POPULATION DYNAMICS OF KANNUR COAST, KERALA

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ABSTRACT

The coastal systems of the world are crucially important to humankind and are under ever-increasing threat from activities within and outside the coastal zone. While human dependence on coastal systems has greatly increased in the last centuries, the impacts on the ecology of these habitats have become so severe that their productivity and functioning have been altered, mostly in the last few decades. The coastal stretch of Kannur district in Kerala consist of nine panchayats, two municipalities and a corporation, making up 12 administrative units. The coastal zone of Kannur district runs for about 82 km, which is the longest in the state. The motive of the study is to analyse the difference between district density and state density and also the change in occupational structure of the people in the area. By analysing various data collected from, secondary sources like Government of India Census report 2001 and 2011, Panchayat Level Statistics of Kannur District 2001 and 2011, Natural Resource Data Bank of Kannur District 2011, Official websites of Panchayats and Municipalities, it is found that both in main and marginal workers, the cultivators and agricultural labourers has decreased. The number of administrative units show increase is more than which have shown decrease, but the number of people who left land related jobs is more than who have come into the ‘fields’ for the past ten years. Madayi panchayat has been identified as a ‘trend setter’ in the outflow of cultivators and agricultural labourers. In case of marginal workers also Madayi panchayat shows a decrease in cultivators and agricultural labourers.

Key words: Coastal area, Cultivators, Agricultural Labourers.

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INTRODUCTION

Coastal zone in hydrographic terms, ‘the area on both sides of the actual land water interface, where both territorial as well as marine environment influences each other. In addition interaction between natural processes and human activities are important factors in the coastal area. The coastal zone show high population density with large number of urban conglomeration and in consequence, a fast population growth. Again as a consequence, coastal zones are characterized by a high concentration of economic and, in particular, industrial activities with all the resulting problems of resource consumption, waste management and technological risk. In addition, coastal zone is also the recipient of all water borne waste streams, primarily attributable to agriculture, its fertilizers and agrochemical and all treated and un-treated waste water the hinterland produce in their respective catchments (Kesava Ramprasad, 2006).

Study Area

Kannur district came into existence on 1st January 1957. Under the revenue system the district is divided into 3 taluk viz, Taliparamba, Kannur and Thalassery. Out of 129 villages, 47 villages are in Taliparamba Taluk, 34 villages in Kannur Taluk and 48 villages in Thalassery taluk. The district lies between the North latitudes 11° 40’ and 12° 48’ and the East longitudes 74° 52’ and 75° 56’ Kannur district consist of 4 sub-micro regions namely Cannanore coast, Peringome-Mattannur undulating upland, Taliparamba-Koothuparamba plain and Kannoth forested hills. Cannanore coast lies as a narrow coastal strip on the western sides of the district. This micro region stretches through 4 municipalities, 7 blocks and 29 panchayats over a length of 82 km out of 590 km coastline of Kerala, from Thalassery to Ramanthali. Within this length the coastal area keeps a diversity of landforms from sandy beaches to rocky cliffs. There are rocky outcrops seen in Thalassery at the southern part, hard driving beach at Muzhippillangad, Cliff at Payyambalam, a spit at Kavvayi, rocky outcrops at Ettikalum. Besides the natural eustatic change, the area is disturbed with south west monsoon, narrow coasts, presence of mid lands upto the coast, river outlets which may be the reasons for the natural change of landforms. Valapattanam River, Ancharakandy River and Mahe River are the major rivers which flows through the coastal area and empties into the Lakshadweep Sea. As per the 2011 census the total population of Kannur is 2523003 which is about 7.56% of the total state population. Kannur district have nine coastal

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panchayaths which are New Mahe, Dharmadom, Muzhippilangad, Edakkad, Pallikunnu, Azhikode, Mattool, Madayi and Ramanthali and Thalassery Municipality and Kannur Corporation. The density of population in these panchayats, the activities by the people and the stress exerted by these on the area namely infrastructure and tourism may cause the alteration of landforms in a rapid rate than its natural change over time. The facilities enjoyed by the people in these regions are also analysed and their problems are also need to be studied.

METHODS AND MATERIALS

Secondary data is used for the study. The population, growth of population, socio-economic status of the people in the coastal panchayats is been obtained from Census Report of 2001 and 2011, Panchayat Level Statistics, Kannur district(2011) and Natural Resource Data Bank, Kannur District (2001). Population aspects like change of population, growth rate and density of population is studied.

Analysis and Results

The population aspects like population in 2001 and 2011, growth rate of population, density of population, tourism centres in the coastal panchayat etc. have been analysed and it shows that: There is a slight increase in the population over the last ten years in the coastal panchayats of Kannur district. All the panchayats have shown a slight increase in the population, while Thalassery Municipality is the only place we can see a decrease in the population. The population of Kannur Corporation shows a hike of upto 400% but according to the census, the revised definition of urban agglomerations in Kerala led to results for 2011 that are not comparable with previous census results and with agglomerations in other Indian states.

