

# Weather

## Indicators (units)

1. Actual annual rainfall (mm)
2. Normal annual rainfall (mm)

## Data Sources

India-WRIS (Water Resources Information System)

India-WRIS was initiated by a Memorandum of Understanding signed on December 3rd, 2008 between the Ministry of Jal Shakti and the Indian Space Research Organization (ISRO), Department of Space. It is managed by the National Water Informatics Centre (NWIC).

## Institution Who Collected Primary Data

Indian Meteorological Department (IMD) Grid

## Years Data Have Been Collected

Annually since 1901

## Years Data Are Available

1970 to 2023

Please note that some data are not available for all years listed here.

## Years Data Are Compiled For

1970 to 2021

## Population Subgroups Available

Not applicable

## Methods of Data Collection

District-wise average annual rainfall collected by "ALL AGENCIES" as reported by the India-WRIS is presented in the Poshan Atlas.

**Normal Annual Rainfall:** Normal annual rainfall is the Long Period Average (LPA) calculated by the IMD based on a 50-year average for the period 1951-2000 for each administrative division, based on data collection from a network of 2,412 stations across India (Figure).

**Actual Annual Rainfall:** Actual annual rainfall is computed based on rainfall data from about 3,500 stations spread over the country. Based on daily rainfall data from these stations, the average annual rainfall of each district is computed.

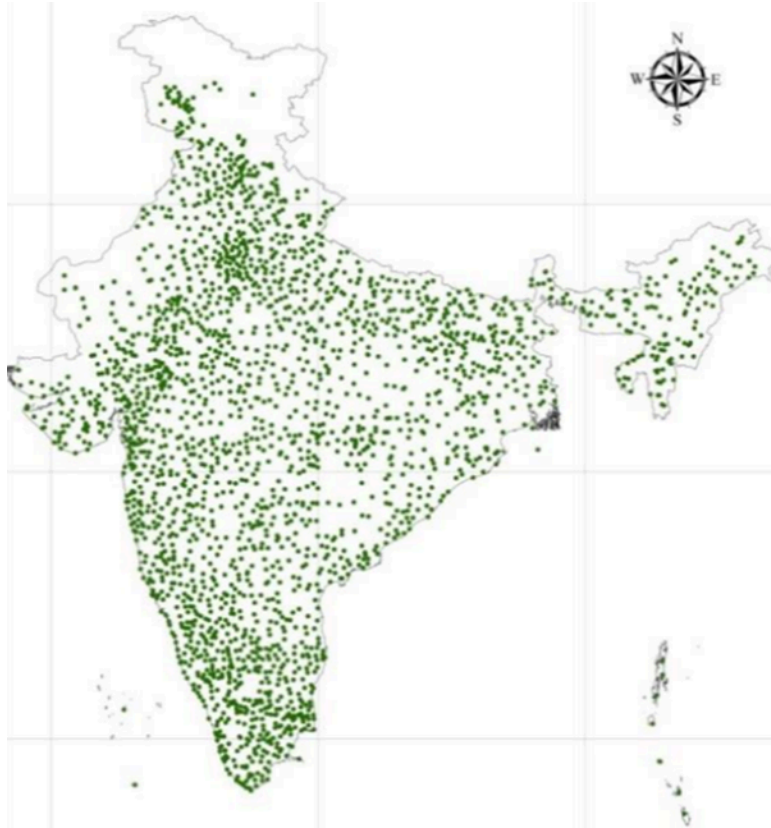


Figure. Location of rain gauges for Normal Rainfall monitoring. From “Rainfall Statistics of India – 2018” published by the India Meteorological Department (Ministry of Earth Sciences).

## Example of Interpreting Data

The actual annual rainfall data for 2019 indicated a maximum of 5,517 mm (compared to 3,320 mm normal annual rainfall) in Amravati district of Maharashtra, and minimum of 196 mm (compared to 376 mm normal annual rainfall) in Jhajjar district of Haryana.

## References and Further Reading

Rainfall Statistics of India reports can be found here:

[http://hydro.imd.gov.in/hydrometweb/\(S\(ukc1vrehizdin3bmkdjgmrup\)\)/landing.aspx](http://hydro.imd.gov.in/hydrometweb/(S(ukc1vrehizdin3bmkdjgmrup))/landing.aspx)

Details on IMD publications can be found here:

<http://www.imdpune.gov.in/library/publication.html>