

Geography of Bihar

- Longitudinal extent 83°19' E to 88°7' E
- Latitudinal extent 24°20' N to 27°3' N
- Distance from east to west 483 km
- Distance from north to south 345 km
- Bihar has boundaries with the states of UP, Jharkhand and West Bengal. It also borders Nepal in the north.
- Length of Nepal border 601 km
- 7 Districts that border Nepal in the west to east direction West Champaran, East Champaran, Sitamarhi, Madhubani, Supaul, Araria, and Kishanganj
- 8 Districts that border UP in north to south direction West Champaran, Gopalganj, Siwan, Saran, Bhojpur, Buxar, Kaimur, and Rohtas
- 8 Districts that border Jharkhand in the west to east direction Rohtas, Aurangabad, Gaya, Nawada, Jamui, Banka, Bhagalpur, and Katihar
- 3 Districts that border WB in the north to south direction Kishanganj, Purnia, and Katihar
- Ganga, Ghaghara and Gandak form boundary with UP in some parts
- Sone river forms a boundary with Jharkhand in Rohtas district

Geological Structure of Bihar

- Younger rocks to the north, older rocks to the south
- North-west is Terai, Central is Gangetic plain and south is a plateau region
- Bihar plain is the youngest to be formed
- **Dharwar** rocks South-eastern Bihar Jamui, Nawada, Munger districts
- Vindhyan rocks South-western Bihar Kaimur, Rohtas districts
- **Plateau** region extends as a narrow belt from Kaimur district to Banka district

Climate of Bihar

- Continental Monsoon type climate
- The northern part is cooler compared to the southern part
- Eastern part receives 200 cm of rainfall while the western part receives 100 cm.
- April month has the lowest humidity
- The temperature of the eastern part is reduced due to the impact of the Nor'wester showers.
- Nor'wester tropical cyclonic thunderstorm, extremely helpful for pre-Kharif crops







• Gaya is hottest in May while coldest in January.

Soils of Bihar

- **Piedmont Swamp Soil** West-Champaran, supports rice, rich in organic matter
- **Terai Soil** found in the Northern belt bordering Nepal, Champaran to Kishanganj, sugarcane, jute
- **Bhangar** older alluvial soil -loamy, sticky, rich in lime, good for paddy and sugarcane, Patna and Gaya
- **Khadar** younger alluvial soil rich in nitrogen, good for paddy and wheat, Purina, Saharsa, Darbhanga
- **Karail-Kewal** soil heavy clay, alkaline, from Rohtas to Bhagalpur, brown to yellow
- Tal soil poor drainage, grey, high yield, from Buxar to Banka
- **Balthar soil** the presence of iron, red and yellow, less fertile, in the transitional zone between Chhotanagpur plateau and Ganga plain, Kaimur to Rajmahal hills
- Bal Sundari alkaline, Saharsa and Champaran, maize and tobacco

Ganga

- Enters at **Chausa** forming boundary of Bhojpur and Saran
- Northern tributaries **Ghaghra** in Saran, **Gandak** at Sonepur, **Bagmati** at Munger, **Kosi** at Kursela, **Kali-Kosi** at Manihari
- Southern tributaries Sone at Maner, Karmanasa at Chausa, Punpun at Fathua
- It has the largest catchment area in Bihar
- Mahatma Gandhi Setu connects Patna in the south to Hajipur in north

Ghaghra / Saryu

- Originates at **Nampa** in Nepal
- Enters Bihar at **Gopalganj**
- Joins Ganga at **Chhapra**

Gandak

- Originates at **Tibet**
- Enters India near Triveni in Nepal,
- Forms boundary of Bihar and UP
- Enters Bihar at West Champaran
- Joins Ganga at Sonepur







• **Triveni Canal** gets water from this river

Burhi Gandak

- Originates at **Someshwar hills** in Chautarwa Chaur of **West Champaran**
- Flows parallel to river Gandak
- Joins Ganga at Khagaria

