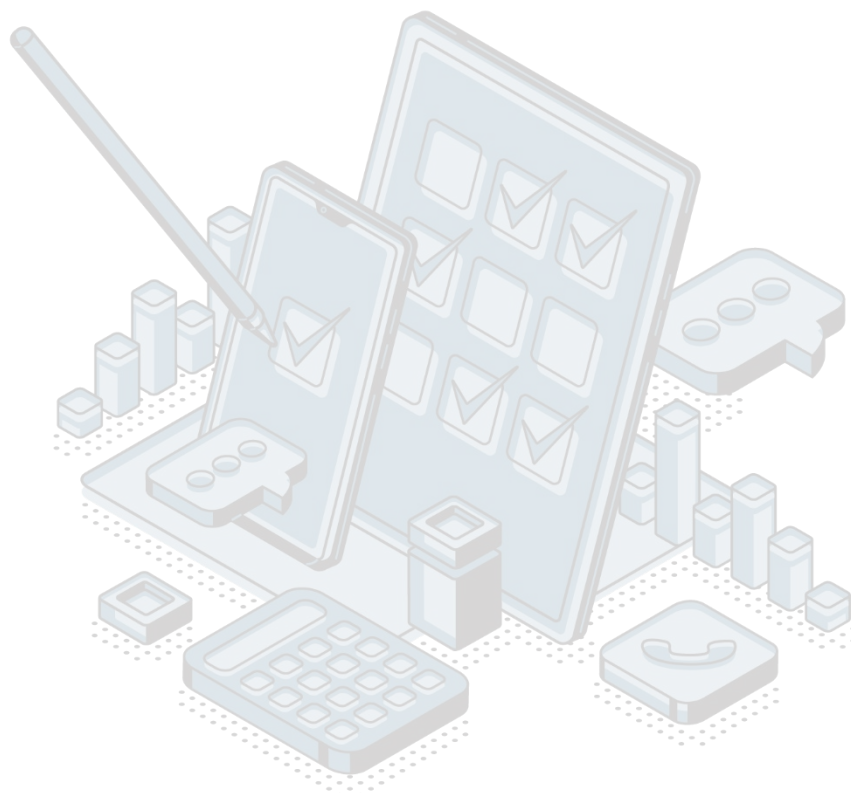


## QUALITY REPORT 2022

### Pesticide sales 2022



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## **1. Introduction – Basic information about the survey**

### **1.1. Purpose, goal and subject of the survey**

The aim of the survey is to collect data on the amount of pesticides placed on the market. The data set includes annual sales of active substances contained in plant protection products placed on the market from 2017 onwards, in accordance with Regulation (EC) no. 1185/2009 as amended by Commission Regulation (EU) 2017/269 of 16 February 2017 as regards the list of active substances. MONSTAT distributes the highest level of aggregation, which in the Harmonized Classification of Substances are also called main groups. They are as follows:

F - Fungicides and bactericides; H - Herbicides, destroyers and moss killers; I - Insecticides and acaricides; M - Molluscicides; PGR - Plant growth regulators; and ZR - Other plant protection products.

### **1.2 Legal basics**

The Law on Official Statistics and the System of Official Statistics ("Official Gazette of Montenegro" No. 18/12 and 47/19) defines provisions for the collection, processing and dissemination of data. The law provides the Statistical Office with the legal authority to collect and access the data necessary for the implementation of the Program and the Annual Plan. The Law gives a priority to the use of administrative data and right of access to individual data that are a result of survey of other official statistical producers.

As a supplement to the legal provisions, Statistical Office of Montenegro signed several memoranda on cooperation with the holders of administrative data (with the Ministry of Agriculture, Forestry and Water Management in June 2013). Regulation (EC) no. 1185/2009 of the European Parliament and of the Council of November 25, 2009 on pesticide statistics was amended by Commission Regulation (EU) 2017/269 of February 16, 2017 regarding the list of active substances.

### **1.3 Statistical units**

All entities registered for import, i.e. large-scale plant protection products. The source of the data is an administrative source (The Directorate for Foodsafety, Veterinary and Phytosanitary Affairs) which provides data to MONSTAT (active substance in pesticides sold wholesale in Montenegro). The directorate for Foodsafety, Veterinary and Phytosanitary Affairs provides data at the level of business entrepreneurs or other legal entity (entities registered for import, i.e. large-scale plant protection products, which are required to keep records of purchased and sold plant protection products, in accordance with Act on plant protection products). MONSTAT calculates the active substance.

