



**Government of Kerala**



*PROVISIONAL REPORT  
ON 9<sup>th</sup> AGRICULTURAL CENSUS-(PHASE-I)  
2010-11*

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**Department of Economics and Statistics**

**Government of Kerala**

[www.ecostat.kerala.gov.in](http://www.ecostat.kerala.gov.in)

**2013**



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## **PREFACE**

*In view of the imperative need for detailed data on structure and other characteristics of Agricultural Holdings, Ministry of Agriculture, Department of Agriculture and co-operation, Government of India decided to conduct quinquennial Agriculture census since 1970-71 in collaboration with state governments and Union Territories in conformity with the concepts & definitions used in world Agriculture census. For Agriculture census the land which is actually cultivated/operated by a person/group of persons/institution is considered as a basic unit of enumeration and the expression "Operational Holding" is used collection of data.*

*The 9<sup>h</sup> Agriculture census was carried out in Kerala during 2010-11 as the reference year. The field work was done by the investigators of the department supervised by the officers of the department. The data processing was done by the computer division of the Directorate.*

*The provisional results of 9<sup>th</sup> Agriculture Census phase I 2010-11 in the state are presented in this report. The first 2 chapters contain introduction, concepts, definitions methodology. Results are presented with summary findings analytical notes, tables, etc in chapter III. I would like to appreciate the efforts put in by the Agriculture Census division for bringing out this publication. Sri.M.Narayanan, Assistant Director had taken the responsibility of preparing the report with the help of Smt.S.C.Soni and Sri.P.k John, Research Assistants and, Sri.B.Nadirsha, Statistical Assistant Grade.II, Smt.Sreelatha K.V, CA of Agriculture Census division under the guidance of Sri.T.Gorkey Jose, Additional Director and Sri.A.Rajan, Joint Director & State Technical officer of Agriculture Census.*

*I hope that this publication is capable of throwing light on the structure and pattern of agriculture in the state which in turn helps the planners, policy makers, decision makers, researchers etc.*

*Suggestions, if any are most welcome.*

Thiruvananthapuram  
6/2/2013

**Sd/-  
V.Ramachandran  
Director**

## **CHAPTER-1**

### **INTRODUCTION**

Government of India have been conducting Agriculture census once in five years regularly since 1970-71, following the broad guidelines of the World Agricultural Census. World Agriculture Census is conducted by the FAO of United Nations. Agricultural Census is a large scale statistical operation for the collection and compilation of quantitative information about the structure of agriculture in the country. An agricultural operational holding is the ultimate unit for decision making for development of agriculture at micro level. So an operational holding is taken as the statistical unit of data collection for describing the structure of agriculture.

Agriculture Census is implemented in three distinct Phases which are statistically linked together . Each Phase focus on different aspects of Agricultural Statistics. First phase consists of listing of operational holdings with area and social characteristics of holders. Details of Agricultural characteristics of holding are collected from selected wards in the second phase . In phase 3, data on input use pattern are collected from selected holdings in selected wards. Thus the whole operations of Agricultural Census in India is not really a complete Census. In fact it is a combination of census and Sample Survey.

The first comprehensive country wide Agriculture Census was organized in India by the Ministry of Agriculture during the year 1970-71 which was followed by reference years 1976-77, 1980-81, 1985-86, 1990-91, 1995-96, 2000-01, 2005-06 and 2010-11. This report relates for the 9<sup>th</sup> Agriculture Census 2010-11. This is a 100% centrally sponsored scheme.

### **The main objectives of the Census are as follows.**

1. To describe Agricultural Statistics and related characteristics of agriculture by providing statistical data on operational holdings, including Land utilization, Live Stock, Agricultural machinery and implements, Use of chemical fertilizers etc.
2. To provide data needed for formulating new agricultural development programmes and for evaluating the progress.
3. To provide basic frames of households and operational holdings for carrying out future surveys.
4. To lay down a basis for developing an integrated programme for current Agricultural Statistics.

As in the former Census the mode of sample survey (Simple Random Method) is used in this round also.

