



## Total nutrient input to agroecosystems 2010, Feb. 2015

The total nitrogen input to agricultural soils for the year 2010 is represented in kgN/ha/yr at a 1 km resolution.

Nitrogen input includes organic manure application, inorganic fertilizer input, atmospheric deposition and biological fixation. The data comes from the EEA nutrient accounts, developed by EEA and ETC-ULS, and is based on spatial reference data on crop and livestock distribution, yield and livestock statistics, and official conversion factors (see lineage for details).

The geographic coverage is EU 27 (2007).

### Simple

Date (Creation)	2015-02-24			
Edition	01.00			
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Point of contact	Organisation name	Individual name	Electronic mail	Website
	European Environment Agency		sdi@eea.europa.eu	<a href="http://www.eea.europa.eu">http://www.eea.europa.eu</a>
	European Environment Agency		sdi@eea.europa.eu	Custodian

### Point of contact

No information provided.

Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none"><li>Human health and safety</li><li>Land cover</li><li>Soil</li></ul>
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"><li>agrosystem</li><li>inorganic fertiliser</li><li>pressure</li><li>deposition</li><li>livestock</li><li>animal manure</li><li>land cover</li><li>nutrient balance</li></ul>
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"><li>EU27 (2007-2013)</li></ul>
Spatial scope	<ul style="list-style-type: none"><li>European</li></ul>

<b>EEA topics</b>	<ul style="list-style-type: none"> <li>• Agriculture and food</li> <li>• Environmental health impacts</li> <li>• Soil</li> <li>• Land use</li> </ul>
<b>Access constraints</b>	Other restrictions
<b>Other constraints</b>	<a href="#">no limitations to public access</a>
<b>Use constraints</b>	Other restrictions
<b>Other constraints</b>	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 ( <a href="http://www.eea.europa.eu/legal/copyright">http://www.eea.europa.eu/legal/copyright</a> ). Copyright holder: European Environment Agency (EEA).
<b>Spatial representation type</b>	Grid
<b>Distance</b>	1 km
<b>Language of dataset</b>	English
<b>Character set</b>	UTF8
<b>Topic category</b>	<ul style="list-style-type: none"> <li>• Environment</li> </ul>

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<b>Begin date</b>	2010-01-01		
<b>End date</b>	2010-12-31		
<b>Coordinate reference system identifier</b>	<a href="#">EPSG:3035</a>		
<b>Distribution format</b>	<ul style="list-style-type: none"> <li>• GeoTIFF ( 1 )</li> </ul>		
<b>OnLine resource</b>	<b>Protocol</b> EEA:FILEPATH  WWW:URL  ESRI:REST  OGC:WMS	<b>Linkage</b> <a href="https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_k_total-nutrient-input_p_2010_v01_r00/eea_r_3035_1_km_n-input_2010.tif">https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_1_k_total-nutrient-input_p_2010_v01_r00/eea_r_3035_1_km_n-input_2010.tif</a>  <a href="https://sdi.eea.europa.eu/data/eb306a29-f0db-49b6-8c68-c76d011bfa70">https://sdi.eea.europa.eu/data/eb306a29-f0db-49b6-8c68-c76d011bfa70</a>  <a href="https://land.discomap.eea.europa.eu/arcgis/rest/services/Agriculture/Nitrogen_Input_to_agroecosystems/MapServer">https://land.discomap.eea.europa.eu/arcgis/rest/services/Agriculture/Nitrogen_Input_to_agroecosystems/MapServer</a> <a href="https://land.discomap.eea.europa.eu/arcgis/services/Agriculture/Nitrogen_Input_to_agroecosystems/MapServer/WMServer?request=GetCapabilities&amp;service=WMS">https://land.discomap.eea.europa.eu/arcgis/services/Agriculture/Nitrogen_Input_to_agroecosystems/MapServer/WMServer?request=GetCapabilities&amp;service=WMS</a>	<b>Name</b>  Direct download (Eionet authentication)
<b>Hierarchy level</b>	Dataset		

## Conformance result

<b>Date (Publication)</b>	2010-12-08
<b>Explanation</b>	See the referenced specification

<b>Statement</b>	Refer to <a href="https://forum.eionet.europa.eu/etc-sia-consortium/library/2014-subvention/182_2-impact-policy-changes/milestones_updatecarbonnutrientdata/nutrientupdate/nutrient-account-methodology">https://forum.eionet.europa.eu/etc-sia-consortium/library/2014-subvention/182_2-impact-policy-changes/milestones_updatecarbonnutrientdata/nutrientupdate/nutrient-account-methodology</a> for a more detailed description .
	<p>For the purpose of a simplified nutrient account the major inputs (Fertiliser use, manure, biological fixation, atmospheric deposition) and outputs (harvest) are selected. By accounting for these components only nutrient surplus or lack will be calculated, while the sink of the surplus will not be evaluated; i.e. leaching and emissions will not be calculated, but considered as the final output of nutrient surplus.</p> <p>The following input data is used (Model inputs EEA Nutrient accounts)</p> <ol style="list-style-type: none"> <li>1) Land cover/ land use (grass and crops in arable land): Total area of grassland and cropland based on EUROSTAT data;</li> <li>2) Crop land areas further disaggregated for 10 crop groups (cereals, oilseeds, root crops, industrial, fruits, citrus, vineyards, olives, rice, fodder) using CAPRI regional data based on disaggregated in CAPRI-SPAT to HSMUs3, further downscaled to 1kmx1km.</li> </ol>

3) N and P fertilizer application: FAOSTAT data at country level, downscaled to 1km x 1km, based on crop production distribution from CAPRI.

