



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



## 7.1 About Dharmapuri

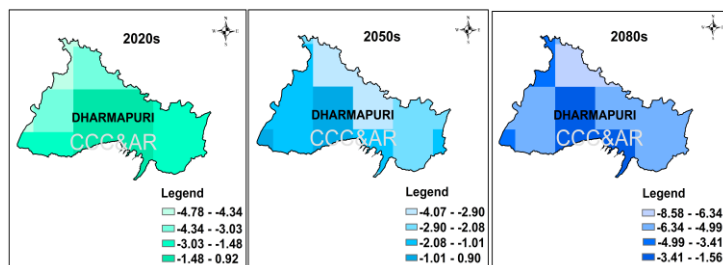
Dharmapuri district, which came into existence from 2.10.1965 is situated in the north western corner of Tamil Nadu and is bounded by Tiruvannamalai and Villupuram districts on the east, Salem district on the south, Krishnagiri district on the north and Kaveri river on the west. It is located between latitudes N 11°47' and 11°57' and longitudes E 78°02' and 78°40'. The total geographical area of Dharmapuri district is 4497.77 sq. km, i.e. 3.46% of Tamil Nadu. The district economy is mainly agrarian in nature. Nearly 70% of the workforce is dependent on agriculture and allied activities.<sup>1,2</sup>

## 7.2 Climate of Dharmapuri

The normal annual rainfall over the district varies from about 760 mm to about 910 mm. It is lowest around Rayakota (766.5 mm) in the northern part of the district. It gradually increases towards south, west and east and attains a maximum around Denkanikota (912 mm) in the northwestern part around Thally.<sup>3</sup>

## 7.3 Rainfall Projections for Dharmapuri

The annual rainfall normal (1970-2000) of Dharmapuri district is 853 mm.<sup>4</sup> Projections of rainfall over Dharmapuri 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%**, **2.0%** and **6.0%** respectively.



**Fig 7.1** Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

**Table 7.1** Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-3.0%	-2.0%	-6.0%

## 7.4 Key Findings

The annual rainfall for Dharmapuri district may reduce by **6.0%** by the end of the century as per the emission scenario of A1B.

## 7.5 References

- <http://dharmapuri.tn.nic.in/profile.htm>
- <http://www.southindiaonline.com/tamilnadu/dharmapuri/generalinfo.htm>
- Central Ground Water Board 2009. District groundwater brochure Dharmapuri district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at [cgwb.gov.in/district\\_profile/tamilnadu/dharmapuri.pdf](http://cgwb.gov.in/district_profile/tamilnadu/dharmapuri.pdf)
- IMD, 2013. Rainfall of Dharmapuri District. Regional Meteorological Centre, Chennai.