

Distribution of irrigated crops in Europe

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PROPERTIES

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Description This dataset describes the distribution of irrigated crops in Europe in 10 km x 10km spatial resolution. The following irrigated crop classes are included: CEREALS (cereals excluding maize and rice), MAIZE (grain and green maize), PULSES, POTATOES, SUGARBEET, TURNIPRAPE (rape and turnip rape), SUNFLOWER, FIELD_VEGE (fresh vegetables, melons, strawberries - open field), GRASS (temporary and permanent grassland), FRUITBERRY (fruit and berry plantations), VINES (vineyards), CITRUS (citrus plantations), OLIVES (olive plantations), RICE. Additionally, two distinctive classes are provided for irrigated areas (without crop differentiation): IA (area irrigated at least once a year), and TIA (total irrigable area, defined as area equipped for irrigation).

The maps of irrigated crops were obtained by disaggregating regional statistics on irrigated areas by crop type, collected during the Farm Structure Survey 2010 (EUROSTAT 2010) into the EEA reference grid of 10 km (Europe shapefile 10 km, EEA 2013). The irrigated crop areas were estimated for individual grid cells, using a density-based algorithm, and spatially distributed (10 km grid-level) input data on the total crop areas and irrigated areas.

References:

EEA 2013. EEA reference grid data: Europe shapefile 10 km, downloaded from: <https://www.eea.europa.eu/data-and-maps/data/eea-reference-grids-2>

EUROSTAT 2010. ef_poirrig data set downloaded from the EUROSTAT public website: https://appsso.eurostat.ec.europa.eu/nui/show.do?dataset=ef_poirrig&lang=en

Disclaimer	The developers/maintainers of this dataset do not have any responsibility on its use and on results/products derived from it.
DIMENSIONS	
Spatial Projection	Lambert Azimuthal Equal Area
EPSG Code	3035
Grid Resolution	10 km
Temporal resolution	STATIC
Variables	<p>CEREALS</p> <p>Irrigated cereals (excluding maize and rice) in ha per grid cell.</p> <p>MAIZE</p> <p>Irrigated maize (grain and green) in ha per grid cell.</p> <p>PULSES</p> <p>Irrigated pulses in ha per grid cell.</p> <p>POTATOES</p> <p>Irrigated potatoes in ha per grid cell.</p> <p>SUGARBEET</p> <p>Irrigated sugar beet in ha per grid cell.</p> <p>TURNIPRAPE</p> <p>Irrigated rape and turnip rape in ha per grid cell.</p> <p>SUNFLOWER (number of days)</p> <p>Irrigated sunflower in ha per grid cell.</p> <p>FIELD_VEGE</p> <p>Irrigated fresh vegetables, melons, strawberries - open field in ha per grid cell.</p> <p>GRASS (day of year)</p> <p>Irrigated temporary and permanent grassland in ha per grid cell.</p> <p>FRUITBERRY</p> <p>Irrigated fruit and berry plantations in ha per grid cell.</p> <p>VINES</p> <p>Irrigated vineyards in ha per grid cell.</p> <p>CITRUS (day of year)</p> <p>Irrigated citrus plantations in ha per grid cell.</p>

OLIVES (number of days)

Irrigated olive plantations in ha per grid cell.

RICE (number of days)

Irrigated rice in ha per grid cell.

IA (number of days)

Area irrigated at least once a year in ha per grid cell.

TIA (number of days)

Total irrigable area in ha per grid cell.

NUTS_IDS

NUTS2 code, (NOTE: exception for Germany -> NUTS1)

GRIDS_IDS

Unique ID. The GRIDS_ID is a concatenation of NUTS_IDS + underscore + EEA reference grid ID.