EEA geospatial data catalogue

WISE statistics - nutrients (1990-2023), 2025

WISE Statistics – Nutrients

The WISE Statistics are aggregated data products for creation of the Freshwater indicators "Oxygen consuming substances in European rivers" and "Nutrients in Freshwater in Europe", which are published at the EEA website.

The data tables provides several aggregation levels, e.g. waterbody, country, Europe. The EEA combines and aggregates the reported data from the annual WISE SoE data flows. Data can be reported on three levels: Disaggregated (individual observations on monitoring site level), aggregated (annual aggregation of observations per monitoring site), aggregated by water body (annual aggregation of observations per water body). The Nutrients AggregatedData table combines reported disaggregated and aggregated data, while all higher aggregation levels can also include data aggregated by water body.

Simple

Identification info

Date (Creation)	2026-02-02
Date (Publication)	2026-02-02
Edition	01.00
Citation identifier	eea_t_wise-statistics-nutrient-1990-2023_p_2025_v01_r00

Identifier

Code	10.2909/c6e353a2-c004-41eb-b0c1-5a2a1da5ef3b
Codespace	doi.org
Description	Digital Object Identifier (DOI)

Point of contact

Organisation	Individual	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu	http://www.eea.europa.eu	Point of contact
European Environment Agency		sdi@eea.europa.eu		Custodian

Topic category	• Environment

Extent

Temporal extent

Time period	1990-01-01 2023-12-31
Maintenance and update frequency	Annually
GEMET	• environmental policy • in situ • water statistics

Continents, countries, sea regions of the world.	• EEA38 (from 2020)
Reporting obligations	• WISE SoE - Water quality (WISE-6)
EEA Management Plan	• 2025 EEA/DATA/2025/042
EEA topics	• Water

Resource constraints

Use constraints	Other restrictions
Other constraints	License CC-BY 4.0 (https://creativecommons.org/licenses/by/4.0/). Copyright holder: European Environment Agency (EEA).

Language	English
Additional Information	The following combinations of properties and water body categories are included under Nutrients (* marks data included in the indicators): Ammonium in groundwater *Ammonium in rivers Ammonium in lakes *BOD5 in rivers BOD5 in lakes Chlorophyll a in rivers Chlorophyll a in lakes Cyanobacteria biomass in lakes Cyanobacteria biomass in rivers Dissolved organic carbon (DOC) in rivers Dissolved organic carbon (DOC) in groundwater Dissolved organic carbon (DOC) in lakes *Nitrate in groundwater *Nitrate in rivers Nitrate in lakes Nitrite in groundwater Nitrite in rivers Nitrite in lakes *Phosphate in rivers Phosphate in groundwater Phosphate in lakes Secchi depth in lakes Secchi depth in rivers Total organic carbon (TOC) in rivers Total organic carbon (TOC) in groundwater Total organic carbon (TOC) in lakes Total phosphorus in rivers Total phosphorus in groundwater *Total phosphorus in lakes Total phytoplankton biomass in lakes Total phytoplankton biomass in rivers For more information on the data processing, see the Ancillary tables for WISE Statistics on both Nutrients and Biology: AncillaryData – TimeSeries: Provides an overview of which timeseries of properties and waterbody categories are created for the WISE Statistics. AncillaryData – Classification: Provides an overview of classification types and class boundaries for the different combinations of properties and waterbody categories. AncillaryData – QualityControl: Gives an overview of quality control (QC) statements, and whether records with a given statement are include/excluded when processing the WISE Statistics data.

The disaggregated data, aggregated data, and aggregated data by water body is also published in Waterbase – Water Quality ICM, see: https://www.eea.europa.eu/en/datahub/datahubitem-view/fbf3717c-cd7b-4785-933a-d0cf510542e1

The WISE Statistics and Waterbase – Water Quality ICM are based on reported data from the WISE SoE - WISE-6 dataflow, see Reporting Obligations Database (ROD) entry: https://rod.eionet.europa.eu/obligations/14.

