Food and Agriculture Organization of the United Nations

**UN Committee of Experts on Food Security, Agricultural and Rural Statistics (UN-CEAG) – 2024**

Task team on

**Data quality standards and assessment framework for key food and agricultural data**

**National Quality Assurance Framework (NQAF) for Agriculture Statistics**

# Checklist for self-Assessment Crops & Livestock Statistics Scoring Mechanism and Template for Report

# Introduction

Sound food and agricultural statistics are essential to support the national and international development agenda, particularly regarding the achievement of the Sustainable Development Goals (SDGs). In this regard, the existence of data quality standards and National Quality Assessment Frameworks (NQAFs) for food and agricultural statistics is critical for ensuring that food and agricultural statistics are "fit for purpose".

The literature on data quality is quite vast, the most popular statistics QAF have many common features and typically show a "cascading" structure. Both, the UN NQAF (2019 edition) and the IMF DQAF (2012) agree on the fact that a QAF should look to the quality of the statistical institution, the quality of the statistical processes and the quality of the statistical product; in addition, the UN NQAF suggests the need to look at the overall national statistical system within which the different agencies producing and disseminating the national statistics operate.

The checklist is based on both the UN 2019 NQAF and the IMF DQAF; it encompasses three levels of analysis:

Level 2: Managing the institutional environment
Level 3: Managing statistical processes
Level 4: Managing statistical outputs
- 4.1 Relevance
- 4.2: Accuracy and reliability
- 4.3: Timeliness and punctuality
- 4.4: Accessibility and clarity
- 4.5: Coherence and comparability

Level 4 identifies the dimensions to consider in assessing the quality of the final food and agriculture statistical outputs disseminated by the national agency/agencies producing them. The listed dimensions are in line with the most popular approaches.

The checklist is specifically tailored to crops and livestock statistics and an investigation of the key characteristics of the statistical process (level 3) and the statistical outputs (level 4). At level 3 the checklist focuses on the traditional sample survey process, given that in most of the developing countries and part of developed countries, crop and livestock statistics are the outcome of a sample survey (or a set of sample surveys). The level 4 in addition to the quality dimensions investigates also the management of metadata.

The checklist is a self-assessment tool that should be compiled by the officer(s) in charge of the crop and livestock statistics in a system-wide collaborative effort, as relevant. The questions are organized in sections according to "if-then" scenarios; there are both informative questions and assessment questions. The objective of the checklist it to perform an assessment by joining the mechanisms underlying the 2019 UN NQAF Manual and the IMF's DQAF. In particular, most of the assessment-type questions in the checklist allow scoring using just four possible answers:

full implementation => score=1
Partial implementation => score=0.5
Not implemented => score=0
NA => Not Applicable

Basically, the checklist on crops and livestock statistics includes about 200 questions that can be used for scoring purposes (for details on the questions and the corresponding scoring mechanism see Annex 1) but the final number of filled-in scoring questions is smaller depending on the routing patterns and the specific situation (singe survey vs. multiple surveys; crops and livestock data collected in the same survey or in

independent surveys). The elementary scores should be averaged by level of the UN NQAF using the mapping table reported in Annex 2.

The scores for the process (level 3) can be further be disaggregated by its main phases (some of the elements of the GSBPM) while those related to the statistical outputs (level 4) can be disaggregated by quality dimensions. The maximum level of detail for calculating scores can be achieved when two independent surveys are carried out for investigating separately crops and livestock statistics, respectively:

| | general | crops | livestock |
|---|---|---|---|
| Level_2 resources | *aver. score* | - | - |
| Level_3 design | *aver. score* | *aver. score* | *aver. score* |
| Level_3 data_collect | - | *aver. score* | *aver. score* |
| Level_3 data_treat | - | *aver. Score* | *aver. score* |
| Level_3 data_process | - | *aver. score* | *aver. score* |
| Level_4.1 relevance | - | *aver. score* | *aver. score* |
| Level_4.2 accuracy&reliability | - | *aver. score* | *aver. score* |
| Level_4.3 timeliness&punctuality | - | *aver. score* | *aver. score* |
| Level_4.4 accessibility&clarity | - | *aver. score* | *aver. score* |
| Level_4.5 comparability&coherence | - | *aver. score* | *aver. score* |
| Level_4.6 metadata management | - | *aver. score* | *aver. score* |

When a single survey investigates both crops and livestock, then a unique scores for level 3 can be calculated.

This disaggregation permits to compile a summary report in line with the Reports on the Observance of Standards and Codes (ROSC) prepared by the IMF DQAF that has the following structure (full template is in the Annex 3):

| **Level** | **Item** | **Outcome*** | **Major identified weaknesses (only for outcome LNO and NO)** |
|---|---|---|---|
| **Level 2. Adequacy of resources** | 2.2 Assuring Adequacy of resources in producing Crops & Livestock Statistics | | |
| **3. Statistical Process** | 3.1 Design | | |
| | 3.2 Data collection | | |
| | 3.3 Data treatment | | |
| | 3.4 Data processing | | |
| **4. Quality of the statistical outputs** | 4.1 Relevance | | |
| | 4.2 Accuracy and Reliability | | |
| | 4.3 Timeliness and Punctuality | | |
| | 4.4 Accessibility and Clarity | | |
| | 4.5 Comparability and Coherence | | |
| | 4.6 Management of metadata | | |

The "outcome" column should report the final rating, in line with the IMF practice that adopts a four-point rating scale:

**O = "practice observed"**: the current practices generally meet internationally accepted best practices/guidelines without any significant deficiencies. This result is achieved when the average score achieved for the checklist's assessment questions pointing to the item are **greater than 0.80**

**LO = "Practice largely observed"**: some departures from internationally accepted best practices/guidelines, but these are not seen as insufficient. This result is achieved when the average score achieved for the checklist's assessment questions pointing to the item are **greater than 0.50 and less or equal to 0.80**

**LNO = "Practice largely not observed"**: significant departures from internationally accepted best practices/guidelines which will need to take improvement actions. This result is achieved when the average score achieved for the checklist's assessment questions pointing to the item are **greater or equal than 0.20 and less or equal to 0.50**

**NO = "Practice not observed"**: internationally accepted best practices/guidelines are not met. Urgent improvement actions need to be undertaken. This result is achieved when the average score achieved for the checklist's assessment questions pointing to the item are **less than 0.20**

**NA = "Not applicable"**: when some items/practices do not apply to a country's circumstances

Note that the use of "LO" and "LNO" is intended to allow the assessor to make a subjective judgement regarding the degree or extent to which the practice is "partially" observed. Adopting a similar approach has value as many NSOs (and other national authorities) will be familiar with the ROSC assessment where a summary assessment by agency and dataset based on a four-part scale was followed by a separate section offering staff recommendations, where relevant.

# Annex 1 – Questions used for scoring purposes

# Part I – National [CROPS] and [LIVESTOCK] statistics

## I.1 Section Assuring Adequacy of resources

*UN NQAF, Level B- Managing the institutional environment, Principle 9- Assuring adequacy of resources*
*IMF DQAF. 0.2 Prerequisites for quality – Resources (0.2.1)*

| | | |
|---|---|---|
| **1.** | **In your Agency, are financial resources sufficient to implement the statistical work and development program(s) needed for producing [CROPS] and [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **2.** | **In your Agency, are human resources sufficient to implement the statistical work and development program(s) needed for producing [CROPS] and [LIVESTOCK] statistics?**<br>[single choice]<br>4. ☐ Yes, fully<br>5. ☐ Yes, partially<br>6. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **3.** | **In your Agency, are the computing IT and the other technological resources sufficient to implement the statistical work and development program(s) needed for producing [CROPS] and [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |

## Part II – National [CROPS] statistics

*The following part of the self-assessment investigates uniquely [CROPS] statistics*

## Section II.1 – Introduction

| | | |
|---|---|---|
| **4.** | **Do you have a statistical process (sample survey, administrative data, mixed sources, etc.) that ensures the production and dissemination of [CROPS] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No, please explain | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **5.** | **If previous question in [1,2]**<br>**How is the statistical process articulated?**<br>[single choice]<br>1. ☐ Single *ad hoc* sample survey<br>2. ☐ Data on [CROPS] collected in a general-purpose agriculture survey<br>3. ☐ Set of independent agriculture sample surveys<br>4. ☐ Administrative register/s<br>5. ☐ Combination of survey and administrative register<br>6. ☐ Earth observation data<br>7. ☐ Combination of survey and earth observation data<br>8. ☐ Combination of survey, administrative and earth observation data<br>9. ☐ Other, please specify: [free text] | |

## Section II.2 – The statistical Process (survey)

*UN NQAF Level C - Managing statistical processes, Principle 10 - Assuring methodological soundness*
*UN NQAF Level C - Managing statistical processes, Principle 12 - Assuring appropriate statistical procedures*
*UN NQAF Level C - Managing statistical processes, Principle 13 - Managing the respondent burden*
*IMF DQAF 2. - Methodological Soundness*
*IMF DQAF 3.3 Statistical Techniques*

**To be filled IF the statistical process needed for producing [CROPS]' statistics involves one or more surveys (see previous question)**

| | |
|---|---|
| **6.** | **Are you aware of the "Handbook on the Agricultural Integrated Survey – AGRIS" prepared by the Global Strategy to improve Agricultural and Rural Statistics (published in 2017)?**<br>http://www.fao.org/3/ca6412en/ca6412en.pdf<br>[single choice]<br>1. ☐ Yes and we are already implementing it (fully or in part)<br>2. ☐ Yes and we are planning to implement it (fully or in part)<br>3. ☐ Yes we know of its existence but we are NOT using or planning to use it<br>4. ☐ No |
| **7.** | **Please indicate the type of survey(s)**<br>[single choice]<br>1. ☐ Single annual survey (with only one wave) that collects [CROPS]' production data for the last agricultural year<br>2. ☐ Survey with different waves that collects [CROPS]' production data for the different campaigns during the single year<br>3. ☐ Other, please explain. |

## II.2.1 – The main variables

*GSBPM 2.2 – Design Variable Description*

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|---|---|---|
| **8.** | **Are the survey statistical units clearly defined?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **9.** | **IF already implementing or planning to implement the AGRIS**<br>**Is the definition of statistical units coherent with the AGRIS recommendations?**<br>*(Section 4.1.1.4. of the AGRIS Manual)*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No, please explain | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **10.** | **Which of the following sections are included in the survey questionnaire?**<br>*(please note that they are part of – but not exclusive to - the AGRIS core module)*<br>[multiple choice]<br>1. ☐ General information on the holding<br>2. ☐ Information on holders and managers<br>3. ☐ Data on crop production during the reference period<br>4. ☐ General information on the household of the holders and co-holders<br>5. ☐ general information on household dwelling and assets | |

| | | |
|---|---|---|
| **11.** | **Please indicate the type of [CROPS] data being collected?**<br>[single choice]<br>1. ☐ [CROPS] production during the reference period for all harvests<br>2. ☐ [CROPS] production during the reference period only for the main harvest<br>3. ☐ Other please explain | |
| **12.** | **Which of the following variables are collected by type of crop?**<br>[multiple choice]<br>1. ☐ Area planted<br>2. ☐ Area harvested<br>3. ☐ Production (quantity harvested)<br>4. ☐ Value of production<br>5. ☐ Total agricultural area by observation unit (farm or household)<br>6. ☐ [CROPS] intention for the next season | |
| **13.** | **Is the survey on [CROPS] collecting data (volume of crop products sold and crop revenues) that support compiling SDG indicators 2.3.1 and 2.3.2?**<br>*(SDG 2.3.1: Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size; Indicator 2.3.2: Average income of small-scale food producers, by sex and indigenous status)*<br>*https://unstats.un.org/sdgs/metadata?Text=&Goal=2&Target=2.3*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not applicable (e.g. the needed data are collected in a different survey, etc.) | 1 “Yes, fully”-> Score 1<br>2 “yes, partially”-> Score 0.5<br>3 “No” -> 0<br>4 “NA” -> no score |

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| **14.** | **Is the survey on [CROPS] collecting the data needed to compile the SDG indicator 2.4.1?**<br>*(Indicator 2.4.1: Proportion of agricultural area under productive and sustainable agriculture)*<br>*https://unstats.un.org/sdgs/metadata?Text=&Goal=2&Target=2.4*<br>[single choice]<br>1. ☐ Yes, for all the domains (sub-indicators)<br>2. ☐ Yes, for most of the domains (sub-indicators)<br>3. ☐ Yes, but for a limited number of domains (sub-indicators)<br>4. ☐ No<br>5. ☐ Not applicable (e.g. the needed data are collected in a different survey, etc.) | 1 & 2"Yes, for…"-> Score 1<br>3 "yes, but…"-> Score 0.5<br>4 "No" -> 0<br>5 "NA" -> no score |
| **15.** | **Is the survey on [CROPS] collecting the data needed to compile the SDG indicators 5.a.1?**<br>*(Indicator 5.a.1: (a) Proportion of total agricultural population with ownership or secure rights over agricultural land, by sex; and (b) share of women among owners or rights-bearers of agricultural land, by type of tenure)*<br>*https://unstats.un.org/sdgs/metadata?Text=&Goal=5&Target=5.a*<br>[single choice]<br>1. ☐ Yes, completely<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not applicable (e.g. the needed data are collected in a different survey, etc.) | 1 -> Score 1<br>2 -> Score 0.5<br>3 "No" -> 0<br>4 "NA" -> no score |

