

DATA SET DESCRIPTION

Historical daily bad-weather-days for Germany

Version v19.3

Cite data set as: DWD Climate Data Center (CDC): Historical daily bad-weather-days for Germany, version v19.3.

INTENT OF THE DATASET

The calculation method for the bad weather days was developed a few years ago by the Federal Labour Office and the German Weather Service. Every working day we classify it into one of 4 categories - depending on whether the weather has not hindered, adversely affected, made more difficult or very difficult the construction activity. A whole series of weather elements are tested to see whether they have exceeded certain limit values. In each case the most unfavourable result leads to the bad weather day classification of the entire day. An overview of the criteria for the bad weather day classification can be found at https://opendata.dwd.de/climate_environment/CDC/help/SWT-Kriterien.png.

The bad weather days are available from many measuring stations of the German Weather Service - one of them is definitely near you.

POINT OF CONTACT

Deutscher Wetterdienst
CDC - Vertrieb Klima und Umwelt
Frankfurter Straße 135
63067 Offenbach
Tel.: + 49 (0) 69 8062-4400
Fax.: + 49 (0) 69 8062-4499
Mail: klima.vertrieb@dwd.de

DATA DESCRIPTION

Spatial coverage	stations in Germany
Temporal coverage	1996-01-01 until - 2018-12-31
Temporal resolution	daily
Format(s)	One *.csv file per station with the naming convention: swt_data_[Stations_ID].csv. Metadata about the stations can be found in our Station Dictionary .

Units	STATIONS_ID	station identification number	Number
	STATIONS_NAME	Name of the station	String
	DATUM	date in the format yyyyymmdd	String
	SWT-Behinderungsstufe	disability levels A = very difficult; B = difficult; C = unfavourable; -999 = Misidentification; - : no SWT inhibition level; see figure SWT-Kriterien	String

DATA ORIGIN

The climate data used for the calculation of the bad weather days originate from the station measuring networks of the DWD.

This climate data are operationally imported and archived in the central data base of DWD, see Behrendt et al., 2011, and Kaspar et al., 2013. For details on current measurement and observation procedures see VuB 3 Beobachterhandbuch (DWD, 2014a), VuB 3 Technikerhandbuch (DWD, 2014b) and VuB 2 Wetterschlüsselhandbuch (DWD, 2013).

VALIDATION AND UNCERTAINTY ESTIMATE

The quality of the calculated bad weather days depends on the quality of the station measurements. These are subjected to a continuous quality check.

The stations are nowadays selected and operated according to WMO guidelines.

ADDITIONAL INFORMATION

Due to missing data for the evaluation of bad weather days (SWT) it may happen that no SWT obstruction levels can be determined for selected measuring stations on the respective date. In this case the selection of other measuring stations is necessary. In the CDC-OpenData data record, missing data records are marked with "-999".

REFERENCES

Behrendt, J., et al.: Beschreibung der Datenbasis des NKDZ. Version 3.5, Offenbach, 15.02.2011.

DWD Vorschriften und Betriebsunterlagen Nr. 2 (VuB 2), Wetterschlüsselhandbuch Band D, Nov 2013.

DWD Vorschriften und Betriebsunterlagen Nr. 3 (VuB 3), Beobachterhandbuch (BHB) für Wettermeldestellen des synoptisch-klimatologischen Mess- und Beobachtungsnetzes, März 2014a .

DWD Vorschriften und Betriebsunterlagen Nr. 3 (VuB 3), Technikerhandbuch (THB) für Wettermeldestellen des synoptisch-klimatologischen Mess- und Beobachtungsnetzes, März 2014b.

Kaspar, F., et al.: Monitoring of climate change in Germany – data, products and services of Germany`s National Climate Data Centre. Adv. Sci. Res., 10, doi:10.5194/asr-10-99-2013, 99–106, 2013.

Spengler, R.: The new Quality Control- and Monitoring System of the Deutscher Wetterdienst. Proceedings of the WMO Technical Conference on Meteorological and Environmental Instruments and Methods of Observation, Bratislava, 2002.

COPYRIGHT

The instructions in https://opendata.dwd.de/climate_environment/CDC/Terms_of_use.pdf should be followed. The DWD website provides comprehensive copyright information.

REVISION HISTORY

The data are updated annually and supplemented by the most recent past year.

This document is maintained by the DWD Climate Data Center, last edited 2020-05-25.