Class values The number of sites or water bodies with a given Class values {1,2,3,4,5} are included in the below tables:

- Nutrients - AggregatedData_Country
- Nutrients - AggregatedData_Europe
- Nutrients - AggregatedDataByWaterBody_Country
- Nutrients - AggregatedDataByWaterBody_Europe

The class value of monitoring sites or water bodies are defined by the annual average concentration within the given class boundaries for Ammonium, Dissolved Oxygen, Nitrate and Nitrite. Boundaries values for each class use the definitions provided for reporting of data in the WISE 6 table “AggregatedDataByWaterBody” and can be found in the Data Dictionary: https://dd.eionet.europa.eu/datasets/latest/WISE-SoE_WaterQualityICM/tables/AggregatedDataByWaterBody

Distribution Information

Distribution format	• ascii (.csv, .txt, .sql)
OnLine resource	Nutrients - AncillaryData_TimeSeries
OnLine resource	Nutrients - AncillaryData_Classification
OnLine resource	Nutrients - AncillaryTable_QualityControl
OnLine resource	Nutrients - AggregatedData_Country
OnLine resource	Nutrients - AggregatedData_Europe
OnLine resource	Nutrients - AggregatedData_SpatialUnit
OnLine resource	Nutrients - AggregatedData_Summary
OnLine resource	Nutrients - AggregatedDataByWaterBody
OnLine resource	Nutrients - AggregatedDataByWaterBody_Country
OnLine resource	Nutrients - AggregatedDataByWaterBody_Europe
OnLine resource	Nutrients - AggregatedDataByWaterBody_SpatialUnit
OnLine resource	Nutrients - AggregatedDataByWaterBody_Summary
OnLine resource	Nutrients - WISE6_AggregatedData_Statistics
OnLine resource	Nutrients - WISE6_AggregatedDataByWaterBody_Statistics
OnLine resource	Nutrients - AggregatedData
OnLine resource	Detailed metadata for each discodata table and column
OnLine resource	SpatialData_Country

OnLine resource	SpatialData_MonitoringSite
OnLine resource	SpatialData_SpatialUnit
OnLine resource	SpatialData_WaterBody
OnLine resource	EEA Indicator: Nutrients in freshwater in Europe (8th EAP)
OnLine resource	EEA Indicator: Oxygen consuming substances in European rivers
OnLine resource	Digital Object Identifier (DOI)

Resource lineage

Statement	The WISE Statistics – nutrients is created from data reported under the annual WISE SoE - WISE-6 dataflow. To see the latest and previous annual data flows go to https://reportnet.europa.eu/public/dataflows and search for 'WISE 6'. The processing is revised and run on an annual basis. WISE-6 and QC: WISE 6 data is subjected to 4 levels of QC: 1: Automatic QC when data is reported 2: Evaluation and feedback as needed before acceptance of reported data 3: Flagging of records with potential issues in database 4: Data used for indicators are subjected to expert QC The reported data with QC flags are published as 'Waterbase - Water Quality ICM' on the EEA Datahub. Ancillary tables: When processing the WISE Statistics from Waterbase – Water Quality ICM data, the QC statements from automatic and expert QC are used to exclude problematic records. The QC statements that results in exclusion of Waterbase – Water Quality ICM records from the WISE Statistics can be seen in the “ancillarytable_qualitycontrol” table. The selection of time series that are created for WISE Statistics are defined in the table “ancillarydata_timeseries”. The classification used for a given time series are noted in the “ancillarydata_classification” The Ancillary tables can be downloaded – see “Links”.
Hierarchy level	Dataset

Metadata

Metadata identifier	c6e353a2-c004-41eb-b0c1-5a2a1da5ef3b
Language	English
Character encoding	UTF8
Contact	**Organisation** / **Individual** / **Electronic mail address** / **Website** / **Role** European Environment Agency / / sdi@eea.europa.eu / / Point of contact