## II.2.2 – The sample and the sampling frame

*GSBPM 2.4 Design Frame and Sample*
*GSBPM 4.1 create Frame and Select Sample*

**If [CROPS] statistics are the output of a single sample survey selected from a single frame**

| | | |
|---|---|---|
| **16.** | **Are [CROPS] statistics obtained as the output of a stand-alone sample survey with a sample selected from a single frame?**<br>[single choice]<br>1. ☐ Yes **[GO to question 17]**<br>2. ☐ No **[GO to question 28]** | |
| **17.** | **Is [CROPS] survey based on a sample?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **18.** | **IF "Yes" to previous question**<br>**Is probabilistic sampling adopted?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 "Yes"-> Score 1<br>2 "No" -> 0 |

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|---|---|---|
| **19.** | **IF "Yes" to previous question**<br>**Is the sample designed in accordance with well-known standards?**<br>*(typically sample on household adopt a stratified two stage sampling design while a sample of agriculture holdings is selected using a stratified one-stage sampling design; see e.g. Chapter 5 in the AGRIS Manual)***?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **20.** | **Is the sample designed to give <u>national</u> estimates of [CROPS] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important national [CROPS] product<br>2. ☐ Yes, but only for few important national [CROPS] product<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **21.** | **Is the sample designed to provide <u>sub-national</u> (district/province level) estimates of [CROPS] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important [CROPS] product<br>2. ☐ Yes, but only for few important [CROPS] product, depending on the region<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |
| **22.** | **Is the sampling frame currently used to design and extract the sample being maintained and is it assessed whether is it adequate for the survey objectives?**<br>[single choice]<br>1. ☐ Yes on a regular basis<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 "Yes, on…"-> Score 1<br>2 "yes, but…"-> Score 0.5<br>3 "No" -> 0 |

| | | |
|---|---|---|
| **23.** | **In developing and maintaining a sampling frame, are you following the suggestions of the FAO Handbook on master sampling frame?** *http://www.fao.org/3/ca6398en/ca6398en.pdf*<br>[single choice]<br>1. ☐ Yes, completely<br>2. ☐ Yes, partially<br>3. ☐ No, please explain | |
| **24.** | **Which are the main problems in the sampling frame?**<br>[multiple choice]<br>1. ☐ Under-coverage (not all the units are included in the frame)<br>2. ☐ Over-coverage (part of the units included in the frame should not be there)<br>3. ☐ Outdated information<br>4. ☐ Missing data<br>5. ☐ Other, please explain | |
| **25.** | **Have you assessed the extent of <u>under-coverage</u> in the sampling frame?**<br>[single choice]<br>1. ☐ No, as it can be considered negligible<br>2. ☐ No, it is NOT negligible but we were not able to measure its extent<br>3. ☐ Yes, and it is negligible (below 10%)<br>4. ☐ Yes, and it is NOT negligible. Please specify: … | 1 "No, as"-> Score 0.5<br>2 "No, it is not…"-> Score 0<br>3 OR 4 "Yes…" -> 1 |
| **26.** | **Have you assessed the extent of <u>over-coverage</u> in the sampling frame?**<br>[single choice]<br>1. ☐ No, as it can be considered negligible<br>2. ☐ No, it is NOT negligible but we were not able to measure its extent<br>3. ☐ Yes, and it is negligible (below 10%)<br>4. ☐ Yes, and it is NOT negligible | 1 "No, as"-> Score 0.5<br>2 "No, it is not…"-> Score 0<br>3 OR 4 "Yes…" -> 1 |
| **27.** | **Does the sampling frame include outdated information?**<br>[multiple choice]<br>1. ☐ Yes, information needed for sampling design (e.g. stratification variables, etc.)<br>2. ☐ Yes, information needed for contacting units<br>3. ☐ Yes, information not needed for sampling purposes or for contacting units<br>4. ☐ Other, please explain: … | |

**If [CROPS] statistics are the output of a set of samples selected from different frames**

| | | |
|---|---|---|
| **28.** | **Which are the main reasons for having different sampling frames?**<br>[single choice]<br>1. ☐ Each frame refers to a different type of sample units (e.g. Agriculture households in one frame and commercial farms in the other)<br>2. ☐ The frames refer to the same sampling units but cover different sub-sets of the target population<br>3. ☐ The frames refer to the same sampling units but come from different sources and cannot be integrated<br>4. ☐ Other, please explain: | |
| **29.** | **Are the different samples (each selected form one of the available frames) selected using a probabilistic mechanism?**<br>[single choice]<br>1. ☐ Yes, all the samples<br>2. ☐ Yes, only some of the samples<br>3. ☐ No | 1 "Yes, all…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0 |
| **30.** | **IF "Yes" to previous question**<br>**Are the samples designed in accordance with the well-known standards?**<br>*(typically sample on household adopt a stratified two stage sampling design while a sample of agriculture holdings is selected using a stratified one-stage sampling design; see e.g. Chapter 5 in the AGRIS Manual)***?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |
| **31.** | **Are the various samples designed to provide national estimates of [CROPS] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important national [CROPS] product<br>2. ☐ Yes, but only for few important national [CROPS] product<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |

| | | |
|---|---|---|
| **32.** | **Are the various samples designed to provide <u>sub-national</u> estimates of [CROPS] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important [CROPS] product for each region<br>2. ☐ Yes, but only for the few important [CROPS] product at regional level<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **33.** | **Is there the risk of overlapping between the distinct frames used to select the various samples?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Don't Know | |
| **34.** | **IF "Yes" to previous question**<br>**Have you assessed the potential overlapping between frames?**<br>[single choice]<br>1. ☐ Yes, by carrying out a tailored study<br>2. ☐ Yes, but only approximately<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> score to be decided<br>4 -> 0 |
| **35.** | **Which are the main problems in the sampling frames?**<br>[multiple choice]<br>1. ☐ Undercoverage (not all the units are included in the frame)<br>2. ☐ Overcoverage (part of the units included in the frame should not be there)<br>3. ☐ Outdated information<br>4. ☐ Missing data<br>5. ☐ Other, please explain | |

**For ALL**

| | | |
|---|---|---|
| **36.** | **Is the work done on sampling frame(s) and the used sampling design(s) documented?**<br>[single choice]<br>1. ☐ Yes, full documentation is available<br>2. ☐ Yes, partial documentation is available<br>3. ☐ No | 1 "Yes, full…"-> Score 1<br>2 "Yes, partial…"-> Score 0.5<br>3 "No"-> Score 0 |

## II.2.3 Data collection

*GSBPM 2.1 Design Collection*
*GSBPM 4. Collect*

| | | |
|---|---|---|
| **37.** | **Is data collection designed to implement Computer Assisted Interview?**<br>[single choice]<br>1. ☐ Yes, for all the units<br>2. ☐ Yes, but not for all the units<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **38.** | **Is the survey questionnaire designed to facilitate the data collection and reduce the response burden on respondents?**<br>*(e.g. a well-designed skip pattern, well-written sentences easy to be understood, removal of unnecessary questions whose information does not contribute to dissemination, etc.)*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, completely"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |

| | | |
|---|---|---|
| **39.** | **Is data collection carried out by interviewers?**<br>[single choice]<br>1. ☐ Yes, for all the units<br>2. ☐ Yes, but only of a subset of units<br>3. ☐ No | |
| **40.** | **IF "Yes" to the previous question**<br>**Is on-field data collection organized to allow efficient work for interviewers and avoid excessive workload?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |
| **41.** | **Do you have an automated monitoring system for data collection?**<br>[single choice]<br>1. ☐ Yes, it permits to monitor the data collection on a regular basis (daily or weekly)<br>2. ☐ Yes, but it does not permit to monitor the data collection on a regular basis<br>3. ☐ No | 1 "Yes, it…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **42.** | **Did you test the data collection in advance?**<br>[single choice]<br>1. ☐ Yes, completely (questionnaire, organization of the on-field work, interviewing phase, …)<br>2. ☐ Yes, partially (only some aspects). Please explain:<br>3. ☐ No | 1 "Yes, completely"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |

## II.2.4 Data treatment

*GSBPM 5.3 Review and validate*
*GSBPM 5.3 Edit and impute*

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|---|---|---|
| **43.** | **Do you check collected data for errors (missing values, outliers, incoherent values, etc.)?**<br>[single choice]<br>1. ☐ Yes, for almost all the variables in the questionnaire<br>2. ☐ Yes, only for the most important variables<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0 |
| **44.** | **IF "yes" to previous question**<br>**How do you detect errors in [CROPS] data?**<br>[single choice]<br>1. ☐ In a fully automatic way and part of the checks are already in the electronic questionnaire<br>2. ☐ In a fully automatic way but after the data collection<br>3. ☐ partly in automatic way and partly through manual checks (clerical revision)<br>4. ☐ only through manual checks (clerical revision)<br>5. ☐ Other, please explain | 1 OR 2 -> Score 1<br>3 -> Score 0.5<br>4 "No"-> Score 0<br>Other -> score tbd |
| **45.** | **Do you impute missing values?**<br>[single choice]<br>1. ☐ Yes, for almost all the variables in the questionnaire<br>2. ☐ Yes, only for the most important variables<br>3. ☐ No<br>4. ☐ Not applicable (missing values are not present) | 1 "Yes, for…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0<br>4 -> No score |
| **46.** | **IF "yes" to previous question**<br>**How do you impute missing values?**<br>[single choice]<br>1. ☐ In an automatic way by applying well-known statistical methods (e.g. nearest neighbour donor imputation, regression imputation, etc.)<br>2. ☐ A mixed approach involving both imputation using statistical methods and manual imputation carried out by clerks being subject matter experts<br>3. ☐ Only manual imputation carried out by clerks being subject matter experts | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

| | | |
|---|---|---|
| **47.** | **Are the data treatment procedures (detection of errors, outlier and imputation) documented?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 “Yes, fully”-> Score 1<br>2 “Yes, partially”-> Score 0.5<br>3 “No”-> Score 0 |

## II.2.5 Weighting

*GSBPM 5.6 Calculate weights*

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| **48.** | **Do you modify the initial sample weights for compensating for unit nonresponse or for aligning survey estimates with known population totals (weights calibration or post-stratification)?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Not applicable (sample survey non adopted or nonprobability sampling is considered) | |
| **49.** | **IF “Yes” to previous question**<br>**Is the re-weighting procedure documented?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 “Yes, fully”-> Score 1<br>2 “Yes, partially”-> Score 0.5<br>3 “No”-> Score 0 |

## II.2.6 Data processing and data backup

*GSBPM 5.7 Calculate aggregates*
*GSBPM 5.7 Finalize data files*

| | | |
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| **50.** | **Do you check the final data-processing step (aimed at calculating the final [CROPS] estimates) for potential errors?**<br>[single choice]<br>1. ☐ Yes, the software codes have been extensively tested and checked in advance<br>2. ☐ yes, only if the software code returns an error<br>3. ☐ No | 1 "Yes, the…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0 |
| **51.** | **Are the final estimates compared with other estimates before their disseminations?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Not applicable | 1 > Score 1<br>2 -> Score 0<br>3 -> NO Score |
| **52.** | **IF "Yes" to previous question**<br>**In case of discrepancies to do you modify the estimates so to ensure coherence with other estimates**<br>[single choice]<br>1. ☐ Yes, all the estimates<br>2. ☐ Yes, some of them<br>3. ☐ No | |
| **53.** | **Have you implemented an IT procedure for doing backup of the data?**<br>[single choice]<br>1. ☐ Yes, regularly at the end of the main phase of the statistical process<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 "Yes, regularly…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |

## II.3 Managing [CROPS] Statistical Outputs

## II.3.1 Relevance

*UN NQAF Level D – Managing statistical outputs, Principle 14 Assuring relevance*
*IMF DQAF. 0.3 Prerequisites for quality – Relevance (0.3.1)*

| | | |
|---|---|---|
| **54.** | **Please indicate the coverage in terms of [CROPS] products?**<br>[single choice]<br>1. ☐ The survey covers ALL the products of agriculture relevant (Division 01 in CPC 2.1) at national level (say covering at least the 90% of the whole national [CROPS] production)<br>2. ☐ The survey covers only the main products of agriculture relevant (Division 01 in CPC 2.1) at national level (say covering from the 60% to 90% of the whole national [CROPS] production)<br>3. ☐ The survey covers only a small subset of products of agriculture relevant (Division 01 in CPC 2.1) at national level<br>4. ☐ Other please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> Score tbd |
| **55.** | **Does the survey include horticulture product?**<br>[single choice]<br>1. ☐ Yes, the main horticulture products<br>2. ☐ Yes, few horticulture products<br>3. ☐ No<br>4. ☐ Not applicable (horticulture is not relevant or data collected in another survey) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> no Score |
| **56.** | **Do the currently disseminated [CROPS] statistics satisfy the main needs of both National and international users?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Don't know | 1 -> Score 1<br>2 -> Score 0.5<br>3 or 4-> Score 0 |

