 **Section of Agriculture**

**Department of Animal Production**

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

Commission Implementing Decision (EU) 2016/1701 of 19 August 2016 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 of 24 August 2018 laying down rules on the format and timetables for the submission of annual data collection reports in the fisheries and aquaculture sectors.

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

2021

Version 1

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Section 1: Biological Data

**Table 1A: List of required stocks**



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 2 point (a) (i)(ii)(iii) of Chapter III of the Delegated Decision on the**multi-annual Union programme. This Table is intended to specify data to be collected under Tables 1(A), 1(B) and 1(C) of the multi-annual Union programme. Use this Table to give an overview of the collection of data at the level of area/stock. All individuals sampled shall be identified to species level and have length measurements taken, where possible.* | |
| **Name of the variable** | **Guidance** |
| **MS** | SVK |
| **Reference years** | - |
| **Species** | - |
| **Region** | - |
| **RFMO/RFO/IO** | - |
| **Area / Stock** | - |
| **Selected for sampling (Y/N)** | - |
| **Average landings in the reference years (tons)** | - |
| **EU TAC (if any) (%)** | - |
| **Share (%) in EU landings** | - |
| **Threshold (Y/N)** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 1: Biological Data

**Table 1B: Planning of sampling for biological variables**



|  |  |  |
| --- | --- | --- |
| *General comment: This Table fulfills pargraph 2 point (a) (i)(ii)(iii) of Chapter III of the Delegated Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Tables 1(A), 1(B) and 1(C) of the multi-annual Union programme. For species listed in this Table, biological parameters (length, age, weight, sex ratio, maturity and fecundity) shall be collected. For each parameter and year, enter 'X' if data collection has taken place or is planned. This Table shall allow to identify in which year(s) data is / will be collected by the Member State.* | | |
| **Name of the variable** | **Guidance** | |
| **MS** | SVK |
| **Species** | - |
| **Region** | - |
| **RFMO/RFO/IO** | - |
| **Area / Stock** | - |
| **Frequency** | - |
| **Length** | - |
| **Age** | - |
| **Weight** | - |
| **Sex ratio** | - |
| **Sexual maturity** | - |
| **Fecundity** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 1: Biological Data

**Table 1C: Sampling intensity for biological variables**



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 2 point (a) (i)(ii)(iii) of Chapter III of the Delegated Decision on the multi-annual Union programme, Chapter I of the Implementing Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Tables 1(A), 1(B) and 1(C) of the multi-annual Union programme. Explain the sampling strategy planned with regards to the biological variables.* | |
| **Name of the variable** | **Guidance** |
| **MS** | SVK |
| **MS participating in sampling** | - |
| **Sampling year** | - |
| **Species** | - |
| **Region** | - |
| **RFMO/RFO/IO** | - |
| **Area / Stock** | - |
| **Variables** | - |
| **Data sources** | - |
| **Planned minimum no of individuals to be measured at the national level** | - |
| **Planned minimum no of individuals to be measured at the regional level** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 1: Biological Data

**Table 1D: Recreational fisheries**



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 2 point (a) (iv) of Chapter III of the Delegated Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Table 3 of the Delegated Decision on the multi-annual Union programme, which also includes marine and freshwater recreational catches for anadromous and catadromous species.* | |
| **Name of the variable** | **Guidance** |
| **MS** | SVK | |
| **Sampling year** | - | |
| **Area/ EMU** | - | |
| **RFMO/RFO/IO** | - | |
| **Species** | - | |
| **Applicable (Species present in the MS?)** | - | |
| **Reasons for not sampling** | - | |
| **Threshold (Y/N)** | - | |
| **Annual estimate of catch? (Y/N)** | - | |
| **Annual percentage of released catch? (Y/N)** | - | |
| **Collection of catch composition data? (Y/N)** | - | |
| **Type of Survey** | - | |
| **Comments** | Not applicable – Slovakia is a landlocked country. | |

Section 1: Biological Data

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

|  |
| --- |
| *General comment: This Box fulfills paragraph 4 of Chapter V of the Delegated Decision on the multi-annual Union programme.* |
| 1. Aim of pilot study  *Not applicable – Slovakia is a landlocked country.*  2. Duration of pilot study  3. Methodology and expected outcomes of pilot study  *(max 900 words)* |

