EEA geospatial data catalogue

Phosphate in rivers (2000-2022)

This indicator shows concentrations of phosphate in rivers. The indicator can be used to illustrate geographical variations in current nutrient concentrations and temporal trends.

Note: This dataset references the "WISE EIONET Spatial Datasets - PUBLIC VERSION - version 1.9, Nov. 2024" (https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/metadata/43c386e6-4d0f-4364-9f8c-52edf7dd32fd)

Simple

Identification info

Date (Creation)	2025-01-09
Date (Publication)	2025-01-09
Edition	01.00
Citation identifier	eea_s_eu-sdg-06-50_p_2000-2022_v01_r00

Identifier

Code	10.2909/ad1deba6-b933-4145-9ff0-28edc4c6399e
Status	Superseded

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
- Inland waters

Extent

Temporal extent

Time period	2000-01-01 2022-12-31
Maintenance and update frequency	Annually
Date	2025-10
Date type	Next Update
GEMET	• organic pollution • river • sustainable development goals • in situ • statistical data • phosphate
Continents, countries, sea regions of the world.	• Sweden

	• Croatia • Ireland • Latvia • Lithuania • Denmark • North Macedonia • Italy • Slovenia • Slovakia • Belgium • Bulgaria • Switzerland • Iceland • Estonia • Czechia • Albania • Norway • Finland • Spain • Serbia • Romania
Reporting obligations	• WISE SoE - Water quality (WISE-6)
EEA Management Plan	• 2024 1.1.16
EEA topics	• Pollution • Sustainability challenges • Water
Unit of measure	• mg PO4 per litre
Available breakdowns	• Country
Reference period	• Calendar year

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

Distribution Information

Distribution format	• Microsoft Excel (.xls, .xlsx) • ascii (.csv, .txt, .sql)
OnLine resource	https://sdi.eea.europa.eu/webdav/datastore/public/eea_s_eu-sdg-06-50_p_2000-2022_v01_r00
OnLine resource	Direct download
OnLine resource	EEA Indicator WAT003 - Nutrients in freshwater in Europe
OnLine resource	Detailed metadata for each discodata table and column
OnLine resource	Phosphate in rivers - AggregatedData
OnLine resource	Eurostat indicator: Phosphate in rivers
OnLine resource	

Data quality info

Hierarchy level	Dataset

Report

Name of measure	Frequency of dissemination
Measure description	Indicator is updated annually.

Result

Value	Every year

Report

Name of measure	Timeliness
Measure description	New data points are disseminated within two years after the reference year.

Result

Value	T+2 years

Report

Name of measure	Reference area
Measure description	Data are presented for all EU Member States except Austria, Cyprus, Germany, Greece, France, Hungary, Luxembourg, Malta, Netherlands, Poland, and Portugal.

Result

Value	< 75% EU MS or no EU aggregate

Report

Name of measure	Comparability - geographical
Measure description	Data comparability between EU Member States respectively other presented countries is limited due to monitoring programmes, including methodology and spatio-temporal sampling density, varying from country to country. The reporting is voluntary so countries do not necessarily report all available data.

Result

Value	< 75% EU MS

Report

Name of measure	Time coverage
Measure description	Presented time series (aggregate changing according to the context EU_V) starts in 2000.

Result

Value	> 10 years

Report

Name of measure	Comparability - over time
Measure description	Length of comparable time series without methodological break is longer than 4 data points. A major revision is expected by the end of 2025.