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| **57.** | **Do the currently disseminated [CROPS] statistics satisfy the main needs of both National and international users in terms of disaggregation (territorial, by type of farms, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Don't know | 1 -> Score 1<br>2 -> Score 0.5<br>3 OR 4 -> Score 0 |
| **58.** | **Do you have a mechanism (survey, committee) to monitor user's satisfaction with [CROPS] statistics and understanding also their unmet needs?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **59.** | **IF "Yes" to previous**<br>**Are the unmet needs prioritized and taken into account to improve the statistical production process of [CROPS] statistics and the corresponding quality?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## II.3.2 Accuracy and Reliability

*UN NQAF Level D – Managing statistical outputs, Principle 15 Assuring Accuracy and Reliability*
*IMF DQAF 3. Accuracy and reliability, 4.3 Revision Policy and practice*

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| **60.** | **Is the survey designed to cover all the target populations underlying [CROPS] statistics? (for instance, in some countries the agriculture production requires the collection data from commercial farms and the households in the agriculture sector which consist of two distinct target populations)**<br>[single choice]<br>1. ☐ Yes, all the target populations are considered<br>2. ☐ No, the survey considers only the subset of the population contributing to a largest fraction of the overall agriculture production<br>3. ☐ No, the survey considers only the subset of the population easier to be observed<br>4. ☐ other, please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> Score tbd |
| **61.** | **Do you assess the accuracy of [CROPS] statistics in terms of sampling error (i.e. estimation of the sampling error, confidence intervals, etc.)?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, occasionally<br>3. ☐ No<br>4. ☐ Not applicable, we do not use a sample survey to collect data on [CROPS] | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 - > No score |
| **62.** | **Do you have tools to assess potential impact of non-sampling errors on the accuracy of [CROPS] statistics?**<br>*(nonsampling errors are the errors that do not depend from the sampling and may arise in any phase of a statistical production process; usually they include nonresponse, measurement errors, errors in data treatment, etc.)*<br>[single choice]<br>1. ☐ Yes, we regularly monitor them by calculating a set of quality indicators (unit nonresponse, item nonresponse, etc.)<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **63.** | **Do you revise already disseminated [CROPS] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis according to a well-defined revision policy (usually include at least 2 revisions od initial disseminated statistics)<br>2. ☐ Yes, we disseminate provisional statistics and then replace them with the corresponding final estimates<br>3. ☐ Yes, we revise the statistics only when errors in the disseminated figures are detected (there is not a revision policy or dissemination of provisional and final statistics)<br>4. ☐ No | |
| **64.** | **IF "Yes " to the previous question**<br>**Do you calculate indicators related to the direction and size of revisions of [CROPS] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## II.3.3 Timeliness and Punctuality

*UN NQAF Level D – Managing statistical outputs, Principle 16 Assuring Timeliness and Punctuality*
*IMF DQAF 4. Serviceability, 4.1 Periodicity and Timeliness*

| | | |
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| **65.** | **Do you disseminate provisional estimates?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **66.** | **IF provisional estimates are disseminated**<br>**Please indicate their timeliness in months** (*the time-lag from the end of the reference period to the dissemination date*)<br><br>\|_\|_\| months for <u>provisional</u> estimates | <=6 months -> Score 1<br>>6 & <= 12 -> Score 0.5<br>>12 -> Score 0 |
| **67.** | **IF provisional estimates are disseminated**<br>**Are provisional estimates disseminated to compensate for non-timely final [CROPS] statistics?**<br>[single choice]<br>1. ☐ Yes, this is the main reason<br>2. ☐ Yes, this is one of the reasons<br>3. ☐ No | 1 OR 2 -> 1<br>3 ->0 |
| **68.** | **What is the timeliness of [CROPS] statistics?** *(please indicate the time-lag from the end of the reference period to the dissemination date)*<br><br>\|_\|_\| months for <u>final</u> estimates | <=12 months -> Score 1<br>>12 & <= 24 -> Score 0.5<br>>24 -> Score 0 |

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| **69.** | **In case of (almost) regular production of [CROPS] statistics over the last 5 years. What is the observed trend of timeliness?**<br>[single choice]<br>1. ☐ Improving (i.e. Reduction of time-lag between reference date and dissemination date)<br>2. ☐ Slightly improving<br>3. ☐ Almost stable<br>4. ☐ Slightly deteriorating<br>5. ☐ Deteriorating<br>6. ☐ Not applicable (no regular production of [CROPS] statistics over the last 5 years) | 1 OR 2-> Score 1<br>3 -> Score 0.5<br>4 OR 5 -> Score 0<br>6 -> No score |
| **70.** | **IF previous questions = [3,4,5]**<br>**Are you planning to revise the process to improve the timeliness of [CROPS] statistics?**<br>[single choice]<br>1. ☐ Yes, it's the main priority<br>2. ☐ Yes, but it is not the main priority<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **71.** | **Does a published schedule announce the [CROPS] statistics publication dates in advance of their release?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0 |
| **72.** | **Have you experienced problems in punctuality of dissemination of [CROPS] statistics? (i.e. statistics disseminated later than the scheduled date)**<br>[single choice]<br>1. ☐ Yes, often<br>2. ☐ Yes, sometimes<br>3. ☐ No | 1 -> Score 0<br>2 -> Score 0.5<br>3 -> Score 1 |

## II.3.4 Accessibility and Clarity

*UN NQAF Level D – Managing statistical outputs, Principle 17 Assuring Accessibility and Clarity*
*IMF DQAF 5 Accessibility*

| | | |
|---|---|---|
| **73.** | **Are the disseminated [CROPS] statistics made freely available for all users?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **74.** | **Are the disseminated [CROPS] statistics made available to all users at the same time?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No – but embargos imposed to prevent early public disclosure<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **75.** | **How are [CROPS] statistics disseminated?**<br>[multiple choice]<br>1. ☐ Data tables<br>2. ☐ Analytical products<br>3. ☐ Microdata files<br>4. ☐ Other, please specify: | |
| **76.** | **Are the users able to extract [CROPS] data from statistical database through a public query interface in the most appropriate and common formats (xlsx, CSV, html, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **77.** | **Can [CROPS] statistics be accessed via an Application Programming Interface (API)?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **78.** | **Are anonymized microdata on [CROPS] statistics disseminated externally?**<br>[single choice]<br>1. ☐ Yes, all the data<br>2. ☐ Yes, but only a subset of data<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **79.** | **IF "Yes" to previous question**<br>**How are the data anonymized?**<br>[single choice]<br>1. ☐ By removing unit identifiers and changing/removing the values of those variables that may allow an indirect identification<br>2. ☐ Just by removing the identifiers<br>3. ☐ other, please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score tbd |
| **80.** | **Are [CROPS] statistics disseminated in a clear and understandable manner?**<br>(i.e. the statistics come along with explanatory texts that clearly describes the content, well desgned tables and graphical outputs, etc.)<br>[single choice]<br>1. ☐ Yes, all the statistics<br>2. ☐ Yes, but only a subset of the statistics<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **81.** | **Has [CROPS] statistics dissemination been adapted to reflect new IT dissemination opportunities such as mobile phones?**<br>[single choice]<br>1. ☐ Yes, various methods of new IT dissemination opportunities have been adopted to reach the maximum number of users in a cost-effective way<br>2. ☐ Yes, new IT dissemination opportunities have been adopted but the maximum number of users has not yet been reached<br>3. ☐ No new IT dissemination system has been put in place | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **82.** | **Are users informed about revisions of already disseminated [CROPS] statistics?**<br>[single choice]<br>1. ☐ Yes, always<br>2. ☐ Yes, but occasionally<br>3. ☐ No<br>4. ☐ Not Applicable (revisions are NOT done) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **83.** | **Are [CROPS] statistics accompanied by the corresponding metadata needed to understand them?**<br>[single choice]<br>1. ☐ Yes, all metadata are provided<br>2. ☐ Yes, but just a subset of metadata is provided<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **84.** | **Are [CROPS] statistics accompanied by up-to-date methodological documents (on concepts, scope, classifications, basis of recording, data sources, compilation methods and statistical techniques), as well as quality reports freely available to the public?**<br>[single choice]<br>1. ☐ Yes, all the documentation is provided to the users<br>2. ☐ Yes, but the available documentation is rather limited<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **85.** | **Do you monitor accesses to [CROPS] statistics by calculating related indicators?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, occasionally<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **86.** | **Is it possible for users to contact the agency to point out possible errors, to seek clarifications and, if necessary, to lodge complaints?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0 |

## II.3.5 Comparability and Coherence

*UN NQAF Level D – Managing statistical outputs, Principle 18 Assuring Coherence and Comparability*
*IMF DQAF 4.2 Consistency*

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| **87.** | **Do you assess the coherence of the disseminated [CROPS] statistics with similar statistics produced and disseminated by another <u>National</u> Agency?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, sometimes<br>3. ☐ No<br>4. ☐ Not Applicable (There are no other National Agencies producing [CROPS] statistics | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **88.** | **Do you assess the coherence of the disseminated [CROPS] statistics with similar statistics produced and disseminated by an <u>International</u> Agency?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, sometimes<br>3. ☐ No<br>4. ☐ Not Applicable (There are no other International Agencies producing [CROPS] statistics | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **89.** | **Are [CROPS] classified according to the Central Product Classification Revision 2.1 (CPC Rev.2.1) expanded (as reported in the AGRIS manual (Annex 1-3)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **90.** | **IF [2,3] to previous question**<br>**Do you use a conversion table from internal to CPC classification?**<br>1. ☐ Yes, there is a well-established and publicly available table<br>2. ☐ Yes, but the table is not stable over time<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **91.** | **Are the units of measure used in collecting [CROPS] data compliant with international standards?**<br>*(typically hectares for agriculture area; tons or kilograms for quantities)*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **92.** | **IF [2,3] to previous question**<br>**Is conversion of unit of measures done in accordance to established and fixed conversion table(s)?**<br>[single choice]<br>1. ☐ Yes, the table(s) are well-established and publicly available<br>2. ☐ Yes, but the table(s) are not stable over time<br>3. ☐ No<br>4. ☐ Not Applicable (conversion is not done) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **93.** | **In case of (almost) regular production of [CROPS] statistics over the last 5 years, to what extent are they comparable over time?**<br>[single choice]<br>1. ☐ Fully comparable<br>2. ☐ Partially comparable<br>3. ☐ Not comparable because of a break in the time series. Please explain the reason for the break:<br>4. ☐ Not applicable (no regular production of [CROPS] statistics over the last 5 years or comparability over time not assessed) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |

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| **94.** | **Are [CROPS] statistics comparable for geographical areas (districts, provinces, etc.) in the country?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not Applicable ([CROPS] statistics refer only to the whole country and no statistics are produced for geographical sub-domains) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |

## II.3.6. Managing the Metadata

*UN NQAF Level D – Managing statistical outputs, Principle 19 Managing Metadata*

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| **95.** | **Do you have a metadata management system for [CROPS] statistics or for all the statistics produced and disseminated by your Agency?**<br>[single choice]<br>1. ☐ Yes, it is fully operative<br>2. ☐ Yes, it is partially operative<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **96.** | **IF "Yes" to the previous question**<br>**Is the metadata management system in line with international standards (like SDMX, DDI, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **97.** | **Are procedures in place to ensure that metadata on [CROPS] are documented according to standardized metadata systems and regularly updated?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **98.** | **Are metadata on [CROPS] statistics disseminated at the same time of [CROPS] statistics themselves?**<br>[single choice]<br>1. ☐ Yes, all the metadata<br>2. ☐ Yes, but only a subset of relevant metadata is updated and disseminated together with the data<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

**Filtering question**

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| **99.** | **Are data on [LIVESTOCK] collected with the same survey used to collect [CROPS] data?**<br>[single choice]<br>1. ☐ Yes **GO TO PART III**<br>2. ☐ No, **GO TO PART IV** | |

# Part III

## III.1.1 – The main variables

*GSBPM 2.2 – Design Variable Description*

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|---|---|---|
| **100.** | **Please indicate the units on which [LIVESTOCK] data are collected?**<br>[multiple choice]<br>1. ☐ Holdings with land and raising livestock<br>2. ☐ Landless holdings raising livestock<br>3. ☐ Nomadic/semi-nomadic pastoralism (if applicable)<br>4. ☐ Large commercial agriculture holdings raising livestock<br>5. ☐ Other, please explain | |
| **101.** | **Please indicate the type of [LIVESTOCK] data being collected?**<br>[multiple choice]<br>1. ☐ All [LIVESTOCK] raised by species<br>2. ☐ Herd's movements<br>3. ☐ Production of meat by species<br>4. ☐ Production of milk by species<br>5. ☐ Production of eggs by species<br>6. ☐ Honeybees<br>7. ☐ Other please explain | |

| | | |
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| **102.** | **Which of the following variables are collected?**<br>[multiple choice]<br>1. ☐ Number of births by species<br>2. ☐ Number of live animals by species<br>3. ☐ Number of deaths by species<br>4. ☐ Number of slaughtered animals for meat production, by species<br>5. ☐ Carcass weight of slaughtered animals<br>6. ☐ Quantity of meat by use (own-consumption, selling, etc.)<br>7. ☐ Milk production by use<br>8. ☐ Eggs production by use<br>9. ☐ Other please explain | |
| **103.** | **Is the survey collecting the data (volume of livestock products sold and livestock revenues) supporting the compilation of the SDG indicators 2.3.1 and 2.3.2?**<br>*(SDG 2.3.1: Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size; Indicator 2.3.2: Average income of small-scale food producers, by sex and indigenous status)*<br>*https://unstats.un.org/sdgs/metadata?Text=&Goal=2&Target=2.3*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not applicable (the data are collected in another survey/data source, etc.) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |

## III.1.2 – The sample and the sampling frame

*GSBPM 2.4 Design Frame and Sample*
*GSBPM 4.1 create Frame and Select Sample*

**If [LIVESTOCK] statistics are the output of a single sample survey selected from a single frame**

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|---|---|---|
| **104.** | **Are livestock statistics obtained as the output of a single sample survey selected from a single frame?**<br>[single choice]<br>1. ☐ Yes **[GO to next question -> 105]**<br>2. ☐ No **[Go To next Section -> Q108]** | |
| **105.** | **Is the sample designed to give national estimates of [LIVESTOCK] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important national [LIVESTOCK] product<br>2. ☐ Yes, but only for few important national [LIVESTOCK] product<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **106.** | **Is the sample designed to provide sub-national (district/province level) estimates of [LIVESTOCK] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important [LIVESTOCK] product<br>2. ☐ Yes, but only for few important [LIVESTOCK] product, depending on the region<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **107.** | **Which are the main problems in the sampling frame with respect to [LIVESTOCK]?**<br>[multiple choice]<br>1. ☐ Under-coverage (not all the units are included in the frame)<br>2. ☐ Over-coverage (part of the units included in the frame should not be there)<br>3. ☐ Outdated information<br>4. ☐ Missing data<br>5. ☐ Other, please explain | |

**If [LIVESTOCK] statistics are the output also of an additional sub-sample(s) selected from different frames**

| | | |
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| **108.** | **Which are the main reasons for having the additional sub-sample(s)?**<br>[multiple choice]<br>1. ☐ Collect data on commercial holdings raising [LIVESTOCK]<br>2. ☐ Collect data on landless holdings raising [LIVESTOCK]<br>3. ☐ Collect data on nomadic/semi-nomadic pastoralism<br>4. ☐ Other, please explain: | |
| **109.** | **Are the additional sub-sample(s) selected using a probabilistic mechanism?**<br>[single choice]<br>1. ☐ Yes, all the samples<br>2. ☐ Yes, only some of the samples<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **110.** | **IF "Yes" to previous question**<br>**Are the samples designed in accordance with the well-known standards?**<br>*(typically sample on household adopt a stratified two stage sampling design while a sample of agriculture holdings is selected using a stratified one-stage sampling design; see e.g. Chapter 5 in the AGRIS Manual)***?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **111.** | **Is there the risk of overlapping between the frame used to select [LIVESTOCK] sub-samples and the frame used to select the main sample?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Don't Know | |

| | | |
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| **112.** | **IF "Yes" to previous question**<br>**Have you assessed the potential overlapping between frames?**<br>[single choice]<br>1. ☐ Yes, by carrying out a tailored study<br>2. ☐ Yes, but only approximately<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## III.2 Managing [LIVESTOCK] Statistical Outputs

## III.2.1 Relevance

*UN NQAF Level D – Managing statistical outputs, Principle 14 Assuring relevance*
*IMF DQAF. 0.3 Prerequisites for quality – Relevance (0.3.1)*

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| **113.** | **Please indicate the coverage in terms of [LIVESTOCK] products?**<br>[single choice]<br>1. ☐ The survey covers ALL [LIVESTOCK] species (and corresponding products) relevant at national level (say covering at least the 90% of the whole national [LIVESTOCK])<br>2. ☐ The survey covers only the main [LIVESTOCK] species (and corresponding products) at national level (say covering from the 60% to 90% of the whole national [LIVESTOCK] production)<br>3. ☐ The survey covers only a small subset of [LIVESTOCK] species relevant at national level<br>4. ☐ Other please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> Score tbd |
| **114.** | **Do the currently disseminated [LIVESTOCK] statistics satisfy the main needs of both National and international users?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Don't know | 1 -> Score 1<br>2 -> Score 0.5<br>3 OR 4-> Score 0 |

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| **115.** | **Do the currently disseminated [LIVESTOCK] statistics satisfy the main needs of both <u>National</u> and international users in terms of disaggregation (territorial, by type of farms, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Don't know | 1 -> Score 1<br>2 -> Score 0.5<br>3 OR 4-> Score 0 |
| **116.** | **Do you have a mechanism (survey, committee) to monitor user's satisfaction with [LIVESTOCK] statistics and understanding also their unmet needs?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **117.** | **IF "Yes" to previous**<br>**Are the unmet needs prioritized and taken into account to improve the statistical production process of [LIVESTOCK] statistics and the corresponding quality?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## III.2.2 Accuracy and Reliability

*UN NQAF Level D – Managing statistical outputs, Principle 15 Assuring Accuracy and Reliability*
*IMF DQAF 3. Accuracy and reliability, 4.3 Revision Policy and practice*

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| **118.** | **Is the survey designed to cover all the target populations underlying [LIVESTOCK] statistics?** **(**typically, in some countries the agriculture production requires the collection data from commercial farms and the households in the agriculture sector)<br>[single choice]<br>1. ☐ Yes, all the target populations are considered<br>2. ☐ No, the survey considers only the subset of the population contributing to a largest fraction of the overall agriculture production<br>3. ☐ No, the survey considers only the subset of the population easier to be observed<br>4. ☐ other, please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> Score tbd |
| **119.** | **Do you assess the accuracy of [LIVESTOCK] statistics in terms of sampling error (i.e. estimation of the sampling error, confidence intervals, etc.)?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, occasionally<br>3. ☐ No<br>4. ☐ Not applicable, we do not use a sample survey to collect data on [LIVESTOCK] | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO Score |
| **120.** | **Do you have tools to assess potential impact of non-sampling errors on the accuracy of [LIVESTOCK] statistics?**<br>*(nonsampling errors are the errors that do not depend from the sampling and may arise in any phase of a statistical production process; usually they include nonresponse, measurement errors, errors in data treatment, etc.)*<br>[single choice]<br>1. ☐ Yes, we regularly monitor them by calculating a set of quality indicators (unit nonresponse, item nonresponse, etc.)<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **121.** | **Do you revise already disseminated [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis according to a well-defined revision policy (usually include at least 2 revisions od initial disseminated statistics)<br>2. ☐ Yes, we disseminate provisional statistics and then replace them with the corresponding final estimates<br>3. ☐ Yes, we revise the statistics only when errors in the disseminated figures are detected (there is not a revision policy or dissemination of provisional and final statistics)<br>4. ☐ No | |
| **122.** | **IF "Yes " to the previous question**<br>**Do you calculate indicators related to the direction and size of revisions of [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## III.2.3 Timeliness and Punctuality

*UN NQAF Level D – Managing statistical outputs, Principle 16 Assuring Timeliness and Punctuality*
*IMF DQAF 4. Serviceability, 4.1 Periodicity and Timeliness*

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| **123.** | **Do you disseminate externally provisional [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **124.** | **IF provisional estimates are disseminated**<br>**What is the timeliness of disseminated provisional [LIVESTOCK] statistics?** *(please indicate the time-lag from the end of the reference period to the dissemination date)*<br>\|_\|_\| months for <u>provisional</u> estimates (if provisional estimates are disseminated) | <=6 months -> Score 1<br>>6& <= 12 -> Score 0.5<br>>12 -> Score 0 |
| **125.** | **IF provisional estimates are disseminated**<br>**Are provisional estimates disseminated to compensate for non-timely final [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, this is the main reason<br>2. ☐ Yes, this is one of the reasons<br>3. ☐ No | 1 OR 2 -> 1<br>3 ->0 |
| **126.** | **What is the timeliness of disseminated provisional [LIVESTOCK] statistics?** *(please indicate the time-lag from the end of the reference period to the dissemination date)*<br>\|_\|_\| months for <u>final</u> estimates | <=12 months -> Score 1<br>>12 & <= 24 -> Score 0.5<br>>24 -> Score 0 |

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| **127.** | **In case of (almost) regular production of [LIVESTOCK] statistics over the last 5 years. What is the observed trend of timeliness?**<br>[single choice]<br>1. ☐ Improving (i.e. Reduction of time-lag between reference date and dissemination date)<br>2. ☐ Slightly improving<br>3. ☐ Almost stable<br>4. ☐ Slightly deteriorating<br>5. ☐ Deteriorating<br>6. ☐ Not applicable (no regular production of [LIVESTOCK] statistics over the last 5 years) | 1 OR 2-> Score 1<br>3 -> Score 0.5<br>4 OR 5 -> Score 0<br>6 -> No score |
| **128.** | **IF previous questions = [3,4,5]**<br>**Are you planning to revise the process to improve the timeliness of [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, it's the main priority<br>2. ☐ Yes, but it is not the main priority<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **129.** | **Does a published schedule announce the [LIVESTOCK] statistics publication dates in advance of their release?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0 |
| **130.** | **Have you experienced problems in punctuality of dissemination of [LIVESTOCK] statistics? (i.e. statistics disseminated later than the scheduled date)**<br>[single choice]<br>1. ☐ Yes, often<br>2. ☐ Yes, sometimes<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## III.2.4 Accessibility and Clarity

*UN NQAF Level D – Managing statistical outputs, Principle 17 Assuring Accessibility and Clarity*
*IMF DQAF 5 Accessibility*

| | | |
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| **131.** | **Are the disseminated [LIVESTOCK] statistics made freely available for all users?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **132.** | **Are the disseminated [LIVESTOCK] statistics made available to all users at the same time?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No – but embargos imposed to prevent early public disclosure<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **133.** | **How are [LIVESTOCK] statistics disseminated?**<br>[multiple choice]<br>1. ☐ Data tables<br>2. ☐ Analytical products<br>3. ☐ Microdata files<br>4. ☐ Other, please specify: | |
| **134.** | **Are the users able to extract [LIVESTOCK] data from statistical database through a public query interface in the most appropriate and common formats (xlsx, csv, html, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **135.** | **Can [LIVESTOCK] statistics be accessed via an Application Programming Interface (API)?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **136.** | **Are anonymized microdata on [LIVESTOCK] statistics disseminated externally?**<br>[single choice]<br>1. ☐ Yes, all the data<br>2. ☐ Yes, but only a subset of data<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **137.** | **IF "Yes" to previous question**<br>**How are the data anonymized?**<br>[single choice]<br>1. ☐ By removing unit identifiers and changing/removing the values of those variables that may allow an indirect identification<br>2. ☐ Just by removing the identifiers<br>3. ☐ other, please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score tbd |
| **138.** | **Are [LIVESTOCK] statistics disseminated in a clear and understandable manner?**<br>(i.e. the statistics come along with explanatory texts that clearly describes the content, well designed tables and graphical outputs, etc.)<br>[single choice]<br>1. ☐ Yes, all the statistics<br>2. ☐ Yes, but only a subset of the statistics<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **139.** | **Has [LIVESTOCK] statistics dissemination been adapted to reflect new IT dissemination opportunities such as mobile phones?**<br>[single choice]<br>1. ☐ Yes, various methods of new IT dissemination opportunities have been adopted to reach the maximum number of users in a cost-effective way<br>2. ☐ Yes, new IT dissemination opportunities have been adopted but the maximum number of users has not yet been reached<br>3. ☐ No new IT dissemination system has been put in place | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **140.** | **Are users informed about revisions of already disseminated [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, always<br>2. ☐ Yes, but occasionally<br>3. ☐ No<br>4. ☐ Not Applicable (revisions are NOT done) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |
| **141.** | **Are [LIVESTOCK] statistics accompanied by the corresponding metadata needed to understand them?**<br>[single choice]<br>1. ☐ Yes, all metadata are provided<br>2. ☐ Yes, but just a subset of metadata is provided<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **142.** | **Are [LIVESTOCK] statistics accompanied by up-to-date methodological documents (on concepts, scope, classifications, basis of recording, data sources, compilation methods and statistical techniques), as well as quality reports freely available to the public?**<br>[single choice]<br>1. ☐ Yes, all the documentation is provided to the users<br>2. ☐ Yes, but the available documentation is rather limited<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **143.** | **Do you monitor accesses to [LIVESTOCK] statistics by calculating related indicators?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, occasionally<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **144.** | **Is it possible for users to contact the agency to point out possible errors, to seek clarifications and, if necessary, to lodge complaints?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0 |