Section 1: Biological Data

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



|  |  |  |
| --- | --- | --- |
| *General comment: This Table fulfills paragraph 2 points (b) (c) of Chapter III of the Delegated Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Table 1(E) of the Delegated Decision on the multi-annual Union programme. Use this Table to give an overview of the data to be collected on freshwater commercial fisheries for anadromous and catadromous species.* | | |
| **Name of the variable** | **Guidance** | |
| **MS** | SVK |
| **Sampling period** | - |
| **Area** | - |
| **RFMO/RFO/IO** | - |
| **Species** | - |
| **Applicable (Y/N)** | - |
| **Reasons for not sampling** | - |
| **Water Body** | - |
| **Life stage** | - |
| **Fishery / Independent data collection** | - |
| **Method** | - |
| **Unit** | - |
| **Planned nos** | - |
| **Frequency** | - |
| **Comments** | Not applicable. Slovakia has no relevant stocks for Anadromous and Catadromous species in Slovak fresh water bodies. |

Section 1: Biological Data

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



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 3 point (a) of Chapter III of the Delegated Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Table 1(D) of the Delegated Decision on the multi-annual Union programme. Explain the sampling strategy planned.* | |
| **Name of the variable** | **Guidance** |
| **MS** | Member State's name shall be given as ISO 3166-1 alpha-3 code e.g. 'DEU'. | |
| **Sampling period/ year(s)** | - | |
| **Region** | - | |
| **RFMO/RFO/IO** | - | |
| **Sub- area / Fishing ground** | - | |
| **Scheme** | - | |
| **Stratum ID code** | - | |
| **Group of vulnerable species** | - | |
| **Expected occurence of recordings** | - | |
| **Comments** | Not applicable – Slovakia is a landlocked country. | |

Section 1: Biological Data

**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 on the multi-annual Union programme* |
| 1. Aim of pilot study  *Not applicable – Slovakia is a landlocked country.*  2. Duration of pilot study  3. Methodology and expected outcomes of pilot study  *(max 900 words)* |

Section 1: Biological Data

**Table 1G: List of research surveys at sea**



|  |  |
| --- | --- |
| *General Comment: This Table fulfills Chapter I and Chapter II of the Implementing Decision on the multi-annual Union programme. This Table is intended to specify which reseach surveys at sea set out in the Implementing Decision on the multi-annual Union programme and which additional surveys will be carried out by the Member State.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - |
| **Name of survey** | - |
| **Acronym** | - |
| **Mandatory (Y/N)** | - |
| **Threshold (Y/N)** | - |
| **Agreed at RCG level** | - |
| **MS participation** | - |
| **Area(s)**  **covered** | - |
| **Period (Month)** | - |
| **Frequency** | - |
| **Days at sea planned** | - |
| **Type of sampling activities** | - |
| **Planned target** | - |
| **Map** | - |
| **Relevant international planning group - RFMO/RFO/IO** | - |
| **International database** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 1: Biological Data

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

|  |
| --- |
| *General Comment: This Box fulfills Chapter I of the Implementing Decision on the multi-annual Union programme. It is intended to specify which reseach surveys at sea set out in the Annex to 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 Implementing Decision on the multi-annual Union programme or whether it is an additional survey.* |
| 1. Objectives of the survey  *Not applicable – Slovakia is a landlocked country.*  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 1: Biological Data

**Table 1H: Research survey data collection and dissemination**



|  |  |
| --- | --- |
| *General Comment: This Table fulfills Chapter I of the Implementing Decision on the multi-annual Union programme. This Table is intended to specify data to be collected in relation to the research surveys at sea that are described in Table 1G of this Annex.* | |
| **Name of the variable** | **-** |
| **MS** | Member State's name shall be given as ISO 3166-1 alpha-3 code e.g. 'DEU'. |
| **Name of survey** | - |
| **Acronym** | - |
| **Type of data collected** | - |
| **Core/Additional variable** | - |
| **Used as basis of advice (Y/N)** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 2: Fishing Activity Data