### **Approach for Data Collection**

The basic unit for collecting data on Agricultural Statistics is the operational holding ie, the holding of the actual cultivator who need not be the owner is the unit for collection of data. As comprehensive land records are not available in the non land record states like Kerala the required data would be collected from the operational holders through sample surveys by adopting enquiry method. The data is collected from the operational holders in selected wards in the prescribed schedules by visiting every house holds/institutions.

## **Schedules**

The following schedules are used for the conduct of Agriculture Census.

Schedule L1 : List of Households and operational holdings in the sample ward.

Schedule L2: List of Institutional holdings in the sample ward  
(complete enumeration in the sample ward).

Schedule L3: Ward summary.

Schedule L4: List of operational holdings in the sample ward and sample selection  
of holdings.

Schedule T1: Abstract of Number and Area of operational holdings by different size  
classes classified according to sex wise, social group wise Individual  
/Joint/Institutional wise.

Schedule SS: Sample Selection Summary.

Schedule H : Particulars of Operational Holders.

## **Item coverage**

Data on the following main aspects were collected during the Agriculture Census with the agriculture year 2010-11 (July 2010 to June 2011) as the reference year. During Phase 1, viz, the listing phase, data on number and area of operational holdings according to prescribed size classes for different social group and sex were collected. In the 1<sup>st</sup> phase, data on basic agricultural infrastructure available in the sample wards were also collected. In Phase 2, which is the main census operation, though only for selected holdings in the selected wards, the data on the following five aspects were collected.

1. Dispersal of holdings
2. Tenancy
3. Land utilization
4. Irrigation status and Source wise area irrigated
5. Crop wise area irrigated

All the data were compiled separately for the operational holdings of four groups, viz., Scheduled Caste, Scheduled Tribes, Others and Institutional, and also for the total of this groups. The Priority Table-1, which related to Number and Area of holdings by various size classes was prepared sex wise, social group wise and individual; joined, institutional wise.

### **Sampling Design**

A stratified two stage sampling design is recommended for Agriculture Census in the non-land record states. In view of the increasing demand for Agricultural Census data at Block level, it has been decided that the community Development Block or some other similar homogeneous administrative units (Municipality and Corporation) should be taken as stratum. The first stage unit within the stratum will be the ward and the second stage unit will be the operational holdings.

For the 2010-11 census a stratified two stage sampling design was recommended in the non-land record states like Kerala. The stratum is block. The first stage unit within that was the Panchayat ward and the second stage was the operational holdings. In view of the increasing demand for Agriculture Census data at Block level, it was suggested that the community Development Block should be the stratum in the rural area and Municipalities/Corporation in Urban area. From each stratum 20% of the wards in each block and 20% of the wards/divisions from each Municipality/Corporation area were selected using circular systematic random sampling method. A total of 3847 Wards/Divisions were selected for the survey. In each selected ward all the operational holders were listed in Schedule L1. A separate list of institutional holdings was also



prepared for each sample ward during the time of listing in Schedule L2. During the time of listing some basic agriculture information for the sample ward was also collected in Schedule L3.

For detailed survey 20% of the holdings are selected from the size class 0-246 Cents ie., below 1 ha,50% from above 1 ha,and below 10 ha,100% from 10 ha and above. Schedule L4 is used to prepare the sampling frame for the selection of the required number of holdings for collecting detailed information in Schedule H. All the institutional holdings in the selected wards were included in the sample for filling Schedule H, ie., no sampling has done for institutional holdings.

### **Primary field work**

The primary field work consists of collecting information in respect of resident cultivators in the sample wards. Non-resident cultivators are not be covered in the survey as it may be difficult to approach them. A separate list of institutional holding are also prepared for each sample ward.

### **Concepts, Definitions and Methodology**

In Agriculture Census data is to be collected on the basis of “de-facto” (by fact) position rather than “de-jure” (by right) position.

#### **1. Operational Holdings**

All land which is used wholly or partly for agricultural production and is operated as one technical unit by one person alone or with others without regard to title, legal form, size or location.

#### **2. Technical Units**

A technical unit has been defined as that unit which is under the same management and has the same means of production such as labour force, machinery and animals.

