. Registers of fish producers of official national data bases listed in section "1. Description of methodologies used to

choose the different sources of data” were used for sample selection. In case of intensive aquaculture farms and hatcheries, willingness to participate was very low.

#### 9. Deviations from Work Plan methodology used for estimation procedures

No deviations from Work Plan methodology for estimation procedures.

#### 10. Quality assurance

##### 10.1 Sound methodology

*Data collection follows methodologies, guidelines and best practices agreed in expert groups and methodologies are documented and are made publicly available.*

##### 10.2. Accuracy and reliability

Response rate and Achieved sample rate are provided in Table 3B.

Checking, approving and entering of the data was done by the person responsible for data collection at the Statistical Department of the NARIC Research Institute of Agricultural Economics. In the frame of data preparation, the completeness of the received forms and of their filling are checked. Checking and correction of errors (including numerical relations within the table) are continued during the data entry. Data provision is assisted by the personal relations between the data provider and the person responsible for data collection. Unlikely values are identified by likelihood tests which compare the value of a variable to the expected value.

The following indicators of accuracy were used:

- Coefficient of variation, as quality indicator of sampling error, expressed as the square root of the variance of the estimated value divided by the expected value;
- Unit response rate (un-weighted/weighted), to show what percentage of the respondents assigned for responding and actually belonging to the population responded the questionnaire;
- Item response rate (un-weighted/weighted), to express the percentage of respondents answering a given question;
- Achieved sampling rate, expressing the level of coverage in the frame of the data collection;
- Imputation rate, determining to what extent imputation is used within the data set;

Errors are registered in data sheets designed for this purpose and clarified with the data provider by personal communication through phone or e-mail.

##### 10.3. Accessibility and Clarity

Indicate with Yes or No

Are methodological documents publicly available? Yes

Are data stored in databases? Yes

Where can methodological and other documentation be found? [www.aki.naik.hu](http://www.aki.naik.hu)

(max 1000 words)

### SECTION 3: ECONOMIC AND SOCIAL DATA

#### **Pilot Study 4: Environmental data on aquaculture**

|   |
|---|
| General comment: This box fulfills paragraph 6 point (c) of Chapter III of the multiannual Union programme and Article 2 and Article 4 paragraph (3) point (d) of the Decision (EU) 2016/1701. It is intended to specify data to be collected under Table 8 of the multiannual Union programme.   |
| General comment: This box is applicable to the Annual Report. This box is intended to provide information on the results obtained from the implementation of the pilot study (including deviations from planned and justifications as to why if this was not the case).   |
| <p>Under CHAPTER V on Thresholds of the Commission Implementing Decision (EU) 2016/1251 of 12 July 2016 adopting a multiannual Union programme for the collection, management and use of data in the fisheries and aquaculture sectors for the period 2017-2019,</p> <p>“No environmental data on aquaculture need to be collected where the total aquaculture production of the Member State is less than 2,5 % of the total Union aquaculture production volume and value.”</p> <p>For the reference year 2013, EUROSTAT data (<a href="http://ec.europa.eu/eurostat/statistics-explained/index.php/Fishery_statistics_in_detail">http://ec.europa.eu/eurostat/statistics-explained/index.php/Fishery_statistics_in_detail</a>) show a total Union aquaculture production of 1183 thousand tonnes, while the Hungarian production was 14 thousand tonnes. Thus, the share of Hungary in the total Union aquaculture production is only 1.18%, i.e. below the specified threshold, and accordingly, Hungary is not planning to collect environmental data on aquaculture.</p> <p>(max 900 words)</p> |
| <p>A pilot study on environmental data collection started last year and is still ongoing.</p> <p>(max 900 words)</p>  |

### SECTION 3: ECONOMIC AND SOCIAL DATA

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

|  |
|--|
| General comment: This box fulfills footnote 6 of paragraph 1.1(d) of Chapter III of the multiannual Union programme, Article 2, Article 4 paragraphs (1) and (5) and Article 5 paragraph (2) of Decision (EU) 2016/1701. It is intended to specify data to be collected under Table 11 of the multiannual Union programme. |
| General comment: This box is applicable to the Annual Report. This box should provide information on the implementation of the socio-economic data collection for aquaculture of Member States.  |
| 1. Description of methodologies used to choose the different sources of data   |

