



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



13.1 About Perambalur

Perambalur district came in to existence after trifurcation of Tiruchirappalli district with effect from 30.09.1995. It is bounded on the north by Cuddalore and Salem districts, south by Tiruchirappalli, east by Ariyalur district, west by Tiruchirappalli and Salem districts. The district has an area of 1,756 sq. km. spread between 10°54' and 11°30' Northern latitude and 78°40' and 79°30' of the Eastern longitude.^{1,2}

13.2 Climate of Perambalur

Perambalur district enjoys a typical semi arid climate with hot summers and moderately cool winters. The hottest season is from March to May. During the period the maximum temperature often exceeds 40°C. The winter season is spread over two months viz. January and February and the nights are cool and pleasant. The district generally has a high humidity.^{1,2}

13.3 Temperature Projections for Perambalur

The annual maximum and minimum temperature normal (1970-2000) of the district are 32.6°C and 22.2°C respectively.³ Projections of maximum temperature over Perambalur 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 3.2°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.

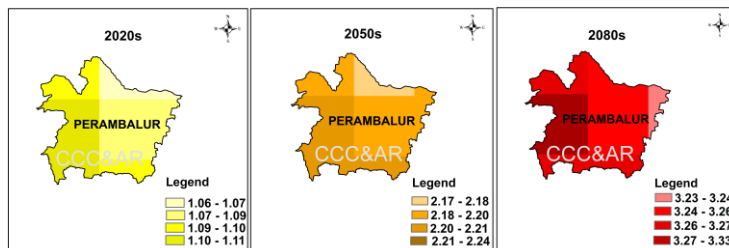


Fig 13.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

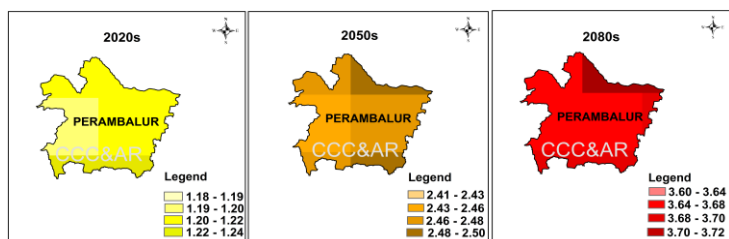


Fig 13.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 13.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.2°C
Minimum Temperature	+1.2°C	+2.4°C	+3.7°C

13.4 Key Findings

The average change of maximum and minimum temperature for Perambalur district are expected to increase by 3.2°C and 3.7°C respectively by the end of the century.

13.5 References

1. http://perambalur.tn.nic.in/About_PerambalurDistrict.html
2. Central Ground Water Board 2008. District groundwater brochure Perambalur district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at : cgwb.gov.in/District_Profile/TamilNadu/Perambalur.pdf
3. IMD, 2013. Temperature of Perambalur District. Regional Meterological Centre, Chennai.