**Table 2A: Fishing activity variables data collection strategy**



|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *General comment: This Table fulfills provision 4 of Chapter III of the Delegated Decision on the multi-annual Union programme and Article 2. This Table is intended to state and describe the method used to derive estimates on representative samples where data are not to be recorded under Regulation (EU) No 1224/2009 (Control Regulation, latest consolidated version* [14/04/2019](https://eur-lex.europa.eu/legal-content/EN/AUTO/?uri=CELEX:02009R1224-20190414&qid=1565798936265)*) or where data collected under Regulation (EU) No 1224/2009 are not at the right aggregation level for the intended scientific use.* | | | | |
| **Name of the variable** | **Guidance** | |
| **MS** | - | |
| **Supra region** | - | |
| **Region** | - | |
| **Variable group** | - | |
| **Fishing technique** | - |
| **Length class** | |  |
| **Metiers (level 6)** | - | |
| **Data collected under control regulation appropriate for scientific use (Y/N/I)** | - | |
| **Type of data collected under control regulation used to calculate the estimates** | - | |
| **Expected coverage of data collected under control regulation (% of fishing trips)** | - | |
| **Additional data collection (Y/N)** | - | |
| **Data collection scheme** | - | |
| **Planned coverage of data collected under complementary data collection (% of fishing trips)** | - | |
| **Comments** | Not applicable – Slovakia is a landlocked country. | |

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 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.* |
| 1. Description of methodologies used to cross-validate the different sources of data  *Not applicable – Slovakia is a landlocked country.*  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)* |
|
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|

Section 3: Economic and Social Data

**Table 3A: Population segments for collection of economic and social data for fisheries**



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 5 points (a) and (b) of Chapter III of the Delegated Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Tables 5(A) and 6 of the Delegated Decision on the multi-annual Union programme. Use this Table to give an overview of the population for economic and social data in the fisheries sector.* | |
| **Name of the variable** | **Guidance** |
| **MS** | SVK |
| **Supra region** | - |
| **Fishing technique** | - |
| **Length class** |
| **Type of variables (E/S)** | - |
| **Variable** | - |
| **Data Source** | - |
| **Type of data collection scheme** | - |
| **Frequency** | - |
| **Planned sample rate %** | - |
| **Comments** | Not applicable – Within Slovak WP 2020 – 2021 no social economic data was collected, because data collection of economic and social data for aquaculture is not scheduled for period 2020-2021. The Slovak Republic is under threshold of 1 % of EU aquaculture production. |

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 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.* |
| 1. Description of methodologies used to choose the different sources of data  *Not applicable –* Within Slovak WP 2020 – 2021 no social economic data was collected, because data collection of economic and social data for aquaculture is not scheduled for period 2020-2021. The Slovak Republic is under threshold of 1 % of EU aquaculture production.*.*  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)* |

Section 3: Economic and Social Data

**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 on the multi-annual Union programme. It is intended to specify data to be collected under Table 6 of the Delegated Decision on the multi-annual Union programme.* |
| 1. Aim of pilot study  *Not applicable - no collection of data on employmnet by education level and nationality is planed for 2020-2021.*  2. Duration of pilot study  3. Methodology and expected outcomes of pilot study  *(max 900 words)* |

Section 3: Economic and Social Data

**Table 3B: Population segments for collection of economic and social data for aquaculture**



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 6 points (a) and (b) of Chapter III of the Delegated Decision on the multi-annual Union programme and Chapter II of the Implementing Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Tables 6 and 7 of the Delegated Decision on the multi-annual Union programme. Use this Table to give an overview of the collection of economic and social data of the aquaculture sector.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - |
| **Techniques** | - |
| **Species group** |
| **Type of variables (E/S)** | - |
| **Variable** | - |
| **Data Source** | - |
| **Type of data collection scheme** | - |
| **Threshold (Y/N)** | - |
| **Frequency** | - |
| **Planned sample rate %** | - |
| **Comments** | Not applicable - no collection economic and social data for aquaculture is planed for 2020-2021. The Slovak Republic is under threshold of 1 % of EU aquaculture production. |

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 Delegated Decision on the multi-annual Union programme. It is intended to specify data to be collected under Tables 6 and 7 of the Delegated Decision on the multi-annual Union programme.* |
| 1. Description of methodologies used to choose the different sources of data  *Not applicable - no collection economic and social data for aquaculture is planed for 2020-2021.* The Slovak Republic is under threshold of 1 % of EU aquaculture production.  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 3: Economic and Social Data