#### **3. Operated Area**

Operated area would include both cultivated and uncultivated area, provided part of it is put to agricultural production during the reference period.

The Operated area may be comprise of

- a) Land owned and self operated
- b) Land Leased in
- c) Land otherwise operated

**a) Land owned and self operated**

Land for which the cultivator has the right to permanent heritable possession would be considered as owned. This would include.

Land held from Government or others under grant or lease or assignment with right of permanent heritable possession with or without right of transfer.

Land operated under perpetual lease.

Self-operated land would include.

Self cultivation

Land cultivated through members of the family.

Land cultivated with the help of hired labour

Note: Land owned and self-operated should not include land leased out to others.

**b) Leased in**

Area leased in is defined as land taken on lease from others without any permanent right of possession for the lessee. Land may be leased in for.

- I. Fixed money
- II. Fixed produce
- III. Share of produce
- IV. Usufructuary , mortgage

Under (iv), the ownership of the property is with the mortgager but the possession is with the mortgagee (ie. The person to whom the mortgage is made or given), income from the property accrues to the Mortgagee and the mortgage is terminated as soon as the full amount is released.

### **c) Area otherwise operated**

An operational Holder is the person who has the responsibility for the operation of the agricultural holding and who exercise the technical initiative and is responsible for its operation. He may have full economic responsibility or may share it with others.

## **4. Operational Holder**

An operational holder is the person who has the responsibility for the operation of the agricultural holdings and who exercise the technical initiative and is responsible for its operation. He may have full economic responsibility or it may share with others. The operational holder may be individual/Joint/Institutional.

- I. Individual:** If the holding is being operated either by one person alone or by group of persons who are the members of the same households, it will be considered as an individual holdings.
- II. Joint:** If two or more persons belonging to different households share jointly as partners in the economic and technical responsibility for the operation of an agricultural holding, such holding would be considered as joint.
- III. Institutional:** Holding such as government farms, sugarcane factories farms, co-operative farms, lands managed by trust would be treated as institutional.

## **5) Agricultural Production**

Agricultural production includes growing of field crops, fruits, seeds, tree nurseries (except those of forest trees) vegetables and flowers, production of coffee, tea, cocoa, rubber, jute, oil seeds, fodder grass etc. If efforts is made for raising grass, it will be treated as agricultural operation.

## **6) Resident and Non-resident operational holder**

All the cultivators residing in particular Panchayat, Municipality/Corporation ward cultivating some land are resident cultivators of that sample ward irrespective of fact whether they are cultivating land within that village or outside. A resident cultivator

may have (i) entire area of the holding located in the sample ward of his residence, (ii) partly within the sample ward of residence and partly outside; and (iii) entirely outside the ward of residence.

#### **7) Complete/Part Holding**

A holding is said to be complete holding if the entire operated area of that holding is located in the same ward. If the operated area spread over in more than one ward, it would be considered as part holding.

#### **8) Wholly irrigated, partly irrigated and wholly un irrigated holdings.**

If the entire net area sown in an operational holding is equal to net area irrigated, such holding is considered as wholly irrigated holding. In case part of the net sown area is irrigated, it will be partly irrigated; and if the entire sown area has not received any irrigation during the year of reference, such holding would be wholly un irrigated.

#### **9) Land Utilisation**

Operated area would be classified in to six broad categories:

- i. Net area sown
- ii. Current fallow
- iii. Fallow land other than current fallow
- iv. Other uncultivated land excluding fallow
- v. Cultivated waste
- vi. Not available for cultivation

#### **Methodology**

The basic unit for the collection of data in Agriculture Census is the operational holding. The holding of the actual cultivator, not the owner is the unit for collection of data. The data for the entire land operated by the cultivator were collected and no outer limit was fixed for pooling all the parcels of an operational holding. As there are no comprehensive land records in the non-land record states, like Kerala, the required data were collected through sample survey by adopting enquiry method, from the operational holders of the selected sample wards.

