



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



8.1 About Villupuram

Villupuram district lies between 11° 38' 25" N and 12° 20' 44" S: 78° 15' 00" W and 79° 42' 55" E with an area of 7194 sq. km. It was carved out from the South Arcot district on 30.09.1993 and was rechristened as Villupuram district. The residual part of the erstwhile South Arcot district was named as Cuddalore district. It is surrounded on east and south by Cuddalore district. The west by Salem and Dharmapuri district and on the north by Thiruvannamalai and Kanchipuram district.^{1,2,3}

8.2 Climate of Villupuram

The average rainfall of the district is 1060.3 mm. The rainfall is heavier in the coastal area compared to interior areas. About 93.82% of the normal rainfall is received during the Northeast and South west monsoon seasons. Normally the district does not get heavy rainfall with the exception of Marakkanam and Vanur blocks. While in Kandamangalam and Kolianur blocks, the rainfall is moderate, it is scanty in Kallakurichi and Sankarapuram Blocks.^{1,2,3,4}

8.3 Rainfall Projections for Villupuram

The annual rainfall normal (1970-2000) of Villupuram district is 1029 mm.⁵ Projections of rainfall over Villupuram for the periods 2010-2040 (2020s), 2040-2070 (2050s) and 2070-2100 (2080s) with reference to the baseline (1970-2000) indicate a decrease of **2.0%**, **3.0%** and **1.0%** respectively.

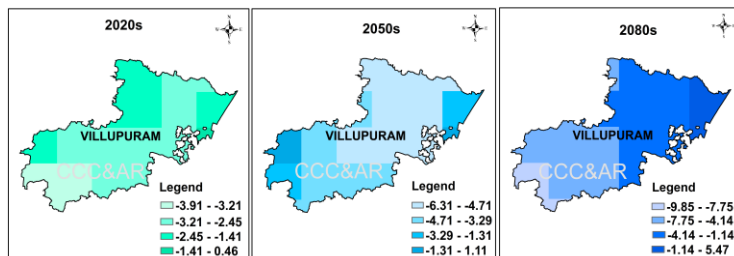


Fig 8.1 Percent change in Annual Rainfall for the period 2020s, 2050s and 2080s

Table 8.1 Percent change in Annual Rainfall

Parameter	2020s	2050s	2080s
Annual Rainfall	-2.0%	-3.0%	-1.0%

8.4 Key Findings

The annual rainfall for Villupuram district may reduce by **1.0%** by the end of the century as per the emission scenario of A1B.

8.5 References

- <http://www.viluppuram.nic.in/ata glancepage.htm>
- <http://www.viluppuram.nic.in/agripage.htm>
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- Central Ground Water Board 2009. District groundwater brochure Villupuram district, Tamil nadu. Central Ground Water Board South Eastern Coastal Region, Chennai. Available at cgwb.gov.in/district_profile/tamilnadu/villupuram.pdf
- IMD, 2013. Rainfall of Villupuram District. Regional Meteorological Centre, Chennai.