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

**Environmental data on pond aquaculture in Slovakia**

|  |
| --- |
| *General comment: This Box fulfills paragraph 6 point (c) of Chapter III of the Delegated Decision on the multi-annual Union programme. It is intended to specify data to be collected under Table 8 of the Delegated Decision on the multi-annual Union programme.* |
| *1. Aim of pilot study*  *Proposal for a pilot study on collecting environmental data and analysis of micropollutants in pond aquaculture in Slovakia*  *The main objectives of the proposed project, corresponding with the global developments in this area, are:*   * *monitoring the occurrence of microplastics, pesticides, hormones, toxic metals, pharmaceuticals, drugs and their metabolites in water and sediments of selected ponds in Slovakia* * *monitoring the possible distribution of micropollutants from water and sediments of selected ponds into fish* * *evaluating the possible occurrence of selected types of micropollutants, the description of their dominant sources, their distribution into fish and the environmental risk for the aquatic ecosystem in Slovakia and the on consumer.*   *Based on these findings, a detailed report with recommendations, a map of analyses and a electronic brochure for fish farmers and pond owners will be produced.*  *Aquatic ecosystem contains many different micropollutants, such as pesticides, pharmaceuticals and drugs, which may have a dangerous impact on the aquatic environment and the organisms living there. Some types of pharmaceuticals, drugs and their metabolites are capable of affecting the behaviour, reproductive capacity and other properties of aquatic organisms even in small quantities. Currently, a significant portion of foreign studies focuses on the behaviour of these micro pollutants in the environment. Scientific studies over the past five years have indicated the presence of particular drugs not only in wastewater, surface water or groundwater, but also in the bodies of aquatic organisms. In addition, some of these substances are able to accumulate in the environment as well as in the bodies of aquatic organisms and get into the food chain.*  *In this pilot study, we would like to contribute not only to the most recent scientific findings, but also to their practical use and greater protection of the environment and also get information about final fish product produced in pond environment.*  *However exist few data about this problematic, proposed pilot study is first and unique project in Slovakia that covers all the pond-aquaculture´s sector. Pilot project on the collection of environmental data and assessing the risk of micropollutant distribution into the pond aquaculture environment, a comprehensive picture of data regarding the Slovak pond aquaculture sector is to be created.*  *The aim of the proposed pilot study is to create a suitable starting point to ensure an optimal response for landlocked countries that are subject to mandatory environmental data collection in the future, including monitoring of the occurrence of micropollutants in water and sediments.*  *2. Duration of pilot study*  *2020-2021 (24 months)*  *The project will proceed in two stages. In the first stage sampling and analysis will be carried out (18 months), followed by an evaluation of results, creation of a report and a sampling map (4 months).*  *3. Methodology and expected outcomes of pilot study*  *In the proposed pilot study, we will investigate the occurrence and possible penetration of selected species of aquatic ecosystem micro pollutants into common carp (carp) in production ponds in Slovakia using highly sensitive analytical instruments and methods.**Specifically, it will be the monitoring of the occurrence and possible penetration of groups of micropollutants such as pesticides, hormones, pharmaceuticals, drugs and their possible metabolites, toxic metals or compounds from the PCB group. The monitoring will be carried out on 60 to 100 production ponds, the water of individual ponds (dominantly decanted samples), sediment below 5 mm and selected fish species (carp) will be analysed. During the pilot study, 100 samples of water (the volume of one sample will be 2 liters), 100 samples of pond sediments (the dry weight of the sediments will be 100 g), and 300 pieces of selected fish (a sample of 100 g of muscle from each subject) will be analysed. The environmental impact will be compared with possible impact on carp muscle and on the consumer.*  *Carp will be collected in live weight range 2-3 kg. From one production pond 3 carps will be collected. (approx. 300 fish to be examined). The carp will be subjected to analytical methods to evaluate the occurrence of selected specific groups of micropollutants (hormones, pharmaceuticals, drugs and their metabolites, pesticides, PCBs, toxic metals and microplastics) which can enter into fish from pond environment.*  *From a scientific point of view, it is essential that the method development and data collection on Slovak production ponds is subject at least 60 ponds to make a relevant statistical statement. Because of the different nature conditions, there are influences on the results of the survey, which cannot be determined in advance. These factors can only be determined and taken into account adequately when interpreting data in a statistically sufficiently secure data situation. Data sets from less than 60 ponds cause higher statistical uncertainties and may therefore lead to misinterpretation of data and results.*  *The analysis of individual types of micropollutant groups will be carried out using several analytical techniques:*   * *GC and LC-MS / MS (analysis of pesticides, hormones, pharmaceuticals, drugs and their metabolites or compounds of the PCB group),* * *UV-VIS spectrophotometer (selected metals, some PCBs),* * *Atomic absorption spectroscopy (AAS) (selected toxic metals)* * *FTIR / Raman spectroscopy, fluorescence and SEM electron microscopy (microplastics and nanoplastics),*   *Also the possible hormonal (estrogen) activity of the obtained samples will be investigated.*  *(max 900 words)* |

