

# Wisconsin Downscaled Climate Data Dictionary (Temperature)

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## Overview Description

### Entity and Attribute Overview

Variables in a multidimensional raster dataset are stored in a unique data structure that differs from a traditional value attribute table. Please see the user guide for more information about how to view and analyze these variables.

## Details for Object Multidimensional information:

### Definition

Individual variables that are stored in an ESRI cloud raster format multidimensional dataset.

Definition source ESRI

## **Field tmax mean** ▶

Data type float

Width 7

### Field description

Mean daily maximum temperature per month across all GCMs (three realizations each) for 20 year period

Description source WICCI

## **Field tmax std** ▶

Data type float

Width 7

### Field description

Inter-model standard deviation of the daily maximum temperature for all months in the dataset's timeframe. The three realizations for each GCM are averaged together before the standard deviations are calculated. As such, the standard deviation reflects the variability across GCM models and not all realizations. This is expected to better reflect the variability in future conditions predicted by the models (and not the inherent stochasticity built into each model realization).

Description source WICCI

## **Field tmin mean** ▶

Data type float

Width 7

Field description

Mean daily minimum temperature per month across all GCMs (three realizations each) for 20 year period

Description source WICCI

**Field tmin\_std** ▶

Data type float

Width 7

Field description

Inter-model standard deviation of the daily minimum temperature for all months in the dataset's timeframe. The three realizations for each GCM are averaged together before the standard deviations are calculated. As such, the standard deviation reflects the variability across GCM models and not all realizations. This is expected to better reflect the variability in future conditions predicted by the models (and not the inherent stochasticity built into each model realization).

Description source WICCI

**Field tmax\_gt100** ▶

Data type float

Width 7

Field description

Estimated number of days per month when the maximum daily temperature exceeds 100 F

Description source WICCI

**Field tmax\_gt95** ▶

Data type float

Width 7

Field description

Estimated number of days per month when the maximum daily temperature exceeds 95 F

Description source WICCI

**Field tmax\_gt90** ▶

Data type float

Width 7

Field description  
Estimated number of days per month when the maximum daily temperature exceeds 90 F

Description source WICCI

**Field tmin\_gt70** ▶

Data type float

Width 7

Field description  
Estimated number of days per month when the minimum daily temperature exceeds 70 F  
(exceptionally warm nights)

Description source WICCI

**Field tmin\_lt32** ▶

Data type float

Width 7

Field description  
Estimated number of days per month when the minimum daily temperature is below 32 F

Description source WICCI

**Field tmin\_lt0** ▶

Data type float

Width 7

Field description  
Estimated number of days per month when the minimum daily temperature is below 0 F

Description source WICCI

**Field tmax\_comfort** ▶

Data type float

Width 7

Field description  
Estimated number of days per month when the maximum daily temperature falls within the 70 to 85 F range

Description source WICCI