Result

Value	> 4 data points

Resource lineage

Statement	Based on the data from WISE-6 reporting, annual mean concentrations are used as a basis in the indicator analyses. Unless the country reports aggregated data, the aggregation to annual mean concentrations is done by the EEA. Automatic quality control procedures are applied both to the disaggregated and aggregated data, excluding data failing the tests from further analysis. In addition, a semi-manual procedure is applied, focusing on suspicious values having a major impact on the country time series and on the most recently reported data. This comprises e.g.: • outliers; • consecutive values deviating strongly from the rest of the time series; • whole time series deviating strongly in level compared to other time series for that country and determinand; • where values for a specific year are consistently far higher or lower than the remaining values for that country and determinand. Such values are removed from the analysis and checked with the country. For time series analyses, only complete series after inter/extrapolation are used. This is to ensure that the aggregated time series are consistent, i.e. including the same sites throughout. Inter/extrapolation of gaps up to 3 years are allowed, to increase the number of available time series. At the beginning or end of the data series missing values are replaced by the first or last value of the original data series, respectively. In the middle of the data series, missing values are linearly interpolated. The selected time series are aggregated to country and European level by averaging across all sites for each year.
Hierarchy level	Dataset
Source	• Waterbase - Water Quality ICM, 2024

Metadata

Metadata identifier	ad1deba6-b933-4145-9ff0-28edc4c6399e
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/ad1deba6-b933-4145-9ff0-28edc4c6399e
Date info (Creation)	2024-12-17T10:23:30.612093Z