Hungary is planning to collect data on the processing industry on a voluntary basis. Since, there is no ongoing specific sectoral data collection on the fish processing sector covering socio-economic data in Hungary, data are to be obtained through questionnaires, interviews and estimation, if necessary. The designation of the target population will be based on the database of the Hungarian Central Statistical Office's register of fish processing plants and the database of the National Tax and Customs Administration of Hungary, consisting total revenue data of enterprises based on NACE codes. Estimates of the following data are available in the database of the Statistical Department of AKI for the largest actors based on a preliminary survey conducted in 2014: (1) the volume and value of freshwater fish processing (a) from domestic production; (b) imported from EU countries and (c) imported from third countries; (2) the structure of marine fish processing; (3) the volume and value of products of different processing level; and (4) the share of local "high-value" fishes in the total production.

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

Since the sector is relatively small, a census will be applied, but the participation of companies will be on a voluntary basis, thus some may not want to participate. Socio-economic data specified in table 11 of the Annex of Commission Implementing Decision (EU) No 2016/1251 are planned to be collected through questionnaire surveys (primary quantitative and qualitative market study using standardized questionnaires and in-depth interviews on a representative sample) and in-depth interviews during personal meetings. Response rate is expected to be high according to previous experiences, which will allow to draw conclusions and determine the status of the sector as a whole. In-depth interviews are to be performed in the frame of previously arranged on-site meetings with the owner or CEO of the enterprise aimed at obtaining background information not readily available from statistical data and questionnaires, allowing touching upon areas important for the interviewed person, not only issues considered relevant by the interviewer. Data collection is done according to EU and international regulations, standards and guidelines (EUROSTAT, FADN, STECF, etc.).

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

Enterprises whose activity includes the European Classification of Economic Activities NACE code C10.2 "Processing and preserving of fish, crustaceans and molluscs" are regarded as the target population. Sampling units are enterprises classified under the category of fish processing plants by the Hungarian Central Statistical Office including enterprises involved in repackaging, smoking and trading.

Data will be collected yearly to be comparable and that trends could be studied together with other variables on a yearly basis. After the data providers obtain the necessary routine, a compulsory data provision system is planned to be introduced by the end of the 2014-2020 EMFF programming period in order to ensure further availability of the fish processing data.

## 4. Description of methodologies used for estimation procedures

Missing data will be complemented by contacting the data provider electronically or on phone. In cases where no data are available for estimations the estimations of data providers will be used. Unavailable data are to be imputed based on previous years' returns, where necessary and possible. Fish processing data on Hungary are expected to have a full coverage, and thus, no need for estimation procedures is envisaged in this case, however since data provision is voluntary, data providers may refuse to provide some of the requested data (particularly financial data), that may not be possible to estimate (e.g. debt).

## 5. Description of methodologies used on data quality

Quality assurance and quality control framework follow the commonly used procedures (e.g. EUROSTAT, FADN, etc.). Checking, approving and entering of the data will be done by the person responsible for data collection at the Statistical Department of AKI. In the frame of data preparation, the completeness of the received forms and of their filling are checked. Checking and correction of errors (including numerical relations within the table) are continued during the data entry. Data provision is assisted by the personal relations between the data provider and the person responsible for data collection. Data entry will be immediately followed by "data cleaning" in order to find errors and outliers occurred during the questionnaire survey and the data entry. Unlikely values are identified by likelihood tests which compare the value of a variable to the expected value. The questionnaires are evaluated using basic descriptive statistical methods because of the small size of the sample. The following indicators of accuracy are planned to be used:

- Coefficient of variation, as quality indicator of sampling error, expressed as the square root of the variance of the estimated value divided by the expected value;

- Unit response rate (un-weighted/weighted), to show what percentage of the respondents assigned for responding and actually belonging to the population responded the questionnaire;
- Item response rate (un-weighted/weighted), to express the percentage of respondents answering a given question;
- Achieved sampling rate, expressing the level of coverage in the frame of the data collection;
- Imputation rate, determining to what extent imputation is used within the data set

(max 1000 words)

6. Deviations from Work Plan methodology for selection of data source

No deviations from Work Plan methodology.

7. Deviations from Work Plan methodology to choose type of data collection

No deviations from Work Plan methodology.

8. Deviations from Work Plan methodology regarding sampling frame and allocation scheme

No deviations from Work Plan methodology.

9. Deviations from Work Plan methodology used for estimation procedures

No deviations from Work Plan methodology.

