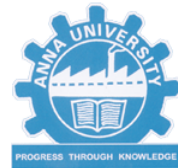




DISTRICT WISE CLIMATE CHANGE INFORMATION FOR THE STATE OF TAMIL NADU TEMPERATURE PROJECTIONS FOR DHARMAPURI



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.^{1,2}

7.2 Climate of Dharmapuri

The Climate of the Dharmapuri district is generally warm. The hottest period of the year is generally from the months of March to May , the highest temperature going up to 38°C in April. The Climate becomes cool in December and continuous so up to February, touching a minimum of 17 °C in January.^{1,2}

7.3 Temperature Projections for Dharmapuri

The annual maximum and minimum temperature normal (1970-2000) of the district are 33.3°C and 23.3°C respectively.³ Projections of maximum temperature over Dharmapuri for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate an increase of 1.1°C, 2.2°C and 3.3°C respectively. Similarly, the projections of minimum temperature for the same periods indicate an increase of 1.2°C, 2.5°C and 3.8°C respectively.

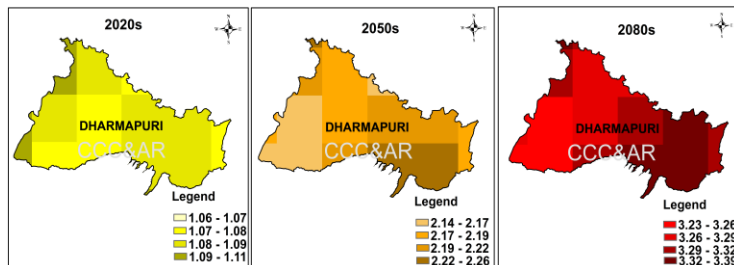


Fig 7.1 Changes in Max. Temperature for 2020s, 2050s & 2080s

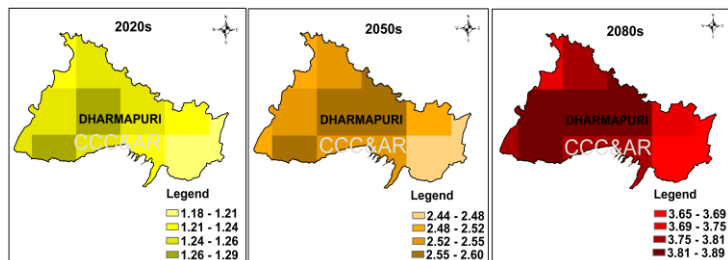


Fig 7.2 Changes in Min. Temperature for 2020s, 2050s & 2080s

Table 7.1 Changes in Temperature

Parameter	2020s	2050s	2080s
Maximum Temperature	+1.1°C	+2.2°C	+3.3°C
Minimum Temperature	+1.2°C	+2.5°C	+3.8°C

7.4 Key Findings

The average change of maximum and minimum temperature for Dharmapuri district are expected to increase by 3.3°C and 3.8°C respectively by the end of the century.

7.5 References

- <http://dharmapuri.tn.nic.in/profile.htm>
- <http://www.southindiaonline.com/tamilnadu/dharmapuri/generalinfo.htm>
- IMD, 2013. Temperature of Dharmapuri District. Regional Meteorological Centre, Chennai.