

## AGRI-ENVIRONMENTAL STATISTICS - 2020

### NATIONAL REFERENCE METADATA IN SINGLE INTEGRATED METADATA STRUCTURE (SIMS)

#### CONCEPT 1 – CONTACT

##### **Sub-Concept 1.1: Contact organisation**

National Statistics Office (NSO) - Malta

##### **Sub-Concept 1.2: Contact organisation unit**

Environment, Agriculture and Fisheries Statistics

##### **Sub-Concept 1.3: Contact name**

Mr. Ronald Tanti

##### **Sub-Concept 1.4: Contact person function**

Head of Unit

##### **Sub-Concept 1.5: Contact mail address**

National Statistics Office (NSO),  
Lascaris, Valletta VLT 2000, Malta.

##### **Sub-Concept 1.6: Contact e-mail address**

ronald.tanti@gov.mt

##### **Sub-Concept 1.7: Contact phone number**

+356 2599 7333

#### CONCEPT 2 – METADATA UPDATE

##### **Sub-Concept 2.1: Metadata last certified**

2<sup>nd</sup> March 2021.

##### **Sub-Concept 2.2: Metadata last posted**

4<sup>th</sup> March 2021.

##### **Sub-Concept 2.3: Metadata last update**

4<sup>th</sup> March 2021.

### **CONCEPT 3 – STATISTICAL PRESENTATION**

#### **Sub-Concept 3.1: Data description**

Data collection comprises pesticide sales in Malta. The characteristics of the Plant Protection Products (PPPs) dataset consists essentially of yearly statistical data on the volume (in kilograms or in litres) of authorised plant protection products sold in Malta during an entire calendar year. These statistics are collected through an annual census conducted amongst all the identified commercial trading entities of such products.

#### **Sub-Concept 3.2: Classification system**

In summary, the comprehensive dataset that is collected through the said annual survey includes statistics on the volume of sales of authorised plant protection products by the identified traders of such products in Malta. The authorised list of products can be viewed through the official website of the competent Authority (namely, the Malta Competitions and Consumer Affairs Authority) through the internet link: <https://mccaa.org.mt/Section/Content?contentId=1156>

A comprehensive list of products is sent to each respondent and, upon submission of the requested data, the results are matched with the annual authorised list provided by the MCCA (compiled as at the end of the year under study) to ultimately collect information on the quantity of all the active substances used through the products purchased by resident consumers/farmers.

#### **Sub-Concept 3.3: Sector coverage**

All the main entities that are actively engaged in the commercial trading of authorised plant protection products in Malta.

#### **Sub-Concept 3.4: Statistical concepts and definitions**

Refer to sub-concept 3.2.

#### **Sub-Concept 3.5: Statistical unit**

Main trading enterprises/operators of authorised plant protection products in Malta.

#### **Sub-Concept 3.6: Statistical population**

The target population consists of the main trading enterprises/operators operating and selling the PPP products in Malta.

#### **Sub-Concept 3.7: Reference area**

Maltese islands: Malta and Gozo ([NUTS 1 & Nuts 2](#)).

### **Sub-Concept 3.8: Time coverage**

Data collection covers the aggregated twelve calendar months preceding the year of the survey. A time series of data are available from year 2011 onwards.

### **Sub-Concept 3.9: Base period**

Not applicable.

## **CONCEPT 4 – UNIT OF MEASURE**

Depending on the marketed state (i.e. solid or liquid) of the product, the units of measurement that are used for the data-collection are either kilogrammes or litres; while, for data-dissemination purposes, the collated statistics are (as requested) converted and submitted in to kilogrammes of active substance/s.

## **CONCEPT 5 – REFERENCE PERIOD**

The statistical variables collected refer to the preceding calendar year.

## **CONCEPT 6 – INSTITUTIONAL MANDATE**

### **Sub-Concept 6.1: Legal acts and other agreements**

[The Malta Statistics Authority Act, 2000.](#) The Act empowers the NSO to collect, compile, extract and release official statistics related to demographic, social, environment, economic and general activities and conditions of Malta.