### **1.4 Coverage and scope of survey**

#### **1.4.1 Sectors**

The statistics include active substances in plant protection products that are placed on the market in Montenegro. All active substances in pesticides are sold wholesale in Montenegro. The statistics include the wholesale trade sector, which deals with placing plant protection products on the market. All entities registered for import, i.e. wholesale trade in plant protection products, which are required to keep records of purchased and sold plant protection products in accordance with the Law on Plant Protection Products.

### 1.4.2 Statistical population

All active substance which contained in pesticides or plant protection products on the market in Montenegro. All wholesalers registered by the Administration for Food Safety, Veterinary and Phytosanitary Affairs, which are required to keep records of purchased and sold Plant Protection Products in accordance with the Law on Plant Protection Products.

### 1.5 Referent geographical area

Montenegro.

### 1.6 Concepts and definitions

*Active substances are substances that include microorganisms with a general or specific action against harmful organisms or on plants, parts of plants or plant products.*

*Fungicides* are products for the extermination of fungi provoking vegetal diseases, including bactericides for extermination of microbes.

*Herbicides* are products for the extermination of weeds or undesirable plants in general.

*Insecticides* are products for the extermination of insects, including acaricides for the extermination of mites.

*Molluscicides* are products for the extermination of snails.

*Plant growth* regulators are products which regulate the growth and development of plants.

*Other pesticides* are products for other purposes: mineral and vegetal oils, soil sterilant, rodenticides for the extermination of rodents, disinfectants, and other plant protection products.

### 1.7 Classifications

The classification of the active substances in plant protection products is annexed (Annex III) to Commission Regulation (EU) 2017/269 of 16 February 2017 amending Regulation (EC) No 1185/2009 of the European Parliament and of the Council concerning statistics on pesticides. The active substances are classified according to chemical and functional similarity. Aggregation levels in descending order comprise: major groups, categories of products, chemical classes and active substances. The geographical classification for country codes (ISO 3166) is applied.

### 1.8 Frequency of data collection

Data are published annually, at the end of December of the current year for the previous year.

### 1.9 Frequency of data dissemination

The data are published once a year and are available on the website of the Statistics Office from December 30. The survey on pesticides sale is included for the first time as a regular survey for 2022 in the Annual Plan of Official Statistics („Official Gazette of Montenegro“, No. 2/2022 of January 12, 2022). <https://www.monstat.org/cg/page.php?id=9&pageid=9> . The Statistical office of Montenegro has published the final data for the data series for the period 2017-2021, which were previously submitted to Eurostat as preliminary and protected. Data for 2022 were submitted to Eurostat in December 2023.

### 1.10 Methodology

The methodology for this survey can be found on our website at the following link: <http://monstat.org/uploads/files/poljoprivreda/pesticidi/METODHOLOGICAL%20GUIDELINES.pdf>.

Additional methodological explanations can be found in the Statistical Yearbook: <http://www.monstat.org/cg/novosti.php?id=3905>

### 1.11 Base period

Not applicable.

### 1.12 Unit of measure

The data are expressed in kilograms of active substances in pesticides sold in wholesale.

### 1.13 Source of data

Administrative data (The Directorate for Foodsafety, Veterinary and Phytosanitary Affairs).

### 1.14 Method of data collection

Administrative data source. The Directorate for Foodsafety, Veterinary and Phytosanitary Affairs provides data at the level of business entrepreneurs or other legal entity (entities registered for import, i.e. large-scale plant protection products, which are required to keep records of purchased and sold plant protection products, in accordance with Act on plant protection products). MONSTAT calculates the active substance.

## 2. Relevance – Data users

### 2.1 User needs

International users:

- ✚ Eurostat;
- ✚ FAO.

National users:

- ✚ Ministries and other public administration bodies;
- ✚ Local government and other local government bodies;
- ✚ Non-governmental organizations;
- ✚ Students;
- ✚ Researchers;
- ✚ Media.

Internal users are generally satisfied with the quality of the data. No external user satisfaction feedback.

### 2.2 User satisfaction

The Statistical Office has adopted the Quality Management Strategy, the Guidebook to the Implementation of the Quality Management Strategy, as well as the Plan for the Implementation of the Quality Policy. In order to measure the degree to which fulfills obligations towards users and within the new quality policy, the Statistical Office conducted User satisfaction survey. The results of the survey are available on the Statistical Office website, link:

[http://monstat.org/userfiles/file/KVALITET/2020/2\\_%20Izvjestaj%20o%20zadovoljstvu%20korisnika.pdf](http://monstat.org/userfiles/file/KVALITET/2020/2_%20Izvjestaj%20o%20zadovoljstvu%20korisnika.pdf).

