



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



18.1 About Tiruppur

Tiruppur is located on the western part of Tamil Nadu surrounded by the Western Ghats. Coimbatore is in the west of Tiruppur and Erode in the east. Tiruppur district has a total area of 5106 sq. km. It lies between 10°14' and 11°20' North and 77°27' and 77°56' East. It has an average elevation of 967 feet. The Amaravathy dam and the Tirumurthy dam are the major sources of irrigation in Tiruppur.^{1,2,3}

18.2 Climate of Tiruppur

Tiruppur has a salubrious climate. The temperature never goes to extreme levels. March, April and May are the summer months in Tiruppur. During summer there will be mild showers and has a maximum temperature of 35°C and minimum temperature of 18 °C.^{1,3}

18.3 Temperature Projections for Tiruppur

The annual maximum and minimum temperature normal (1970-2000) of Tiruppur district are 33.2°C and 20.8 °C respectively.⁴ Projections of maximum temperature over Tiruppur 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, 2.3°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.

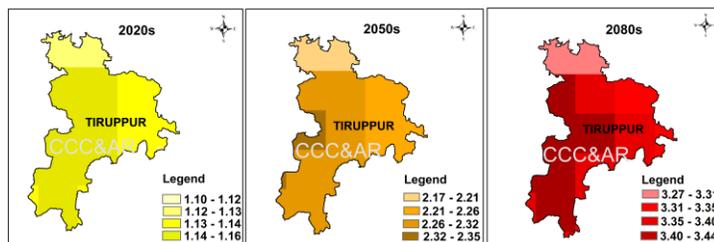


Fig 18.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

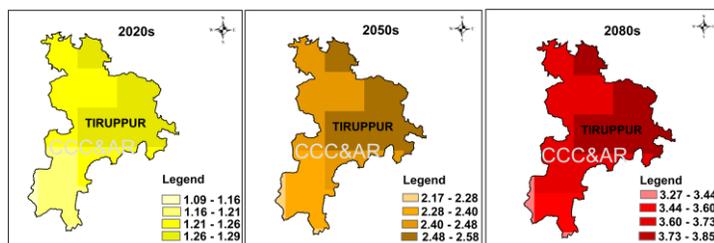


Fig 18.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 18.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.3°C	+3.3°C
Minimum Temperature	+1.1°C	+2.4°C	+3.6°C

18.4 Key Findings

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

18.5 References

1. <http://www.tiruppuronline.in/city-guide/Geography-of-Tiruppur>
2. http://www.tn.gov.in/district_details/1566
3. <http://www.onefive-nine.com/india/villag/Tiruppur>
4. IMD, 2013. Temperature of Tiruppur District. Regional Meteorological Centre, Chennai.