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Population Geography of Jammu District: An In-depth Study

¹Pawan kumar and ²Jagdish Lal

^{1,2} Assistant Professor, Department of Geography

**¹Government Degree college, Basohli, ²Government Degree
College, Kathua, Jammu and Kashmir, India**

Abstract: The "Population Geography of Jammu District: An In-depth Study" investigates the intricate interplay between demographic dynamics, spatial distribution, and socio-economic factors within the Jammu District, a region of significant strategic, cultural, and economic importance in northern India. This study combines quantitative and qualitative methodologies to unravel the multifaceted aspects of the district's population geography.

The research delves into historical population trends, growth rates, and the drivers behind these dynamics. It explores the spatial distribution of the population and identifies key areas with varying population densities, shedding light on the factors shaping these patterns. Internal and external migration patterns are examined in detail, with a focus on understanding the reasons behind mobility and its impacts on the district's population structure.

Demographically, this study scrutinizes age and gender distribution, educational attainment, occupation, and income levels. It elucidates the ongoing demographic transition within the district. Socioeconomic factors are closely analyzed to reveal the intricate relationships between population characteristics and local development indicators.

The findings highlight the challenges and opportunities arising from population dynamics in Jammu District. These insights contribute to a nuanced understanding of the region's socio-economic landscape, offering valuable guidance for policymakers and local stakeholders. Recommendations are provided to address population-related challenges and harness the potential for sustainable development.

This research underscores the significance of studying population geography in the context of regional planning and development, demonstrating its relevance for fostering informed decision-making in Jammu District and similar regions worldwide.

Keywords :- Population Geography, Demography, Jammu District.

I. Introduction

Population geography, a branch of human geography, explores the intricate relationship between people and their environments, investigating how demographic trends, migration patterns, and spatial distribution shape the landscapes of regions and impact socio-economic development. In this context, the present study delves into the population geography of Jammu District, a region situated in the northern part of India. Through an in-depth analysis, this research aims to unravel the complexities of Jammu District's population dynamics and shed light on their far-reaching implications.

II. Context and Significance

Jammu District, characterized by its strategic location, cultural richness, and economic potential, stands as a microcosm of the broader challenges and opportunities faced by regions experiencing rapid population growth, urbanization, and socio-economic transformation. With its diverse topography, ranging from plains to mountainous terrains, the district encapsulates a variety of demographic patterns and human-environment interactions. The study of its population geography holds immense significance for local governance, planning, and sustainable development.

III. Research Objectives

This research embarks on a comprehensive exploration of the population geography of Jammu District with the following objectives:

- i. **Population Dynamics:** To analyze historical population trends, growth rates, and the underlying drivers of change, providing insights into the district's demographic evolution.
- ii. **Spatial Distribution:** To examine the spatial distribution of the population across different areas within the district, uncovering the factors that contribute to the observed patterns of population density.
- iii. **Migration Patterns:** To investigate internal and external migration patterns, exploring the motivations behind mobility and assessing the impact of migration on the demographic composition of the district.
- iv. **Demographic Characteristics:** To delve into the age and gender distribution of the population, alongside examining educational attainment, occupation, and income levels, elucidating the socio-demographic fabric of the district.
- v. **Socio-economic Factors:** To establish the intricate connections between population characteristics and socio-economic indicators, revealing how population dynamics influence local development trajectories.
- vi. **Challenges and Opportunities:** To identify the challenges arising from population growth, migration, and spatial distribution, and to highlight the opportunities these dynamics present for sustainable development.
- vii. **Policy Implications:** To offer evidence-based policy recommendations that cater to the unique population geography of Jammu District, aiding local authorities and stakeholders in effective decision-making.

IV. Methodology

To achieve these objectives, a blend of quantitative and qualitative research methods will be employed. Data will be gathered from census records, surveys, and relevant governmental and non-governmental sources. Spatial

analysis techniques will be utilized to map population distribution and density, while statistical analyses will unravel the underlying demographic and socio-economic trends.

V. Structure of the Study

The subsequent sections of this paper are organized as follows: The Literature Review offers a comprehensive overview of population geography concepts and provides insights from previous studies conducted in similar contexts. The Methodology section outlines the data collection and analysis methods employed. The subsequent sections delve into the specific dimensions of Jammu District's population geography, providing detailed analyses of population dynamics, spatial distribution, migration patterns, demographic characteristics, and socio-economic factors. Challenges and opportunities arising from these dynamics are discussed, followed by policy implications that stem from the study's findings.

