



Natural susceptibility to compaction for EU 27 (2007), Mar. 2008

This map shows the natural susceptibility of agricultural soils to compaction if they were to be exposed to compaction. The evaluation of the soil's natural susceptibility is based on the creation of logical connections between relevant parameters (pedotransfer rules). The input parameters for these pedotransfer rules are taken from the attributes of the European soil database, e.g. soil properties: type, texture and water regime, depth to textural change and the limitation of the soil for agricultural use. Besides the main parameters auxiliary parameters have been used as impermeable layer, depth of an obstacle to roots, water management system, dominant and secondary land use. It was assumed that every soil, as a porous medium, could be compacted.

The map of natural soil susceptibility to compaction was created from the evaluation of selected parameters from the ESDB. The soil susceptibility to compaction was divided into 4 categories. Two additional categories represent the data concerning places where this evaluation was either not relevant or could not be provided because of lack of information. In total there are 6 categories (attribute "Evaluation" in the shapefile):

- 0 - no soil. This represents water bodies, glaciers and rock outcrops
- 1 - low susceptibility to compaction
- 2 - medium susceptibility to compaction
- 3 - high susceptibility to compaction
- 4 - very high susceptibility to compaction
- 9 - no evaluation possible. This was the case of towns including also soils, soils disturbed by man and marsh.

This metadata record is adapted from the original one received from JRC.

Simple

Date (Creation)	2008-03-01
Citation identifier	jrc_v_3035_1_mio_esdb-comp-susc-eu27_1974-2004

Point of contact

No information provided.

Point of contact

No information provided.

GEMET - INSPIRE themes, version 1.0	<ul style="list-style-type: none">• Soil
GEMET	<ul style="list-style-type: none">• soil• soil compaction
Keywords	
Keywords	
EEA topics	<ul style="list-style-type: none">• Agriculture and food• Soil
Use limitation	<p>Notification regarding these data:</p> <p>The data of the "Map of Natural Susceptibility of Soils to Compaction" are made available for research purposes only and not for any other activity.</p> <p>The data of the "Map of Natural Susceptibility of Soils to Compaction" were elaborated by the DG Joint Research Centre of the European Commission (JRC) through the processing of the data of the European Soil Database v2 (ESDB v2) which was developed by JRC in collaboration with the European Soil Bureau Network, which holds a joint copyright to the data with the European</p>

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- a) Make proper reference to the source of the data when disseminating the results to which this agreement relates;
- b) Participate in the verification of the data (e.g. by noting and reporting any errors or omissions discovered to the JRC).

Reference of source (Citations) :

Panagos P., Van Liedekerke M., Jones A., Montanarella L. European Soil Data Centre: Response to European policy support and public data requirements. (2012) Land Use Policy, 29 (2), pp. 329-338. doi:10.1016/j.landusepol.2011.07.003

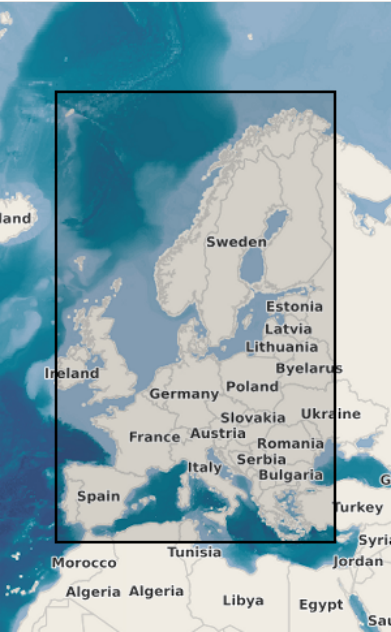
"Map for Europe of Natural Susceptibility of Soils to Compaction", Beata Houkova and Marc Van Liedekerke, Land Management and Natural Hazards Unit, Institute for Environment & Sustainability, European Commission DG Joint Research Centre, 2008

Reference of source :

"Map for Europe of Natural Susceptibility of Soils to Compaction", Beata Houkov and Marc Van Liedekerke, Land Management and Natural Hazards Unit, Institute for Environment & Sustainability, European Commission DG Joint Research Centre, 2008

Access constraints	Other restrictions
Other constraints	no limitations to public access
Spatial representation type	Vector
Denominator	1000000
Language of dataset	English
Character set	UTF8
Topic category	<ul style="list-style-type: none">Geoscientific information

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Begin date	2000-01-01
End date	2004-12-31
Coordinate reference system identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> SHP ()

OnLine resource

No information provided.