## III.2.5 Comparability and Coherence

*UN NQAF Level D – Managing statistical outputs, Principle 18 Assuring Coherence and Comparability*
*IMF DQAF 4.2 Consistency*

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| **145.** | **Do you assess the coherence of the disseminated [LIVESTOCK] statistics with similar statistics produced and disseminated by another <u>National</u> Agency?**<br>[single choice]<br>5. ☐ Yes, regularly<br>6. ☐ Yes, sometimes<br>7. ☐ No<br>8. ☐ Not Applicable (There are no other National Agencies producing [LIVESTOCK] statistics | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |
| **146.** | **Do you assess the coherence of the disseminated [LIVESTOCK] statistics with similar statistics produced and disseminated by an <u>International</u> Agency?**<br>[single choice]<br>5. ☐ Yes, regularly<br>6. ☐ Yes, sometimes<br>7. ☐ No<br>8. ☐ Not Applicable (There are no other International Agencies producing [LIVESTOCK] statistics | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |
| **147.** | **Are [LIVESTOCK] animals and products classified according to the Central Product Classification Revision 2.1 (CPC Rev.2.1) expanded (as reported in the AGRIS manual (Annex 1-3)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **148.** | **IF [2,3] to previous question**<br>**Do you use a conversion table from internal to CPC classification?**<br>1. ☐ Yes, there is a well-established and publicly available table<br>2. ☐ Yes, but the table is not stable over time<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **149.** | **Are the units of measure used in collecting [LIVESTOCK] data compliant with international standards?**<br>*(typically heads for animals; kilograms for meat, etc.)*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **150.** | **IF [2,3] to previous question**<br>**Is conversion of unit of measures done in accordance to established and fixed conversion table(s)?**<br>[single choice]<br>1. ☐ Yes, the table(s) are well-established and publicly available<br>2. ☐ Yes, but the table(s) are not stable over time<br>3. ☐ No<br>4. ☐ Not Applicable (conversion is not done) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |
| **151.** | **In case of (almost) regular production of [LIVESTOCK] statistics over the last 5 years, to what extent are they comparable over time?**<br>[single choice]<br>1. ☐ Fully comparable<br>2. ☐ Partially comparable<br>3. ☐ Not comparable because of a break in the time series. Please explain the reason for the break:<br>4. ☐ Not applicable (no regular production of [LIVESTOCK] statistics over the last 5 years or comparability over time not assessed) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |

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| **152.** | **Are [LIVESTOCK] statistics comparable for geographical areas (districts, provinces, etc.) in the country?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not Applicable ([LIVESTOCK] statistics refer only to the whole country and no statistics are produced for geographical sub-domains) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |

## III.2.6. Managing the Metadata

*UN NQAF Level D – Managing statistical outputs, Principle 19 Managing Metadata*

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| **153.** | **Do you have a metadata management system for [LIVESTOCK] statistics or for all the statistics produced and disseminated by your Agency?**<br>[single choice]<br>1. ☐ Yes, it is fully operative<br>2. ☐ Yes, it is partially operative<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **154.** | **IF "Yes" to the previous question**<br>**Is the metadata management system in line with international standards (like SDMX, DDI, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **155.** | **Are procedures in place to ensure that metadata on [LIVESTOCK] are documented according to standardized metadata systems and regularly updated?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **156.** | **Are metadata on [LIVESTOCK] statistics disseminated at the same time of [LIVESTOCK] statistics themselves?**<br>[single choice]<br>4. ☐ Yes, all the metadata<br>1. ☐ Yes, but only a subset of relevant metadata is updated and disseminated together with the data<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## Part IV – National [LIVESTOCK] statistics

*The following part of the self-assessment investigates uniquely [LIVESTOCK] statistics when they are produced by a tailored survey (NOT the same survey used for [CROPS])*

## Section IV.1 – Introduction

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| **157.** | **Do you have a statistical process (sample survey, administrative data, mixed sources, etc.) that ensures the production and dissemination of [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No, please explain |
| **158.** | **If previous question in [1,2]**<br>**How is articulated the statistical process?**<br>[single choice]<br>1. ☐ Single *ad hoc* sample survey<br>2. ☐ Data on [LIVESTOCK] collected in a general-purpose agriculture survey<br>3. ☐ Set of independent agriculture sample surveys<br>4. ☐ Administrative register/s<br>5. ☐ Combination of survey and administrative register<br>6. ☐ Earth observation data<br>7. ☐ Combination of survey and earth observation data<br>8. ☐ Combination of survey, administrative and earth observation data<br>9. ☐ Other, please specify: [free text] |

## Section IV.2 – The statistical Process (survey)

*UN NQAF Level C - Managing statistical processes, Principle 10 - Assuring methodological soundness*
*UN NQAF Level C - Managing statistical processes, Principle 12 - Assuring appropriate statistical procedures*
*UN NQAF Level C - Managing statistical processes, Principle 13 - Managing the respondent burden*
*IMF DQAF 2. - Methodological Soundness*
*IMF DQAF 3.3 Statistical Techniques*

**To be filled IF the statistical process needed for producing [LIVESTOCK]' statistics involves one or more surveys (see previous question)**

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| **159.** | **Are you aware of "Handbook on the Agricultural Integrated Survey – AGRIS" prepared by the Global Strategy to improve Agricultural and Rural Statistics (published in 2017)?**<br>http://www.fao.org/3/ca6412en/ca6412en.pdf<br>[single choice]<br>1. ☐ Yes and we are already implementing it (fully or in part)<br>2. ☐ Yes and we are planning to implement it (fully or in part)<br>3. ☐ Yes we know of its existence but we are NOT using or not planning to use it<br>4. ☐ No |
| **160.** | **Please indicate the type of survey(s)**<br>[single choice]<br>1. ☐ Single annual survey (with only one wave) that collects [LIVESTOCK] data for the last agricultural year<br>2. ☐ Survey with different waves that collects [LIVESTOCK] data ~~for the different campaigns~~ two or more times during the single year<br>3. ☐ Other, please explain. |

## II.2.1 – The main variables

*GSBPM 2.2 – Design Variable Description*

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| **161.** | **Are the survey statistical units clearly defined?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **162.** | **Please indicate the units on which [LIVESTOCK] data are collected?**<br>[multiple choice]<br>1. ☐ Holdings with land and raising livestock<br>2. ☐ Landless holdings raising livestock<br>3. ☐ Nomadic/semi-nomadic pastoralism (if applicable)<br>4. ☐ Large commercial agriculture holdings raising livestock<br>5. ☐ Other, please explain | |
| **163.** | **IF already implementing or planning to implement the AGRIS**<br>**Is the definition of statistical units coherent with the AGRIS recommendations?**<br>*(Section 4.1.1.4. of the AGRIS Manual)*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No, please explain | |
| **164.** | **Which of the following sections are included in the survey questionnaire?**<br>*(please note that they are part of the AGRIS core module)*<br>[multiple choice]<br>1. ☐ General information on the holding<br>2. ☐ Information on holders and managers<br>3.<br>4. ☐ General information on the household of the holders and co-holders<br>5. ☐ general information on household dwelling and assets | |

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| **165.** | **Please indicate the type of [LIVESTOCK] data being collected?**<br>[multiple choice]<br>1. ☐ All [LIVESTOCK] raised by species<br>2. ☐ Herd's movements<br>3. ☐ Production of meat by species<br>4. ☐ Production of milk by species<br>5. ☐ Production of eggs by species<br>6. ☐ Honeybees<br>7. ☐ Other please explain | |
| **166.** | **Which of the following variables are collected?**<br>[multiple choice]<br>1. ☐ Number of births by species<br>2. ☐ Number of live animals by species<br>3. ☐ Number of deaths by species<br>4. ☐ Number of slaughtered animals for meat production, by species<br>5. ☐ Carcass weight of slaughtered animals<br>6. ☐ Quantity of meat by use (own-consumption, selling, etc.)<br>7. ☐ Milk production by use<br>8. ☐ Eggs production by use<br>9. ☐ Other please explain | |
| **167.** | **Is the survey on [LIVESTOCK] collecting the data (volume of livestock products sold and livestock revenues) supporting the compilation of the SDG indicators 2.3.1 and 2.3.2?**<br>*(SDG 2.3.1: Volume of production per labour unit by classes of farming/pastoral/forestry enterprise size; Indicator 2.3.2: Average income of small-scale food producers, by sex and indigenous status)*<br>*https://unstats.un.org/sdgs/metadata?Text=&Goal=2&Target=2.3*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not applicable (data collected in other sources/surveys) | 1 -> 1<br>2 -> 0.5<br>3 -> 0<br>4 -> NO score |

## IV.2.2 – The sample and the sampling frame

*GSBPM 2.4 Design Frame and Sample*
*GSBPM 4.1 create Frame and Select Sample*

**If [LIVESTOCK] statistics are the output of a single sample survey selected from a single frame**

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| **168.** | **Are [LIVESTOCK] statistics obtained as the output of stand-alone sample survey with the sample selected from a single frame?**<br>[single choice]<br>1. ☐ Yes **[GO TO next question]**<br>2. ☐ No **[GO TO next Section]** | |
| **169.** | **Is [LIVESTOCK] survey based on a sample?**<br>[single choice]<br>3. ☐ Yes<br>4. ☐ No | |
| **170.** | **IF "Yes" to previous question**<br>**Is probabilistic sampling adopted?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 "Yes"-> Score 1<br>2 "No" -> 0 |
| **171.** | **IF "Yes" to previous question**<br>**Is the sample designed in accordance with the well-known standards?**<br>*(typically sample on household adopt a stratified two stage sampling design while a sample of agriculture holdings is selected using a stratified one-stage sampling design; see e.g. Chapter 5 in the AGRIS Manual)***?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "yes, partially"-> Score 0.5<br>3 "No" -> 0 |

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| **172.** | **Is the sample designed to give <u>national</u> estimates of [LIVESTOCK] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important national [LIVESTOCK] product<br>2. ☐ Yes, but only for few important national [LIVESTOCK] product<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "yes, but…"-> Score 0.5<br>3 "No" -> 0 |
| **173.** | **Is the sample designed to provide <u>sub-national</u> (district/province level) estimates of [LIVESTOCK] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important [LIVESTOCK] product<br>2. ☐ Yes, but only for few important [LIVESTOCK] product, depending on the region<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "yes, but…"-> Score 0.5<br>3 "No" -> 0 |
| **174.** | **Is the sampling frame currently used to design and extract the sample maintained and assessed whether adequate to the survey objectives?**<br>[single choice]<br>1. ☐ Yes on a regular basis<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "yes, but…"-> Score 0.5<br>3 "No" -> 0 |
| **175.** | **In developing and maintaining a sampling frame, are you following the suggestions of the FAO Handbook on master sampling frame?** *http://www.fao.org/3/ca6398en/ca6398en.pdf*<br>[single choice]<br>1. ☐ Yes, completely<br>2. ☐ Yes, partially<br>3. ☐ No, please explain | |
| **176.** | **Which are the main problems in the sampling frame?**<br>[multiple choice]<br>1. ☐ Under-coverage (not all the units are included in the frame)<br>2. ☐ Over-coverage (part of the units included in the frame should not be there)<br>3. ☐ Outdated information<br>4. ☐ Missing data<br>5. ☐ Other, please explain | |

| | | |
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| **177.** | **Have you assessed the extent of <u>under-coverage</u> in the sampling frame?**<br>[single choice]<br>1. ☐ No, as it can be considered negligible<br>2. ☐ No, it is NOT negligible but we were not able to measure its extent<br>3. ☐ Yes, and it is negligible (below 10%)<br>4. ☐ Yes, and it is NOT negligible. Please specify: … | 1 "No, as"-> Score 0.5<br>2 "No, it is not…"-> Score 0<br>3 OR 4 "Yes…" -> 1 |
| **178.** | **Have you assessed the extent of <u>over-coverage</u> in the sampling frame?**<br>[single choice]<br>1. ☐ No, as it can be considered negligible<br>2. ☐ No, it is NOT negligible but we were not able to measure its extent<br>3. ☐ Yes, and it is negligible (below 10%)<br>4. ☐ Yes, and it is NOT negligible | 1 "No, as"-> Score 0.5<br>2 "No, it is not…"-> Score 0<br>3 OR 4 "Yes…" -> 1 |
| **179.** | **Does the sampling frame include outdated information?**<br>[multiple choice]<br>1. ☐ Yes, information needed for sampling design (e.g. stratification variables, etc.)<br>2. ☐ Yes, information needed for contacting units<br>3. ☐ Yes, information not needed for sampling purposes or for contacting units<br>4. ☐ Other, please explain: … | |

**If [LIVESTOCK] statistics are the output of <u>a set of samples selected from different frames</u>**

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| **180.** | **Which are the main reasons for having different sampling frames?**<br>[single choice]<br>1. ☐ Each frame refers to a different type of sample units (e.g. Agriculture households in one frame and commercial farms in the other)<br>2. ☐ The frames refer to the same sampling units but cover different sub-sets of the target population<br>3. ☐ The frames refer to the same sampling units but come from different sources and cannot be integrated<br>4. ☐ Other, please explain: | |