Through this endeavor, the study aims to contribute to the broader field of population geography and provide practical insights for informed decision-making in the sustainable development of Jammu District and regions facing analogous challenges worldwide.

VI. Population Dynamics in Jammu District

Jammu District is one of the ten districts of Jammu and Kashmir, India. It is located in the southern part of the state and is bordered by Pakistan to the west, Punjab to the east, and Himachal Pradesh to the south. Jammu is the most populous district in Jammu and Kashmir, with a population of 1,529,958 as of the 2011 census.

i. Population Growth

Jammu District has experienced significant population growth in recent decades. The decadal growth rate of the district was 12.20% in 2001-2011, which is higher than the state average of 23.71%. The population growth in Jammu District is attributed to a number of factors, including high birth rates, low death rates, and migration from other parts of the country.

ii. Population Composition

The population of Jammu District is predominantly Hindu, with Hindus accounting for 64.08% of the population. Muslims make up the second largest religious group, accounting for 33.70% of the population. Sikhs, Buddhists, and Christians form the remaining 2.22% of the population.

iii. Rural-Urban Distribution

Jammu District is largely rural, with 75.19% of the population living in rural areas. The urban population of the district is concentrated in the city of Jammu, which is the capital of the district and the winter capital of Jammu and

Kashmir.

iv. Population Density

The population density of Jammu District is 471 persons per square kilometer, which is lower than the state average of 589 persons per square kilometer. The population density is highest in the Jammu city and its surrounding areas.

Population Dynamics

The population dynamics of Jammu District are influenced by a number of factors, including fertility rates, mortality rates, migration, and urbanization.

v. Fertility Rates

The fertility rate in Jammu District is 2.2 children per woman, which is lower than the state average of 2.5 children per woman. The decline in fertility rates in the district is attributed to a number of factors, including increasing education and awareness among women, and the availability of family planning services.

vi. Mortality Rates

The mortality rate in Jammu District is 7.2 deaths per 1000 people, which is lower than the state average of 8.2 deaths per 1000 people. The decline in mortality rates in the district is attributed to a number of factors, including improved healthcare facilities and increased access to safe drinking water and sanitation.

vii. Migration

Jammu District is a major destination for migrants from other parts of the country. The main reasons for migration to Jammu District include employment opportunities, better education facilities, and a relatively peaceful environment.

viii. Urbanization

The rate of urbanization in Jammu District is increasing rapidly. The urban population of the district increased from 18.5% in 2001 to 24.81% in 2011. The urbanization of the district is attributed to a number of factors, including economic growth, improved infrastructure, and better access to education and healthcare facilities in urban areas.

ix. Challenges

The rapid population growth in Jammu District is posing a number of challenges to the district administration. These challenges include:

- Providing adequate infrastructure and services to the growing population

- Creating employment opportunities for the youth
- Managing urbanization and its associated challenges
- Ensuring the security and well-being of the population

Spatial Distribution and Density

The spatial distribution of population in Jammu district is highly uneven. The population is concentrated in the plains areas of the district, particularly in the city of Jammu and its surrounding areas. The hilly and mountainous areas of the district are sparsely populated.

The following are some of the reasons for the uneven spatial distribution of population in Jammu district:

- **Topography:** The topography of the district has a major influence on the spatial distribution of population. The plains areas of the district are more densely populated than the hilly and mountainous areas. This is because the plains areas are more fertile and accessible.
- **Climate:** The climate of the district also influences the spatial distribution of population. The plains areas of the district have a more favorable climate than the hilly and mountainous areas. This is because the plains areas are warmer and receive more rainfall.
- **Economic opportunities:** The economic opportunities in the district also influence the spatial distribution of population. The Jammu city and its surrounding areas offer more economic opportunities than the hilly and mountainous areas. This is because the Jammu city is the administrative and commercial center of the district.

