

Dataset name

Land Use/Cover Area Survey framework (LUCAS) Soil Functional Dataset from 2018.

Abstract

The Land Use/Cover Area Survey framework (LUCAS) is collecting information about the land use or land cover type in approx. 270000 point locations across the EU Member States. Since 2009, in a subset of around 26000 locations, additional soil parameters are measured. The sampling campaign in 2018 estimate also soil functional parameters (i.e., enzyme activity, water-stable aggregates, and microbial parameters) in a subset of the soil survey locations (n=881). There are 885 unique samples (BARCODE_ID, SOIL_ID) from 881 sampling locations (LUCAS_ID) in 2018, which correspond to 875 locations in 2009 and 881 locations in 2015.

The dataset consists of:

one data file (**ESDAC_LUCAS_2018_functions_20241018.csv**), that provides the measured and integrated information for each point location (n=881) and each soil sample from 2018 (n=885), and

this metadata file (**ESDAC_LUCAS_2018_functions_20241018_metadata.pdf**).

This dataset is NOT the full LUCAS dataset but represents ONLY the subset of the LUCAS sampling locations with soil functional measurements.

Version information

This dataset does contain the most up-to-date information. Coordinates are corrected (Status: June 2022).

Data access policy

Data available on request

License

CC BY 4.0

Data owner

European Commission (Joint Research Centre) among others

Data origin

LUCAS Soil field survey, lab analysis in Berlin, Leipzig and Halle, and geospatial analysis to integrate

CORINE Land Cover data and climatic information. Details about the LUCAS project are available here: <https://esdac.jrc.ec.europa.eu/projects/lucas>.

Date of creation

2024-10-30

How to cite dataset

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