



REPUBLIC OF CROATIA
CROATIAN BUREAU OF STATISTICS



QUALITY REPORT FOR STATISTICAL SURVEY

Agri-Environmental Indicators – Setup and Development of the System of Agri-Environmental Indicators Statistics for 2022

Organisational unit: Croatian Bureau of Statistics / Spatial Statistics Department

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0. Basic information

- Purpose and subject matter

Data present nitrogen and phosphorus inputs and outputs on utilised agricultural area, nitrogen and phosphorus gross surplus, nitrogen emissions into the air and nitrogen net surplus.

The amount of sold active substances for fungicides, herbicides, insecticides and other pesticides are presented at the level of chemical classes.

- Reference period

Calendar year

- Legal acts and other agreements

Act on fertilisers and soil improvers (OG, Nos 163/03, 40/07, 81/13, 14/14 and 32/19), Act on the Implementation Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market (OG, Nos 80/13, 32/19 and 32/20), Act on sustainable use of pesticides (OG, Nos 14/14, 115/18 and 32/20), Ordinance on mineral fertilisers (OG, No. 60/07), Regulation (EC) No 1185/2009 of the European Parliament and of the Council of 25 November 2009 concerning statistics on pesticides (OJ L 324, 10.12.2009), Commission Regulation (EU) No 408/2011 of 27 April 2011 implementing Regulation (EC) No 1185/2009 of the European Parliament and of the Council concerning statistics on pesticides, as regards transmission format (OJ L 108, 28.4.2011), Commission Implementing Regulation (EU) No 1264/2014 of 26 November 2014 amending Regulation (EU) No 408/2011 implementing Regulation (EC) No 1185/2009 of the European Parliament and of the Council concerning statistics on pesticides, as regards transmission format (OJ L 341, 27.11.2014), Commission Regulation (EU) No 656/2011 of 7 July 2011 implementing Regulation (EC) No 1185/2009 of the European Parliament and of the Council concerning statistics on pesticides, as regards definitions and list of active substances (OJ L 180, 8.7.2011)

- Classification system

National Classification of Activities 2007

Classification of Products by Activities of the Republic of Croatia, 2008 version

- Concepts and definitions

Nitrogen inputs comprise nitrogen in all forms entered into the soil with seeds and planting materials, fertilisers, biological fixation, atmospheric deposition and crop residues. Nitrogen outputs comprise nitrogen in all forms extracted from the soil in harvested crops, in harvested or grazed fodder and in crop residues removed from the field. Gross surplus (nitrogen) is nitrogen inputs less nitrogen outputs. The surplus of nitrogen in the soil presents the negative influence of agriculture on the environment. N emissions means quantities of nitrogen emitted into the air as a consequence of agricultural activities. Net surplus is gross surplus reduced by the N emissions into the air. It represents the remaining nitrogen in the soil and the part of nitrogen that can potentially be leached and contaminate the water. Phosphorus inputs comprise phosphorus in all forms entered into the soil with seeds and planting materials, fertilisers and crop residues. Phosphorus outputs comprise phosphorus in all forms extracted from the soil in harvested crops, in harvested or grazed fodder and in crop residues removed from the field. Gross surplus (phosphorus) is phosphorus inputs less phosphorus outputs. The surplus of phosphorus in the soil presents a negative influence of agriculture on the environment.

Active substances means chemical elements and their compounds as they occur naturally or by manufacture, having 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. Other pesticides include

molluscicides for the extermination of snails, plant growth regulators, vegetal oils, soil sterilants, rodenticides for the extermination of rodents and other plant protection products.

- **Statistical units**

National needs and Eurostat

- **Statistical population**

Data for calculating agri-environmental indicators are taken over from the Ministry of Agriculture and Ministry of Economy and Sustainable Development.

1. Relevance

1.1. Data users

External users: Eurostat

1.1.1. User needs

Eurostat (EC-DG AGRI)

1.1.2. User satisfaction

A targeted satisfaction survey is not carried out.

1.2. Completeness

100%

1.2.1. Data completeness rate

Data completeness rate is: 0%

2. Accuracy and reliability

2.1. Sampling error

Not required.

2.1.1. Sampling error indicators

The indicator is not applicable.

2.2. Non-sampling error

Not required.

2.2.1. Coverage error

Not required.

2.2.2. Over-coverage rate

The indicator is not applicable.

2.2.3. Measurement errors

Not required.

2.2.4. Non-response errors

Not required.

2.2.5. Unit non-response rate

The indicator is not applicable.

2.2.6. Item non-response rate

The indicator is not applicable.

2.2.7. Processing errors

Not required.

2.2.8. Imputation rate

The indicator is not applicable.

2.2.9. Model assumption error

Not required.

2.3. Data revision

2.3.1. Data revision – policy

The users of statistical data are informed about revision (preliminary, final data) on the website of the Croatian Bureau of Statistics.

2.3.2. Data revision – practice

Provisional figures are not published in this survey and therefore regular revision is not planned.

2.3.3. Data revision – average size

The indicator is not applicable.

2.4. Seasonal adjustment

Not applicable.

3. Timeliness and punctuality

3.1. Timeliness

Nitrogen and phosphorus balance – 30 June 2019 – 30 June 2020

Pesticide sales – 1 January 2021 – 30 December 2021

3.1.1. Time lag – first results

The indicator is not applicable.

3.1.2. Timeliness – final results

The indicator is not applicable.

3.2. Punctuality

There is no time lag.

3.2.1. Punctuality – delivery and publication

Delivery and publication is: 0%

4. Accessibility and clarity

PC-Axis database

4.1. News release

Not released.

4.2. Online database

PC-Axis database

4.3. Microdata access

Conditions under which certain users can have access to microdata are regulated by the Ordinance on the Conditions and Manner of Use of Statistical Data for Scientific Purposes.

4.4. Documentation on methodology

PC-Axis database

5. Coherence and comparability

5.1. Asymmetry for mirror flows statistics

Not applicable.

5.2. Comparability over time

Nitrogen and phosphorus balance – annual data have been available and comparable since 2010.

Pesticide sales – annual data have been available and comparable since 2013.

5.2.1. Length of comparable time series

The indicator is not applicable.

5.2.2. Reasons for break in time series

There were no breaks in time series.

5.3. Coherence – short-term and structural data

The indicator is not applicable.

5.4. Coherence – national accounts

The indicator is not applicable.

5.5. Coherence – administrative sources

Coherence with data from administrative sources is:

Statistic	Domain	Domain value	Notice	Value
				1

6. Cost and burden

6.1. Cost

Not applicable.

6.2. Burden

Administrative source