Population Growth Rate

The rate at which the population exceeds over a particular time affects the natural equilibrium of the region. The growth rate gives sign of the causes which may be the reasons such exceeding growth rate if any. The growth of the regions shows wide disparity on a whole. If we exclude Kannur Corporation. The lowest growth rate of -0.28 is recorded in New Mahe while the highest growth rate of 1.72 is seen in Ramanthali which is followed by Edakkad with 1.23.

If we make a comparison the growth rate of Kerala state for the last decade is 0.49 and that of Kannur district is 0.47 and from the analysis it is seen that out of the 13 administrative divisions studied six of them have a growth rate of more than the district and the state.

Density of population

Density of population helps to understand how congested people really are. The density of coastal panchayats shows an increase in the time. The highest density in 2001 was recorded in Thalassery Municipality which is followed by Pallikunnup and New- Mahe whereas the lowest density is recorded in Ramanthali panchayat. (Fig. 4) While considering the density in 2011, the highest value is seen in Pallikunnu followed by Thalasseri Municipality which is the only division that shows a decline in the density. The lowest density (857.31) is recorded in Ramanthali panchayat, which stands odd with respect to other divisions which show density more than 1300.(Fig. 4) The density of the coastal panchayats show a huge difference with respect to the district density and state density. It means that, in general the coastal area is accommodating more than two times density that of the state. Kannur coastal area has a diverse nature as there is rocky outcrops and platforms in the south (Thallasseri beach), while moving north there is hard
driving beach at Muzhipilangad, a cliff at Payyambalam, a lot
spit at Kavvayi, and again rocky outcrops at Ramanthali-
Ettikulam beach.

Beaches like Kavvayi, Ramanthali, Pazhayangadi etc are the
new spots whose tourism potentialities are explored in the last
decade. The infrastructures made for the tourism purpose is
also not less in number. The beach park opened at
Pazhayangadi recently is the latest one.

Main workers

Main Workers in the study area show both increase and
decrease. Ramanthali and Payyannur shows high rate of
increase along with Dharmadom, Edakkad, Madayi, Mattool,
Muzhipillangand and New-Mahe. The interesting result is that
Thalassery and Kannur Municipalities show a decrease in the
main worker population along with Azhikode panchayath (Fig. 5). Cultivators have increased in seven administrative
divisions whereas in four divisions the number of cultivators
have decreased decadally and one division (Kannur Municipality) shows no variation.

Table 1. Population- Coastal panchayats, Kannur District

<table>
<thead>
<tr>
<th>Name of Panchayat</th>
<th>Population 2001</th>
<th>Population 2011</th>
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</thead>
<tbody>
<tr>
<td>Ramanthali</td>
<td>21937</td>
<td>25711</td>
</tr>
<tr>
<td>Azhikode</td>
<td>45951</td>
<td>47323</td>
</tr>
<tr>
<td>Dharmadom</td>
<td>29162</td>
<td>30804</td>
</tr>
<tr>
<td>Edakkad</td>
<td>36358</td>
<td>40818</td>
</tr>
<tr>
<td>Madayi</td>
<td>34979</td>
<td>35888</td>
</tr>
<tr>
<td>Mattool</td>
<td>26086</td>
<td>27806</td>
</tr>
<tr>
<td>Muzhappilangad</td>
<td>21949</td>
<td>23709</td>
</tr>
<tr>
<td>New-Mahe</td>
<td>16789</td>
<td>16303</td>
</tr>
<tr>
<td>Pallikkunnu</td>
<td>26965</td>
<td>27820</td>
</tr>
<tr>
<td>Thalassery municipalit</td>
<td>99387</td>
<td>92558</td>
</tr>
<tr>
<td>Payyannur Municipalit</td>
<td>68734</td>
<td>72111</td>
</tr>
<tr>
<td>Kannur Corporation</td>
<td>498207</td>
<td>1640986</td>
</tr>
<tr>
<td>Kannur District</td>
<td>2408956</td>
<td>2523003</td>
</tr>
<tr>
<td>Kerala</td>
<td>31841374</td>
<td>33406061</td>
</tr>
</tbody>
</table>

Though the number of cultivators increases in seven
administrative units, the total number is actually decreasing.
That means the sum of people who come to the fields in
the whole area is more that 200% of loss of people in the fields.
The condition of Agricultural Labourers is same as that of
cultivators. The number of people who left the field is higher,
even though eight out of twelve administrative divisions show
an increase decadally. Muzhippilangad and Thalasseri have the
highest values meanwhile Madayi with a decrease of 318
people from agriculture shows the sign of people’s withdrawal
from the field. Majority of the area shows an increase in other
workers. Payyannur Municipality has the highest number of
workers while Kannur has the lowest. Payyannur recorded a
decrease in the cultivators and household industry workers,
which shows a trend in the activities of people. The same trend