## **Limitations**

The main problem encountered during the analysis of data was under reporting. This was visible in the area reported under the operational holdings as well as under various crops. This is mainly due to the enquiry method adopted for the survey. The cultivators, the majority of them not keeping any account, were furnishing information from their memory. This resulted in incorrect information especially in the case of fertilizers and pesticides, crops for different seasons for the year etc. Any how much care has been taken in collecting correct information through probing by investigators. The ceiling provisions of an individual family under the Kerala Land Reforms Act were another reason for under reporting by the holder of the land. In the case of mixed cropping pattern, area under cultivation of different crops can be written only by counting the number of trees and then converting the same into area using standard conversion factors. This trend of under reporting is a common feature in a census of this type since it is the only method of collection of data at micro level at lesser cost Data can be made use of after giving proper allowance to the estimates knowing the limitation and deficiencies of the census data.

**CHAPTER – II**  
**9<sup>th</sup> AGRICULTURE CENSUS**

The Ninth Agriculture Census 2010-11 was conducted in Kerala during the period August 2011. The field work of the 9<sup>th</sup> census was carried out by the investigators of the Economics and statistics department. The whole census operations were supervised by the nucleus staff at state headquarters consisting of

|                                |   |
|--------------------------------|---|
| Joint Director                 | 1 |
| Assistant Director             | 1 |
| Administrative Assistant       | 1 |
| Research Assistant             | 2 |
| Confidential Assistant         | 1 |
| Typist                         | 1 |
| Statistical Assistant Grade-I  | 1 |
| Statistical Assistant Grade-II | 1 |
| Peon                           | 1 |

Government of Kerala vide GO(Rt) No. 201/11/plg dated 30.06.2011 had issued, sanction for the implementation of this Centrally Sponsored Scheme with 100% Central Assistance. The field work of I Phase of the Census was completed by 2011. The tabulation and processing of data was done in the computer division of the department. The personnel from the Agricultural Census division had rendered all assistance during data entry work especially during concurrent clarification of doubts regarding filled in schedules. The first sets of tables were forwarded to Government of India by march 2011.

The Table I - Number and Area of operational holdings by size class were approved by the Government of India by the last quarter of 2012. The final Table I are generated block wise, district wise and for the state for all the social groups Institutional and scheduled caste, scheduled tribes and other categories separately.

## **Field organization at State Level**

The field work was done by the Investigators of this Department. Statistical Inspectors/Taluk Statistical Officers/Additional District Officers/Price Supervisory Officers and Deputy Directors of the districts provided the leadership at the district level under the technical guidance from the Head Office.

Before the commencement of the 2010-11 census, intensive training was given to all personnel involved in the field work. Wide publicity through media was also given for dispelling the fear of the farmers that they can furnish correct information to the enumerators. It was also made clear that individual information about operational holding would not be released. For the accuracy of the data intensive periodical inspections were conducted by the supervisors. Senior officers from headquarters also conducted intensive inspection.

The tabulation of the census data was done in the computer division of the department. The Senior Officers of the scheme provided necessary technical guidance in this regard. The concept and definitions adopted for the conduct of the census with detailed explanation have been included in instructions to the Investigators prepared in Malayalam. Analysis of data has been made separately for Scheduled Caste, Scheduled Tribes and other categories