Date info (Revision)	2026-10-27T15:21:00.833141Z

Metadata standard

Title	ISO 19115/19139
Edition	1.0

Overviews

Dataset for indicator	Phosphate in rivers (06_50)																							
Conditions																								
Unit	mg PO4 per litre																							
Coverage	EU_V																							
Legend	AGG= Aggregate																							
	MS= Member State																							
	EFTA= EFTA country																							
	CC= Candidate Country																							
		TIME																						
Type	**GEO (Labels)**	**GEO (Codes)**	**2000**	**2001**	**2002**	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**
AGG	**European Union (aggregate changing according to the context)**	**EU_V**	**0.090**	**0.092**	**0.090**	**0.094**	**0.083**	**0.075**	**0.090**	**0.092**	**0.080**	**0.078**	**0.073**	**0.057**	**0.064**	**0.060**	**0.061**	**0.063**	**0.061**	**0.066**	**0.066**	**0.070**	**0.080**	**0.074**
AGG	**European Union - 2**	**EU27_2020**	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Austria	AT	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Belgium	BE	0.269	0.243	0.247	0.317	0.300	0.282	0.228	0.192	0.160	0.227	0.215	0.217	0.160	0.166	0.173	0.188	0.169	0.215	0.192	0.220	0.197	0.174
MS	Bulgaria	BG	0.224	0.305	0.261	0.243	0.239	0.133	0.321	0.424	0.323	0.294	0.332	0.133	0.150	0.141	0.112	0.094	0.098	0.131	0.105	0.146	0.189	0.189
MS	Cyprus	CY	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Czechia	CZ	0.257	0.218	0.206	0.278	0.220	0.152	0.123	0.117	0.121	0.080	0.068	0.109	0.125	0.104	0.127	0.126	0.125	0.123	0.133	0.108	0.078	0.085
MS	Germany	DE	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Denmark	DK	0.057	0.055	0.056	0.053	0.054	0.048	0.053	0.049	0.048	0.045	0.049	0.051	0.051	0.046	0.047	0.051	0.047	0.050	0.049	0.050	0.055	0.053
MS	Estonia	EE	0.036	0.039	0.037	0.045	0.033	0.031	0.031	0.028	0.031	0.033	0.027	0.029	0.025	0.024	0.023	0.023	0.027	0.026	0.027	0.023	0.025	0.022
MS	Greece	EL	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Spain	ES	0.113	0.090	0.103	0.093	0.102	0.125	0.131	0.107	0.075	0.047	0.046	0.052	0.142	0.130	0.144	0.159	0.180	0.194	0.194	0.189	0.187	0.199
MS	Finland	FI	0.019	0.020	0.014	0.017	0.017	0.018	0.016	0.015	0.017	0.018	0.015	0.016	0.017	0.012	0.011	0.016	0.016	0.016	0.011	0.013	0.016	0.015
MS	France	FR	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Croatia	HR	0.065	0.065	0.065	0.065	0.055	0.043	0.058	0.037	0.034	0.026	0.038	0.032	0.031	0.028	0.025	0.022	0.024	0.025	0.022	0.026	0.022	0.018
MS	Hungary	HU	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Ireland	IE	0.047	0.043	0.037	0.036	0.034	0.035	0.036	0.035	0.034	0.035	0.038	0.034	0.024	0.022	0.025	0.023	0.026	0.026	0.025	0.025	0.023	0.022
MS	Italy	IT	0.026	0.020	0.046	0.053	0.039	0.041	0.049	0.047	0.043	0.039	0.040	0.037	0.039	0.049	0.060	0.071	0.050	0.043	0.042	0.044	0.054	0.055
MS	Lithuania	LT	0.118	0.094	0.141	0.093	0.070	0.129	0.155	0.051	0.082	0.087	0.055	0.053	0.044	0.067	0.051	0.080	0.064	0.086	0.121	0.113	0.279	0.205
MS	Luxembourg	LU	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Latvia	LV	0.029	0.033	0.028	0.034	0.026	0.023	0.031	0.022	0.021	0.015	0.026	0.021	0.020	0.017	0.017	0.013	0.019	0.019	0.018	0.019	0.020	0.017
MS	Malta	MT	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Netherlands	NL	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Poland	PL	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Portugal	PT	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
MS	Romania	RO	0.150	0.150	0.145	0.160	0.114	0.120	0.107	0.130	0.127	0.127	0.084	0.090	0.102	0.090	0.101	0.105	0.085	0.080	0.095	0.097	0.107	0.087
MS	Sweden	SE	0.009	0.010	0.012	0.011	0.014	0.012	0.012	0.011	0.011	0.010	0.012	0.012	0.010	0.010	0.009	0.008	0.008	0.007	0.007	0.007	0.007	0.007
MS	Slovenia	SI	0.048	0.047	0.045	0.043	0.031	0.038	0.054	0.046	0.032	0.034	0.026	0.032	0.035	0.023	0.027	0.045	0.039	0.033	0.029	0.029	0.029	0.029
MS	Slovakia	SK	0.184	0.163	0.143	0.186	0.153	0.120	0.117	0.119	0.108	0.104	0.073	0.081	0.102	0.085	0.104	0.092	0.096	0.072	0.072	0.071	0.055	0.050
EFTA	Iceland	IS	0.008	0.008	0.009	0.009	0.013	0.013	0.008	0.011	0.007	0.002	0.006	0.008	0.006	0.007	0.010	0.007	0.026	0.022	0.023	0.026	0.021	0.021
EFTA	Liechtenstein	LI	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
EFTA	Norway	NO	0.004	0.003	0.004	0.002	0.003	0.002	0.004	0.005	0.003	0.003	0.004	0.005	0.005	0.005	0.005	0.003	0.003	0.004	0.004	0.004	0.004	0.005
EFTA	Switzerland	CH	0.025	0.025	0.022	0.020	0.021	0.020	0.024	0.020	0.019	0.019	0.019	0.021	0.019	0.015	0.016	0.021	0.019	0.016	0.013	0.015	0.016	0.016
CC	Bosnia and Herzego	BA	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
CC	Montenegro	ME	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
CC	North Macedonia	MK	0.473	0.271	0.397	0.444	0.411	0.239	0.196	0.239	0.235	0.246	0.159	0.192	0.221	0.062	0.094	0.063	0.066	0.085	0.065	0.094	0.090	0.079
CC	Albania	AL	0.025	0.024	0.026	0.027	0.018	0.061	0.096	0.087	0.285	0.140	0.259	0.118	0.051	0.048	0.045	0.042	0.285	0.135	0.091	0.058	0.082	0.051
CC	Serbia	RS	0.076	0.080	0.077	0.087	0.070	0.084	0.089	0.081	0.082	0.076	0.080	0.074	0.081	0.065	0.070	0.075	0.069	0.066	0.062	0.066	0.065	0.065
CC	Türkiye	TR	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
CC (potential)	Kosovo (under Unit	XK	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:

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