Hierarchy level	Dataset
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Conformance result

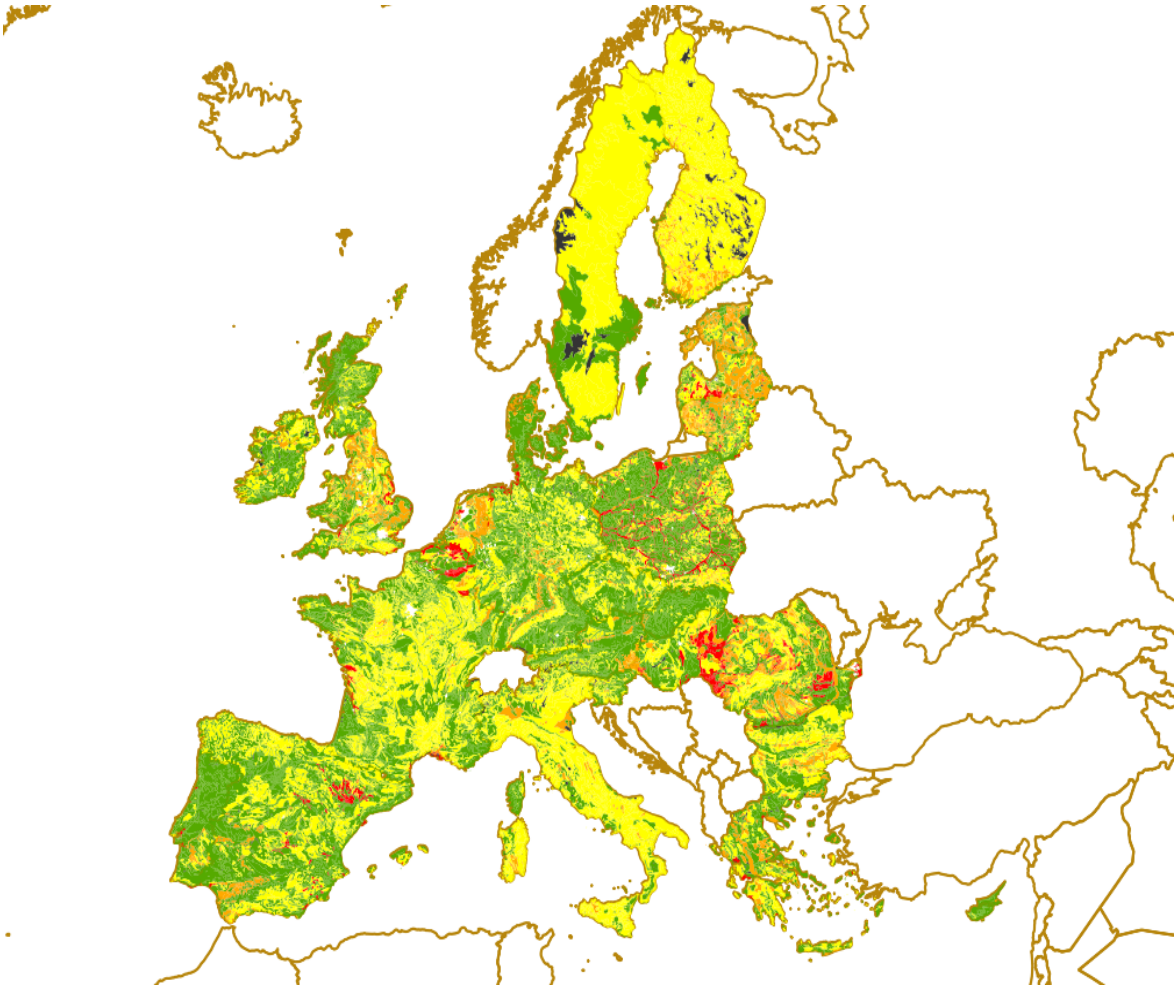
Title	Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Date (Publication)	2010-12-08
Explanation	See the referenced specification
Statement	Refer to the document documentation/Report_Map_of_Natural_Susceptibility_Soils_to_Compaction_v1.pdf

Metadata

File identifier	977c9f73-f532-405a-bb4f-a44d6d28a820 XML
Metadata language	English
Character set	UTF8
Hierarchy level	Dataset
Date stamp	2020-07-10T17:15:04

Metadata standard name	ISO 19115/19139			
Metadata standard version	1.0			
Metadata author	Organisation name	Individual name	Electronic mail address	Website Role
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Overviews



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