



DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU

RAINFALL PROJECTIONS FOR KANCHIPURAM



4.1 About Kanchipuram

Kanchipuram district is situated on the northeast coast of Tamil Nadu. It is a temple city. It lies between 11° 00' to 12° 00' latitudes and 77° 28' to 78° 50' longitudes. The district has a total geographical area of 4,43,210 hectares and a coastline of 57km. The Palar river is the most important river running through the district. Through most of the year it remains dry, attributed to the construction of dams across the river in Andhra Pradesh. The total forest area in the district is 23,586 hectares.^{1,2}

4.2 Climate of Kanchipuram

The pre-monsoon rainfall is almost uniform throughout the district. The coastal regions receive more rainfall than the interior ones. Northeast and Southwest monsoons are the major donors, with 54% and 36% contribution each to the total annual rainfall. During normal monsoon, the district receives a rainfall of 1200 mm. The normal annual rainfall over the district varies from 1105 mm to 1214 mm.²

4.3 Rainfall Projections for Kanchipuram

The annual rainfall normal (1970-2000) of Kanchipuram district is 1252mm.³ The projection for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) indicate a general decrease of **1.0%**, **5.0%** and **1.0%** respectively with respect to the baseline (1970-2000).

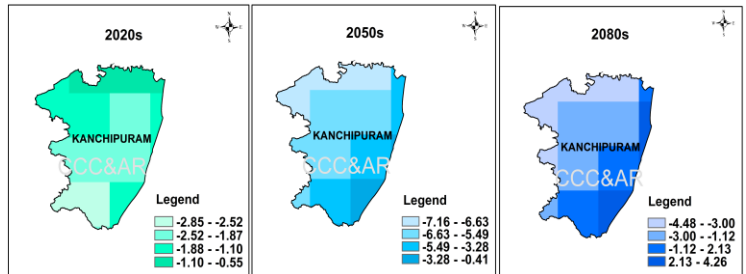


Fig 4.1 Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

Table 4.1 Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-1.0%	-5.0%	-1.0%

4.4 Key Findings

The annual rainfall for Kanchipuram may reduce by **1.0%** by the end of the century as per the emission scenario of A1B. It is also noted from the map that major decrease of rainfall is found in the northern part of the Kanchipuram district.

4.5 References

1. http://www.kanchi.nic.in/district_profile_pro.html
2. ENVIS 2015. Kanchipuram District. ENVIS Centre Tamilnadu, Available at tnevis.nic.in/files/KANCHIPURAM%20.pdf
3. IMD, 2013. Temperature of Kanchipuram District. Regional Meteorological Centre, Chennai.