10. Quality assurance

*No deviations from Work Plan methodology.*

10.1 Sound methodology

10.2. Accuracy and reliability

10.3. Accessibility and Clarity

Indicate with Yes or No:

Are methodological documents publicly available? *Yes*

Are data stored in databases? *No, only partly.*

Where can methodological and other documentation be found?

[www.aki.naik.hu](http://www.aki.naik.hu)

(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 Article 8 of the Decision (EU) 2016/1701 and forms the basis for the fulfilment of paragraph 2 point (a)(i) of Chapter III of the multiannual Union programme. This Table refers to data to be collected under Tables 1(A), 1(B) and 1(C) of the multiannual Union programme.

General comment: This box is applicable to the Annual Report. This box should provide information on the deviations from the planned sampling of Member States.

1. Description of the sampling plan according to Article 5 paragraph (3) of the Decision (EU) 2016/1701

*(max 900 words per region)*

Not applicable to Hungary as a land-locked country.

*(max. 1000 words per region OR fishing ground)*

## SECTION 5: DATA QUALITY

### **Text Box 5A: Quality assurance framework for biological data**

General comment: This box is applicable to the Annual Report. This box fulfills Article 5 paragraph (2) point (a) of the Decision (EU) 2016/1701. This box is intended to specify data to be collected under Tables 1(A), 1(B) and 1(C) of the multiannual Union programme. Use this box to provide additional information on Table 5A.

Not applicable to Hungary as a land-locked country. No biological data collection was planned and has been done.

*(max. 900 words per Region/RFMO/RFO/IO OR sampling scheme)*

## SECTION 5: DATA QUALITY

### Text Box 5B: Quality assurance framework for socioeconomic data

General comment: This box fulfills Article 5 paragraph (2) point (b) of the Decision (EU) 2016/1701. This box is intended to specify data to be collected under Tables 5(A), 6 and 7 of the multiannual Union programme. Use this box to provide additional information on Table 5B.

#### 1. Evidence of data quality assurance

The same protocols were applied both in case of the data collection and checking for aquaculture and processing sectors.

In case of the processing sector sampling units were enterprises classified under the category of fish processing plants by the National Food Chain Safety Office instead of the Hungarian Central Statistical Office of which database was found incomplete. There were no other deviations from Work Plan methodology.

#### 2. Section P3 Impartiality and objectiveness

Explain main constraints and/ or steps taken, if 'N' (no) was indicated in Table 5B

#### 3. Section P4 Confidentiality

No DCF partners, other than the Research Institute of Agricultural Economics where the data collection takes place, is involved in DCF. The Institute follows strict confidentiality protocols which are in accordance with EU laws and other national and international laws. Thus, protocols to enforce confidentiality are set.

#### 4. Section P5 Sound methodology

Not known if methodologies are completely consistent at MS, regional and EU level, they are to be compared, but all used methodologies are commonly used procedures on international level, eg. for EUROSTAT data collection. Also, most of the similar land-locked MSs are yet to develop data collection.

#### 5. Section P6 Appropriate statistical procedures

Some of the used administrative and statistical data were found only partially consistent (e.g. some of the producers are stored under different NACE codes and activities in the different databases). Differences were revealed in the national databases (between National Food Chain Safety Office vs. Statistical Database of Research Institute of Agricultural Economics).

#### 6. Section P7 Non-excessive burden on respondents

Explain main constraints and/ or steps taken, if 'N' (no) was indicated in Table 5B

#### 7. Section P8 Cost effectiveness

Automatic techniques for data capture, data coding and validation are under development.

#### 8. Section P9 Relevance

The listing of end-users was not necessary previously, it is yet to be established based on arising needs.

#### 9. Section P10 Accuracy and reliability

Explain main constraints and/ or steps taken, if 'N' (no) was indicated in Table 5B. Information on this

principle should be briefly explained in Text boxes 3A, 3B and 3C. Description of methodologies used on data quality.

10. Section P11 Timeliness and punctuality

Explain main constraints and/ or steps taken, if 'N' (no) was indicated in Table 5B

11. Section P12 coherence and comparability

Explain main constraints and/ or steps taken, if 'N' (no) was indicated in Table 5B

12. Section P13 Accessibility and Clarity

Explain main constraints and/ or steps taken, if 'N' (no) was indicated in Table 5B. Information and links to documentation on this principle should be briefly explained in Text boxes 3A, 3B and 3C. Description of methodologies used on data quality.

(max. 900 words per Region/RFMO/RFO/IO/NSB OR sector)