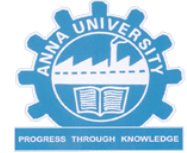




DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU RAINFALL PROJECTIONS FOR THIRUVALLUR



2.1 About Thiruvallur

Thiruvallur district, a newly formed district bifurcated from the erstwhile Chengalpattu district (on 1st January 1997), is located in the northeast part of Tamil Nadu. It lies in North latitude between 12°15' and 13°15' East longitude between 79°15' and 80°20'. It is bounded on the north by Andhra Pradesh State, on the east by the Bay of Bengal, on the southeast by Chennai district, on the south by Kanchipuram and on the west by Vellore district. The coastal region of the district is mostly flat and dreary; but in the other parts it is undulating and even hilly in some places.^{1,2}

2.2 Climate of Thiruvallur

The average rainfall of the district is 1104 mm. Out of which 52% has been received during Northeast monsoon period and 41% has been received during Southwest monsoon period.^{1,2}

2.3 Rainfall projections for Thiruvallur

The annual rainfall normal (1970-2000) of Thiruvallur district is 1152mm.³ The annual rainfall projection for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) indicate a general decrease of **0.1%**, **5.0%** and **5.0%** respectively with respect to the baseline (1970 -2000).

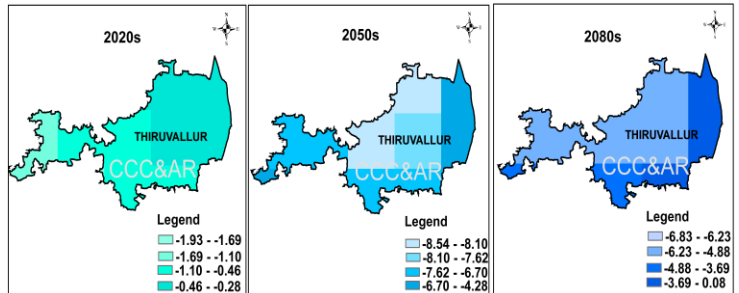


Fig 2.1 Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

Table 2.1 Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-0.1%	-5.0%	-5.0%

2.4 Key Findings

The annual rainfall for Thiruvallur may reduce by **5.0%** by the end of the century as per the emission scenario of A1B. It is also noted from the map that the major decrease of rainfall is found in the north western part of the Thiruvallur district.

2.5 References

1. http://tiruvallur.tn.nic.in/district_profile/profile.htm
2. ENVIS 2015. Thiruvallur District. ENVIS Centre Tamilnadu, Available at tnenvis.nic.in/files/THIRUVALLUR%20%20.pdf
3. IMD, 2013. Temperature of Thiruvallur District. Regional Meterological Centre, Chennai.