

## Climatic Classification of Rajasthan

- I. Koeppen's classification
- II. Thornthwaite's classification

### I. Koeppen's classification:

#### 1. BWhw Climatic Region:

- The region has arid-hot desert climate with very scanty rainfall.
- Precipitation is very less and evaporation is very high.
- Thus, these areas are known as desert region, limited to western parts of Thar Desert.
- Vegetation consists of xerophytic shrubs.
- This region comprises of Jaisalmer, northern parts of Barmer, western of the Phalodi Tehsil of Jodhpur, western parts of Bikaner and southern parts of Ganganagar.

#### 2. BShw Climatic Region:

- This climatic region is semi-arid, where winters are dry and even in summers there is no sufficient amount of rainfall.
- Vegetation is of steppe type, characterized with thorny bushes and grasses.
- This region comprises the parts of Barmer, Jalore, Jodhpur, Nagaur, Churu, Sikar, Jhunjhunu and Hanumangarh.
- North-western Jodhpur, western Bikaner and western parts of Ganganagar district are included in this category.

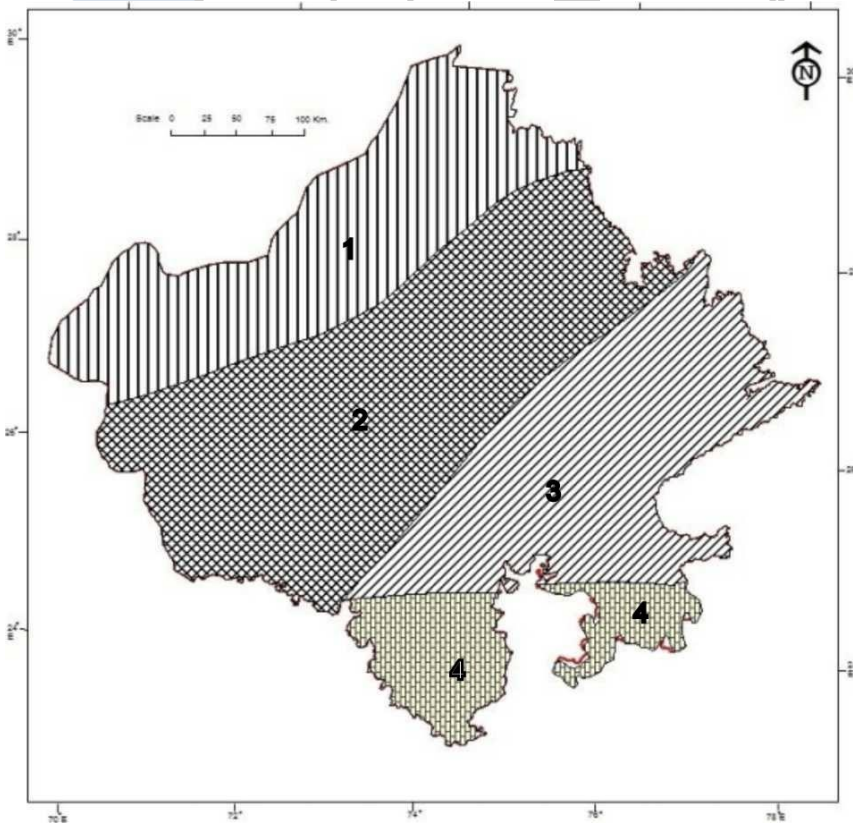
#### 3. Cwg Climatic Region:

- The areas of east of Aravalli are the part of the region.
- Rainfall ranges between 40-60 cm.

- Seasonal winds do not bring rains to this region during winters.

#### 4. Aw or Tropical Humid Region:

- The southern parts of Dungarpur district and Banswara come under the region.
- Here, tropical grasslands and Savanna like region are found along with deciduous trees of Monsoon type.
- Winter season is arid and cool whereas summers experience high heat.
- Rainfall also mainly occurs in summer season, in the range of 50-80 cm.
- The temperature is more than 18 Deg. C in the coldest month records.



- 1: BWhw
- 2: BShw
- 3: Cwg
- 4: Aw

## II. Thornthwaite's classification

Thornthwaite took into account the amount of precipitation and evaporation along with seasonal and monthly distribution of temperature and rainfall.

Rajasthan may broadly be divided into the following four regions:

### 1. EA'd Tropical Desert Climatic Region

- This region is also known as Marusthali and includes Barmer, Jaisalmer, western Jodhpur and south-western Bikaner.
- The climate is very hot and arid.
- Rains are deficient in every season.
- Only xerophytic vegetation grows.

