

Geodata Germany

Language / Sprache

If you prefer to read in German language, please use the **Liesmich.pdf** file!

Wenn Sie lieber in Deutscher Sprache lesen möchten, benutzen Sie bitte die Datei **Liesmich.pdf**!

Helpful links

https://www.killetsoft.de/bestell/dgd_be_e.htm

https://www.killetsoft.de/s_prei_e.htm

https://www.killetsoft.de/p_dgdd_e.htm

https://www.killetsoft.de/h_prod_e.htm

https://www.killetsoft.de/p_cona_e.htm

Online order form with current prices

Printable order form and current price list

Precise data descriptions of the database tables

Overview of the software distributed by KilletSoft

Free Data Converter

What is "Geodata Germany"?

The database contains geodata of Germany as point data in tables with georeferenced towns, municipalities, urban districts and other administrative units, postal codes, dialling codes and nature areas, snow and wind loads, solar irradiation, precipitation amounts, travel areas and also registers of the official topographical cartographies. All data informations are stored in several database tables and can be assigned to the towns and municipalities using the official municipality key. The database tables contain coordinates and elevation data for navigation and geocoding, perimeter searches and distance calculations, and are suitable for the spatial association of ecological and economical information.

Quite often it is necessary to reference an address field e.g. like town or municipality name, postal code or dialling code, to corresponding geographical data and coordinates - a georeference. The georeference can be used for example to direct a customer to the closest store locations of a retail store chain by doing a proximity search. Or on the basis of the determined georeferences statistics or general maps can be made. Another possibility it to determine distances between the different objects of the database tables with the georeferences contained therein. The georeferences are available as UTM coordinates, Gauss-Krueger-Coordinates, Geographical Coordinates and as Plus Codes in degree and deg/min/sec notation. With the elevation data from a Digital Elevation Model the ground level height of each place can be determined. Often the knowledge is necessary about affiliations and relationships between data derived from different hierarchies. So it can be determined to which Federal State, governmental area or governmental county a town, a postal code or a dialling code is associated. Or it can be determined on which topographic map a town or urban district is mapped or in which Federal State a certain town is to find.

It is possible to assign a variety of natural, scenic, climatic and touristic information to each town or municipality. Snow and wind load zones and solar irradiations are available as local climatic data. In conjunction with the ground level heights the snow and wind load zones and the precipitation amounts can be used to calculate static loads for the planning of building constructions. The solar irradiation data can be used to schedule thermal and photovoltaic solar power systems.

Tables with geodata for the territory of the Federal Republic of Germany:

ORTREF: Official cities and municipalities with geo references and terrain elevations.

ORTGEM: Official cities and municipalities without geo references and terrain elevations.

ORTTLREF: More than 116.000 town quarters with geo references and elevations.

ORTTLGEM: More than 116.000 town quarters without geo references and elevations.

PLZREF: All delivery and P.O. Box postal codes with geo references and elevations.

PLZGEM: All delivery and P.O. Box postal codes without geo references and terrain elevations.

VORWREF: All Telephone Dialling Codes with geo references and elevations.

VORWGEM: All Telephone Dialling Codes without geo references and elevations.

KREIS: All administrative counties.

REGBEZ: All administrative districts.

COUNTRY: All Federal States of Germany.

LANDSCH: Landscapes of all cities and municipalities.

NATRAUM: Natural Space Units of all cities and municipalities.

REISEGEB: Travel areas of all cities and municipalities.

LASTEN: Snow and Wind Load Zones of all cities and municipalities.

SOLAR: Solar irradiation, sunshine duration and precipitation amounts of all cities and municipalities.

TK25: Data of the topographical map in scale 1:25000 (TK25, measuring table sheet).

TK50: Data of the topographical map in 1:50000 scale (TK50).

TK100: Data of the topographic map at the scale 1:100000 (TK100).

TK200: Data of the topographic map at the scale 1:200000 (TKÜ200).