Section 3: Economic and Social Data

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



|  |  |
| --- | --- |
| *General comment: This Table fulfills paragraph 1.1(d) of Chapter III and Table 10 of the Delegated Decision on the multi-annual Union programme. This Table is intended to specify data to be collected under Table 10 of the Delegated Decision on the multi-annual Union programme. Use this Table to give an overview of the collection of economic and social data of the processing industry. Specify data collection for variables not covered by the ESTAT or for which additional sampling is required. Economic data shall be collected on fish processing companies below 10 employees as well as for companies which have fish processing as a secondary activity, as well as for unpaid labour and raw material. Employment data, by gender, shall be collected for all companies’ sizes.* | |
| **Name of the variable** | **Guidelines** |
| **MS** | - |
| **Segment** | - |
| **Type of variables (E/S)** | - |
| **Variables** | - |
| **Data Sources** | - |
| **Type of data collection scheme** | - |
| **Frequency** | - |
| **Planned sample rate %** | - |
| **Comments** | Not applicable - no collection of economic and social data for the processing industry is planed for 2020-2021. The Slovak Republic is under threshold of 1 % of EU aquaculture production. |

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 paragraph 1.1(d) of Chapter III and Table 10 of the Delegated Decision on the multi-annual Union programme. It is intended to specify data to be collected under Table 10 of the Delegated Decision on the multi-annual Union programme.* |
| 1. Description of methodologies used to choose the different sources of data  *Not applicable - no collection of economic and social data for the processing industry is planed for 2020-2021.* The Slovak Republic is under threshold of 1 % of EU aquaculture production.  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

**Table 4A: Sampling plan description for biological data**



|  |  |
| --- | --- |
| *General Comment: This Table forms the basis for the fulfilment of paragraph 2 point (a)(i) of Chapter III of the Delegated Decision 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 Delegated Decision on the multi-annual Union programme. Use this Table to identify all fishery-dependent sampling schemes in the Member State. The Member State shall list the strata within the scheme, the primary sampling unit (PSU) type and the envisaged number of PSU that will be available in the year of submission. For each stratum, Member State shall record the number of PSUs it is planning to undertake.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - |
| **MS participating in sampling** | - |
| **Region** | - |
| **RFMO/RFO/IO** | - |
| **Sub-area / Fishing ground** | - |
| **Scheme** | - |
| **Stratum ID code** | - |
| **PSU type** | - |
| **Catch fractions covered** | - |
| **Species/Stocks covered for estimation of volume and length of catch fractions** | - |
| **Seasonality (Temporal strata)** | - |
| **Reference years** | - |
| **Average Number of PSU during the reference years** | - |
| **Planned number of PSUs** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 4: Sampling Strategy for Biological Data from Commercial Fisheries

**Text Box 4A: Sampling plan description for biological data**

|  |
| --- |
| *General Comment: This Box forms the basis for the fulfilment of paragraph 2 point (a)(i) of Chapter III of the Delegated Decision 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 Delegated Decision on the multi-annual Union programme.* |
| Description of the sampling plan according to Article 5 paragraph (3) of this Decision  *Not applicable – Slovakia is a landlocked country.*  *(max 900 words per Region)* |

Section 4: Sampling Strategy for Biological Data from Commercial Fisheries

**Table 4B: Sampling frame description for biological data**



|  |  |
| --- | --- |
| *General Comment: This Table forms the basis for the fulfilment of paragraph 2 point (a)(i) of Chapter III of the Delegated Decision 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 Delegated Decision on the multi-annual Union programme. Use this Table to provide more detail on the strata and sampling frames of each scheme.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - | |
| **Stratum ID code** | - | |
| **Stratum** | - | |
| **Sampling frame description** | - | |
| **Method of PSU selection** | - | |
| **Comments** | Not applicable – Slovakia is a landlocked country. | |

