



DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU RAINFALL PROJECTIONS FOR NAMAKKAL



12.1 About Namakkal

Namakkal district was separated from Salem district and started functioning from 01-01-1997. The district is bounded by Salem on the north, Karur on the south, Trichy and Salem on the east and Erode on the west. The northern portion of Namakkal are mountainous and the southern areas are plains. The geographical area of the district is 3363 km² which lies between 11°00' and 11°36' North latitudes and between 77°28' and 78°30' East longitudes.^{1,2,3}

12.2 Climate of Namakkal

The district receives most of the precipitation in the form of cyclonic storms caused due to the depressions in Bay of Bengal. The Southwest monsoon rainfall is highly erratic and summer rains are negligible. The normal annual rainfall over the district varies from about 640 mm to 880 mm. It is the minimum around Paramathi (640.5 mm) in the southwestern part of the district. It gradually increases towards north, northeast and east and attains a maximum around Rasipuram (880.5 mm) in the northern part.^{1,2,3}

12.3 Rainfall Projections for Namakkal

The annual rainfall normal (1970-2000) of the district is 776 mm.⁴ Projections of rainfall over Namakkal for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate a decrease of **3.0%**, **3.0%** and **8.0%** respectively.

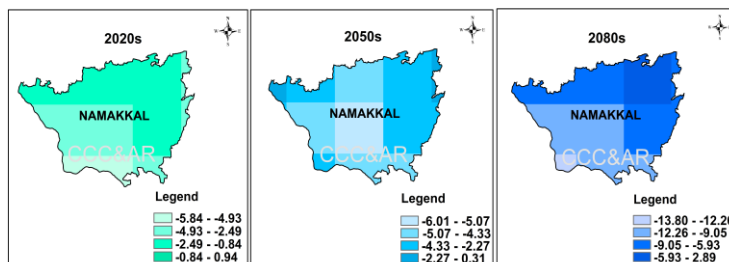


Fig 12.1 Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

Table 12.1 Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-3.0%	-3.0%	-8.0%

12.4 Key Findings

The annual rainfall for Namakkal district may reduce by **8.0%** by the end of the century as per the emission scenario of A1B.

12.5 References

- <http://www.namakkal.tn.nic.in/profile.html>
- Central Ground Water Board 2008. District groundwater brochure Namakkal district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at : cgwb.gov.in/District_Profile/TamilNadu/Namakkal.pdf
- <http://www.mapsofindia.com/maps/tamilnadu/districts/namakkal.htm>
- IMD, 2013. Rainfall of Namakkal District. Regional Meteorological Centre, Chennai.