EEA geospatial data catalogue

Agricultural area 2018 based on Copernicus data - version 1, Sept. 2022

This metadata refers to the dataset providing spatial information for "agricultural area" in 2018 with 1 ha spatial resolution across the EEA38 member countries and the United Kingdom. The methodological procedure to identify the agricultural area is based on the Corine Land Cover (CLC) pan-European Copernicus product as basic geographical skeleton that is spatially refined with Copernicus High Resolution Layers (HRL), local components and some manual corrections.

This spatial layer aims to be a spatial reference of agricultural area for the indicator on woody landscape features within agricultural areas in Europe. The layer can support indicator developments for monitoring the target of 10% of agricultural land covered by high-diversity landscape features under the EU Biodiversity Strategy for 2030 and for assessing the impact of the Common Agricultural Policy related to the strategic objective of protecting biodiversity, enhancing ecosystem services and preserve habitats and landscapes.

Simple

Date (Creation)	2021-12-01
Date (Publication)	2022-09-30
Edition	01.00
Citation identifier	eea_r_3035_100_m_agri-area_p_2018_v01_r00
Point of contact	**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
Maintenance and update frequency	As needed
GEMET - INSPIRE themes, version 1.0	• Land use • Land cover • Energy resources
Keywords	
Keywords	
GEMET	• agriculture • land use • agricultural land • common agricultural policy
Continents, countries, sea regions of the world.	• EEA38 (from 2020) • United Kingdom
Spatial scope	• European
EEA topics	• Agriculture and food • 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	100 m
Language of dataset	English
Topic category	• Environment • Farming

71.16	N	27.64	S	44.81	E	-31.28	W

Begin date	2017-01-01
End date	2018-12-31
Coordinate reference system identifier	EPSG:3035
Distribution format	• GeoTIFF ( )

OnLine resource

Protocol	Linkage	Name
EEA:FOLDERPATH	https://sdi.eea.europa.eu/webdav/datastore/public/eea_r_3035_100_m_agri-area_p_2018_v01_r00/GTiff/	
WWW:URL	https://sdi.eea.europa.eu/data/52162bba-24ec-43b2-9c43-8d0376804f3a	Direct download
OGC:WMS	https://land.discomap.eea.europa.eu/arcgis/services/Agriculture/Agricultural_area_mask_2018/MapServer/WMSServer?request=GetCapabilities&service=WMS	WMS Web Map Service

OnLine resource

Protocol	Linkage	Name
ESRI:REST	https://land.discomap.eea.europa.eu/arcgis/rest/services/Agriculture/Agricultural_area_mask_2018/MapServer	ESRI Rest service

OnLine resource

No information provided.

Hierarchy level	Dataset

Conformance result

Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification

Statement	This dataset provides spatial information for "agricultural area" in 2018 with 1 ha spatial resolution across the EEA38 member countries and the United Kindgom. The raster value is 1 when agricultural area is identified and NoData for other land cover / land uses. The spatial (GIS compatible) layer (referred to as Agricultural Area (AA) mask) was developed along the following lines: 1) The use of Corine Land Cover as basic geographical skeleton (i.e. the 1 hectare CLC2018 accounting layer).

	2) CLC agriculture classes (2.x.x) and CLC natural grassland (3.2.1) form the basis of delineation of the agricultural area mask. 3) From these CLC classes non-agricultural patches (commissions which had originally been included in CLC due to the generalisation to the 25 ha minimum mapping unit) are excluded using the Copernicus High Resolution Layers (HRLs): - Woody vegetation (on the basis of FTY2018 100m layer: 0.5 ha, 10% tree cover density, no agricultural and urban trees), is excluded only from the following CLC classes: 211, 212, 213, 231, 242, 243, 321 – not from classes 2.2.x, 241 and 244, - Artificially sealed surfaces, with a sealing degree 30% (on the basis of IMD 100m density layer), - Permanent water surfaces larger or equal than 0.5ha are identified and excluded from AA based on 10m resolution HRL WAW2018 layer. Larger or equal than 0.5 ha contiguous (8 cell neighbourhood) permanent water (class 1) areas are identified in WAW layer in a first step. Secondly, a 100m resolution “Permanent Water density” (PWA) layer is created by aggregation. Permanent water density 45% was used to exclude permanent water surfaces from step 3 AA result. 4) Larger areas covered by greenhouses (permanent, often “industrial” as well as temporary greenhouses) which are included in CLC under artificial areas are added to the AA mask in a separate step: - by importing them from the local component 2018 data (Riparian Zones, N2K, Coastal Zones) (code 212) and - by visual interpretation: contiguous areas larger than 20 hectares originally included to AA areas but filtered out by IMD 30% criteria are checked visually. If identified as greenhouse, they are added to AA areas.
Source	• Corine Land Cover 2018 (raster 100m) version 20 accounting layer, Jun. 2019 • Imperviousness Density 2018 (raster 100 m), Europe, 3-yearly, Aug. 2020 • Forest Type 2018 (raster 100 m), Europe, 3-yearly, Oct. 2020 • Water and Wetness 2018 (raster 10 m), Europe, 3-yearly - version 2, Nov. 2020

