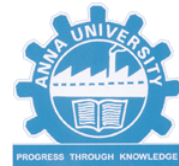




DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU RAINFALL PROJECTIONS FOR TIRUPPUR



18.1 About Tiruppur

Tiruppur is located on the western part of Tamil Nadu surrounded by the Western Ghats. Coimbatore is in the west of Tiruppur and Erode in the east. Tiruppur district has a total area of 5106 sq. km. It lies between 10°14' and 11°20' North and 77°27' and 77°56' East. It has an average elevation of 967 feet. The Amaravathy dam and the Tirumurthy dam are the major sources of irrigation in Tiruppur.^{1,2,3}

18.2 Climate of Tiruppur

Tiruppur has a salubrious climate. The winter season of the district is September to January. June, July and August are the monsoon months. During monsoon the temperature will be low and the city receives a few mild showers. Tiruppur receives rainfall mainly due to Southwest monsoon. It receives an average annual rainfall of 700 mm.^{1,4}

18.3 Rainfall Projections for Tiruppur

The annual rainfall normal (1970-2000) of Tiruppur district is 694 mm.⁵ Projections of rainfall over Tiruppur for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate a general decrease of **4.0%**, **2.0%** and **3.0%** respectively.

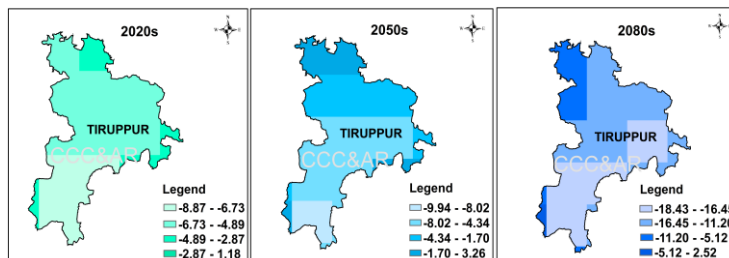


Fig 18.1 Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

Table 18.1 Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-4.0%	-2.0%	-3.0%

18.4 Key Findings

The annual rainfall for Tiruppur district may reduce by **3.0%** by the end of the century as per the emission scenario of A1B.

18.5 References

1. <http://www.tiruppuronline.in/city-guide/Geography-of-Tiruppur>
2. <http://tiruppur.tn.nic.in/areapop.html>
3. http://www.tn.gov.in/district_details/1566
4. <http://www.onefivenine.com/india/villag/Tiruppur>
5. IMD, 2013. Rainfall of Tiruppur District. Regional Meteorological Centre, Chennai.