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| **181.** | **Are the different samples (each selected form one of the available frames) selected using a probabilistic mechanism?**<br>[single choice]<br>1. ☐ Yes, all the samples<br>2. ☐ Yes, only some of the samples<br>3. ☐ No | 1 "Yes, all…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0 |
| **182.** | **IF "Yes" to previous question**<br>**Are the samples designed in accordance with the well-known standards?**<br>*(typically sample on household adopt a stratified two stage sampling design while a sample of agriculture holdings is selected using a stratified one-stage sampling design; see e.g. Chapter 5 in the AGRIS Manual)***?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |
| **183.** | **Are the various samples designed to provide national estimates of [LIVESTOCK] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important national [LIVESTOCK] product<br>2. ☐ Yes, but only for few important national [LIVESTOCK] product<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **184.** | **Are the various samples designed to provide sub-national estimates of [LIVESTOCK] statistics with a fixed maximum sampling error?**<br>[single choice]<br>1. ☐ Yes, for the most important [LIVESTOCK] product for each region<br>2. ☐ Yes, but only for the few important [LIVESTOCK] product at regional level<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |

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| **185.** | **Is there the risk of overlapping between the distinct frames used to select the various samples?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Don't Know | |
| **186.** | **IF "Yes" to previous question**<br>**Have you assessed the potential overlapping between frames?**<br>[single choice]<br>1. ☐ Yes, by carrying out a tailored study<br>2. ☐ Yes, but only approximately<br>3. ☐ No | 1 "Yes, by…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **187.** | **Which are the main problems in the sampling frames?**<br>[multiple choice]<br>1. ☐ Undercoverage (not all the units are included in the frame)<br>2. ☐ Overcoverage (part of the units included in the frame should not be there)<br>3. ☐ Outdated information<br>4. ☐ Missing data<br>5. ☐ Other, please explain | |

**For ALL**

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| **188.** | **Is the work done on sampling frame(s) and the used sampling design(s) documented?**<br>[single choice]<br>1. ☐ Yes, full documentation is available<br>2. ☐ Yes, partial documentation is available<br>3. ☐ No | 1 "Yes, full…"-> Score 1<br>2 "Yes, partial…"-> Score 0.5<br>3 "No"-> Score 0 |

## IV.2.3 Data collection

*GSBPM 2.1 Design Collection*
*GSBPM 4. Collect*

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| **189.** | **Is data collection designed to implement Computer Assisted Interview?**<br>[single choice]<br>1. ☐ Yes, for all the units<br>2. ☐ Yes, but not for all the units<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **190.** | **Is the survey questionnaire designed to facilitate the data collection and reduce the response burden on respondents?**<br>*(e.g. a well-designed skip pattern, well-written sentences easy to be understood, removal of unnecessary questions whose information does not contribute to dissemination, etc.)*<br>[single choice]<br>1. ☐ Yes, completely<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, completely"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |
| **191.** | **Is data collection carried out by interviewers?**<br>[single choice]<br>1. ☐ Yes, for all the units<br>2. ☐ Yes, but only of a subset of units<br>3. ☐ No | |
| **192.** | **IF "Yes" to the previous question**<br>**Is on-field data collection organized to allow efficient work for interviewers and avoid excessive workload?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |

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| **193.** | **Do you have an automated monitoring system for data collection?**<br>[single choice]<br>1. ☐ Yes, it permits to monitor the data collection on a regular basis (daily or weekly)<br>2. ☐ Yes, but it does not permit to monitor the data collection on a regular basis<br>3. ☐ No | 1 "Yes, it…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |
| **194.** | **Did you test the data collection in advance?**<br>[single choice]<br>1. ☐ Yes, completely (questionnaire, organization of the on-field work, interviewing phase, …)<br>2. ☐ Yes, partially (only some aspects). Please explain:<br>3. ☐ No | 1 "Yes, completely"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |

## IV.2.4 Data treatment

*GSBPM 5.3 Review and validate*
*GSBPM 5.3 Edit and impute*

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| **195.** | **Do you check collected data for errors (missing values, outliers, incoherent values, etc.)?**<br>[single choice]<br>1. ☐ Yes, for almost all the variables in the questionnaire<br>2. ☐ Yes, only for the most important variables<br>3. ☐ No | 1 "Yes, for…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0 |
| **196.** | **IF "yes" to previous question**<br>**How do you detect errors in [LIVESTOCK] data?**<br>[single choice]<br>1. ☐ In a fully automatic way and part of the checks are already in the electronic questionnaire<br>2. ☐ In a fully automatic way but after the data collection<br>3. ☐ partly in automatic way and partly through manual checks (clerical revision)<br>4. ☐ Only through manual checks (clerical revision)<br>5. ☐ No, please explain | 1 OR 2 -> Score 1<br>3 -> Score 0.5<br>4 "No"-> Score 0<br>Other -> score tbd |

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| **197.** | **Do you impute missing values?**<br>[single choice]<br>1. ☐ Yes, for almost all the variables in the questionnaire<br>2. ☐ Yes, only for the most important variables<br>3. ☐ No<br>4. ☐ Not applicable (missing values are not present) | 1 "Yes, for…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0<br>4 -> No score |
| **198.** | **IF "yes" to previous question**<br>**How do you impute missing values?**<br>[single choice]<br>1. ☐ In an automatic way by applying well-known statistical methods (e.g. nearest neighbour donor imputation, regression imputation, etc.)<br>2. ☐ A mixed approach involving both imputation using statistical methods and manual imputation carried out by clerks being subject matter experts<br>3. ☐ Only manual imputation carried out by clerks being subject matter experts | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **199.** | **Are the data treatment procedures (detection of errors, outlier and imputation) documented?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |

## IV.2.5 Weighting

*GSBPM 5.6 Calculate sampling weights*

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| **200.** | **Do you modify the initial sample weights for compensating for unit nonresponse or for aligning survey estimates with known population totals (weights calibration or post-stratification)?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Not applicable (sample survey non adopted or nonprobability sampling is considered) | |
| **201.** | **IF "Yes" to previous question**<br>**Is the re-weighting procedure documented?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 "Yes, fully"-> Score 1<br>2 "Yes, partially"-> Score 0.5<br>3 "No"-> Score 0 |

## IV.2.6 Data processing and data backup

*GSBPM 5.7 Calculate aggregates*

*GSBPM 5.7 Finalize data files*

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| **202.** | **Do you check the final data-processing step (aimed at calculating the final [LIVESTOCK] estimates) for potential errors?**<br>[single choice]<br>1. ☐ Yes, the software codes have been extensively tested and checked in advance<br>2. ☐ yes, only if the software code returns an error<br>3. ☐ No | 1 "Yes, the…"-> Score 1<br>2 "Yes, only…"-> Score 0.5<br>3 "No"-> Score 0 |

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| **203.** | **Are the final statistical estimates before their disseminations compared with other estimates?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No<br>3. ☐ Not applicable | |
| **204.** | **IF "Yes" to previous question**<br>**In case of discrepancies do you modify the estimates so to ensure coherence with other estimates**<br>[single choice]<br>1. ☐ Yes, all the estimates<br>2. ☐ Yes, some of them<br>3. ☐ No | |
| **205.** | **Have you implemented an IT procedure for doing backup of the data?**<br>[single choice]<br>1. ☐ Yes, regularly at the end of the main phase of the statistical process<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 "Yes, regularly…"-> Score 1<br>2 "Yes, but…"-> Score 0.5<br>3 "No"-> Score 0 |

## IV.3 Managing [LIVESTOCK] Statistical Outputs

## IV.3.1 Relevance

*UN NQAF Level D – Managing statistical outputs, Principle 14 Assuring relevance*
*IMF DQAF. 0.3 Prerequisites for quality – Relevance (0.3.1)*

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|---|---|---|
| **206.** | **Please indicate the coverage in terms of [LIVESTOCK] products?**<br>[single choice]<br>1. ☐ The survey covers ALL the products of agriculture relevant (Division 01 in CPC 2.1) at national level (say covering at least the 90% of the whole national [LIVESTOCK] production)<br>2. ☐ The survey covers only the main products of agriculture relevant (Division 01 in CPC 2.1) at national level (say covering from the 60% to 90% of the whole national [LIVESTOCK] production)<br>3. ☐ The survey covers only a small subset of products of agriculture relevant (Division 01 in CPC 2.1) at national level<br>4. ☐ Other please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> Score tbd |
| **207.** | **Do the currently disseminated [LIVESTOCK] statistics satisfy the main needs of both National and international users?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Don't know | 1 -> Score 1<br>2 -> Score 0.5<br>3 OR 4-> Score 0 |

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| **208.** | **Do the currently disseminated [LIVESTOCK] statistics satisfy the main needs of both <u>National</u> and international users in terms of disaggregation (territorial, by type of farms, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Don't know | 1 -> Score 1<br>2 -> Score 0.5<br>3 OR 4 -> Score 0 |
| **209.** | **Do you have a mechanism (survey, committee) to monitor user's satisfaction with [LIVESTOCK] statistics and understanding also their unmet needs?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **210.** | **IF "Yes" to previous**<br>**Are the unmet needs prioritized and taken into account to improve the statistical production process of [LIVESTOCK] statistics and the corresponding quality?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, but not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## IV.3.2 Accuracy and Reliability

*UN NQAF Level D – Managing statistical outputs, Principle 15 Assuring Accuracy and Reliability*
*IMF DQAF 3. Accuracy and reliability, 4.3 Revision Policy and practice*

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| **211.** | **Is the survey designed to cover all the target populations underlying [LIVESTOCK] statistics? (typically, in some countries the agriculture production requires the collection data from commercial farms and the households in the agriculture sector)**<br>[single choice]<br>1. ☐ Yes, all the target populations are considered<br>2. ☐ No, the survey considers only the subset of the population contributing to a largest fraction of the overall agriculture production<br>3. ☐ No, the survey considers only the subset of the population easier to be observed<br>4. ☐ other, please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> Score tbd |
| **212.** | **Do you assess the accuracy of [LIVESTOCK] statistics in terms of sampling error (i.e. estimation of the sampling error, confidence intervals, etc.)?**<br>[single choice]<br>1. ☐ Yes, in a regular way<br>2. ☐ Yes, occasionally<br>3. ☐ No<br>4. ☐ Not applicable, we do not use a sample survey to collect data on [LIVESTOCK] | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 - > No score |
| **213.** | **Do you have tools to assess potential impact of non-sampling errors on the accuracy of [LIVESTOCK] statistics?**<br>*(nonsampling errors are the errors that do not depend from the sampling and may arise in any phase of a statistical production process; usually they include nonresponse, measurement errors, errors in data treatment, etc.)*<br>[single choice]<br>1. ☐ Yes, we regularly monitor them by calculating a set of quality indicators (unit nonresponse, item nonresponse, etc.)<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **214.** | **Do you revise already disseminated [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis according to a well-defined revision policy (usually include at least 2 revisions od initial disseminated statistics)<br>2. ☐ Yes, we disseminate provisional statistics and then replace them with the corresponding final estimates<br>3. ☐ Yes we revise the statistics only when errors in the disseminated figures are detected (there is not a revision policy or dissemination of provisional and final statistics)<br>4. ☐ No | |
| **215.** | **IF "Yes " to the previous question**<br>**Do you calculate indicators related to the direction and size of revisions of [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, not regularly<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

## IV.3.3 Timeliness and Punctuality

*UN NQAF Level D – Managing statistical outputs, Principle 16 Assuring Timeliness and Punctuality*
*IMF DQAF 4. Serviceability, 4.1 Periodicity and Timeliness*

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| **216.** | **Do you disseminate provisional estimates?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **217.** | **IF provisional estimates are disseminated**<br>**Please indicate their timeliness in months** (*the time-lag from the end of the reference period to the dissemination date*)<br><br>\|_\|_\| months for <u>provisional</u> estimates | <=6 months -> Score 1<br>>6 & <= 12 -> Score 0.5<br>>12 -> Score 0 |
| **218.** | **IF provisional estimates are disseminated**<br>**Are provisional estimates disseminated to compensate for non-timely final [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, this is the main reason<br>2. ☐ Yes, this is one of the reasons<br>3. ☐ No | 1 OR 2 -> 1<br>3 ->0 |
| **219.** | **What is the timeliness of [LIVESTOCK] statistics?** *(please indicate the time-lag from the end of the reference period to the dissemination date)*<br><br>\|_\|_\| months for <u>provisional</u> estimates (if provisional estimates are disseminated)<br><br>\|_\|_\| months for <u>final</u> estimates | <=12 months -> Score 1<br>>12 & <= 24 -> Score 0.5<br>>24 -> Score 0 |