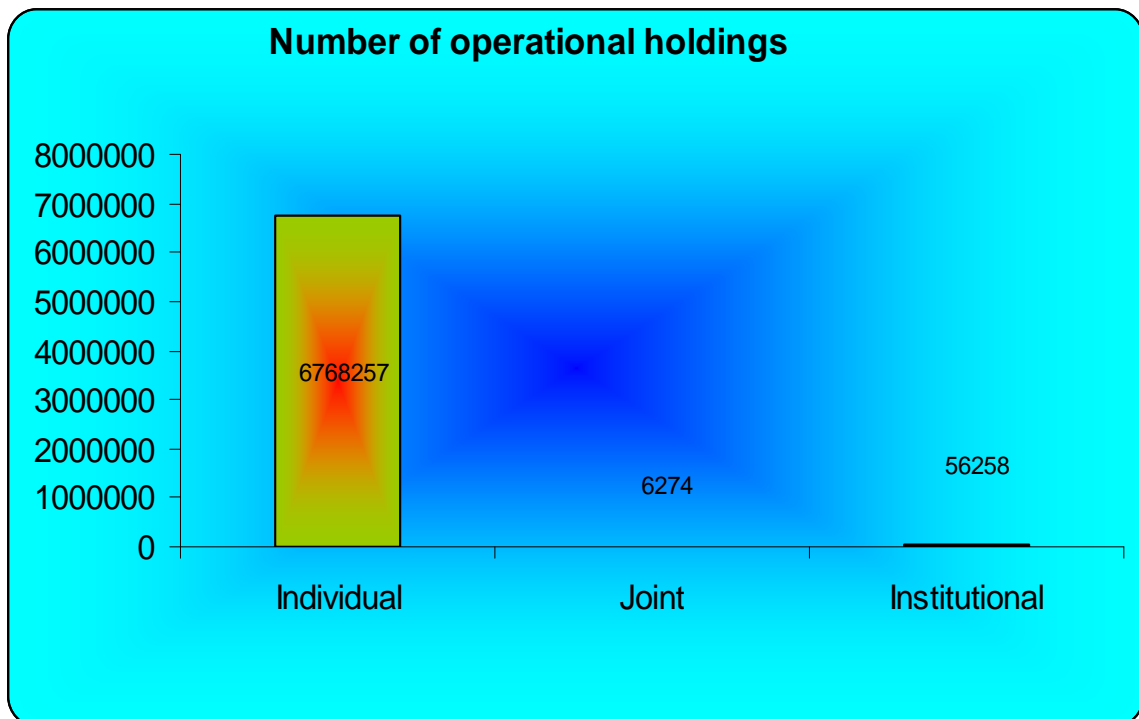
### CHAPTER III

#### RESULTS OF THE CENSUS

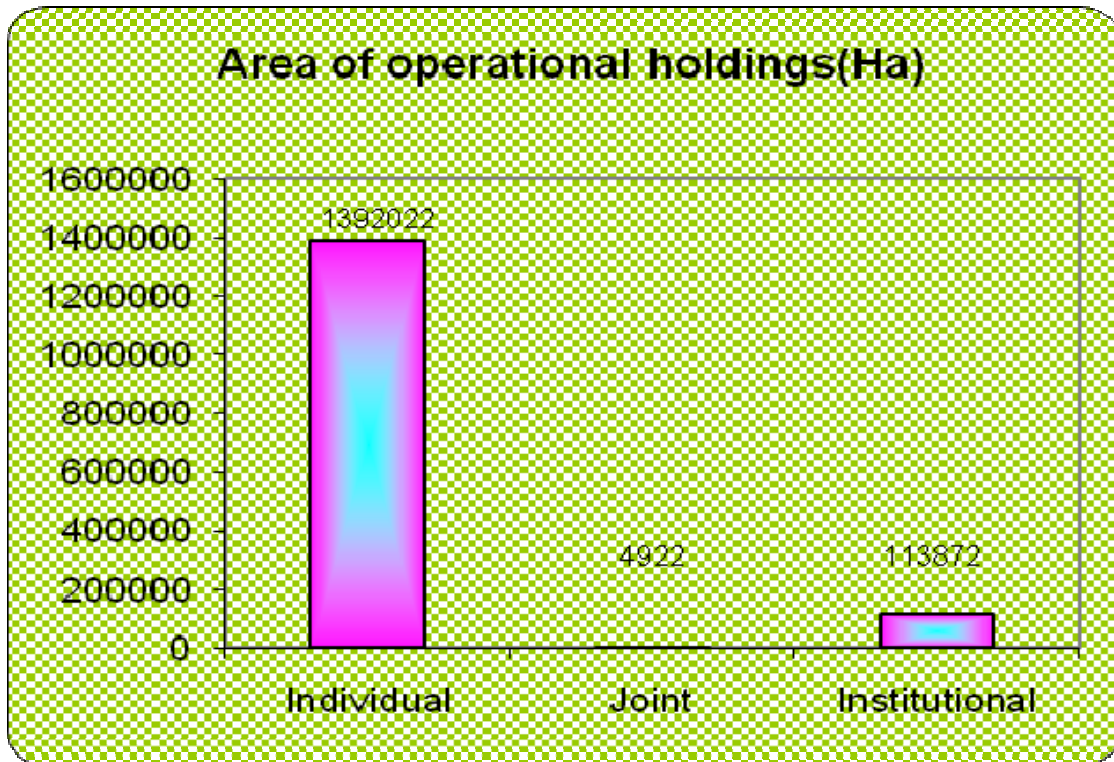
According to the Agricultural Census 2010-11 the total number of operational holdings in Kerala has been estimated 68.31 lakhs out of which individual holdings accounted for 67.68 lakhs. This accounted for 99.08%. The remaining 0.92% are institutional and joint holdings. There are 6274 joint holdings reported during 2010-11 census.

