



Nitrate in groundwater (2000-2022)

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

Simple

Date (Creation)	2024-12-19																	
Date (Publication)	2024-12-19																	
Edition	01.00																	
Citation identifier	eea_s_eu-sdg-06-40_p_2000-2022_v01_r00																	
Code	10.2909/4a0c1d82-e01a-4b69-bfcf-6d60853484fd																	
Point of contact	<table border="1"> <thead> <tr> <th>Organisation name</th> <th>Individual name</th> <th>Electronic mail address</th> <th>Website</th> <th>Role</th> </tr> </thead> <tbody> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td>http://www.eea.europa.eu</td> <td>Point of contact</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea.europa.eu</td> <td></td> <td>Custodian</td> </tr> </tbody> </table>	Organisation name	Individual name	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		
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No information provided.

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Maintenance and update frequency	Annually
Date of next update	2025-10
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> nitrate groundwater pollution statistical data organic pollution sustainable development goals
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> Malta Denmark Slovakia Ireland Cyprus Spain

	<ul style="list-style-type: none"> • Bulgaria • France • Portugal • Belgium • Estonia • Serbia • Austria • Germany • Italy • Finland • Slovenia • Latvia • Czechia • Switzerland 															
Reporting obligations	<ul style="list-style-type: none"> • WISE SoE - Water quality (WISE-6) 															
EEA Management Plan	<ul style="list-style-type: none"> • 2024 1.1.16 															
EEA topics	<ul style="list-style-type: none"> • Sustainability • Water • Pollution 															
Unit of measure	<ul style="list-style-type: none"> • mg NO3 per litre 															
Available breakdowns	<ul style="list-style-type: none"> • Country 															
Reference period	<ul style="list-style-type: none"> • Calendar year 															
Use constraints	Other restrictions															
Other constraints	EEA standard re-use policy: unless otherwise indicated, re-use of content on the EEA website for commercial or non-commercial purposes is permitted free of charge, provided that the source is acknowledged (http://www.eea.europa.eu/legal/copyright). Copyright holder: European Environment Agency (EEA).															
Language of dataset	English															
Topic category	<ul style="list-style-type: none"> • Environment • Inland waters 															
Begin date	2000-01-01															
End date	2022-12-31															
Distribution format	<ul style="list-style-type: none"> • Microsoft Excel (.xls, .xlsx) () • ascii (.csv, .txt, .sql) () 															
OnLine resource	<table border="0"> <thead> <tr> <th>Protocol</th> <th>Linkage</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>EEA:FOLDERPATH</td> <td>https://sdi.eea.europa.eu/webdav/datastore/public/eea_s_eu-sdg-06-40_p_2000-2022_v01_r00</td> <td></td> </tr> <tr> <td>WWW:URL</td> <td>https://sdi.eea.europa.eu/data/4a0c1d82-e01a-4b69-bfcd-6d60853484fd</td> <td>Direct download</td> </tr> <tr> <td>WWW:LINK-1.0-http--link</td> <td>https://www.eea.europa.eu/en/analysis/indicators/nutrients-in-freshwater-in-europe</td> <td>EEA Indicator WAT003 - Nutrients in freshwater in Europe</td> </tr> <tr> <td>WWW:LINK-1.0-http--link</td> <td>https://discomap.eea.europa.eu/App</td> <td></td> </tr> </tbody> </table>	Protocol	Linkage	Name	EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_s_eu-sdg-06-40_p_2000-2022_v01_r00		WWW:URL	https://sdi.eea.europa.eu/data/4a0c1d82-e01a-4b69-bfcd-6d60853484fd	Direct download	WWW:LINK-1.0-http--link	https://www.eea.europa.eu/en/analysis/indicators/nutrients-in-freshwater-in-europe	EEA Indicator WAT003 - Nutrients in freshwater in Europe	WWW:LINK-1.0-http--link	https://discomap.eea.europa.eu/App	
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WWW:LINK-1.0-http--link	https://discomap.eea.europa.eu/App															

WWW:DOWNLOAD:ascii (.csv, .txt, .sql)	/DiscodataViewer/?fqn=[metadata].[v2].[metadata]&parentIdentifier=%WISE_Indicators%v5r1%&objectType=table.column	Detailed metadata for each discodata table and column
WWW:LINK-1.0-http--link	https://discodata.eea.europa.eu/download/WISE_Indicators/v5r1/AggregatedDataByWaterBody	Nitrate in groundwater - AggregatedDataByWaterBody
	https://ec.europa.eu/eurostat/databrowser/view/sdg_06_40/default/table?lang=en	Eurostat indicator: Nitrate in groundwater

OnLine resource

No information provided.

OnLine resource	Protocol	Linkage	Name
	DOI	https://doi.org/10.2909/4a0c1d82-e01a-4b69-bfct-6d60853484fd	
Hierarchy level	Dataset		

Accuracy of time measurement

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

Quantitative result

Value	Every year
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Accuracy of time measurement

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

Quantitative result

Value	T+2 years
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Quantitative attribute accuracy

Name of measure	Reference area
Measure description	Data are presented for all EU Member States except Greece, Croatia, Lithuania, Luxembourg, Hungary, Netherlands, Poland, Romania, and Sweden.

Quantitative result

Value	< 75% EU MS or no EU aggregate
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Domain consistency

Name of measure	Comparability - geographical
Measure description	Data comparability between EU Member States respectively other presented countries is limited due to monitoring programs, 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.

Quantitative result

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Value | < 75% EU MS

Domain consistency

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

Quantitative result

Value	> 10 years
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Domain consistency

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.

Quantitative result

Value	> 4 data points
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Statement	<p>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.</p> <p>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.:</p> <p>outliers;</p> <ul style="list-style-type: none">• 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. <p>Such values are removed from the analysis and checked with the country.</p> <p>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.</p>
Source	<ul style="list-style-type: none">• https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/metadata/beb570c1-4dd3-4edd-973c-9fe912cfaca5• https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/metadata/beb570c1-4dd3-4edd-973c-9fe912cfaca5• https://sdi.eea.europa.eu/catalogue/srv/eng/catalog.search#/metadata/beb570c1-4dd3-4edd-973c-9fe912cfaca5• Waterbase - Water Quality ICM, 2023

Metadata

File identifier	4a0c1d82-e01a-4b69-bfcf-6d60853484fd XML
Metadata language	English
Character set	UTF8
Hierarchy level	Tabular dataset
Hierarchy level name	Tabular dataset