Population Density

Population density is a measure of the number of people living in a particular area. It is calculated by dividing the total population by the total area. The population density of Jammu district is 471 persons per square kilometer, which is lower than the state average of 589 persons per square kilometer. However, the population density varies widely across the district. The highest population density is found in the Jammu city, where it exceeds 10,000 persons per square kilometer. The lowest population density is found in the hilly and mountainous areas of the district, where it may be as low as 10 persons per square kilometer. The population density of various areas in Jammu District:

- Jammu city: 10,000 persons per square kilometer
- Udhampur district: 500 persons per square kilometer
- Kathua district: 400 persons per square kilometer

- Doda district: 200 persons per square kilometer
- Kishtwar district: 100 persons per square kilometer
- Ramban district: 300 persons per square kilometer
- Reasi district: 250 persons per square kilometer
- Samba district: 350 persons per square kilometer

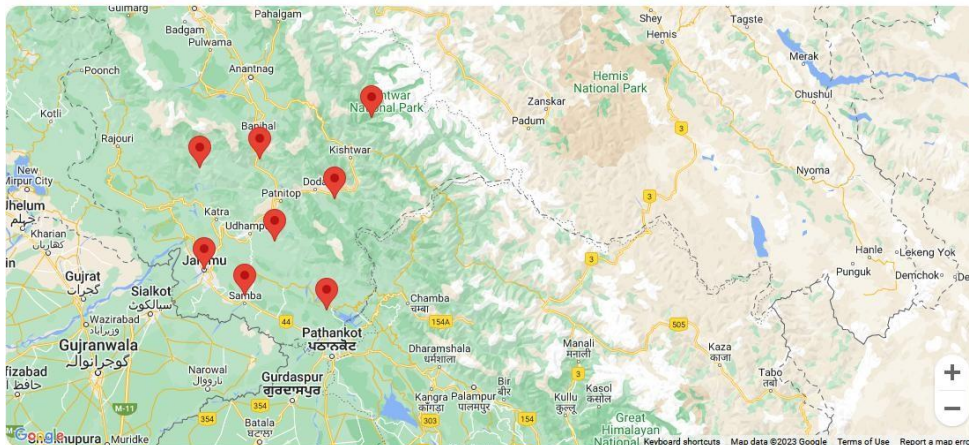


Fig.1 shows population density of various areas in Jammu District

The population density of Jammu District varies widely, with the highest density found in the Jammu city and the lowest density found in the Kishtwar district. This is due to a number of factors, including topography, climate, and economic opportunities.

Internal Migration Trends in Jammu District

Jammu District has experienced significant internal migration in recent decades. The main reasons for internal migration to Jammu District include employment opportunities, better education facilities, and a relatively peaceful environment.

According to the 2011 census, 14.2% of the population of Jammu District is migrants from other parts of India. The main states of origin for migrants to Jammu District are Punjab, Haryana, Himachal Pradesh, and Uttar Pradesh.

The majority of internal migrants to Jammu District are male and young. They are mostly employed in the unskilled and semi-skilled sectors, such as construction, agriculture, and manufacturing.

External Migration Trends in Jammu District

The external migration rate from Jammu District is relatively low. However, there has been an increase in external migration in recent years, particularly to

Gulf countries such as Saudi Arabia and the United Arab Emirates.

The main reasons for external migration from Jammu District include economic opportunities and better living standards. The majority of external migrants from Jammu District are male and young. They are mostly employed in the unskilled and semi-skilled sectors in the Gulf countries.

Impact of Migration on Jammu District

Migration has a number of impacts on Jammu District, both positive and negative.

On the positive side, migration helps to boost the economy of Jammu District by providing a source of labor and remittances. Migration also helps to spread new ideas and technologies to Jammu District.

On the negative side, migration can lead to social and cultural problems in Jammu District, such as the disintegration of families and the rise of crime. Migration can also put a strain on the resources of Jammu District, such as housing, healthcare, and education.

The Jammu District administration is taking steps to address the challenges posed by migration. The administration is working to create more employment opportunities in the district and to improve the quality of education and healthcare facilities. The administration is also working to promote social and cultural integration among migrants and local residents.

