



DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU

TEMPERATURE PROJECTIONS FOR KARUR



19.1 About Karur

Karur Taluk, which was once a part of Coimbatore district, was merged with Tiruchirappalli district during 1910. A separate Karur district was formed on 30th September 1995 by trifurcating Tiruchirappalli district. Karur district is bounded by Namakkal district in the north, Dindigul district in the south, Tiruchirappalli district on the east and Erode district on the west. Karur is located between 10°37' N to 11°12' N of latitudes and between 77°46' E to 78°15' E of longitudes. It is spread over an area of 2,895.57 sq. km.^{1,2,3}

19.2 Climate of Karur

The district enjoys a tropical climate. The period from March to May is generally hot and dry. The mean maximum temperature ranges from 26.7 to 38.56 °C and the mean minimum temperature ranges from 18.7 °C to 29.3 °C.³

19.3 Temperature Projections for Karur

The annual maximum and minimum temperature normal (1970-2000) of the district are 34.0 °C and 16.3°C respectively.⁴ Projections of maximum temperature over Karur 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 1.3°C, 2.5°C and 3.8°C respectively.

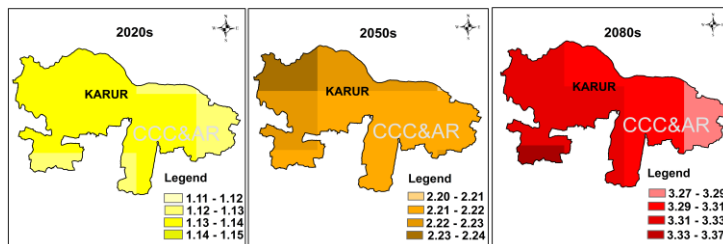


Fig 19.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

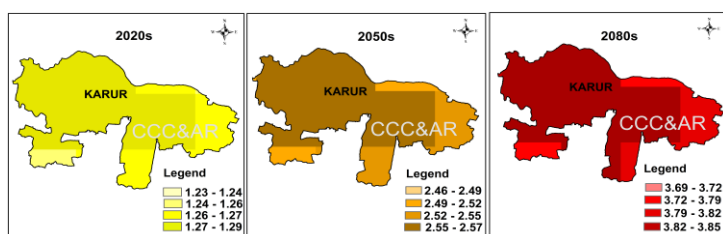


Fig 19.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 19.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.3°C
Minimum Temperature	+1.3°C	+2.5°C	+3.8°C

19.4 Key Findings

The average change of maximum and minimum temperature for Karur district are expected to increase by 3.3°C and 3.8 °C respectively by the end of the century.

19.5 References

1. <http://www.karur.tn.nic.in>
2. http://www.tn.gov.in/district_details/575
3. Central Ground Water Board 2009. District ground water brochure Karur district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at cgwb.gov.in/District_Profile/TamilNadu/Karur.pdf
4. IMD, 2013. Temperature of Karur District. Regional Meteorological Centre, Chennai.