The legal basis for the statistical data collection of sales in volume of plant protection products in Malta is [EC Regulation 1185/2009](#).

### **Sub-Concept 6.2: Data sharing**

Data are shared with the European Commission in line with the relevant data submission requirements.

## **CONCEPT 7 – CONFIDENTIALITY**

### **Sub-Concept 7.1: Confidentiality – Policy**

At National level:

The NSO requests information for the compilation of official statistics according to the articles of the [MSA Act – Cap. 422](#) and the [Data Protection Act – Cap. 586](#) of the Laws of Malta implementing the General Data Protection Regulations (GDPR).

Article 40 of the MSA Act stipulates the restrictions on the use of information while Article 41 stipulates the prohibition of disclosure of information. Furthermore, Section IX of the Act (Offences and Penalties) lays down the measures to be taken in case of unlawful exercise of any officer of statistics regarding confidentiality of data.

Since its inception, the NSO has always assured that all data collected remains confidential and that it is used for statistical purposes only according to the articles and derogations stipulated in the laws quoted above. The Office is obliged to protect the identify of data providers and refrain from divulging any data to third parties that might lead to the identification of persons or entities.

During 2009, the NSO has set up a Statistical Disclosure Committee to ensure that statistical confidentiality is observed, especially when requests for microdata are received.

Upon employment, all NSO employees are informed of the rules and duties pertaining to confidential information and its treatment. In line with stipulations of the MSA Act, before commencing work, every employee is required to take an oath of secrecy whose text is included in the same Act.

An internal policy on anonymisation and pseudo-anonymisation is in place to ascertain that adequate methods are used for the protection of data which the office collects and shares with the public in its capacity as the National Statistics Office. The policy is meant to safeguard confidentiality of both personal and business data entrusted to the NSO. The document provides guidance for all NSO employees who process data on a daily basis as to how anonymisation and pseudo-anonymisation methods should be applied. The policy applies to all confidential, restricted and internal information, regardless of form (paper or electronic documents, applications and databases) that is received, processed, stored and disseminated by the NSO.

At European level:

[Regulation \(EC\) No 223/2009](#) on European statistics (recital 24 and Article 20(4) of 11 March 2009 (OJ L 87, p. 164), stipulates the need to establish common principles and guidelines ensuring the confidentiality of data used for the production of European statistics and the access to those confidential data with due account for technical developments and the requirements of users in a democratic society.

### **Sub-Concept 7.2: Confidentiality – Data Treatment**

Data are published in aggregate form to avoid the presence of low counts which could possibly lead to the identification of respondents within the industry. When the data provider is inevitably indirectly identifiable (due to the presence of unique combinations of particular characteristics), the information is not published and is flagged as 'confidential'.

## **CONCEPT 8 – RELEASE POLICY**

### **Sub-Concept 8.1: Release Calendar**

Not applicable. News Releases concerning pesticide statistics are not published locally.

### **Sub-Concept 8.2: Release Calendar access**

Not applicable.

### **Sub-Concept 8.3: User access**

An internal policy on dissemination is in place to govern the dissemination of official statistics in an impartial, independent, and timely manner, making them available simultaneously to all users. The NSO's primary channel for the dissemination of official statistics is the NSO website. Tailored requests for statistical information may also be submitted through the said website.

Pesticides' statistics are available and accessible on the Eurostat website (within the European Commission).

## **CONCEPT 9 – FREQUENCY OF DISSEMINATION**

Annual.

## **CONCEPT 10 – ACCESSIBILITY AND CLARITY**

### **Sub-Concept 10.1: News release**

Not applicable.

### **Sub-Concept 10.2: Publications**

Aggregated data are published in the publication 'Malta in Figures'.

### **Sub-Concept 10.3: Online Database**

A selected set of indicators related to agriculture and the environment are published on the NSO website and may be accessed through:

[https://nso.gov.mt/Home/SELECTED\\_INDICATORS/Pages/Sub-Selected-Indicators/Agriculture.aspx](https://nso.gov.mt/Home/SELECTED_INDICATORS/Pages/Sub-Selected-Indicators/Agriculture.aspx)

### **Sub-Concept 10.4: Micro-data access**

Not applicable.