Test data

If you have downloaded the free test data from the Internet, the compilation contains data reduced to the administrative counties of Viersen, Krefeld and Kleve in North Rhine-Westphalia and to the administrative counties of Freiberg and Vogtlandkreis in Saxony. The test data represent only an extract from the original tables.

Table ORTREF

Georeferenced data of the independent cities, towns and municipalities with coordinates and elevations. The description of the contents and formats is contained in the file ORTREF.PDF.

Table ORTGEM

Data of the independent cities, towns and municipalities as in table ORTREF, but without geo references. The description of the contents and formats is contained in the file ORTGEM.PDF.

Table ORTTLREF

Geo-referenced data of the town quarters with coordinates and terrain elevations. The description of the contents and formats is contained in the file ORTTLREF.PDF.

Table ORTTLGEM

Data of the town quarters as in the ORTTLREF table, but without geo references. The description of the contents and formats is contained in the file ORTTLGEM.PDF.

Table PLZREF

Geo-referenced postal codes of the delivery areas and P.O. Boxes with coordinates and elevations as well as assignment and relationship between postal codes and municipality keys. The description of the contents and formats is contained in the file PLZREF.PDF.

Table PLZGEM

All postal codes of the delivery areas and the P.O. boxes with the corresponding municipality keys as well as assignment and relationship between postal codes and municipality keys as in the table PLZREF, but without geo references. The description of the contents and formats is contained in the file PLZGEM.PDF.

Table VORWREF

Geo-referenced Telephone Dialling Codes with coordinates and elevations, as well as the assignment and relationship between dialling codes and municipality codes. The description of the contents and formats is contained in the file VORWREF.PDF.

Table VORWGEM

All Telephone Dialling Codes with the corresponding municipality keys as well as the assignment and relationship between dialling codes and municipality keys as in table VORWREF, but without geo references. The description of the contents and formats is contained in the file VORWGEM.PDF.

Table KREIS

Information about the Administrative Counties. The description of the contents and formats is contained in the file KREIS.PDF.

Table REGBEZ

Information on the Administrative Districts. The description of the contents and formats is contained in the file REGBEZ.PDF.

Table LAND

Information on the Federal States. The description of the contents and formats is contained in the file LAND.PDF.

Table LANDSCH

Landscapes of different types in the Federal Republic of Germany. The description of the contents and formats is contained in the file LANDSCH.PDF.

Table NATRAUM

The Natural Space Units in the Federal Republic of Germany. The description of the contents and formats is contained in the file NATRAUM.PDF.

Table REISEGEB

Travel Areas of the Federal Republic of Germany.

The description of the contents and formats is contained in the file REISEGEB.PDF.

Table LASTEN

Snow and Wind Loads with terrain heights of all cities and municipalities.

The description of the contents and formats is contained in the file LASTEN.PDF.

Table SOLAR

Solar irradiation, incidence angle, sunshine duration and precipitation amounts of all cities and municipalities.

The description of the contents and formats is contained in the file SOLAR.PDF.

Table TK25

Data of the topographical maps in scale 1:25000 (TK25, ordnance map sheet).

The description of the contents and formats is contained in the TK25.PDF file.

Table TK50

Data of the topographical maps in scale 1:50000 (TK50) .

The description of the contents and formats is contained in the file TK50.PDF.

Table TK100

Data of the topographical maps in scale 1:100000 (TK100) .

The description of the contents and formats is contained in the file TK100.PDF.

Table TK200

Data of the topographic general maps at the scale 1:200000 (TKÜ200) .

The description of the contents and formats is contained in the file TK200.PDF.

ZIP file, CD-ROM, USB stick

You will receive "Geodata Germany" either as download or by e-mail in ZIP format or in a directory on a CD-ROM or USB stick.

The download file is available as a ZIP file. It must first be unpacked on the hard disk with a decompression program such as PKUNZIP, WinZIP or WinRAR.