Table 2. Density of population, Coastal zone, Kannur district

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ramanthali</td>
<td>29.99</td>
<td>21937</td>
<td>25711</td>
<td>731.47</td>
<td>857.31</td>
</tr>
<tr>
<td>Azhikode</td>
<td>16.04</td>
<td>45951</td>
<td>47323</td>
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<td>Dharmadom</td>
<td>10.68</td>
<td>29162</td>
<td>30804</td>
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<tr>
<td>Edakkad</td>
<td>18.5</td>
<td>36358</td>
<td>40818</td>
<td>1965.29</td>
<td>2206.37</td>
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<td>Madayi</td>
<td>16.71</td>
<td>34979</td>
<td>35888</td>
<td>2093.29</td>
<td>2147.69</td>
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<tr>
<td>Mattool</td>
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<td>26086</td>
<td>27806</td>
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<td>2168.95</td>
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<td>21949</td>
<td>23709</td>
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<td>New-Mahe</td>
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<td>16789</td>
<td>16303</td>
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<tr>
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<td>27820</td>
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<td>92558</td>
<td>4148.03</td>
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<td>54.63</td>
<td>68734</td>
<td>72111</td>
<td>1258.17</td>
<td>1319.98</td>
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<td>498207</td>
<td>1640986</td>
<td>6824.75</td>
<td>22479.26</td>
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<td>Kannur District</td>
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<td>2408956</td>
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<tr>
<td>Kerala</td>
<td>38862.87</td>
<td>31841374</td>
<td>33406061</td>
<td>859.58</td>
<td>859.58</td>
</tr>
</tbody>
</table>
Marginal workers

Marginal Workers in the coastal administrative divisions of Kannur District has increased in five divisions (Azhikkode, Dharmadom, Ramanthali, Edakkad and Thalasserri...
municipality) while all other administrative divisions show a decrease in marginal workers. Thalassery recorded the maximum increase, while Payyannur municipality has the maximum decrease. (Fig. 6) Just like main worker population, cultivators in Madayi panchayat records the maximum loss in the decade. Payyanur municipality also records a decrease which seems to be normal with the condition of a town. The interesting thing is that Thalassery recorded more than 4 times increase in the number of cultivators decadally.

Agricultural labourers had a mixed response to the job in the past decade. The number of people increased in certain areas like Azhikkode, Edakkad and New-Mahé and Thalassery meanwhile areas like Payyannur, Ramanthali, Madayi show decrease in number. Household industry workers have increased in Thalassery, Ramanthali and slightly in Madayi and decreased in the rest of areas where Payyannur and Azhikkode show a great variation. People who have come into other workers group is high in Thalassery, Azhikkode, Edakkad and Ramanthali while in all other places the number is decreasing. If we consider the whole marginal workers population, Madayi panchayat has a decrease in cultivators, agricultural labourers and others workers and a very slight increase in household industry workers. Thalassery municipality shows a tremendous increase in all working classes in the decade. But the number of total marginal workers have also increased by almost 400% and the proportion of people in each working class seems to be natural. But the case of Madayi seems not natural or normal as the cultivators have decrease by more than 400%.

RESULTS AND DISCUSSIONS

On a whole the area where the highest number of people who actually left the land related jobs (cultivators and agricultural labourers) in case of both main and marginal workers is Madayi panchayat. The density of Madayi panchayat has increased from 2034 in 2001 to 2147 in 2011 and the growth rate is 2.6 in 2011 which is slightly below the average growth rate of the study area. The percentage of main workers in Madayi panchayat in 2001 was 5.8% and has slightly decreased to 5.7% in 2011. Percentage of cultivators in 2001 was 15.12, which has drastically decreased to 5.8 in 2011 and agricultural labourers have decreased from 13.72% to 5.02% which is highly alarming. Household industry workers has also decreased from 6.32% to 4.54%. The only increase is recorded in the percentage of other workers from 3.16 to 5.81, which can be considered as a slight increase as compared with the rest of working classes. The condition of marginal working population is not so different from main worker population. The percentage of marginal workers of Madayi to the total study area has decreased from 8.25% in 2001 to 4.36% in 2011. Cultivators’ percentages have decreased alarmingly from 20.73 to 3.21 in the past ten years. Agricultural labourer percentage has decreased from 5.41 to 2.05, household industry worker percentage from 3.49 to 4.71 with a slight increase and other workers from 8.47% to 4.66% is the current trend of marginal workers population in Madayi panchayat, in percentage with respect to the rest of study area. The statistics gives a clear information that cultivators and agricultural labourers have decreased alarmingly in both main and marginal workers in Madayi panchayat. But the interesting fact is that the loss of workers from these classes is not balanced by increase in household industry workers and other workers, which are also showing variations from the natural increase or decrease. This suggests that the loss of workers from direct land related activities in Madayi panchayat is not a sign of natural process of social upgradation. Madayi panchayat has been identified as a ‘trend setter’ in the outflow of cultivators and agricultural labourers. The interesting thing is that, irrespective of upgrading their jobs to the next level, that is household industry which is a usual process, the majority of people who left the field has gone to the other workers’ group. In case of marginal workers also Madayi panchayat shows a decrease in cultivators and agricultural labourers. Unlike main workers, in marginal workers the people who left the field

Fig. 6. Marginal Workers, Coastal zone, Kannur district
have not been fully upgraded to household industry workers or other workers.

REFERENCES


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