**Table-I**

| Type of operational holdings | No. of operational holdings | Area operated (Ha) |
|------------------------------|-----------------------------|--------------------|
| <b>Individual</b>            | 6768257                     | 1392022            |
| <b>Joint</b>                 | 6274                        | 4922               |
| <b>Institutional</b>         | 56258                       | 113872             |
| <b>Total</b>                 | 6830789                     | 1510816            |





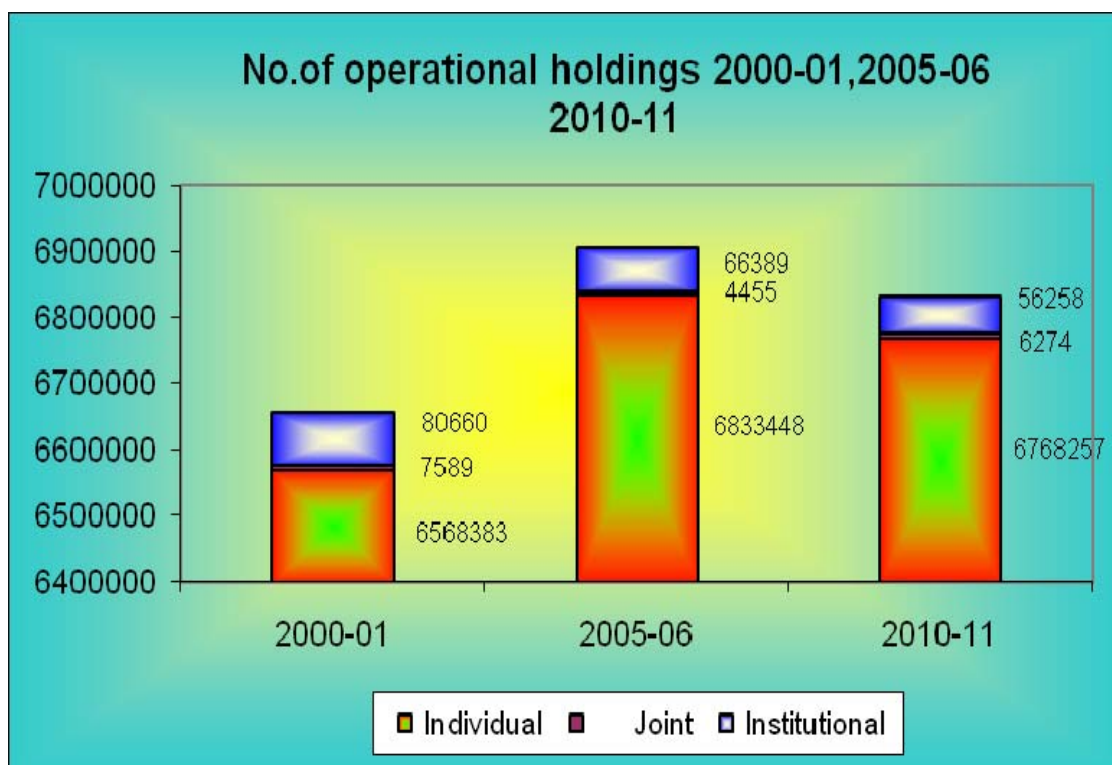


The 68.31 lakhs operational holdings accounted for an operated area of 15.11 lakhs hectares out of which 13.92 lakhs hectares were the operational area of individual holdings. Institutional holdings, accounted for 0.82% of the total number of holdings accounted for an area of 7.54% of the total operated area in the state; showing a comparatively very high average size of the holding for them. With regard to joint holdings, 0.09% of the total number of holdings, have accounted for an area of 0.33% of the total operated area in Kerala.

