

Villages and Rural Habitations in the Son Valley Region of Bihar

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The Son River, a significant tributary of the Ganga, flows through Bihar, Uttar Pradesh, and Madhya Pradesh in India. This study focuses specifically on the sections of Bihar through which the Son River passes, with particular emphasis on the Son Valley's plains. The study area lies between 83°20' and 85° longitude and 24°15' N latitude, covering an area of 8,837.4 square kilo meters, inhabited by 5,698,235 people across 3,716 villages.

This research examines the geographic features of the Son Valley plain and their impact on the formation, distribution, types, and structure of rural settlements. The primary objective is to explore the geographical influences on settlement patterns, especially how the region's physical features contribute to rural habitation.

Geographical Characteristics:

The Son Valley has undergone various geological processes over time, and its surface morphology is the result of extensive erosion. The valley is primarily characterized by two main topographic features: the flat plains along the river and the Kaimur Plateau. The altitude of the Son Valley plain does not exceed 500 feet above sea level and gradually slopes upwards towards the south as it approaches the southern hills and plateaus. The land is primarily composed of alluvial deposits carried by the river from the southern hills.

Locally, the western regions slope towards the east, while the eastern catchment areas incline towards the west. The construction of canals has divided the plain into several smaller physical units, though the relief across these units remains largely consistent.

The Kaimur Plateau, which is separated from the rest of Bihar's plateau by the Son River, rises between 1,000 and 2,000 feet above sea level. Small streams that feed into the Son River have carved valleys, leaving isolated uplands in between. These streams, though small and irregular in flow, often create

beautiful rapids and waterfalls. The Son River, influenced by the land's slope, flows primarily towards the north, and its tributaries join from both the east and west, contributing to the development of parallel drainage systems on either side.

The region's vegetation is mainly concentrated around the Kaimur Plateau's foothills, and the climate, being part of the humid tropics, is characterized by high humidity, heavy rainfall, and warm summer temperatures. These climatic conditions, combined with fertile plains, have supported agricultural development, which is the primary occupation of the region's residents.

The study area is predominantly made up of alluvial deposits and lacks significant mineral resources, except for limestone found near the Kaimur Plateau's foothills. The region benefits from good transportation infrastructure, including railways, roads, and river navigation.

Industrial activities are mainly limited to consumer goods production, but there are some state- run factories, including the Engineering Workshop of the Public Works Department at Dehri, the Bihar Oil Mill at Dehri, and the Turbine Oil, Sugar, and Flour Mills at Nasiriganj (Shahabad District). Dalmianagar is the key industrial hub in the region, known for cement, sugar, paper, vanaspati, and soap industries.

Types of Rural Settlements:

The region has four main types of rural settlements:

- Compact Settlements: These settlements are found in areas with homogenous terrain and fertile, well-irrigated land. They tend to be small, with 40 to 150 dwellings, and make up 20.5% of the villages in the Son Valley.
- 2. Semi-Compact Settlements: These settlements, which make up nearly 30% of the villages, are characterized by a central village nucleus surrounded by several smaller hamlets. These hamlets are typically linked to the main village by footpaths or cart tracks and often consist of agricultural laborers or new immigrants.
- 3. Semi-Sprinkled Settlements: These settlements are made up of several small hamlets or individual dwellings spread over the village area. There is no clear central village, and the houses are scattered across the land, separated by fields, streams, or lowlands. This type of settlement represents nearly 20% of the villages in the northern part of the region.
- 4. **Sprinkled Settlements**: In these settlements, houses are dispersed over the entire area, with no distinct cluster of dwellings. The houses are typically separated by significant distances, which



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could range from a few yards to several hundred yards. These settlements show a high degree of isolation and are characterized by a peaceful and individualistic lifestyle.

Factors Leading to Settlement Consolidation:

Compact settlements are often the result of uniform and extensive land use in areas with fertile plains, especially where paddy cultivation is prevalent. Historically, religious beliefs and social practices have encouraged people to live together in tightly-knit communities. In these areas, caste-based divisions often played a role in social organization, with different groups residing together based on profession and social role.

Factors Leading to Fragmentation of Settlements:

In contrast, scattered settlement patterns are more common in areas where the terrain is dissected by streams, rivers, or other physical barriers that divide arable land. The availability

of water due to a high water table allows people to build wells anywhere, encouraging the construction of houses at some distance from each other. Additionally, in forested areas, people engaged in activities like woodcutting often prefer to live in isolated huts. Social factors, including caste distinctions and the existence of lower agricultural castes, have also contributed to the growth of fragmented or hamletted settlements.

Morphology of Rural Settlements:

The physical form and internal structure of rural settlements are referred to as their morphology. Most villages follow a basic rectangular or square layout, influenced by the shape of the surrounding fields. This shape is common because it allows for the most efficient use of land. In some larger villages, a grid pattern or chessboard arrangement is observed, where streets intersect at right angles and form a clear pattern of movement. Some villages, however, may have circular or semi-circular shapes, often centered around a local leader's house or a religious structure.

Linear settlements are another common pattern, where the village grows along a specific axis, such as a river or road. This occurs when geographic or cultural factors, such as the proximity of a market or road,



dictate the direction of settlement growth. The "L" or "T" shaped village patterns develop when two linear settlements meet at right angles.

Occasionally, villages may exhibit an amorphous pattern, where several small hamlets are scattered across the landscape without any clear, unified design.

Changing Settlement Patterns:

In the past, natural factors such as rivers, water bodies, and fertile land influenced the location of settlements. However, cultural factors have become more prominent in recent years. With the development of irrigation and improved agricultural practices, the middle portion of the Son Valley has witnessed a significant transformation in settlement patterns. The clearing of forests and the increase in mining activities in the Upper Son Valley have led to the establishment of new settlements. While these changes are notable in some areas, they have not significantly altered the overall settlement structure in the region.

Conclusion:

The Son Valley Plain, while physiographically diverse, shows an uneven distribution of resources. The settlement patterns, types, sizes, and shapes of rural villages are primarily shaped by physical geography and cultural factors. There are two main types of settlements— agglomerated (or nucleated) and dispersed—and within these, four distinct settlement types can be identified. There is little evidence of planned settlement development in the region, and most rural settlements have evolved according to the natural terrain and social structures. However, the need for more strategic planning and development, particularly along major roads, is becoming increasingly important

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