Section 4: Sampling Strategy for Biological Data from Commercial Fisheries

**Table 4C: Data on the fisheries by member state**



|  |  |  |
| --- | --- | --- |
| *General comment: This Table forms the basis for the fulfilment of paragraph 2 point (a) (i)(ii)(iii) of Chapter III of the Delegated Decision 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 Delegated Decision on the multi-annual Union programme. Use this Table to summarize the size and activity of the national fleet.* | | |
| **Name of the variable** | **Guidance** | |
| **MS** | - |
| **Region** | - |
| **RFMO/RFO/IO** | - |
| **Sub-area / Fishing ground** | - |
| **Reference years** | - |
| **Fleet Segment /metier** | - |
| **Targeted Species / species assemblage** | - |
| **Average Number of vessels** | - |
| **Average Number of fishing trips** | - |
| **Average Number of fishing days** | - |
| **Average landings (tons)** | - |
| **Average landings (tons) in national ports** | - |
| **Average landings (tons) in foreign ports** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. |

Section 4: Sampling Strategy for Biological Data from Commercial Fisheries

**Table 4D: Landing locations**



|  |  |
| --- | --- |
| *General comment: This Table forms the basis for the fulfilment of paragraph 2 point (a) (i)(ii)(iii) of Chapter III of the Delegated Decision 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 Delegated Decision on the multi-annual Union programme. Use this Table to summarize the characteristics of the landings into the Member State.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - | |
| **Region** | - | |
| **Sub-area / Fishing ground** | - | |
| **Reference years** | - | |
| **Landing locations(s)** | - | |
| **Average number of locations** | - | |
| **Average number of registered landings** | - | |
| **Average landed tonnage** | - | |
| **Average landed tonnage of national fleet** | - | |
| **Average landed tonnage of foreign fleet** | - | |
| **Comments** | Not applicable – Slovakia is a landlocked country. | |

Section 5: Data Quality

**Table 5A: Quality assurance framework for biological data**



|  |  |
| --- | --- |
| *General comment: This Table is intended to specify data to be collected under Tables 1(A), 1(B) and 1(C) of the Delegated Decision on the multi-annual Union programme. Use this Table to state whether documentation in the data collection process (design, sampling implementation, data capture, data storage and data processing) exists and identify where this documentation can be found. Names on sampling schemes and strata shall be identical to those in Tables 4A and 4B of this Annex.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - |
| **MS participating in sampling** | - |
| **Sampling year/ period** | - |
| **Region** | - |
| **RFMO/RFO/IO** | - |
| **Name of sampling scheme** | - |
| **Sampling frame** | - |
| **Is the sampling design documented?** | - |
| **Where can documentation on sampling design be found?** | - |
| **Are non-responses and refusals recorded ?** | - |
| **Are quality checks to validate detailed data documented?** | - |
| **Where can documentation on quality checks for data capture be found?** | - |
| **In which national database are data stored?** | - |
| **In which international database(s) are data stored?** | - |
| **Are processes to evaluate data accuracy (bias and precision) documented?** | - |
| **Where can documentation on processes to evaluate accuracy be found?** | - |
| **Are the editing and imputation methods documented?** | -. |
| **Where can documentation on editing and inputation be found?** | - |
| **Comments** | Not applicable – Slovakia is a landlocked country. The Slovak Republic is under threshold of 1 % of EU aquaculture production. |