4) Animal livestock numbers: Downscaled (1km x 1km) Eurostat statistics using CAPRI regional data, distinguishing dairy cattle, other cattle, sheep + goats, pigs, poultry and other cattle (both in livestock units, LSUs, and animal numbers) further downscaled to.

5) N and P excretion rates (factors): Country-specific excretion rates from OECD-Eurostat, using livestock raster.

6) Biological N fixation (BNF) rates: Arable land: 4 kg N ha-1 yr-1; Grassland: 4 kg N ha-1 yr-1; Pulses/legumes: Not included.

7) Total N deposition levels: Data at 50 km x 50 km resolution from the EMEP model, downscaled to 1km x 1km.

8) Total P deposition levels: Not included

9) Crop yields: Eurostat statistics on crop production of major crop groups, downscaled according to CAPRI-stat at HSMU level and further downscaled to 1km x 1km.

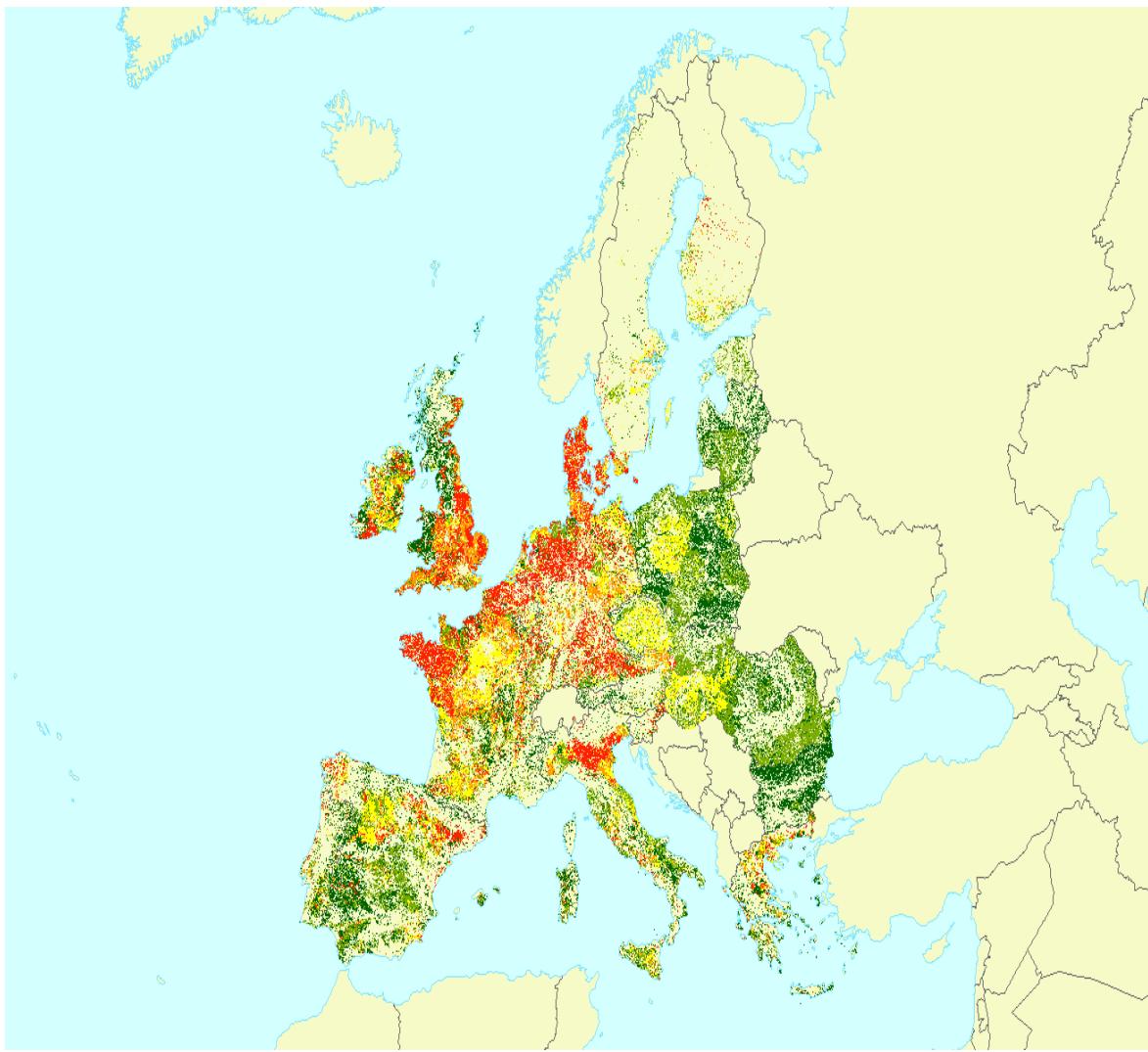
10) N and P contents in crops: Country-specific N and P contents for major crop groups.

The document "eea\_r\_3035\_1\_km\_n-input\_2010\_SpatialDataDeliveryReport" provides additional information on the quality assurance checks performed on the dataset.

## Metadata

<b>File identifier</b>	eb306a29-f0db-49b6-8c68-c76d011bfa70 <a href="#">XML</a>			
<b>Metadata language</b>	English			
<b>Character set</b>	UTF8			
<b>Hierarchy level</b>	Dataset			
<b>Date stamp</b>	2022-03-28T07:58:35.99Z			
<b>Metadata standard name</b>	ISO 19115/19139			
<b>Metadata standard version</b>	1.0			
<b>Metadata author</b>	<b>Organisation name</b> European Environment Agency	<b>Individual name</b>	<b>Electronic mail address</b> sdi@eea.europa.eu	<b>Website Role</b> Point of contact

## Overviews



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