Geographical Study and Population Projection of Karnataka State and Mysore District for 2021 and 2031

Sri. G. Bhojaraja
Assistant Professor of Geography
Sri D Devaraja Urs Government First Grade College, Hunsur

Abstract
This paper aims to know the total population of Karnataka state and Mysore district of 2021 and 2031 and the total population growth from 2011 to 2021 and 2031 and to know the negative and positive growth of the population. Karnataka state is vast in size and population and Mysore district is an important district of Karnataka state which is important to know the population growth. Population projection study is important for adequate implementation of plans to provide infrastructure by land pressure and population growth in Karnataka state and Mysore district. Because the population growth in Karnataka and Mysore district is positive in this paper study, this study will help to offset the pressure on housing, agricultural land and job creation which are the main needs of the people here. This paper mainly includes 2011 census data to know the population projection of Karnataka state and Mysore district and with the help of this study the total population size of Karnataka state and Mysore district between 2021 and 2031. Along with this, the importance of population projection and the resulting positive population growth will be discussed.
Keywords: Population, Projection, Census, Population Growth

Introduction

Population projection is an important subject of study used in population geography. Its main objective is to know the possible positive and negative growth in population size and growth in the future. Population projection mainly requires data from past censuses to estimate the likely future population size. It is also important to know the population composition of the area such as gender ratio, age group as well as migration rate, literacy rate etc. Population projection occupies an important position in population geography and demography with the help of which population geography and demography can be studied broadly and comprehensively. A country like India is also a highly populated country comprising several states, union territories and districts as well as rural occupation and urban populations as well as various religions, ethnicities and cultures. Thus, a country like India, which has many cultures and a large population, needs population statistics to formulate policies and plans to reach all sections of the country. It is customary in India to conduct a census every 10 years, and with the help of this data, it is customary to formulate policies for the people in the future. However, due to unavoidable reasons, the census of 2021 was not conducted in India. The census conducted in 2011 was India's base census after which the census was supposed to be conducted every 10 years, but for some reason, the census was not conducted. In such a case, India consists of many states, and districts,

which include many religions, castes, and cultures. Here the number of projects required for each district is decided based on the population's size, but we have the 2011 census data not that of 2021. Therefore, with the help of population projection, we can predict the population of India and its states and districts between 2021 and 2031 so that plans can be made to know what type of projects are required for each region. It is complementary to India's development and population projection is useful for the study of population geography and demography as well as regional planning.

Methodology

Census figures published by the Census of India have been used to prepare this paper which is purely a secondary source of data. The population projection and population growth of Karnataka state and Mysore district between 2021 and 2031 will be known by taking the data of Karnataka state and Mysore district published by census of India from 1951 to 2011 and adopting the arithmetical population projection method.

Objectives of the Study
1. To know the change in the population of Karnataka and Mysore district between 2011and 2021
2. To predict the population between 2021 and 2031 in Karnataka state and Mysore district
3. To know whether the demographic change is positive or negative in Karnataka state and Mysore district.

Need of the Study

The need for this study is also important because census is conducted in India every 10 years. But the 2011 census was the last census after which the 2021 census was due. Due to the fact that the census will not be conducted in 2021, the population projection gives the estimated population of Mysore district and Karnataka state in 2021 and 2031. With the help of this the plans required for the study area can be made according to the population size.

Importance of Population Projection
1. The state of Karnataka consists of several districts and every year it is common to experience flood or drought conditions in one or the other area. At such times demographic data of population projection is helpful to provide food supply and infrastructure according to the population of drought-prone areas or flood-prone areas.
2. Urban population is increasing in some districts of Karnataka state, especially in Bangalore city, Belgaum and Mysore districts. Population projection is helpful to know the change in population in the future to meet the increasing basic needs such as housing, water, electricity and resources.
3. It helps in building and providing basic infrastructure such as transport, connectivity, schools, colleges, health services and community centres which are essential for the growing population.
4. It is helpful to know the demographic composition of the state like age structure, sex ratio, and urban and rural population. Demographic projection helps to generate employment for the growing youth population.
5. It is helpful to know the direction and speed of migration.
6. In addition to all these factors, any planning by the government includes the objective of safeguarding the welfare of the people and planning according to the size of the population can also safeguard the welfare of the people. Hence population projection provides appropriate data.