Kosi

- Notoriously known as Sorrow of Bihar for its changing of course
- It is made up of seven channels from Nepal known as Sapt Kosi
- Enters Bihar through **Supaul**
- Joins Ganga at Kursela in Katihar

Bagmati

- Originates in **Shivpuri range** in Nepal
- Enters Bihar in Sitamarhi
- Joins Kosi at Badlaghat

Kamla

- Originates in **Mahabharat Range** in Nepal near **Sindhuliagarhi**
- Enters Bihar in **Madhubani**
- Kamla Barrage has been constructed
- Joins river Bagmati at Badlaghat

Mahananda

- Originates in Sikkim
- Enters Bihar in Kishanganj
- Joins Ganga at Nawabganj in Bangladesh
- In upper course forms an important linguistic boundary between Hindi and Bengali speaking area.

Sone

- Originates in **Amarkantak range in MP**
- Joins Ganga near Maner
- Important tributaries are Rihand and North Koel







Punpun

- Originates in the Hazaribagh plateau
- Joins Ganga near Fatuha
- · Causes heavy flood damage to the east of Patna city

Phalgu

- It is also known as **Niranjana**
- It is considered a sacred river and flows past **Gaya**

Waterfalls in Bihar

- Kakolat waterfall in Nawada near Jharkhand border, fall of 160 ft
- **Karkat waterfall -** in the Kaimur hills near the Kaimur Wildlife Sanctuary
- Manjhar Kund and Dhua Kund in Sasaram, utilized for power generation

Hot Springs

- Most of the Hot Springs are concentrated in Rajgir and Munger.
- Rajgir Saptdhara, Surya Kund, Makhdum Kund, Brahma Kund
- Munger Lakshman Kund, Rameshwar Kund, Gaumukh Kund, Sita Kund, Rishi Kund

Flora and Fauna

- Total forest area 7299 sq. km, 7.75% of total area (1.04% of India's forest) (IFR2017)
- Maximum forest area Kaimur district
- Minimum forest area Sheikhpura
- The total area under very dense forest is in West Champaran
- The moist deciduous forest is found in Kishanganj, West Champaran, Kaimur, Gaya etc.
- Dry Deciduous most abundant in Bihar, Kaimur, Purnia, Raxaul etc.
- Valmiki National Park -located in West Champaran, established on 2nd August 1989
- Valmiki Tiger Reserve consists of Valmiki National Park and Valmiki Wildlife Sanctuary
- **Bhimbandh Wildlife Sanctuary** Munger, south of Ganga, has several hot springs like Sita Kund and Rishi Kund, more famous for birds than land animals, established on **25 June 1976**







- Kaimur Wildlife Sanctuary Kaimur, Bengal Tigers are also found here, several waterfalls like Karkat and Telhar waterfall, the famous lake is **Anupam** Lake, established on 25 July 1979
- Gautam Buddha Wildlife Sanctuary located in Gaya and Hazaribagh (Jharkhand), previously it was private hunting reserve, established on 14 September 1971
- Vikramshila Gangetic Dolphin Sanctuary Bhagalpur stretching from Sultanganj to Kahalgaon, only protected area for Gangetic Dolphins, established on 28 August 1990
- Sanjay Gandhi Jaivik Udyan located in Patna, biological park combining a botanical garden with the zoo, established on 8th March 1983

Miscellaneous

- Total area **94,163 sq. km** (13th in India)
- Population **10,40,99,452** (3rd in India)
- Decadal Growth Rate 25.4%
- Population Density 1106
- Sex Ratio 918
- Child Sex Ratio 935
- Literacy Rate 61.8%
- Most Populated -Patna
- Least populated Sheikhpura
- Most Dense Sheohar (1880)
- Least Dense Kaimur (488)
- Largest district Area Wise West Champaran
- Smallest district Area Wise- Sheohar



