Bihar's Vulnerability to Climate Change

Managing climate risks requires an enhanced understanding of the underlying drivers of hazards; the exposure of regions and populations; the sensitivity of regions and their resulting vulnerability; and the interactions between these components

Vulnerability = Exposure + Sensitivity + (100 - Adaptive Capacity)

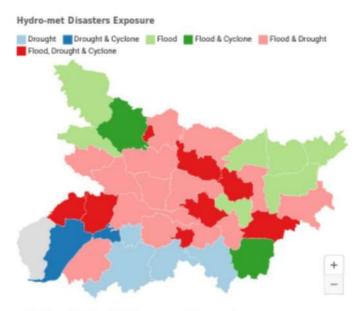
Flood

Out of 38, 15 districts are highly vulnerable and 13 districts are vulnerable to flood hazard consisting of 31.46 million people

Earthquake

- Total 15.2% area of Bihar covered in Zone V
- Total 63.7% area of Bihar covered in Zone
- Total 21.1% area of Bihar covered in Zone IV

EXPOSURE



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Drought

- Vulnerable District : Gaya, Nawada Jamui, Nalanda, Lakhisarai
- Prone District:
 Jahanabad, Arwal,
 Aurangabad
- Likely District: Kaimur, Bhojpur, Buxar, Rohtas, Banka

Cyclonic storm

- Around 86% of area of Bihar is prone to cyclone of 47 m/s intensity
- Around 14% of area of Bihar is prone to Cyclone of lesser intensity

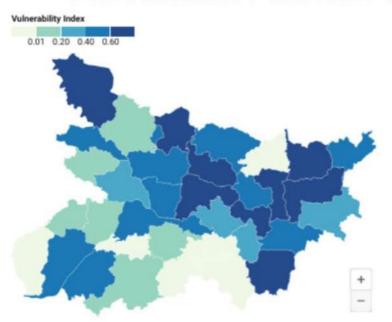
Source: Vulnerability Atlas of India

SENSITIVITY

Hazard	Area worst Hit	Sector worst affected	Population	Property
Earthquake	All	Structure + Infrastructure	All	Livestock+ structure+ wealth
Flood	Largely	Agriculture+ Infrastructure	Largely threshold & marginalized section	Livestock+ structure+ wealth
Cyclonic storm	Largely Rural	Structure	Largely threshold & marginalized section	
Drought	Rural	Agriculture	Largely threshold & marginalized section	Livestock

ource: State Disaster Management Plan

VULNERABILITY INDICES OF DISTRICTS IN BIHAR



Bihar ranks **5th** in India in terms of vulnerability to climate extremes

Darbhanga, Sitamarhi, Madhepura, Pashchim Champaran, Banka, Khagaria, and Araria districts in Bihar are most vulnerable to all three hydro-met extreme events

Highly vulnerable to hydro-meteorological natural disasters, with North Bihar in general being highly flood-prone, and South Bihar being highly drought prone

Source: https://www.ceew.in/publications/mapping-climate-change-vulnerabilityindex-of-india-a-district-level-assessment

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