### **Sub-Concept 10.5: Other**

Data are disseminated to Eurostat.

### **Sub-Concept 10.6: Documentation on methodology**

Work processes and procedures for the compilation of environmental statistics are documented and available for internal purposes only.

#### **Sub-Concept 10.6.1: Metadata completeness rate**

Information about all required metadata concepts (and sub-concepts thereof) are provided.

### **Sub-Concept 10.7: Quality Documentation**

A quality report related to the sales of plant protection products is compiled according to an established structure and sent to Eurostat every year.

SIMS reports are additionally available to the public on the [NSO's metadata website including concepts related to metadata and quality](#).

## **CONCEPT 11 – QUALITY MANAGEMENT**

### **Sub-Concept 11.1: Quality Assurance**

The NSO ensures the accuracy of data released to the public and prepares clear methodological notes which explain the processes involved in the collection and production of official statistics. The collected, compiled and published data on sales of authorised plant protection products in Malta are thoroughly checked throughout all stages of the statistical production system.

The NSO has developed an internal Quality Management Framework (QMF) which is built on common requirements of the ESS Code of Practice (ESS CoP). A document was prepared to include a set of general quality guidelines spanning over all statistical domains. Assuring methodological soundness is an integral part of the QMF, nonetheless, the document spans also on other areas related to institutional aspects.

Every five to seven years, the NSO participates in a Peer Review exercise through which the compliance of its operations with principles of the ESS CoP is assessed by an expert team. Peer Reviews are indeed part of the European Statistical System (ESS) strategy to implement the ESS CoP. Each NSI is expected to provide information as requested by a standard self-assessment questionnaire. Following this an expert team visits the office to meet NSI representatives and main stakeholders. Peer Reviews result in a compliance report and the listing of a set of Improvement Actions which need to be followed up by the NSI. The next round of Peer Reviews is planned to be carried out in 2022.

### **Sub-Concept 11.2: Quality Assessment**

The collected, compiled, and published data on sales of authorised plant protection products in Malta are thoroughly checked throughout all stages of the statistical production system.

## **CONCEPT 12 – RELEVANCE**

### **Sub-Concept 12.1: User needs**

Main users of the data include:

- Media
- Policy makers
- Academics
- Eurostat
- Other international organisations
- Data suppliers themselves
- General public

### **Sub-Concept 12.2: User satisfaction**

The last User Satisfaction Survey was held in 2014 with the aim to collect information about key users' satisfaction with statistical output.

The NSO keeps record of the number of News Releases and publications disseminated on its website, the users to whom statistical products are provided, as well as the number of requests that are processed every year.

### **Sub-Concept 12.3: Data Completeness**

In general, the content of the statistical data satisfies the data-collection and submission requirements on the subject.

## **CONCEPT 13 – ACCURACY AND RELIABILITY**

### **Sub-Concept 13.1: Overall accuracy**

A system of checks both across time and across different administrative sources is in place to ensure a sound level of accuracy. Long-standing procedures carried out by the unit as well as several cross-checks conducted against any available audited financial statements, provides the NSO with enough confidence to publish the relevant data on an annual basis.

### **Sub-Concept 13.2: Sampling errors**

Not available. Data collection is census based.

### **Sub-Concept 13.3: Non-sampling errors**

Main sources of non-sampling error relate to measurement and processing errors. Measurement errors are minimised through various cross-checks across time, as well as through several automatic validations and processing. The data inputted is re-checked by other statistical officers within the unit.

#### **Sub-Concept 13.3.1: Coverage error**

Not applicable.

##### **Sub-Concept 13.3.1.1: Over Coverage**

Not applicable.

##### **Sub-Concept 13.3.1.2: Common Units Proportion**

Not applicable.

#### **Sub-Concept 13.3.2: Measurement error**

Measurement errors are minimised through various cross-checks across time, as well as through several automatic validations and processing.

#### **Sub-Concept 13.3.3: Non-response error**

Not applicable

##### **Sub-Concept 13.3.3.1: Unit non-response**

Not available.

