



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



### 24.1 About Dindigul

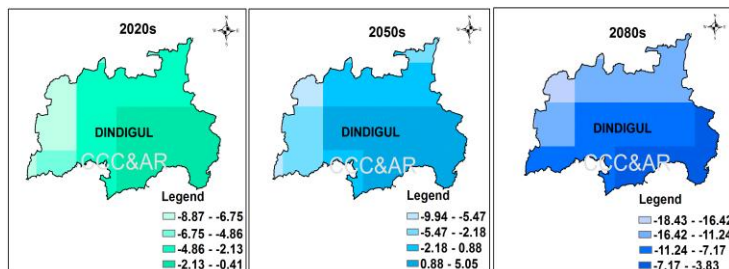
Dindigul district was carved out of the composite Madurai district on 15.9.1985, covering an area of 6266.64 sq. km. It lies between 10° 05' and 10° 09' North latitudes and 77° 30' and 78° 20' East longitudes. Dindigul district is gifted with huge reserves of granite and quartz. The main rivers of the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

### 24.2 Climate of Dindigul

The average annual rainfall over the district varies from about 700 mm to about 1600 mm. It is minimum around Palani (709 mm) in the northwestern part and Vedsandur (732.4mm) in the northeastern part of the district. It gradually increases towards south and southwest and reaches a maximum around Kodaikanal (1606.8 mm). During Southwest monsoon, it is 218.3 while in Northeast, it is 417.9 mm.<sup>3,4</sup>

### 24.3 Rainfall Projections for Dindigul

The annual rainfall normal (1970-2000) of Dindigul district is 831 mm.<sup>5</sup> Projections of rainfall over Dindigul for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate a general decrease of **3.0%**, **2.0%** and **11.0%** respectively.



**Fig 24.1** Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

**Table 24.1** Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-3.0%	-2.0%	-11.0%

### 24.4 Key Findings

The annual rainfall for Dindigul district may reduce by **11.0%** by the end of the century at the emission scenario of A1B.

### 24.5 References

- [http://www.tn.gov.in/district\\_details/562](http://www.tn.gov.in/district_details/562)
- <http://dindigul.nic.in/administrator/profile.html>
- 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)
- <http://dindigul.nic.in/departments/agriculture.html>
- IMD, 2013. Rainfall of Dindigul District. Regional Meteorological Centre, Chennai.