



REPUBLIC OF CROATIA  
CROATIAN BUREAU OF STATISTICS



## QUALITY REPORT FOR STATISTICAL SURVEY

### Nitrogen and phosphorus balance for 2024

Organisational unit: Croatian Bureau of Statistics, Spatial Statistics Department

Prepared by: Predrag Cvjetićanin and Petar Đikanović

January 2025

## 0. Basic information

- Purpose and subject of the survey

The 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.

- Reference period

Calendar year

- Legal acts and other agreements

[Act on the Amendment of the Act on Fertilisers and Soil Improvers \(nn.hr\)](#)

[Ordinance on Mineral Fertilisers \(nn.hr\)](#)

- Classification system

National Classification of Activities 2007

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

[Decision on the National Classification of Activities 2007 – NKD 2007 \(nn.hr\)](#)

- Statistical 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, mown or grazed fodder and crop residues removed from the field. Gross surplus 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. 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, mown or grazed fodder and crop residues removed from the field. Gross surplus is phosphorus inputs less phosphorus outputs. The surplus of phosphorus in the soil presents a negative influence of agriculture on the environment.

- Statistical units

National needs and Eurostat

- Statistical population

Data for calculating the nitrogen and phosphorus balance are taken over from the Ministry of Economy.

## 1. Relevance

### 1.1. Data users

External users: Eurostat

#### 1.1.1. User needs

Eurostat (EC-DG AGRI)

### 1.1.2. User satisfaction

The first user satisfaction survey of the Croatian Bureau of Statistics was conducted in 2013, the second one in 2015, and the last one at the end of 2022.

[Croatian Bureau of Statistics – User satisfaction surveys \(gov.hr\)](http://gov.hr)

## 1.2. Completeness

100%

### 1.2.1. Data completeness rate

Data completeness rate is 100%.

## 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 revisions on the website of the Croatian Bureau of Statistics, on the link – [General Revision Policy of the CBS](#).

### 2.3.2. Data revision – practice

Provisional figures are not published in this survey and, therefore, regular revisions are 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**

The timeliness of final results is T + 24, the last reference day being 30 June 2022.

#### 3.1.1. Timeliness – first results

The indicator is not applicable.

#### 3.1.2. Timeliness – final results

The timeliness of final results is T + 24, the last reference day being 30 June 2022.

### **3.2. Punctuality**

There is no time lag.

#### 3.2.1. Punctuality – delivery and publication

Punctuality is 100%.

## **4. Accessibility and clarity**

PC-Axis database

[PX-Web – Choose table \(dzs.hr\)](#)

### **4.1. News release**

Not published.

### **4.2. Online database**

PC-Axis database

[PX-Web – Choose table \(dzs.hr\)](#)

### 4.3. Micro-data access

The conditions under which certain users can access microdata are regulated by the [Ordinance on Conditions and Terms of Access and Use of Confidential Statistical Data of the Croatian Bureau of Statistics for Scientific Purposes](#) (OG, No. 5/23).

### 4.4. Documentation on methodology

PC-Axis database

[CROATIAN BUREAU OF STATISTICS – REPUBLIC OF CROATIA \(dzs.hr\)](#)

## 5. Coherence and comparability

### 5.1. Asymmetry for mirror flows statistics

Not applicable.

### 5.2. Comparability over time

Annual data are available and comparable since 2010.

#### 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 the 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	Comment	Value
				1

## 6. Cost and burden

### 6.1. Cost

Not applicable.

### 6.2. Burden

Administrative source.