Section 5: Data Quality

**Table 5B: Quality assurance framework for socio-economic data**



|  |  |
| --- | --- |
| *General comment: This Table is intended to specify data to be collected under Tables 5(A), 6 and 7 of the Delegated Decision on the multi-annual Union programme. Use this Table to state whether documentation in the data collection process exists and identify where this documentation can be found.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - |
| **Sampling year/period** | - |
| **Region** | - |
| **RFMO/RFO/IO/NSB** | - |
| **Name of data collection scheme** | - |
| **Name of data sources** | - |
| **Statistically sound sources and methods** | - |
| **Error checking** | - |
| **Are procedures for confidential data handling in place and documented?** | - |
| **Are protocols to enforce confidentiality between DCF partners in place and documented?** | - |
| **Are protocols to enforce confidentiality with external users in place and documented?** | - |
| **Is sound methodology documented ?** | - |
| **Does it follow international standards, guidelines and best practices?** | - |
| **Are methodologies consistent at MS, regional and EU level?** | - |
| **Is there consistency between administrative and other statistical data?** | - |
| **Are there agreements for access and quality of administrative data between partners?** | - |
| **Are data collection, entry and coding checked?** | - |
| **Are editing and imputation methods used and checked?** | - |
| **Are revisions documented and available?** | - |
| **Is duplication of data collection avoided?** | - |
| **Do automatic techniques for data capture, data coding and validation exist?** | - |
| **Are end-users listed and updated?** | - |
| **Are sources, intermediate results and outputs regularly assessed and validated?** | - |
| **Are errors measured and documented?** | - |
| **Are procedures in place to ensure timely execution?** | - |
| **Are procedures in place to monitor internal coherence?** | -. |
| **Are statistics comparable over time?** | - |
| **Are methodological documents publicly available?** | - |
| **Are data stored in databases?** | - |
| **Where can documentation be found?** | - |
| **Comments** | Not applicable - no collection of economic and social data for is planed for 2020-2021. The Slovak Republic is under threshold of 1 % of EU aquaculture production. |

Section 6: Data Availability

**Table 6A: Data availability**



|  |  |
| --- | --- |
| *General Comment: This Table fulfills Article 6 of this Decision. Use this Table to provide information on data availability to end-users per data set.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - | |
| **Data set** | - | |
| **Section** | Pilot Study 4: Environmental data on aquaculture | |
| **Variable group** | - | |
| **Year(s) of WP implementation** | 2020-2021 | |
| **Reference year** | 2020-2021 | |
| **Final data available after** | 5/2022 | |
| **Comments** | Only Pilot Study 4: Environmental data on aquaculture will by planed. "Pilot study 4 was not implemented due to COVID - 19 pandemic situation. The market research for pilot study 4 in slovakia has been extended. We did not obtain 3 price offers for implementation. The project was developed to a new work plan and the project will be implemented in the years 22 - 24.  the market research in slovakia has been extended. we did not obtain 3 price offers for implementation, then a new work plan was developed and the bproject will be implemented in the years 22 24  " | |

Section 7: Coordination

**Table 7A: Planned regional and international coordination**



|  |  |
| --- | --- |
| *General Comment: Use this Table to provide information on the planned participation of the Member State to meetings relevant for data collection under the DCF.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - | |
| **Acronym** | - | |
| **Name of the meeting** | - | |
| **RFMO/RFO/IO** | - | |
| **Planned MS participation** | - | |
| **Comments** | Slovakia is not planing to attand regional meetings. | |

Section 7: Coordination

**Table 7B: Follow-up of recommendations and agreements**



|  |  |
| --- | --- |
| *General Comment: Use this Table to provide information on how the Member State plans to fulfill the recommendations and agreements relating to data collection under the DCF at the European and international level.* | |
| **Name of the variable** | **Guidance** |
| **MS** | - | |
| **Region** | - | |
| **RFMO/RFO/IO** | - | |
| **Source** | - | |
| **Section** | - | |
| **Topic** | - | |
| **Recommendation Number** | - | |
| **Recommendation/ Agreement** | - | |
| **Follow-up action** | - | |
| **Comments** | Slovakia is planing to carry out one pilot study under Section 3 Environmental data on aquaculture | |

Section 7: Coordination

**Table 7C: Bi- and multi-lateral agreements**



|  |  |
| --- | --- |
| *General Comment: Use this Table to provide information on the agreements with other Member States and how European and international obligations are met.* | |
| **Name of the variable** | **Guidance** |
| **MSs** | - | |
| **Contact persons** | - | |
| **Content** | - | |
| **Coordination** | - | |
| **Description of sampling / sampling protocol / sampling intensity** | - | |
| **Data transmission** | - | |
| **Access to vessels** | - | |
| **Validity** | - | |
| **Comments** | Slovakia is not planing any bi or multilateral agreements undar 2020-2021 data collection. | |
|  |  | |