



# DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR DINDIGUL



## 24.1 About Dindigul

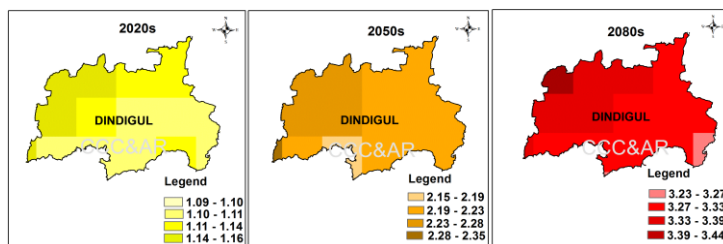
Dindigul district was carved out of the composite Madurai district on 15.9.1985, covering an area of 6266.64 sq. km. It lies between 10° 05' and 10° 09' North latitudes and 77° 30' and 78° 20' East longitudes. Dindigul district is gifted with huge reserves of granite and quartz. The main rivers of the district are Kodaganaru, Palar, Kuthiraiyar, Porandalar, Amravati, Manjalar, Varadhanathi and Maruthanathi. It is famous for its lock and tannery industries.<sup>1,2,3</sup>

## 24.2 Climate of Dindigul

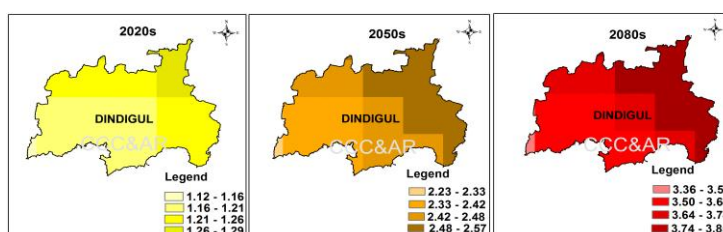
The district enjoys a tropical climate. The period from April to June is generally hot and dry. The weather is pleasant during the period from November to January. the average temperature is relatively high varying from 26°C to 38°C.<sup>2,3</sup>

## 24.3 Temperature Projections for Dindigul

The annual maximum and minimum temperature normal (1970-2000) of the district are 31.5 °C and 20.8 °C respectively.<sup>4</sup> Projections of maximum temperature over Dindigul for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of **1.1°C**, **2.2°C** and **3.3°C** respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of **1.2°C**, **2.4°C** and **3.6°C** respectively.



**Fig 24.1** Changes in Max. Temperature for 2020s, 2050s & 2080s



**Fig 24.2** Changes in Min. Temperature for 2020s, 2050s & 2080s

**Table 24.1** Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.3°C
Minimum Temperature	+1.2°C	+2.4°C	+3.6°C

## 24.4 Key Findings

The average change of maximum and minimum temperature for Dindigul district are expected to increase by **3.3 °C** and **3.6 °C** respectively by the end of the century.

## 24.5 References

1. [http://www.tn.gov.in/district\\_details/562](http://www.tn.gov.in/district_details/562)
2. <http://dindigul.nic.in/administrator/profile.html>
3. Central Ground Water Board 2009. District ground water brochure Dindigul district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at [cgwb.gov.in/District\\_Profile/TamilNadu/Dindigul.pdf](http://cgwb.gov.in/District_Profile/TamilNadu/Dindigul.pdf)
4. IMD, 2013. Temperature of Dindigul District. Regional Meteorological Centre, Chennai.