

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 address Role
	European Environment Agency		info@eea.eur info@eea.europa.eu Point of contact
	European Environment Agency		info@eea.eur info@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"> • Human health and safety • Land cover • Soil
Keywords	
Keywords	
GEMET	<ul style="list-style-type: none"> • agrosystem • inorganic fertiliser • pressure • deposition • livestock • animal manure • land cover

	<ul style="list-style-type: none"> • nutrient balance
Continents, countries, sea regions of the world.	<ul style="list-style-type: none"> • EU27 (2007-2013)
Spatial scope	<ul style="list-style-type: none"> • European
EEA topics	<ul style="list-style-type: none"> • Agriculture and food • Environmental health impacts • Soil • Land use
Access constraints	Other restrictions
Other constraints	no limitations to public access
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).
Spatial representation type	Grid
Distance	1 km
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none"> • Environment



Begin date	2010-01-01
End date	2010-12-31
CRS identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> • GeoTIFF (1)

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	<p>Refer to https://forum.eionet.europa.eu/etc-sia-consortium/library/2014-subvention/182_2-impact-policy-changes/milestones/updatecarbonnutrientdata/nutrientupdate/nutrient-account-methodology for a more detailed description.</p> <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"> 1) Land cover/ land use (grass and crops in arable land): Total area of grassland and cropland based on EUROSTAT data; 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. 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.
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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.

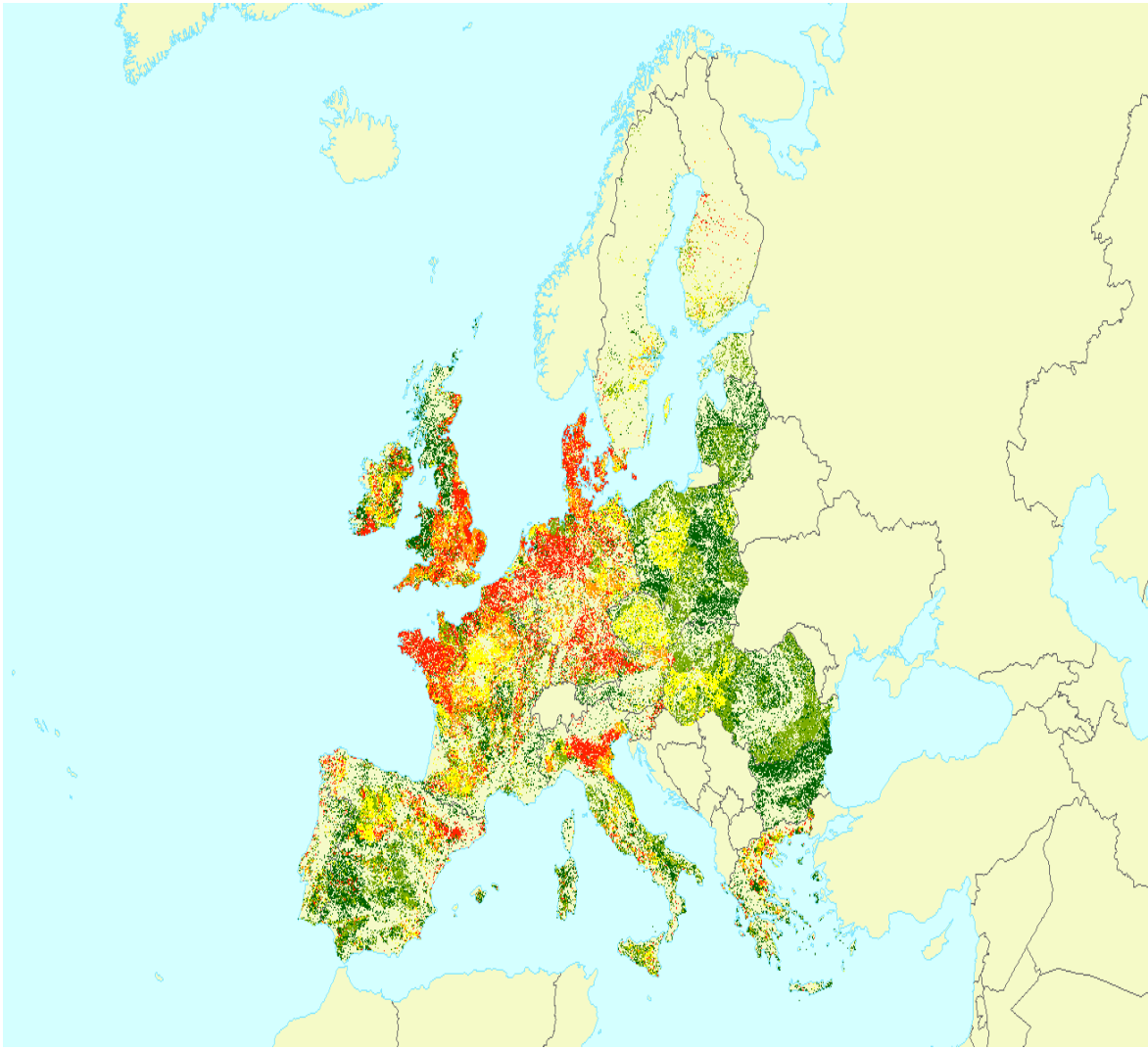
10) N and P contents in crops: Country-specific N and P contents for major crop groups.

The document "eea_r_3035_1_km_n-input_2010_SpatialDataDeliveryReport" provides additional information on the quality assurance checks performed on the dataset.

Metadata

File identifier	eb306a29-f0db-49b6-8c68-c76d011bfa70 XML		
Metadata language	English		
Character set	UTF8		
Hierarchy level	Dataset		
Date stamp	2022-03-28T07:58:35.99Z		
Metadata standard name	ISO 19115/19139		
Metadata standard version	1.0		
Metadata author	Organisation name	Individual name	Electronic mail address Role
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Overviews



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