

Natural susceptibility to compaction for Eurasia, 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

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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	Notification regarding these data:

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.

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 Commission. The data are the result of a JRC internal research activity; the underlying model and resulting data still need to be validated and verified; no formal quality check on the data has been made yet. The JRC, on behalf of the Commission, does not accept any liability whatsoever for any error, missing data or omissions in the data, or for any loss or damage arising from its use. The JRC, on behalf of the Commission, agrees to provide the data free of charge but is not bound to justify the content and values contained in the databases.

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The user agrees to:

- 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
CRS identifier	EPSG:3035
Distribution format	<ul style="list-style-type: none"> • SHP ()

OnLine resource

No information provided.

Hierarchy level	Dataset
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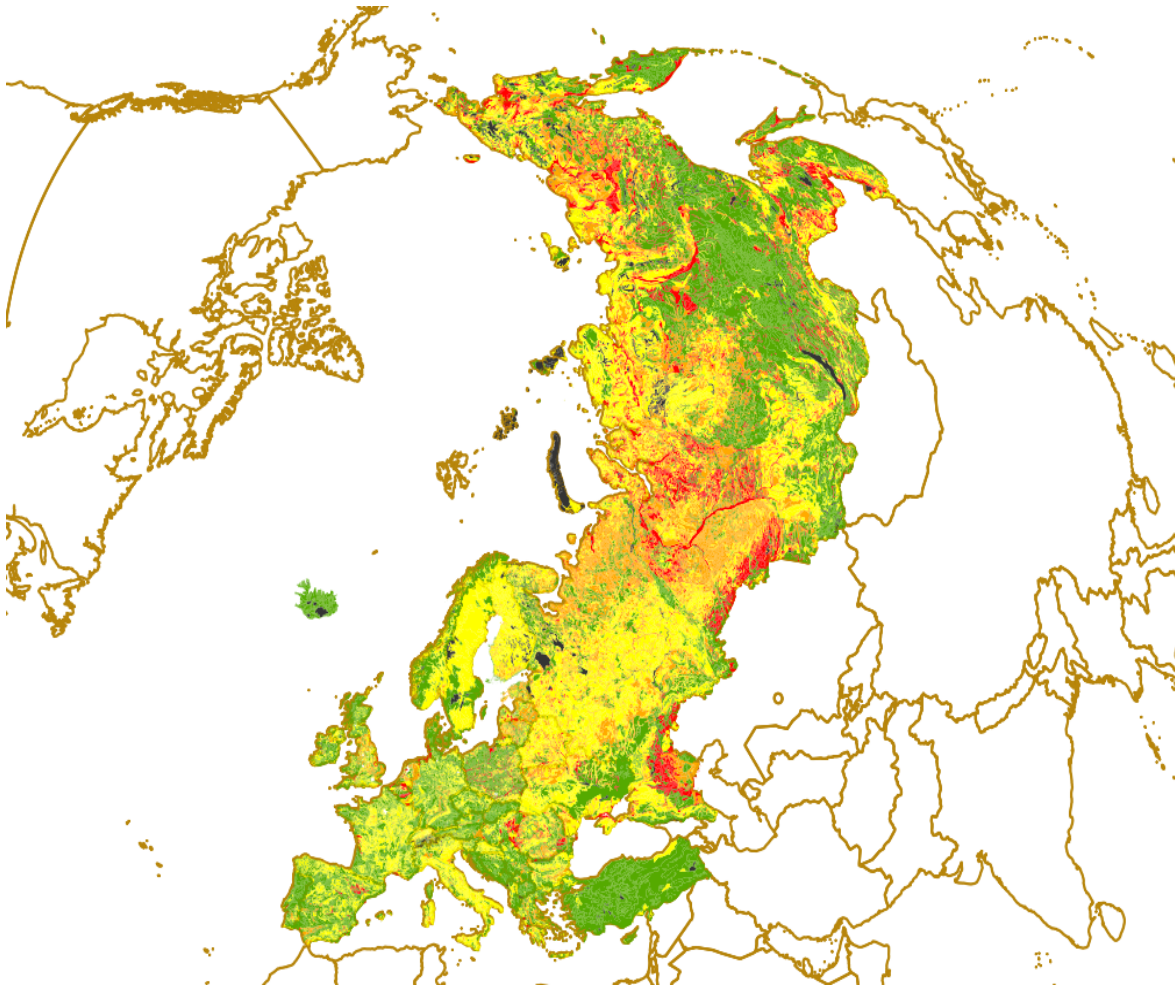
Conformance result

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	720d6f44-2790-4c2c-acb1-50fd2f839c31 XML								
Metadata language	English								
Character set	UTF8								
Hierarchy level	Dataset								
Date stamp	2020-07-10T17:23:22								
Metadata standard name	ISO 19115/19139								
Metadata standard version	1.0								
Metadata author	<table border="0"> <tr> <td>Organisation name</td> <td>Individual name</td> <td>Electronic mail address</td> <td>Role</td> </tr> <tr> <td>European Environment Agency</td> <td></td> <td>sdi@eea. eur sdi@eea. europa.eu</td> <td>Point of contact</td> </tr> </table>	Organisation name	Individual name	Electronic mail address	Role	European Environment Agency		sdi@eea. eur sdi@eea. europa.eu	Point of contact
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