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## How does total population of India get affected by change in birth rate?

Isha Dhakad

[isha.dhakad7@gmail.com](mailto:isha.dhakad7@gmail.com)

NMIMS Anil Surendra Modi School of Commerce, Mumbai, Maharashtra

### ABSTRACT

India is the second largest most populated country in the world. It's said that if the population grows on the same rate India will soon become the most populated country of the world beating China. I thought to interpret that what were the changes in India's population from 2008 to 2016.

**Keywords**— Total population, States and union territories of India, Birth rate

### 1. INTRODUCTION

Population it is a growing concern in a country like India where resources are comparatively scarce than the need of the people. India has the highest population after China. Chinese government is able to curb their population by many programs like "One Child Policy" but such policies cannot be effective in a country like India. Therefore, it becomes important to understand the birth rate patterns in order to know at what rate the population is increasing. The following data depicts the birth rate and total population of states and union territories of India and their increase percentage of birth rate from 2008-2016. Let's see from the following data the changes in the population growth.

Here total population is the dependent data and birth rate is the independent data.

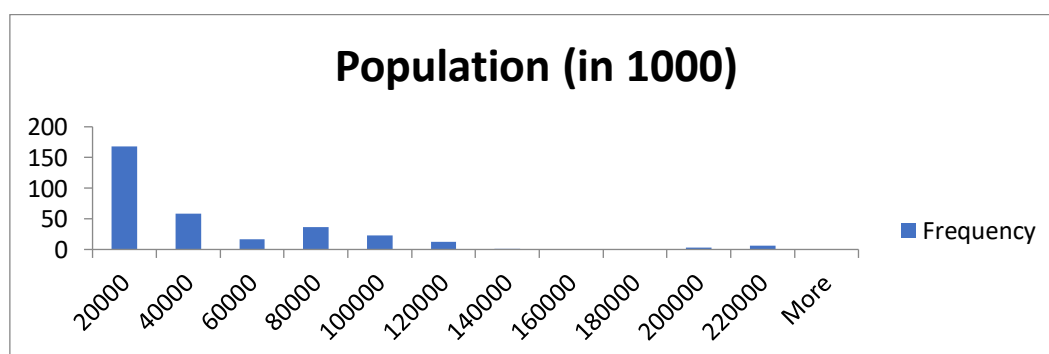
### 2. OBJECTIVES

- To understand the birth rate pattern of various states and union territories of India.
- To understand the change of birth rate on total population of the country.

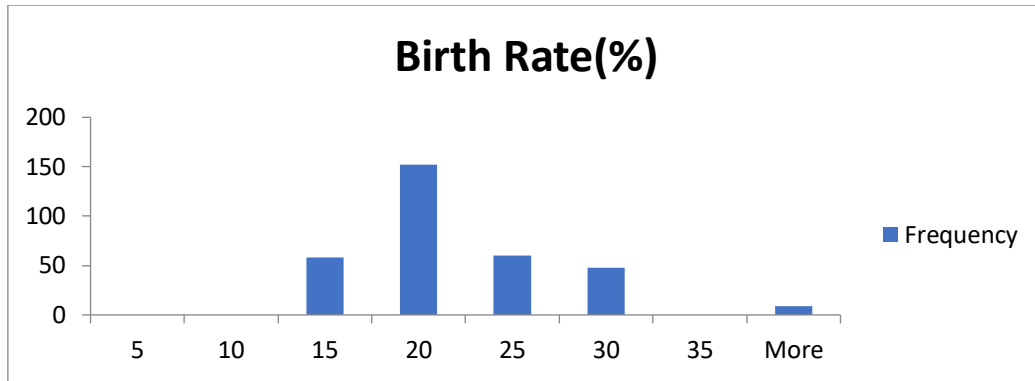
### 3. ANALYSIS

From the sample of total population and birth rate of all the states and union territories of India from the year 2008 to 2016, the correlation is 0.94 in the birth rate of the country and its impact on population. There exists an imperfect positive correlation between total population and birth rate in the states of India from 2008-2016 where total population and birth rate have a direct relationship between them.

This implies that as the birth rate of the country will increase the total population will also increase. I personally believe government should take steps to control birth rate%. According to index numbers, it shows that there is an increase in the population by 11.0585% from 2008 to 2016. This is an alarming situation because every percent increase in the population is actually an increase in the population in thousands. Regression showed that in 2016, if there was a decrease of total population by 16867, then there would have been a decrease in percentage of birth rate by 1 unit while in 2015, an increase of total population by 57242, lead to an increase in percentage of birth rate by 1 unit.



The above graph shows that on an average most of the states and union territories of India experience an increase in birth rate by 200,00,000 every year, second by 600,00,000 and then by 10,00,00,000.



The following data depicts the birth rate % increase among various parts of the country. The maximum percentage increase in birth rate among the states and union territories of India is 20% per year then 15% and 25%.

#### **4. CONCLUSION**

From the above data we can conclude that there is an imperfect positive correlation between birth rate and total population but in general there is an increase by 20% in the birth rate of various states and union territories of the country which actually leads to a minimum change of 200,00,000 per state or union territory. It is an alarming situation and measures should be taken to control it.

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