## 3. Accuracy and reliability

### 3.1 Accuracy – Overall remark

The degree of accuracy is expected to be high. The exact value is guaranteed by the obligation to report every sale in the country to the Directorate for Food Safety, Veterinary and Phytosanitary Affairs. Published data is final.

### *Item non-response rate*

Not relevant.

## **3.2 Processing error**

Possible errors are during entry and calculation, but they are controlled and corrected through LK.

### *Imputation rate*

Not relevant. No imputation. Imputation is not carried out because all entities registered for import, i.e. wholesale trade in plant protection products are included.

## **3.3 Data revision**

### **3.3.1 Data revision policy**

Statistical Office of Montenegro - Monstat published in April 2023 the final data for the data series for the period 2016-2020, which were previously submitted to Eurostat as preliminary and protected. The survey on pesticide trade was first included as regular for 2022 in the Annual Plan of Official Statistics ("Official Gazette of Montenegro", No. 2/2022 of January 12, 2022), when the data were published for the first time on the Monstat website for the year 2021. Since then, the data from this survey is not published as preliminary and that is the reason why there is no regular revision of the data.

### **3.3.2 Data revision practice**

Statistical Office has adopted the revision policy and it is available on the website: <http://www.monstat.org/eng/page.php?id=1411&pageid=1411>.

### **3.3.3 Data revision - average size**

Not available.

## **4. Timeliness and punctuality**

### **4.1 Timeliness**

According to the Regulation (EC) No 1185/2009, the data is published by Eurostat 15 months after the end of the reference year and the national quality report 20 months after the end of the reference year.

#### *Time lag of the first results*

Not applicable for pesticide sales statistics as the data and national quality reports are only published once in a final result.

#### *Time lag of the final results*

15 months after the end of the reference period for the data; 20 months after the end of the reference period for the national quality report. Submission deadline (December 30, year t+1 for data submission; March 31, year t+2 for submission of the national quality report).

### **4.2 Punctuality**

According to the Regulation (EC) No 1185/2009, data must be transmitted until 30 December of the year t+1, and national quality reports until 31 March of the year t+2. There is no time lag between the actual data submission and the target date. All data are published in accordance with the scheduled publication date.

## 5. Availability and clarity

### 5.1 Release calendar

The final data are published annually as soon as they are processed and confirmed by Eurostat. The target date is the end of March. The Statistical Release Calendar is the schedule of publication of the results of official statistics during one year. It is prepared by the Statistical office in cooperation with other producers of official statistics in accordance with Article 50 of the Law on Official Statistics and the System of Official Statistics ("Official Gazette of Montenegro", No. 18/12 and 47/19). It is published on the website of the Statistical office of Montenegro.

### 5.2 Release calendar access

Statistical Release Calendar is available on the following link:

<http://www.monstat.org/eng/page.php?id=12&pageid=12%20>.

### 5.3 Release

The data is not published through a release, but only through an excel tabels on the official website. Also, the data is available in the Statistical Yearbook of the Statistical office of Montenegro.

### 5.4 Publications

All publications published by the Statistical Office are available at the following link: <https://www.monstat.org/eng/publikacije.php?id=100> .

### 5.5 Online database

<https://www.monstat.org/eng/page.php?id=1797&pageid=1797> .

### 5.6 Access to micro data

The Law on Official Statistics and Official Statistical System („Official Gazette of Montenegro“, No. /12 and 47/19), Article 58 regulates the rules by which external users can gain access to individual data for research purposes. Micro data is not published.

### 5.7 Metadata occupancy

Not available.

## 6. Comparability

### 6.1 Spatial comparability

Montenegro is on all three levels (NUTS 1,2,3). The indicators obtained on the basis of data from the Pesticides sales are fully comparable with the same indicators in EU countries, that is, with all countries that use the same methodology on Pesticides sales.

### 6.2 Time comparability

Data from the Pesticides sales are fully comparable over time and are available from 2017 to 2021 on the MONSTAT website in the Data section, link: <https://www.monstat.org/cg/page.php?id=2063&pageid=59> .

*Time comparability indicator*

Not relevant.