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| **220.** | **In case of (almost) regular production of [LIVESTOCK] statistics over the last 5 years. What is the observed trend of timeliness?**<br>[single choice]<br>1. ☐ Improving (i.e. Reduction of time-lag between reference date and dissemination date)<br>2. ☐ Slightly improving<br>3. ☐ Almost stable<br>4. ☐ Slightly deteriorating<br>5. ☐ Deteriorating<br>6. ☐ Not applicable (no regular production of [LIVESTOCK] statistics over the last 5 years) | 1 OR 2-> Score 1<br>3 -> Score 0.5<br>4 OR 5 -> Score 0<br>6 -> No score |
| **221.** | **IF previous questions = [3,4,5]**<br>**Are you planning to revise the process to improve the timeliness of [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, it's the main priority<br>2. ☐ Yes, but it is not the main priority<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **222.** | **Does a published schedule announce the [LIVESTOCK] statistics publication dates in advance of their release?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0 |
| **223.** | **Have you experienced problems in punctuality of dissemination of [LIVESTOCK] statistics? (i.e. statistics disseminated later than the scheduled date)**<br>[single choice]<br>1. ☐ Yes, often<br>2. ☐ Yes, sometimes<br>3. ☐ No | 1 -> Score 0<br>2 -> Score 0.5<br>3 -> Score 1 |

## IV.3.4 Accessibility and Clarity

*UN NQAF Level D – Managing statistical outputs, Principle 17 Assuring Accessibility and Clarity*
*IMF DQAF 5 Accessibility*

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| **224.** | **Are the disseminated [LIVESTOCK] statistics made freely available for all users?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **225.** | **Are the disseminated [LIVESTOCK] statistics made available to all users at the same time?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No – but embargos imposed to prevent early public disclosure<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **226.** | **How are [LIVESTOCK] statistics disseminated?**<br>[multiple choice]<br>1. ☐ Data tables<br>2. ☐ Analytical products<br>3. ☐ Microdata files<br>4. ☐ Other, please specify: | |
| **227.** | **Are the users able to extract [LIVESTOCK] data from statistical database through a public query interface in the most appropriate and common formats (xlsx, CSV, html, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **228.** | **Can [LIVESTOCK] statistics be accessed via an Application Programming Interface (API)?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | |
| **229.** | **Are anonymized microdata on [LIVESTOCK] statistics disseminated externally?**<br>[single choice]<br>1. ☐ Yes, all the data<br>2. ☐ Yes, but only a subset of data<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **230.** | **IF "Yes" to previous question**<br>**How are the data anonymized?**<br>[single choice]<br>1. ☐ By removing unit identifiers and changing/removing the values of those variables that may allow an indirect identification<br>2. ☐ Just by removing the identifiers<br>3. ☐ other, please explain | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score tbd |
| **231.** | **Are [LIVESTOCK] statistics disseminated in a clear and understandable manner?**<br>(i.e. the statistics come along with explanatory texts that clearly describes the content, well desgned tables and graphical outputs, etc.)<br>[single choice]<br>1. ☐ Yes, all the statistics<br>2. ☐ Yes, but only a subset of the statistics<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **232.** | **Has [LIVESTOCK] statistics dissemination been adapted to reflect new IT dissemination opportunities such as mobile phones?**<br>[single choice]<br>1. ☐ Yes, various methods of new IT dissemination opportunities have been adopted to reach the maximum number of users in a cost-effective way<br>2. ☐ Yes, new IT dissemination opportunities have been adopted but the maximum number of users has not yet been reached<br>3. ☐ No new IT dissemination system has been put in place | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **233.** | **Are users informed about revisions of already disseminated [LIVESTOCK] statistics?**<br>[single choice]<br>1. ☐ Yes, always<br>2. ☐ Yes, but occasionally<br>3. ☐ No<br>4. ☐ Not Applicable (revisions are NOT done) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **234.** | **Are [LIVESTOCK] statistics accompanied by the corresponding metadata needed to understand them?**<br>[single choice]<br>1. ☐ Yes, all metadata are provided<br>2. ☐ Yes, but just a subset of metadata is provided<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **235.** | **Are [LIVESTOCK] statistics accompanied by up-to-date methodological documents (on concepts, scope, classifications, basis of recording, data sources, compilation methods and statistical techniques), as well as quality reports freely available to the public?**<br>[single choice]<br>1. ☐ Yes, all the documentation is provided to the users<br>2. ☐ Yes, but the available documentation is rather limited<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **236.** | **Do you monitor accesses to [LIVESTOCK] statistics by calculating related indicators?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, occasionally<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **237.** | **Is it possible for users to contact the agency to point out possible errors, to seek clarifications and, if necessary, to lodge complaints?**<br>[single choice]<br>1. ☐ Yes<br>2. ☐ No | 1 -> Score 1<br>2 -> Score 0 |

## IV.3.5 Comparability and Coherence

*UN NQAF Level D – Managing statistical outputs, Principle 18 Assuring Coherence and Comparability*
*IMF DQAF 4.2 Consistency*

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| **238.** | **Do you assess the coherence of the disseminated [LIVESTOCK] statistics with similar statistics produced and disseminated by another National Agency?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, sometimes<br>3. ☐ No<br>4. ☐ Not Applicable (There are no other National Agencies producing [LIVESTOCK] statistics | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |
| **239.** | **Do you assess the coherence of the disseminated [LIVESTOCK] statistics with similar statistics produced and disseminated by an International Agency?**<br>[single choice]<br>1. ☐ Yes, regularly<br>2. ☐ Yes, sometimes<br>3. ☐ No<br>4. ☐ Not Applicable (There are no other International Agencies producing [LIVESTOCK] statistics | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> NO score |
| **240.** | **Are [LIVESTOCK] classified according to the Central Product Classification Revision 2.1 (CPC Rev.2.1) expanded (as reported in the AGRIS manual (Annex 1-3)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **241.** | **IF [2,3] to previous question**<br>**Do you use a conversion table from internal to CPC classification?**<br>1. ☐ Yes, there is a well-established and publicly available table<br>2. ☐ Yes, but the table is not stable over time<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

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| **242.** | **Are the units of measure used in collecting [LIVESTOCK] data compliant with international standards?**<br>*(typically hectares for agriculture area; tons or kilograms for quantities)*<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **243.** | **IF [2,3] to previous question**<br>**Is conversion of unit of measures done in accordance to established and fixed conversion table(s)?**<br>[single choice]<br>1. ☐ Yes, the table(s) are well-established and publicly available<br>2. ☐ Yes, but the table(s) are not stable over time<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **244.** | **In case of (almost) regular production of [LIVESTOCK] statistics over the last 5 years, to what extent are they comparable over time?**<br>[single choice]<br>1. ☐ Fully comparable<br>2. ☐ Partially comparable<br>3. ☐ Not comparable because of a break in the time series. Please explain the reason for the break:<br>4. ☐ Not applicable (no regular production of [LIVESTOCK] statistics over the last 5 years or comparability over time not assessed) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |
| **245.** | **Are [LIVESTOCK] statistics comparable for geographical subsets (districts, provinces, etc.) of the country?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No<br>4. ☐ Not Applicable ([LIVESTOCK] statistics refer only to the whole country and no statistics are produced for geographical sub-domains) | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0<br>4 -> No score |

## IV.3.6. Managing the Metadata

*UN NQAF Level D – Managing statistical outputs, Principle 19 Managing Metadata*

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|---|---|---|
| **246.** | **Do you have a metadata management system for [LIVESTOCK] statistics or for all the statistics produced and disseminated by your Agency?**<br>[single choice]<br>1. ☐ Yes, it is fully operative<br>2. ☐ Yes, it is partially operative<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **247.** | **IF "Yes" to the previous question**<br>**Is the metadata management system in line with international standards (like SDMX, DDI, etc.)?**<br>[single choice]<br>1. ☐ Yes, fully<br>2. ☐ Yes, partially<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **248.** | **Are procedures in place to ensure that metadata on [LIVESTOCK] are documented according to standardized metadata systems and regularly updated?**<br>[single choice]<br>1. ☐ Yes, on a regular basis<br>2. ☐ Yes, but not on a regular basis<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |
| **249.** | **Are metadata on [LIVESTOCK] statistics disseminated at the same time of [LIVESTOCK] statistics themselves?**<br>[single choice]<br>1. ☐ Yes, all the metadata<br>2. ☐ Yes, but only a subset of relevant metadata is updated and disseminated together with the data<br>3. ☐ No | 1 -> Score 1<br>2 -> Score 0.5<br>3 -> Score 0 |

# Annex 2 – Mapping between levels/items of the reporting template and questions

| section | qnumber | qname | level | quality | type |
|---|---|---|---|---|---|
| Sect_I.2 | 1 | si1_finan_res | Level_2 | 2.2 resources | general |
| Sect_I.2 | 2 | si1_human_res | Level_2 | 2.2 resources | general |
| Sect_I.2 | 3 | si1_IT_res | Level_2 | 2.2 resources | general |
| Sect_II.1 | 4 | sii1_has_stat_proc | Level_3 | 3.1 design | general |
| Sect_II.2.1 | 8 | sii2_1_def_stat_units | Level_3 | 3.1 design | crops |
| Sect_II.2.1 | 9 | sii2_1_def_stat_units_AGRIS | Level_3 | 3.1 design | crops |
| Sect_II.2.1 | 13 | sii2_1_SDG231_232 | Level_3 | 3.1 design | crops |
| Sect_II.2.1 | 14 | sii2_1_SDG241 | Level_3 | 3.1 design | crops |
| Sect_II.2.1 | 15 | sii2_1_SDG5a1 | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 18 | sii2_2_prob_samp | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 19 | sii2_2_stand_sample_des | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 20 | sii2_2_sample_fix_error_N | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 21 | sii2_2_sample_fix_error_subN | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 22 | sii2_2_samp_fr | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 25 | sii2_2_under_cov_samp_fr | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 26 | sii2_2_over_cov_samp_fr | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 29 | sii2_2_use_prob_mechan | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 30 | sii2_2_stand_samples_des | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 31 | sii2_2_samples_error_N | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 32 | sii2_2_samples_error_subN | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 34 | sii2_2_assess_overlap_fr | Level_3 | 3.1 design | crops |
| Sect_II.2.2 | 36 | sii2_2_doc_samp_fr | Level_3 | 3.1 design | crops |
| Sect_II.2.3 | 37 | sii2_3_comp_assist_interv | Level_3 | 3.2 data_collect | crops |
| Sect_II.2.3 | 38 | sii2_3_resp_burden | Level_3 | 3.2 data_collect | crops |
| Sect_II.2.3 | 40 | sii2_3_eff_work | Level_3 | 3.2 data_collect | crops |
| Sect_II.2.3 | 41 | sii2_3_aut_monit_system | Level_3 | 3.2 data_collect | crops |
| Sect_II.2.3 | 42 | sii2_3_test_data_collec | Level_3 | 3.2 data_collect | crops |

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|---|---|---|---|---|---|
| Sect_II.2.4 | 43 | sii2_4_check_errors | Level_3 | 3.3 data_treat | crops |
| Sect_II.2.4 | 44 | sii2_4_how_check_errors | Level_3 | 3.3 data_treat | crops |
| Sect_II.2.4 | 45 | sii2_4_imputation | Level_3 | 3.3 data_treat | crops |
| Sect_II.2.4 | 46 | sii2_4_type_imputation | Level_3 | 3.3 data_treat | crops |
| Sect_II.2.4 | 47 | sii2_4_doc_data_treat | Level_3 | 3.3 data_treat | crops |
| Sect_II.2.5 | 49 | sii2_5_doc_reweighting | Level_3 | 3.4 data_process | crops |
| Sect_II.2.6 | 50 | sii2_6_final_check | Level_3 | 3.4 data_process | crops |
| Sect_II.2.6 | 51 | sii2_6_validat_before_diss | Level_3 | 3.4 data_process | crops |
| Sect_II.2.6 | 53 | sii2_6_backup_data | Level_3 | 3.4 data_process | crops |
| Sect_II.3.1 | 54 | sii3_1_products | Level_4 | 4.1 Relevance | crops |
| Sect_II.3.1 | 55 | sii3_1_horticulture_products | Level_4 | 4.1 Relevance | crops |
| Sect_II.3.1 | 56 | sii3_1_users_needs | Level_4 | 4.1 Relevance | crops |
| Sect_II.3.1 | 57 | sii3_1_users_needs_disag | Level_4 | 4.1 Relevance | crops |
| Sect_II.3.1 | 58 | sii3_1_user_satisf | Level_4 | 4.1 Relevance | crops |
| Sect_II.3.1 | 59 | sii3_1_unmet_needs | Level_4 | 4.1 Relevance | crops |
| Sect_II.3.2 | 60 | sii3_2_survey_cover | Level_4 | 4.2 Accuracy&Reliability | crops |
| Sect_II.3.2 | 61 | sii3_2_stat_acc | Level_4 | 4.2 Accuracy&Reliability | crops |
| Sect_II.3.2 | 62 | sii3_2_eval_non_sampl_err | Level_4 | 4.2 Accuracy&Reliability | crops |
| Sect_II.3.2 | 63 | sii3_2_rev_diss_stat | Level_4 | 4.2 Accuracy&Reliability | crops |
| Sect_II.3.2 | 64 | sii3_2_indicat_rev_stat | Level_4 | 4.2 Accuracy&Reliability | crops |
| Sect_II.3.3 | 66 | sii3_3_time_prov_estim | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.3 | 67 | sii3_3_why_prov_estim | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.3 | 68 | sii3_3_time_final_estim | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.3 | 69 | sii3_3_time_trend | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.3 | 70 | sii3_3_impr_time_stat | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.3 | 71 | sii3_3_have_release_cal | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.3 | 72 | sii3_3_punct_date_dissem | Level_4 | 4.3 Timeliness&Puctuality | crops |
| Sect_II.3.4 | 73 | sii3_4_free_dissem_stat | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 74 | sii3_4_allusers_sametime | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 76 | sii3_4_extract_data | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 78 | sii3_4_dissem_microdata | Level_4 | 4.4 Accessbility&Clarity | crops |