### 2. DB'W Climatic Region

- It includes the northern areas of Rajasthan i.e. Ganganagar, Hanumangarh, Churu and Bikaner districts.
- The region has short and dry winters whereas summers are long and associated with moderate rains.
- Thorny bushes and semi-arid vegetation are found here

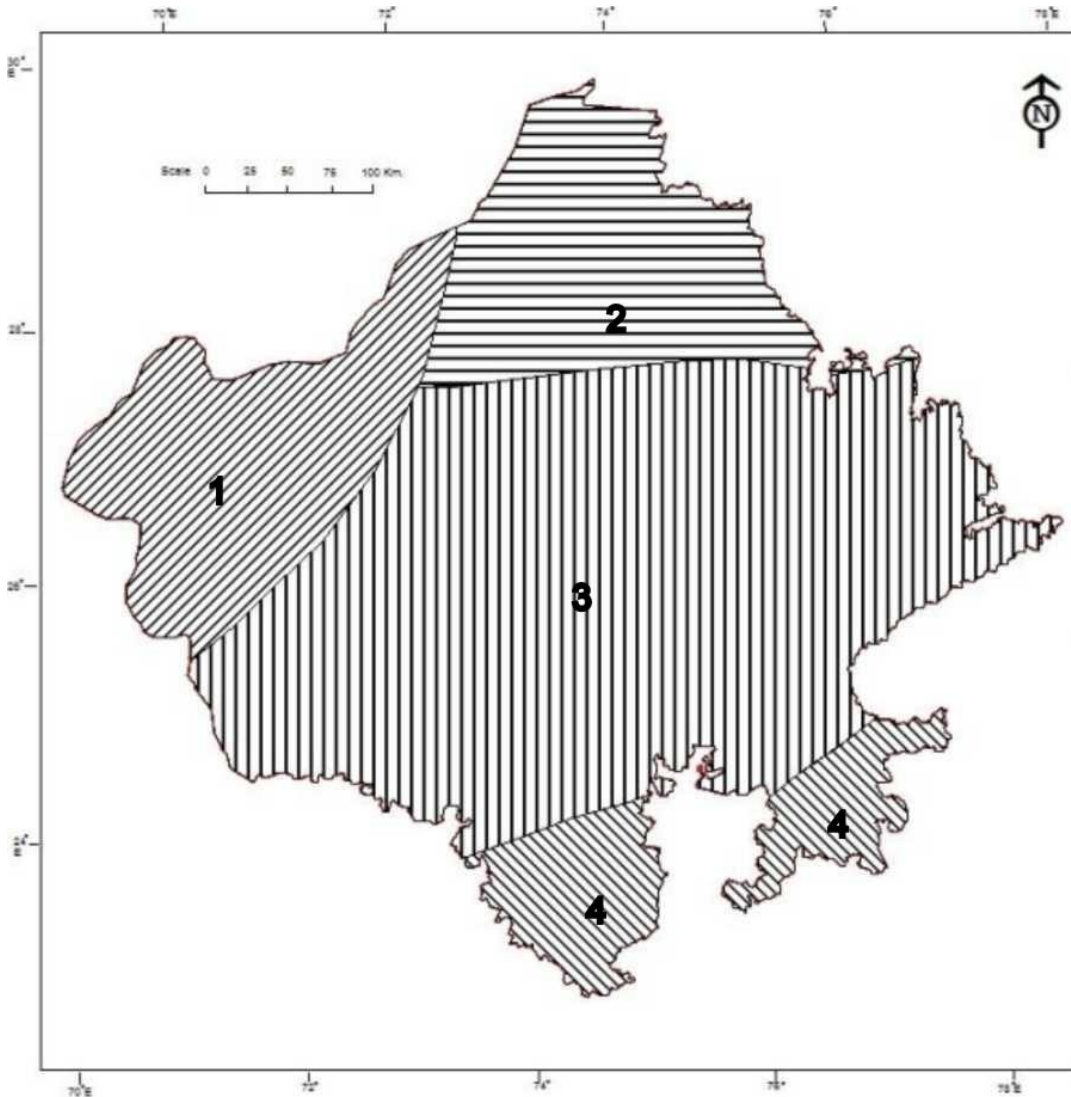
### 3. DA'w Climatic Region

- The region comprises south and eastern areas of Rajasthan, covering districts of Sirohi, east Jalor, Pali, Ajmer, Chittorgarh, Bundi, Sawai Madhopur, Tonk, Bhilwara, Bharatpur, Jaipur, Dausa, Alwar, Sikar and Jhunjhunu.
- Rainfall is moderate and semi-arid vegetation is found.
- Summers are marked by High temperatures.

### 4. CA'w Climatic Region

- This region is characterized by wet summers and dry winters.

- Savanna and Monsoon type of vegetation are found here.
- This region includes south-eastern parts of Udaipur and districts of Banswara, Dungarpur, Kota, and Jhalawar.



- 1: EA'd
- 2: DB'w
- 3: DA'w
- 4: CA'w