##### **Sub-Concept 13.3.3.2: Item non-response**

Not applicable, the respondent is specifically directed to provide an all-inclusive list of the annual sales of such products sold by the trading entity.

#### **Sub-Concept 13.3.4: Processing error**

A series of checks (including automatic, in-built validation checks within the purposely-prepared software program) and re-checks are in place across the compilation process to minimise the processing errors; including the re-checking of the data-input by other statistical officers within the Unit.



### **Sub-Concept 13.3.5: Model assumption error**

Not applicable.

## **CONCEPT 14 – TIMELINESS AND PUNCTUALITY**

### **Sub-Concept 14.1: Timeliness**

The compilation of the data starts with the data-request in mid-April of each year. The collection process usually takes around two months to complete; depending on the varying compilation procedures and records of respondents. Upon receipt of the data, each piece of information is validated and, if necessary, queried with the respondent through a written request or telephone contact. A follow-up process is eventually triggered until enough explanations related to the raised queries are provided. The compiled data are then generally submitted in December and consist of figures on the kilogramme quantity of active substances sold in Malta during the preceding calendar year.

### **Sub-Concept 14.2: Punctuality**

The data are invariably submitted to Eurostat on schedule.

## **CONCEPT 15 – COHERENCE AND COMPARABILITY**

### **Sub-Concept 15.1: Comparability – Geographical**

Comparable/common methodology is adhered to by all countries. Comparisons with other EU and Non-EU countries are carried out as necessary but not regularly by the Unit.

### **Sub-Concept 15.2: Comparability – Over Time**

As outlined in sub-concept 15.1, the data are, upon their receipt, compared across the latest years. The only significant change that has lately been carried out by the NSO concerns the method of collection and processing of the data. Such changes aim to achieve a faster and a higher standard of output in conformity with the latest international data-compilation and presentation requirements on active substances in marketed plant protection products.

Upon receipt, all data are compared with the latest years' records.

### **Sub-Concept 15.3: Coherence – Cross Domain**

Not applicable.

### **Sub-Concept 15.3.1: Coherence – Sub-Annual and Annual statistics**

Not applicable.

**Sub-Concept 15.3.2: Coherence – National Accounts**

Not applicable.

**Sub-Concept 15.4: Coherence – Internal**

Not applicable.

**CONCEPT 16 – COST AND BURDEN**

Not applicable.

**CONCEPT 17 – DATA REVISION****Sub-Concept 17.1: Data revision – Policy**

Revision of data is compliant with the ESS Code of Practice principles. Any required revisions are carried out in the following year.

At the NSO, there is currently no internal policy governing revisions that occur for all statistics produced. Nonetheless, a revisions policy is being drafted to safeguard a coordinated revisions system across statistical domains.

This policy will take account of the need and causes for revisions; time and frequency of revisions; data and other statistical products affected by such revisions; and length of periods revised.

**Sub-Concept 17.2: Data revision – Practice and Data Revision**

Any required revisions are carried out in the following year.

**CONCEPT 18 – STATISTICAL PROCESSING****Sub-Concept 18.1: Source data**

The data are collected through a direct-reporting survey system based on a fill-in form distributed via electronic mail to all the traders active in this commercial activity.

**Sub-Concept 18.2: Frequency of data collection**

Annual.

**Sub-Concept 18.3: Data Collection**

The data are gathered through a survey form distributed and collected via email to all the traders engaged in this commercial activity.

**Sub-Concept 18.4: Data Validation**

Data are checked, re-checked and validated throughout the collection, compilation, presentation and submission processes.

**Sub-Concept 18.5: Data Compilation**

The unit ensures that information about all the requested variables in the survey form is duly provided. Any adjustments are carried out at a later stage after consulting with the data provider. No imputations are carried out.

**Sub-Concept 18.5.1: Imputation**

Not applicable.

**Sub-Concept 18.6: Adjustment**

Not applicable. The only adjustments that are carried out refer to the afore-mentioned alterations/updates that arise during the checking processes.

**Sub-Concept 18.6.1: Seasonal Adjustment**

Not applicable.

**CONCEPT 19 – COMMENT**

No further comments.