Metadata

File identifier	52162bba-24ec-43b2-9c43-8d0376804f3a XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2024-03-06T14:35:43.265785Z
Metadata standard name	ISO 19115/19139
Metadata standard version	1.0

Metadata author

Organisation name	Individual name	Electronic mail address	Website	Role
European Environment Agency		sdi@eea.europa.eu		Point of contact

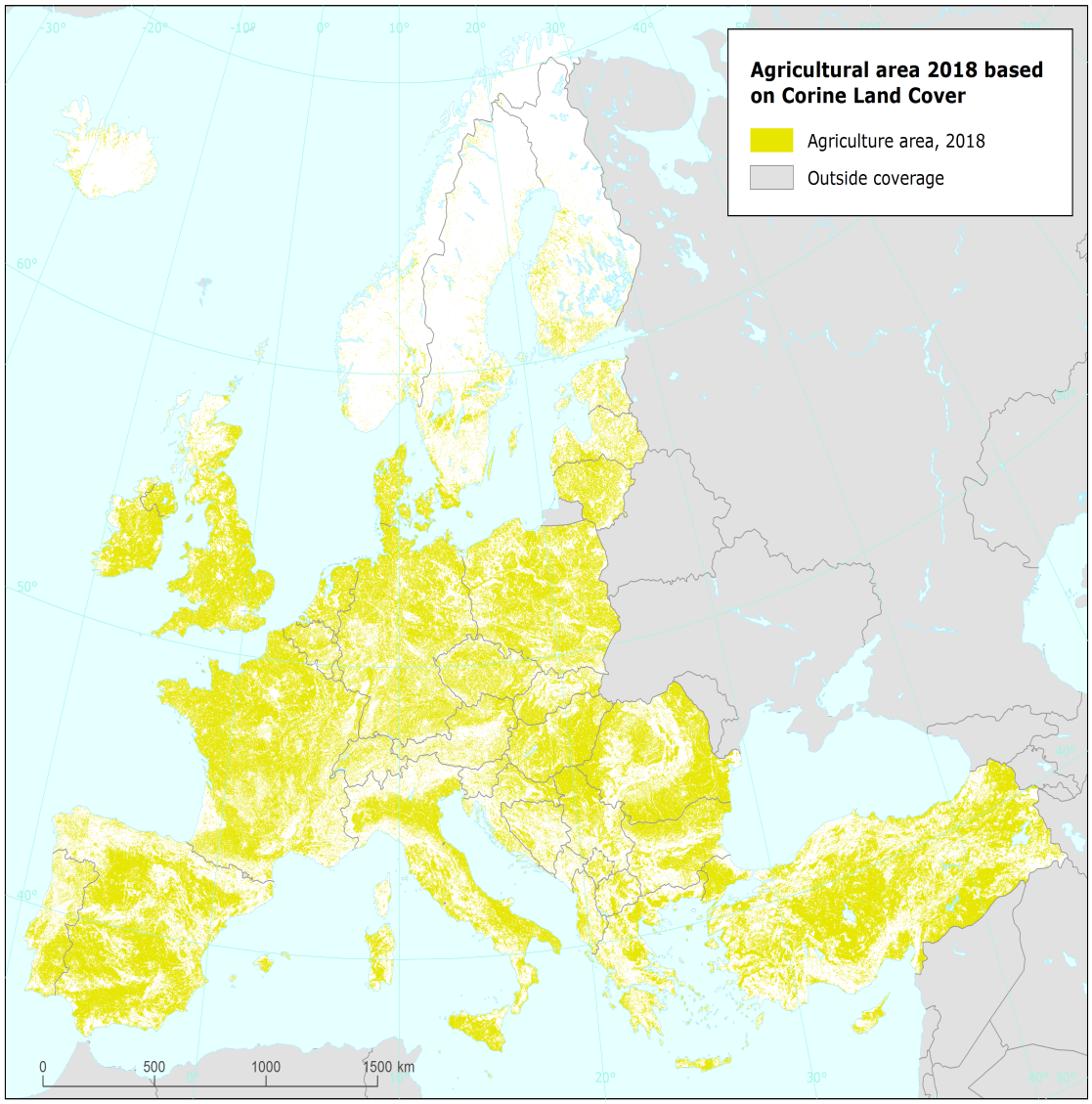
Metadata author

No information provided.

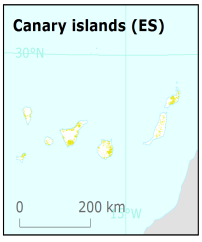
Metadata author

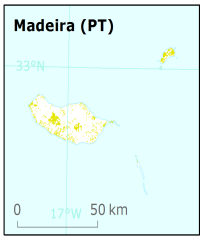
No information provided.

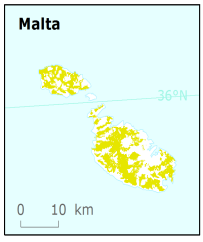
Overviews

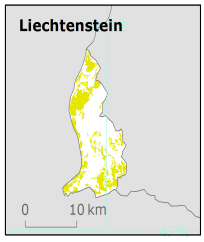


Reference data: © EuroGeographics, © FAO (UN), © TurkStat Source: European Commission – Eurostat/GISCO









Provided by

EEA