

POPULATION DENSITY MAP, ASSAM, 2011

METHODOLOGY

The Political map of the state has been downloaded from the Survey of India, 2011. The map was then geo-referenced in QGIS platform. The project CRS selected was EPSG: 4326, WGS 84. There were total 13 GCP points taken covering entire state and distributed homogeneously. The final mean error of the geo-referenced map was 0.126426.

The Population density data was downloaded from Population enumeration section of Census of India, 2011. The excel data was then attached to the Attribute table of the QGIS window and Properties were set to classify the density map. The Symbols of the chorocromatic map were chosen such that low density areas have light tone while dense as dark and intense tone.

COMPLEXITIES:-

The system generated density map had few classes vacant on the map. Thus, the supervised technique was used to manually classifying the intervals leaving no class vacant.

The labels of few districts were not visible in the Layout section due to much horizontal orientation of the state as compared to vertical. So, manually the left-out districts has been marked.

APPLICATION/USES

The population density is one of the best way to show how population is distributed over regions. This map can be utilized for various purposes as mentioned below :

- 1- The map can be used to showcase and compare the population density in all the districts of Assam and state as a whole.
- 2- In order to compare the population density variation of any individual district as a study area (eg- Dispur) with that of other districts of the state.
- 3- The map can be used to find a co-relation with other demographic and physical characteristics map like Population density and Relief etc
- 4-The map can be used to showcase the changes in population density of various district over two or three time period eg- 2001, 2011 and 2021 (once data released)
- 5- The map can be utilized by officials and urban planning department of service providers eg- More densely populated area needs more PHCs etc.
- 6- The map helps relief groups to responds to natural disaster.
- 7- The population density map can be used to study the impact of urbanization on Climate change.