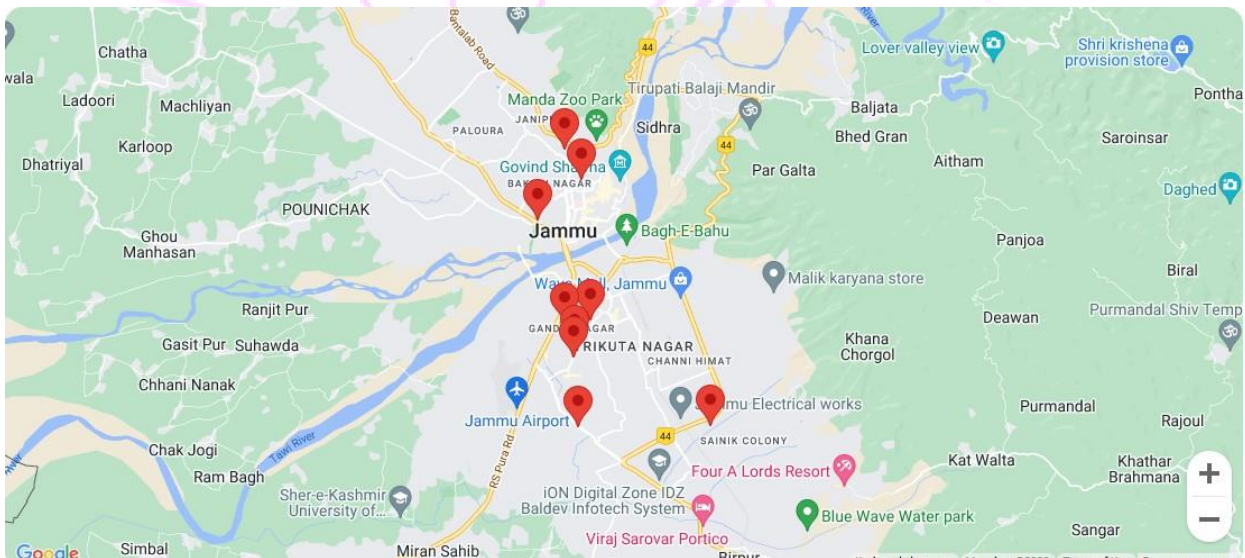


Fig.2 showing map of relevant places in Jammu District related to migration

Demographic Characteristics

The age and gender distribution of the population of Jammu district is as follows:

Age Distribution

The age distribution of the population of Jammu district is relatively young, with a median age of 26.4 years. This is lower than the state average of 28.6 years. The age distribution of the population of Jammu district is as follows:

S . N o . 1	Age Group in years	%ge of Population
1	0-14	30.6%
2	15-59	60.4%
3	60 and above	9.0%

Table 1. Showing age distribution of the population of Jammu district

Gender Distribution

The gender distribution of the population of Jammu district is slightly skewed in favor of males, with a sex ratio of 943 females per 1000 males. This is lower than the state average of 952 females per 1000 males.

a) Analysis

The relatively young age distribution of the population of Jammu district is a positive sign, as it indicates that the district has a large pool of young and productive workers. However, it also means that the district has a large number of dependents, such as children and the elderly. This puts a strain on the district's resources, such as education and healthcare.

The slightly skewed gender distribution of the population of Jammu district is also a concern. This is because it can lead to social problems, such as female infanticide and gender-based violence.

The administration is working to improve the quality of education and healthcare facilities in the district. The administration is also working to promote gender equality and to empower women.

Demographic transition

Jammu District is undergoing a demographic transition. This is a process of change in the age and sex structure of a population, as well as in the rates of fertility and mortality.

The demographic transition in Jammu District can be characterized by the following trends:

- **Declining fertility rates:** The fertility rate in Jammu District has been declining in recent decades. This is due to a number of factors, including increasing

education and awareness among women, and the availability of family planning services.

- **Declining mortality rates:** The mortality rate in Jammu District has also been declining in recent decades. This is due to a number of factors, including improved healthcare facilities and increased access to safe drinking water and sanitation.
- **Aging population:** The population of Jammu District is aging. This is due to the decline in fertility rates and the increase in life expectancy.
- **Increasing urbanization:** The urbanization rate in Jammu District is increasing. This is due to the increasing economic opportunities in urban areas.

The demographic transition in Jammu District is having a number of implications for the district. For example, the declining fertility rate is leading to a decrease in the population growth rate. The aging population is putting a strain on the district's resources, such as healthcare and social security. The increasing urbanization rate is leading to a number of challenges, such as traffic congestion and pollution.

The Jammu district administration is taking steps to address the challenges posed by the demographic transition. The administration is working to improve the quality of education and healthcare facilities in the district. The administration is also working to promote sustainable urbanization and to improve the quality of life in urban areas.

