



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



20.1 About Tiruchirappalli

The district of Tiruchirappalli, was formerly called by the British as “Trichinopoly” and is commonly known as Trichy. It is the fourth largest city in the State of Tamil Nadu. It is located at 10° 48' 18" N and 78° 41' 7" E. The average elevation is 88 metres (289 ft). It is located almost at the geographic centre of the State of Tamil Nadu. The topology of Tiruchirappalli is almost flat with a few isolated hillocks rising above the surface, the highest of which is the Rockfort. The district covers an area of 4403.83 sq. km.^{1,2,3}

20.2 Climate of Tiruchirappalli

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. Usually mornings are more humid than afternoons. Average maximum temperature of the district is 40.2 °C.³

20.3 Temperature Projections for Tiruchirappalli

The annual maximum and minimum temperature normal (1970-2000) of the district are 34.0 °C and 22.6°C respectively.⁴ Projections of maximum temperature over Tiruchirappalli 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 3.7°C respectively.

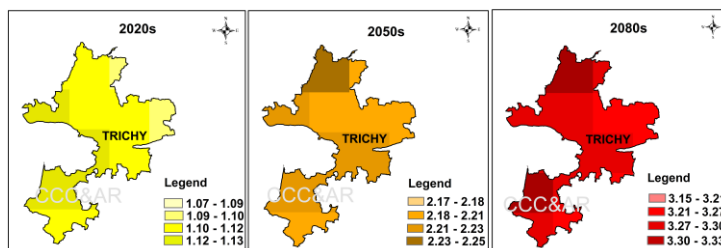


Fig 20.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

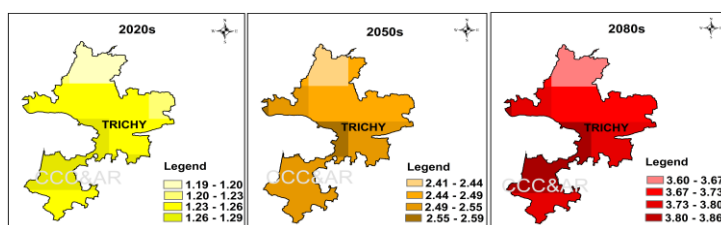


Fig 20.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 20.1 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	+3.7°C

20.4 Key Findings

The average change of maximum and minimum temperature for Tiruchirappalli district are expected to increase by 3.3 °C and 3.7 °C respectively by the end of the century.

20.5 References

1. <http://www.tiruchirappalli.nic.in/trichynew/district/distnew.html>
2. <http://ecourts.gov.in/tn/tiruchirappalli>
3. Central Ground Water Board 2009. District ground water brochure Tiruchchirappalli district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at cgwb.gov.in/District_Profile/TamilNadu/Trichy.pdf
4. IMD, 2013. Temperature of Trichy District. Regional Meterological Centre, Chennai.