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|---|---|---|---|---|---|
| Sect_II.3.4 | 79 | sii3_4_how_anonym_data | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 80 | sii3_4_clear_dissem | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 81 | sii3_4_newIT | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 82 | sii3_4_inform_rev_dissem | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 83 | sii3_4_metadata_stat | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 84 | sii3_4_free_doc_stat | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 85 | sii3_4_monit_access_stat | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.4 | 86 | sii3_4_contact_point | Level_4 | 4.4 Accessbility&Clarity | crops |
| Sect_II.3.5 | 87 | sii3_5_coher_stat_Nat | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 88 | sii3_5_coher_stat_Int | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 89 | sii3_5_CPC_exp | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 90 | sii3_5_use_conv_table | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 91 | sii3_5_unit_meas_compl | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 92 | sii3_5_fix_conv_table | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 93 | sii3_5_stat_compar | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.5 | 94 | sii3_5_geo_stat_compar | Level_4 | 4.5 Comparability&Coherence | crops |
| Sect_II.3.6 | 95 | sii3_6_metadata_sys | Level_4 | 4.6 metadata | crops |
| Sect_II.3.6 | 96 | sii3_6_metadata_sys_stand | Level_4 | 4.6 metadata | crops |
| Sect_II.3.6 | 97 | sii3_6_proc_doc_metadata | Level_4 | 4.6 metadata | crops |
| Sect_II.3.6 | 98 | sii3_6_metadata_dissem | Level_4 | 4.6 metadata | crops |
| Sect_III.1.1 | 103 | siii1_1_SDG231_232 | Level_3 | 3.1 design | livestock |
| Sect_III.1.2 | 105 | siii1_2_sample_fix_error_N | Level_3 | 3.1 design | livestock |
| Sect_III.1.2 | 106 | siii1_2_sample_fix_error_subN | Level_3 | 3.1 design | livestock |
| Sect_III.1.2 | 109 | siii1_2_use_prob_mechan | Level_3 | 3.1 design | livestock |
| Sect_III.1.2 | 110 | siii1_2_stand_samples_des | Level_3 | 3.1 design | livestock |
| Sect_III.1.2 | 112 | siii1_2_assess_overlap_fr | Level_3 | 3.1 design | livestock |
| Sect_III.2.1 | 113 | siii2_1_products | Level_4 | 4.1 Relevance | livestock |
| Sect_III.2.1 | 114 | siii2_1_users_needs | Level_4 | 4.1 Relevance | livestock |
| Sect_III.2.1 | 115 | siii2_1_users_needs_disag | Level_4 | 4.1 Relevance | livestock |
| Sect_III.2.1 | 116 | siii2_1_user_satisf | Level_4 | 4.1 Relevance | livestock |
| Sect_III.2.1 | 117 | siii2_1_unmet_needs | Level_4 | 4.1 Relevance | livestock |

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|---|---|---|---|---|---|
| Sect_III.2.2 | 118 | siii2_2_survey_cover | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_III.2.2 | 119 | siii2_2_statc_acc | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_III.2.2 | 120 | siii2_2_eval_non_sampl_err | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_III.2.2 | 121 | siii2_2_rev_diss_stat | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_III.2.2 | 122 | siii2_2_indicat_rev_stat | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_III.2.3 | 124 | siii2_3_time_prov_estim | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.3 | 125 | siii2_3_why_prov_estim | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.3 | 126 | siii2_3_time_final_estim | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.3 | 127 | siii2_3_time_trend | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.3 | 128 | siii2_3_impr_time_stat | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.3 | 129 | siii2_3_have_release_cal | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.3 | 130 | siii2_3_punct_date_dissem | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_III.2.4 | 131 | siii2_4_free_dissem_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 132 | siii2_4_allusers_sametime | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 134 | siii2_4_extract_data | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 136 | siii2_4_dissem_microdata | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 137 | siii2_4_how_anonym_data | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 138 | siii2_4_clear_dissem | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 139 | siii2_4_newIT | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 140 | siii2_4_inform_rev_dissem | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 141 | siii2_4_metadata_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 142 | siii2_4_free_doc_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 143 | siii2_4_monit_access_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.4 | 144 | siii2_4_contact_point | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_III.2.5 | 145 | siii2_5_coher_stat_Nat | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.5 | 146 | siii2_5_coher_stat_Int | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.5 | 147 | siii2_5_CPC_exp | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.5 | 148 | siii2_5_use_conv_table | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.5 | 149 | siii2_5_unit_meas_compl | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.5 | 150 | siii2_5_fix_conv_table | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.5 | 151 | siii2_5_stat_compar | Level_4 | 4.5 Comparability&Coherence | livestock |

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| Sect_III.2.5 | 152 | siii2_5_geo_stat_compar | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_III.2.6 | 153 | siii2_6_metadata_sys | Level_4 | metadata | livestock |
| Sect_III.2.6 | 154 | siii2_6_metadata_sys_stand | Level_4 | metadata | livestock |
| Sect_III.2.6 | 155 | siii2_6_proc_doc_metadata | Level_4 | metadata | livestock |
| Sect_III.2.6 | 156 | siii2_6_metadata_dissem | Level_4 | metadata | livestock |
| Sect_IV.2.1 | 161 | siv2_1_def_stat_units | Level_3 | 3.1 design | livestock |
| Sect_IV.2.1 | 167 | siv2_1_SDG231_232 | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 170 | siv2_2_prob_samp | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 171 | siv2_2_stand_sample_des | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 172 | siv2_2_sample_fix_error_N | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 173 | siv2_2_sample_fix_error_subN | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 174 | siv2_2_samp_fr | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 177 | siv2_2_under_cov_samp_fr | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 178 | siv2_2_over_cov_samp_fr | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 181 | siv2_2_use_prob_mechan | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 182 | siv2_2_stand_samples_des | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 183 | siv2_2_samples_error_N | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 184 | siv2_2_samples_error_subN | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 186 | siv2_2_assess_overlap_fr | Level_3 | 3.1 design | livestock |
| Sect_IV.2.2 | 188 | siv2_2_doc_samp_fr | Level_3 | 3.1 design | livestock |
| Sect_IV.2.3 | 189 | siv2_3_comp_assist_interv | Level_3 | 3.2 data_collect | livestock |
| Sect_IV.2.3 | 190 | siv2_3_resp_burden | Level_3 | 3.2 data_collect | livestock |
| Sect_IV.2.3 | 192 | siv2_3_eff_work | Level_3 | 3.2 data_collect | livestock |
| Sect_IV.2.3 | 193 | siv2_3_aut_monit_system | Level_3 | 3.2 data_collect | livestock |
| Sect_IV.2.3 | 194 | siv2_3_test_data_collec | Level_3 | 3.2 data_collect | livestock |
| Sect_IV.2.4 | 195 | siv2_4_check_errors | Level_3 | 3.3 data_treat | livestock |
| Sect_IV.2.4 | 196 | siv2_4_how_check_errors | Level_3 | 3.3 data_treat | livestock |
| Sect_IV.2.4 | 197 | siv2_4_imputation | Level_3 | 3.3 data_treat | livestock |
| Sect_IV.2.4 | 198 | siv2_4_type_imputation | Level_3 | 3.3 data_treat | livestock |
| Sect_IV.2.4 | 199 | siv2_4_doc_data_treat | Level_3 | 3.3 data_treat | livestock |
| Sect_IV.2.5 | 201 | siv2_5_doc_reweighting | Level_3 | 3.4 data_process | livestock |

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|---|---|---|---|---|---|
| Sect_IV.2.6 | 202 | siv2_6_final_check | Level_3 | 3.4 data_process | livestock |
| Sect_IV.2.6 | 205 | siv2_6_backup_data | Level_3 | 3.4 data_process | livestock |
| Sect_IV.3.1 | 206 | siv3_products | Level_4 | 4.1 Relevance | livestock |
| Sect_IV.3.1 | 207 | siv3_users_needs | Level_4 | 4.1 Relevance | livestock |
| Sect_IV.3.1 | 208 | siv3_users_needs_disag | Level_4 | 4.1 Relevance | livestock |
| Sect_IV.3.1 | 209 | siv3_user_satisf | Level_4 | 4.1 Relevance | livestock |
| Sect_IV.3.1 | 210 | siv3_unmet_needs | Level_4 | 4.1 Relevance | livestock |
| Sect_IV.3.2 | 211 | siv3_2_survey_cover | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_IV.3.2 | 212 | siv3_2_stat_acc | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_IV.3.2 | 213 | siv3_2_eval_non_sampl_err | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_IV.3.2 | 214 | siv3_2_rev_diss_stat | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_IV.3.2 | 215 | siv3_2_indicat_rev_stat | Level_4 | 4.2 Accuracy&Reliability | livestock |
| Sect_IV.3.3 | 217 | siv3_3_time_prov_estim | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.3 | 218 | siv3_3_why_prov_estim | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.3 | 219 | siv3_3_time_final_estim | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.3 | 220 | siv3_3_time_trend | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.3 | 221 | siv3_3_impr_time_stat | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.3 | 222 | siv3_3_have_release_cal | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.3 | 223 | siv3_3_punct_date_dissem | Level_4 | 4.3 Timeliness&Puctuality | livestock |
| Sect_IV.3.4 | 224 | siv3_4_free_dissem_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 225 | siv3_4_allusers_sametime | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 227 | siv3_4_extract_data | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 229 | siv3_4_dissem_microdata | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 230 | siv3_4_how_anonym_data | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 231 | siv3_4_clear_dissem | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 232 | siv3_4_newIT | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 233 | siv3_4_inform_rev_dissem | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 234 | siv3_4_metadata_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 235 | siv3_4_free_doc_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 236 | siv3_4_monit_access_stat | Level_4 | 4.4 Accessbility&Clarity | livestock |
| Sect_IV.3.4 | 237 | siv3_4_contact_point | Level_4 | 4.4 Accessbility&Clarity | livestock |

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|---|---|---|---|---|---|
| Sect_IV.3.5 | 238 | siv3_5_coher_stat_Nat | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 239 | siv3_5_coher_stat_Int | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 240 | siv3_5_CPC_exp | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 241 | siv3_5_use_conv_table | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 242 | siv3_5_unit_meas_compl | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 243 | siv3_5_fix_conv_table | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 244 | siv3_5_stat_compar | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.5 | 245 | siv3_5_geo_stat_compar | Level_4 | 4.5 Comparability&Coherence | livestock |
| Sect_IV.3.6 | 246 | siv3_6_metadata_sys | Level_4 | 4.6 metadata | livestock |
| Sect_IV.3.6 | 247 | siv3_6_metadata_sys_stand | Level_4 | 4.6 metadata | livestock |
| Sect_IV.3.6 | 248 | siv3_6_proc_doc_metadata | Level_4 | 4.6 metadata | livestock |
| Sect_IV.3.6 | 249 | siv3_6_metadata_dissem | Level_4 | 4.6 metadata | livestock |

# Annex 3 – Template for summarizing the outcomes of the assessment

## Reports on the Observance of Standards and Best Practices for Crops and Livestock Statistics
## Based on the self-assessment exercise

*Country:*
*Date:*

**1. Introduction**
*A short introduction about statistics on the Crops and Livestock statistics (Agencies/departments involved, frequency of production, type of survey process(ess), etc.*

**2. Summary results**
*Fill-in the following table according to instructions and average scores of the checklist' assessment items*

| Level | Item | Outcome* | Major identified weaknesses (only for outcome LNO and NO) |
|---|---|---|---|
| **Level 2. Adequacy of resources** | 2.2 Assuring Adequacy of resources in producing Crops & Livestock Statistics | | |
| **3. Statistical Process** | 3.1 Design | | |
| | 3.2 Data collection | | |
| | 3.3 Data treatment | | |
| | 3.4 Data processing | | |
| **4. Quality of the statistical outputs** | 4.1 Relevance | | |
| | 4.2 Accuracy and Reliability | | |
| | 4.3 Timeliness and Punctuality | | |
| | 4.4 Accessibility and Clarity | | |
| | 4.5 Comparability and Coherence | | |
| | 4.6 Management of metadata | | |

**3. Recommended improvement actions**

*List and description of the recommended actions to be undertaken to improve the major identified weaknesses possibly with priority in implementation.*

| Level | Improvement actions | Priority* |
|---|---|---|
| **2. Institutional framework (adequacy of resources)** | | |
| **3. Statistical Process** | | |
| **4. Quality of the statistical outputs** | | |

*1=High priority; 2=moderate priority; 3=low priority.