Karnataka and Mysore District Population Data from 1951-2011 for Population Projection 2021 and 2031 (Data Source Population Census of India)
Table 01

Sl. No.	Year	Population of Karnataka	Decadal Growth of Population in Karnataka
1	1951	19401956	---
2	1961	23586772	4184816
3	1971	29299014	5712242
4	1981	37135714	7836700
5	1991	44977201	7841487
6	2001	52850562	7873361
7	2011	61095297	8244735
Total Growth of population from 1951-2011			41693341

41693341/6= 6948890.1 is the average growth rate of the population

The formula for Arithmetic population Projection is

Pn=Po+N*R

Pn= forecasted population after N decade from present known population

Po= Population of present or base year

N= number of Decade

R= growth rate of population for the year 2021 and 2031

2021= 61095297+1*6948890.1

2021=61095297+6948890.1

2021=68044187

2021 Projected population of Karnataka State is 68044187

The projected population for 2031

2031=61095297+2*6948890

2031=61095297+13897780

2031=74993077

2031 Projected population of Karnataka state is 74993077

Mysore District Population Data from 1951-2011 for Population Projection 2021 and 2031 (Data Source Population Census of India)
Table 02

Sl. No.	Year	Population of Mysore District	Decadal Growth of Population in Mysore District
1	1951	975193	---
2	1961	1137640	162447
3	1971	1460736	323096
4	1981	1827702	366966
5	1991	2281653	453951
6	2001	2641027	359374
7	2011	3001127	360100
Total Growth of population from 1951-2011			2025934

2025934/6=337655 is the average growth rate of the population in the Mysore district.

2021=3001127+1*337655

2021=3001127+337655

2021=3338782

The projected population of the Mysore district for 2021 is 3338782

The projected population for 2031

2031=3001127+2*337655

2031=3001127+675310

2031=3676437

The projected population of the Mysore district for 2031 is 3676437

Result and Discussion

Census figures published by the Government of India from 1951 to 2011 are used to know the population projection of Karnataka State and Mysore District between 2021 and 2031. Looking at the above census figures and population projections, the estimated population of Karnataka state in 2021 is 6,80,44,187. Also, in 2031, the population of Karnataka state can be estimated as 7,49,93077. The most important thing we know when we look at this population growth is that from 2011 to 2021, the population growth in Karnataka state will be 11 per cent, and from 2011 to 2031, it will grow by 22 per cent. Also, Mysore district is an important district of Karnataka state which occupies a very important place historically, geographically culturally and educationally. The district had a population of 30,01127 in the 2011 census and the population projection shows that Mysore district will have a population of 33,38,782 in 2021 and 36,76,437 in 2031. The population growth of this district is estimated to be 11 per cent from 2011 to 2021 and 22 per cent population growth from 2011 to 2031. Finally, Mysore district will contain the same percentage of population growth as Karnataka state between 2021 and 2031, which can be seen to contain positive population growth similar to Karnataka.

Conclusion

A population projection gives the figures related to the population in an approximate form which helps know the population status of an area. Census statistics of Karnataka State as well as Census statistics of Mysore district, Mysore district has a population growth modelled on Karnataka and this district is naturally prosperous. The Kaveri and Kabini basins can be found in this district and agriculture occupies an important position. Also, this district contains a large amount of forest area and cultural elements such as industries and urban and rural areas and the positive population growth is likely to create pressure on the residential area. Encroachment of agricultural land and forest areas to build new areas in the future is likely to cause environmental pollution. Hence pollution can be prevented if appropriate plans are made for the future using population projection figures to prevent future problems.

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