



## Saline and Sodic Soils in the European Union, Jan. 2008

The Saline and Sodic Soils Map shows the area distribution of saline, sodic and potentially salt affected areas within the European Union. The accuracy of input data only allows the designation of salt affected areas with a limited level of reliability (e.g. < 50 or > 50% of the area); therefore the results represented in the map should only be used for orientating purposes.

Two major data sources are available to delineate areas at risk of salt accumulation in Europe: The European Soil Database (ESDB, 2004) and the map of salt affected soils in Europe compiled by Szabolcs (1974). Szabolcs' map was of pressing importance in the 1970s because the salinity and alkalinity of soils hindered the satisfactory agricultural utilisation of lands in many regions.

To delineate an updated map of salt affected soils in Europe, items from the two databases were selected that have characteristics of salt affected or potentially salt affected soils. Potentially salt affected refers to soils that are at present not or to a very low degree saline or alkaline, but where human intervention (irrigation) may cause their considerable salinisation and/or alkanisation/sodification (Szabolcs, 1974).

The information on salinity and alkalinity, available directly or through pedotransfer rules in the ESDB, is described in detail by Baruth et al. (2006). In the WRB (World Reference Base) soil names that give information about salinity are Solonchaks, "salic" soils, or "petrosalic" soils.

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

### Simple

|                            |  |
|----------------------------|--|
| <b>Date (Creation)</b>     | 2008-01-01                                   |
| <b>Citation identifier</b> | jrc_v_3035_1_mio_esdb-salinisation_1974-2004 |

### Point of contact

No information provided.

### Point of contact

No information provided.

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|--|---|
| <b>GEMET - INSPIRE themes, version 1.0</b> | <ul style="list-style-type: none"><li>• Soil</li></ul>  |
| <b>GEMET</b>                               | <ul style="list-style-type: none"><li>• soil</li><li>• soil salination</li><li>• soil salinity</li><li>• alkali soil</li></ul>  |
| <b>Keywords</b>                            |   |
| <b>Keywords</b>                            |   |
| <b>EEA topics</b>                          | <ul style="list-style-type: none"><li>• Agriculture and food</li><li>• Soil</li><li>• Pollution</li></ul>   |
| <b>Use limitation</b>                      | <p>Notification regarding these data:</p> <p>The data of the "Map of Saline and Sodic Soils in the EU" are made available for research purposes only and not for any other activity.</p> <p>The data of the "Map of Saline and Sodic Soils in the EU" 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</p> |

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.

The permission to use the data specified above is granted on condition that, under no circumstances are these data passed to third parties. Moreover they must not be used in any way for commercial gain or for purposes other than those specified above.

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 of Saline and Sodic Soils in the EU", Gergely Toth, Land Management and Natural Hazards Unit, Institute for Environment & Sustainability, European Commission DG Joint Research Centre, 2008

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

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|--|---|--|---|--|---|--|---|
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|--|---|
| Begin date                             | 1974-01-01  |
| End date                               | 2004-12-31  |
| Coordinate reference system identifier | <a href="#">EPSG:3035</a>                               |
| Distribution format                    | <ul style="list-style-type: none"><li>SHP ( )</li></ul> |

OnLine resource

No information provided.

|                 |         |
|-----------------|---------|
| Hierarchy level | Dataset |
|-----------------|---------|

Conformance result

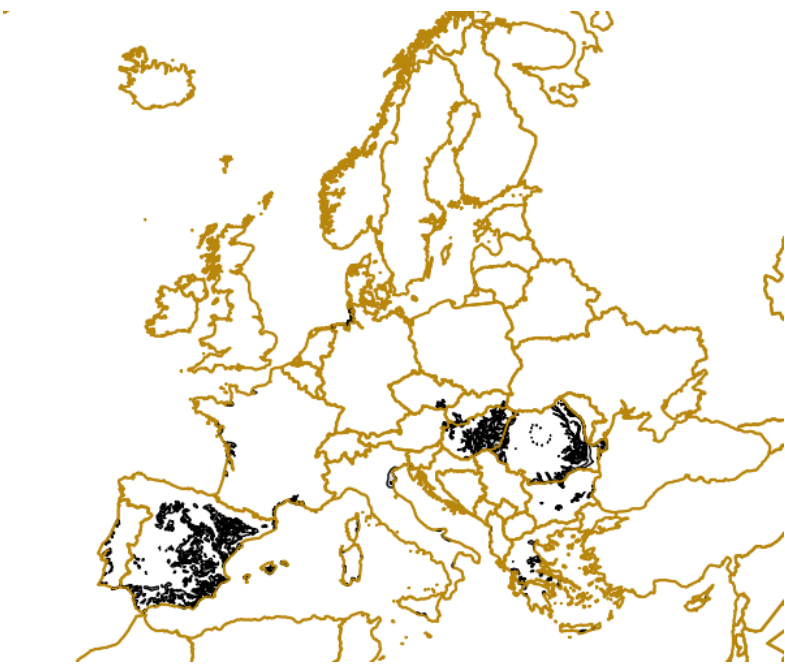
|                    |  |
|--------------------|--|
| Title              | Commission Regulation (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services |
| Date (Publication) |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

Metadata

|                        |  |
|------------------------|--|
| File identifier        | 68564428-c531-4e58-b170-c8286469f835 <a href="#">XML</a> |
| Metadata language      | English  |
| Character set          | UTF8   |
| Hierarchy level        | Dataset  |
| Date stamp             | 2025-01-15T15:20:49.330259Z                              |
| 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 |

Overviews



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