If you have received a CD-ROM or a USB stick, please first copy all files and subdirectories from the "Geodata Germany" directory of the data carrier into a directory on your hard disk.

The database tables of the "Geodata Germany" are stored in a subdirectory **\data**.

The data descriptions of the database tables are in the subdirectory **\doku**.

Detailed information, notes on using the geo references and the formulas for distance calculation can be found in the supplied data description.

Uniqueness by record ID

We have generated unique record IDs for each record in the ORTGEM / ORTREF township databases and in the ORTTLGEM / ORTTLREF district databases. This has the advantage that updated data can be easily integrated into the own data stock when updating. A data set ID is unique and is retained throughout the entire life of the data set even if the town name or quarter name is changed or other data fields are changed.

Take the unique record IDs in your own data sets when using KilletSoft data for the first time. With the later maintenance of an update you transfer the updated KilletSoft data fields simply by means of the unique record IDs and the modification date contained in the record into your own data stock. Think about a strategy for newly added or invalidated records, which you can localize by missing or new record IDs in the update.

Conversion into the required data format

By default, the database tables are in the CSV (Comma Separated Values) file format. The ANSI character set is used as the character set. This format is used very often and in most cases you can import the data directly into the system you need. The data is also available on the data carrier in dBase format with the ASCII character set. This means, for example, that you can import the data directly into MS-ACCESS or MS-EXCEL without further processing.

The freeware program CONVERT, which can be downloaded from https://www.killetsoft.de/p_cona_e.htm converts the existing database tables into other data formats and character sets with the necessary sorting and selection. With the program the data can be converted into the following file formats:

1. CSV (Comma Separated Values)
2. SDF (Simple Document Format)
3. dBase.

To use the data on different platforms, the following character sets can be set during conversion:

1. ASCII
2. ANSI
3. UTF8
4. UniCode.

This makes it possible to import the data into any database management system or file system on all platforms.

For the import into MySQL or SQL databases the required "CREATE TABLE" script can be generated. Furthermore the selection of data by data fields and data records is possible. Furthermore, the data can be sorted by any data fields. Data from several files can be merged to one common file.

The database tables ORTREF and ORTTLREF or ORTGEM and ORTTLGEM can be combined and re-sorted into an entire table with the program CONVERT, which then contains the main cities and the city quarters.

Please contact us, if you need the data in another format or sorting or in another coordinate system.

Acquisition of a license and right of use of the Geodata tables

The license models described here require only a unique payment. No additional payments are raised as a function of the number of installations or on the service life of the license. The service life is unlimited.

The data of the presented database tables can be used by computer programs and Internet sites (applications) and made available to customers within the scope of the application. The database tables are licensed for different types of use:

A **Single License** for a database table entitles the licensee to use the database in a single application of the licensee. The licensee's application may be distributed to any number of customers or operated as one single Internet application.

A **General License** for a database table entitles the licensee to use the database in any number of applications of the licensee. The licensee's applications may be distributed to any number of customers or operated as several Internet applications.

For **both** license types applies: The database table can be accessed either from a server of the licensee or his internet provider. Or the database table can be delivered together with the licensee's software in encrypted form to his customer. The delivery of the database table in unencrypted form to customers of the licensee is prohibited.

Quality of the Geodata

The geodata offered here are in high-precision quality and are present in different Coordinate and Reference Systems. They are constantly updated and they are subject of a constant quality control. Nevertheless, it is possible that with such large amounts of data deviations of the data contents from reality can occur to a small extent. We have to emphasize expressly that deviations or errors of less than one percent of the data volume of a database cannot be faulted. KilletSoft assumes no guarantee and no liability for the correctness, topicality and completeness of the data contained in the tables and is not liable in any way for their use.

If you should notice nevertheless once missing objects or inaccuracies, we will strive to correct these immediately and offer you a satisfying solution.

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