Type of resource

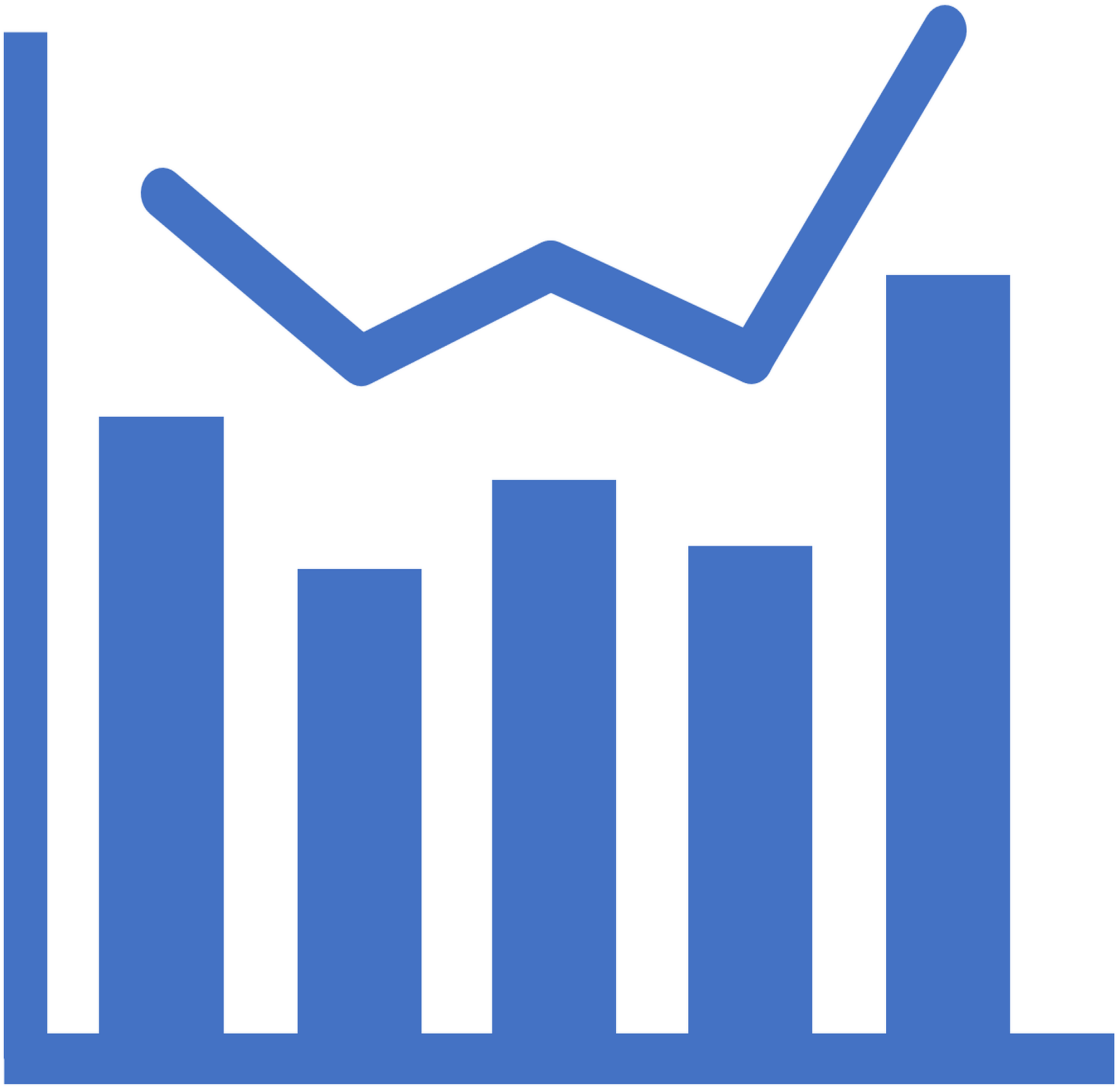
Resource type	Non geographic dataset
Name	Tabular dataset

Metadata linkage	https://doi.org/10.2909/c6e353a2-c004-41eb-b0c1-5a2a1da5ef3b
Date info (Creation)	2026-02-02T08:35:18.387566Z
Date info (Revision)	2026-09-25T11:13:27.924541Z

Metadata standard

Title	ISO 19115/19139
Edition	1.0

Overviews



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