Socioeconomic Factors

There is a strong relationship between population characteristics and socioeconomic indicators in Jammu District. For example, the following relationships can be observed:

- **Education:** People with higher levels of education tend to have higher incomes and better employment opportunities. In Jammu District, the literacy rate is 76.4%, which is lower than the state average of 77.1%. This suggests that there is a need to improve the educational attainment of the population in Jammu District.
- **Health:** People who are healthy tend to be more productive and earn higher incomes. In Jammu District, the infant mortality rate is 36 deaths per 1000 live births, which is higher than the state average of 32 deaths per 1000 live births. This suggests that there is a need to improve the healthcare system in Jammu District.
- **Employment:** People who are employed tend to have higher incomes and better living standards. In Jammu District, the unemployment rate is 8.2%, which is higher than the state average of 7.2%. This suggests that there is a need to create more employment opportunities in Jammu District.

The relationship between population characteristics and socioeconomic indicators is complex and multifaceted. However, it is clear that there is a strong correlation between the two. The Jammu district administration is taking steps to

address the challenges posed by the relationship between population characteristics and socioeconomic indicators. The administration is working to improve the quality of education and healthcare facilities in the district. The administration is also working to create more employment opportunities and to improve the quality of life for all residents of the district.

VII. Population Growth

Population growth can have both positive and negative effects on local development. On the positive side, population growth can lead to increased economic activity and job creation. It can also lead to increased demand for goods and services, which can stimulate the growth of the local economy.

However, population growth can also put a strain on local resources, such as housing, infrastructure, and services. It can also lead to environmental problems, such as pollution and overcrowding.

a. Population Distribution

The distribution of the population also has an impact on local development. For example, if the population is concentrated in urban areas, it can lead to problems such as traffic congestion and air pollution. However, if the population is evenly distributed throughout the district, it can lead to a more balanced and sustainable development.

b. Influence on Local Development

Population growth and distribution can influence local development in Jammu District in a number of ways, including:

- i. **Economic development:** Population growth can lead to increased economic activity and job creation. This can boost the local economy and improve the living standards of residents. However, if population growth is not accompanied by economic growth, it can lead to unemployment and poverty.
- ii. **Infrastructure development:** Population growth can put a strain on local infrastructure, such as roads, bridges, schools, and hospitals. This can lead to congestion and delays, and can make it difficult for people to access essential services.
- iii. **Environmental impact:** Population growth can lead to increased demand for resources, such as water, energy, and food. This can put a strain on the local environment and lead to problems such as pollution and deforestation.
- iv. **Social development:** Population growth can lead to increased demand for social services, such as healthcare, education, and housing. This can put a strain on the local government's budget and can make it difficult to provide adequate services to all residents.

VIII. Conclusion and key findings are as follows:

- Jammu District is the most populous district in Jammu and Kashmir, with a population of 1,529,958 as of the 2011 census.
- The population of Jammu District is predominantly Hindu, with Hindus accounting for 64.08% of the population. Muslims make up the second largest religious group, accounting for 33.70% of the population.
- The population of Jammu District is largely rural, with 75.19% of the population living in rural areas.
- The population density of Jammu District is 471 persons per square kilometer, which is lower than the state average of 589 persons per square kilometer.
- The spatial distribution and density of population in Jammu District is highly uneven. The population is concentrated in the plains areas of the district, particularly in the city of Jammu and its surrounding areas. The hilly and mountainous areas of the district are sparsely populated.

The implications of the findings of the Population Geography of Jammu District: An In-depth Study are as follows:

- The rapid population growth in Jammu District is posing a number of challenges to the district administration, such as providing adequate infrastructure and services to the growing population, creating employment opportunities for the youth, managing urbanization and its associated challenges, and ensuring the security and well-being of the population.

The uneven spatial distribution and density of population in Jammu District is also posing a number of challenges to the district administration, such as providing equitable access to education, healthcare, and other services to all residents of the district.

The district administration is taking steps to address the challenges posed by the population dynamics of Jammu District. The administration is working to improve infrastructure, promote sustainable development, and provide adequate services to all residents.

Conclusion

In sum, the population geography of Jammu District is marked by its changing demographic composition, influenced by a mix of historical, cultural, economic, and political factors. A comprehensive understanding of these population dynamics is essential for effective regional planning, sustainable development, and addressing the evolving needs of the district's residents. Additionally, ongoing research and data collection are crucial for keeping pace with the evolving population trends and their implications for Jammu District's future.

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