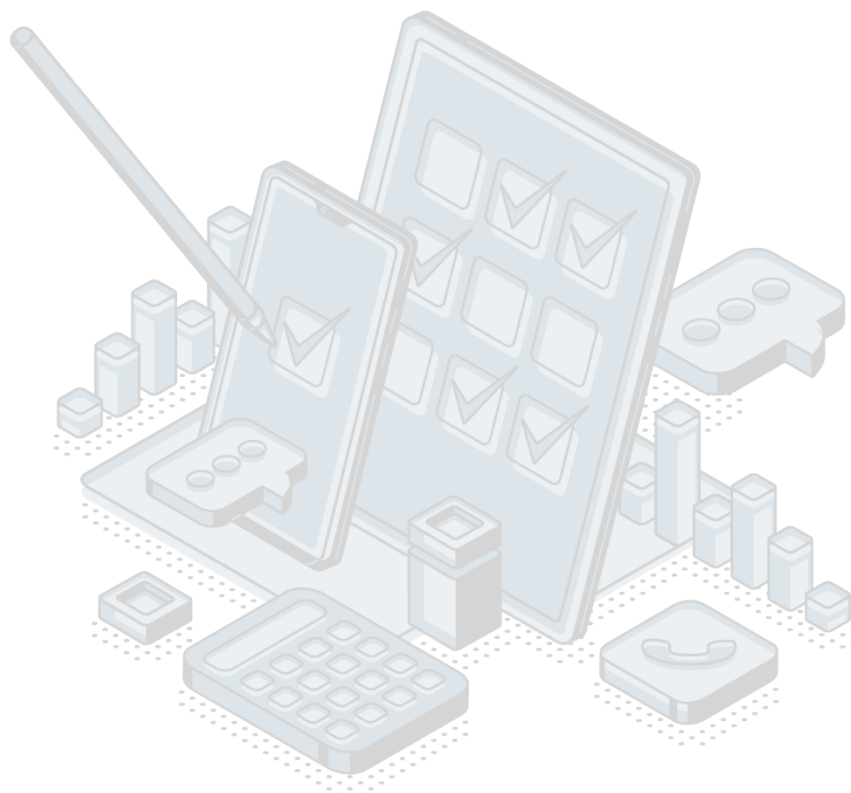


## QUALITY REPORT 2021

### Pesticide sales 2021



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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 the data on quantity of pesticide placed at the market as well as data on the quantities of active substances sold on the level of whole Montenegro for fungicides, herbicides, insecticides and other pesticides are published according to the Regulation (EC) No 1185/2009.

### 1.2 Legal basics

The survey is carried out based on the Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 18/12 and 47/19). 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).

The survey on pesticide sale, which is conducted in the Statistical Office of Montenegro, is fully aligned with EU Regulation 1185/2009. Eurostat collects data on pesticides (sale and use) according to EU Regulation 1185/2009. With the new legislative framework (SAIO), a new Implementing Regulation (IR) on plant protection products is being drafted and will replace the existing EU Regulation 1185/2009 in 2023.

### 1.3 Statistical units

Active substance in pesticides sold in wholesale in Montenegro. Administrative data source is the Ministry of Agriculture, Forestry, and Water Management (The Directorate for Food safety, Veterinary and Phytosanitary Affairs). The directorate for Food safety, Veterinary and Phytosanitary Affairs provides data at the level of business entrepreneurs or other legal entity and MONSTAT calculates the active substance.

### 1.4 Coverage and scope of survey

#### 1.4.1 Sectors

Agriculture.

#### 1.4.2 Statistical population

Enterprise placing plant protection products on the market.

### 1.5 Referent geographical area

Montenegro.

### 1.6 Concepts and definitions

Plant protection products are active substances and preparations containing one or more active substances in the form in which they are delivered to the end user, which are intended for:

- Protection of plants or plant products from harmful organisms or to prevent the action of those organisms, unless those substances or preparations are not intended for other purposes, in accordance with this law;
- Influence on the life processes of plants, except nutrition (regulation of growth, etc.);
- Storage of plant products, unless otherwise regulated by special regulations;
- Destruction of undesirable plants;
- Destruction of plant parts or prevention of undesirable plant growth;

*Active substances* are substances or micro-organisms, including viruses, which have a general or specific effect:

- Against harmful organisms or

- On plants, plant parts or plant products.

An active substance is a substance in a plant protection product that is biologically active, and serves to achieve the intended purpose, while inactive substances help in formulating the plant protection product.

-*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.

### 1.8 Frequency of data collection

Once a year until the end of July of the current year for the previous year.

### 1.9 Frequency of data dissemination

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

### 1.10 Methodology

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

### 1.11 Base period

Not applicable for pesticide sales statistics, because it is not based on an index number of time series.

### 1.12 Unit of measure

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

### 1.13 Source of data

The source of the data is the Ministry of Agriculture, Forestry and Water Management (The Directorate for Foodsafety, Veterinary, and Phytosanitary Affairs).

### 1.14 Method of data collection

Administrative data source.

## 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.

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

## 3. Accuracy and reliability

### 3.1 Accuracy – Overall remark

Not relevant. Pesticide sales statistics are largely based on administrative data and censuses/full surveys, therefore sampling error is not influential as there is largely a legal obligation on the respondents to provide the data.

### 3.2 Sampling error

Not relevant.

*Indikatori uzoračke greške*

Not relevant.

### 3.3 Non-sampling error

Not relevant.

#### 3.3.1 Coverage error

Not relevant.

*Indicators of coverage error*

Not relevant.

#### 3.3.2 Error of measurement

Not relevant.

### 3.3.3 Non-response error

Not relevant.

#### *Unit non-response rate*

Not relevant.

#### *Item non-response rate*

Not relevant.

### 3.3.4 Processing error

Not relevant.

#### *Imputation rate*

Not relevant.

## 3.4 Seasonal adjustment

Not relevant.

## 3.5 Data revision

### 3.5.1 Data revision policy

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>.

### 3.5.2 Data revision practice

Not available.

### 3.5.3 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 relevant.

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

Not relevant.

### 4.2 Punctuality

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 Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 018/12 and 047/19) stipulates that official statistical producers prepare, update and publish Statistical Release Calendar. It is published on the website of Statistical Office not later than 20 December for the next year, for all official statistical producers that includes date of releasing statistical data. Any change in date of releasing in the Calendar is published in advance in accordance with the Procedure on Unplanned Revisions.

### 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

Data for pesticides sales are available on the website of MONSTAT.

### 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

Not available.

### 5.6 Access to micro data

The Law on Official Statistics and Official Statistical System (Official Gazette of Montenegro No 018/12 and 047/19) regulates rules under which external users can obtain an access to individual data for needs of research. Article 58 defines types of scientific and research organizations that can obtain such data. Providing individual data without identifier is possible only upon a written request of scientific and research institutions, with purpose of performing scientific and research activities as well as international statistical organizations and statistical producers from other countries. Research entity signs the agreement with Statistical Office, and it signs the statement on respecting the confidentiality principle. Official statistical producers keep a separate record on users and purpose of using the statistical data given to these users.

### 5.7 Metadata occupancy

Not available.

## 6. Comparability

### 6.1 Spatial comparability

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/eng/page.php?id=1813&pageid=1813> .

#### *Time comparability indicator*

Not available.