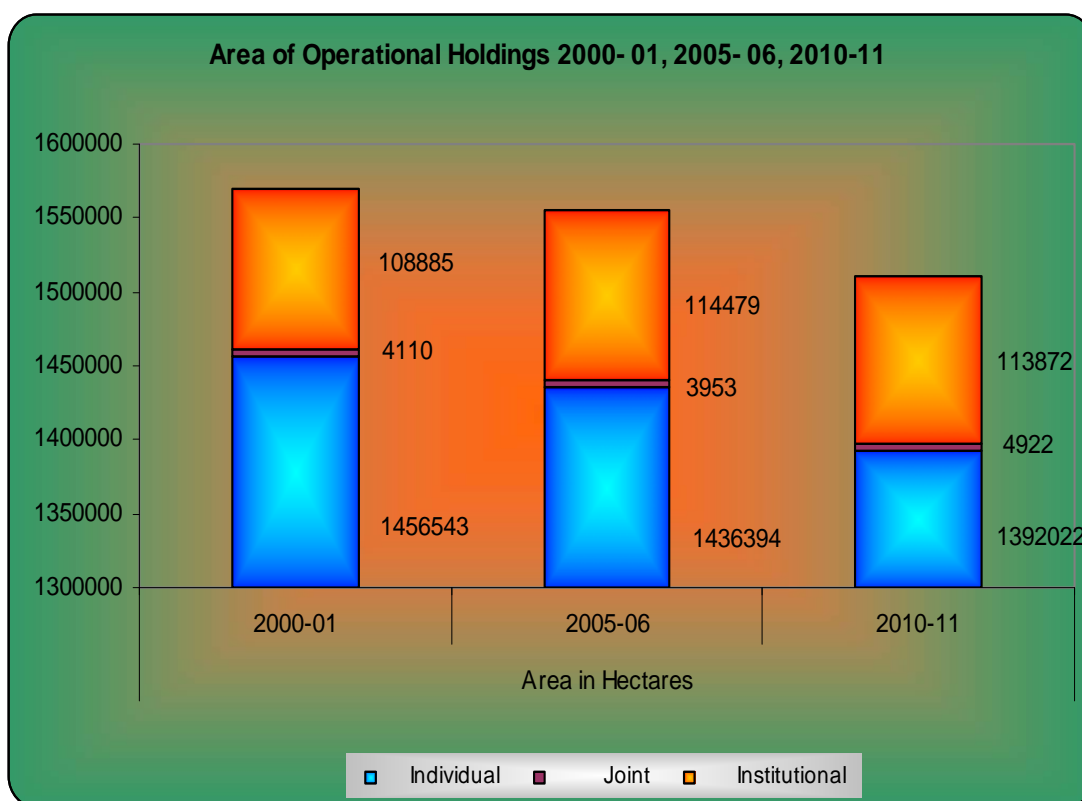
**Comparison with 2000-01,2005-06,2010-11 Census**

**Table-11**

| <b>Number and Area of Operational holdings during 2000-01,2005-06, 2010-11</b> |                                       |         |         |                         |         |         |
|--|---------------------------------------|---------|---------|-------------------------|---------|---------|
| <b>Type</b>  | <b>Number of Operational holdings</b> |         |         | <b>Area in Hectares</b> |         |         |
|  | 2000-01                               | 2005-06 | 2010-11 | 2000-01                 | 2005-06 | 2010-11 |
| <b>Individual</b>  | 6568383                               | 6833448 | 6768257 | 1456543                 | 1436394 | 1392022 |
| <b>Joint</b>   | 7589                                  | 4455    | 6274    | 4110                    | 3953    | 4922    |
| <b>Institutional</b>   | 80660                                 | 66389   | 56258   | 108885                  | 114479  | 113872  |
| <b>Total</b>   | 6656632                               | 6904292 | 6830789 | 1569538                 | 1554826 | 1510816 |



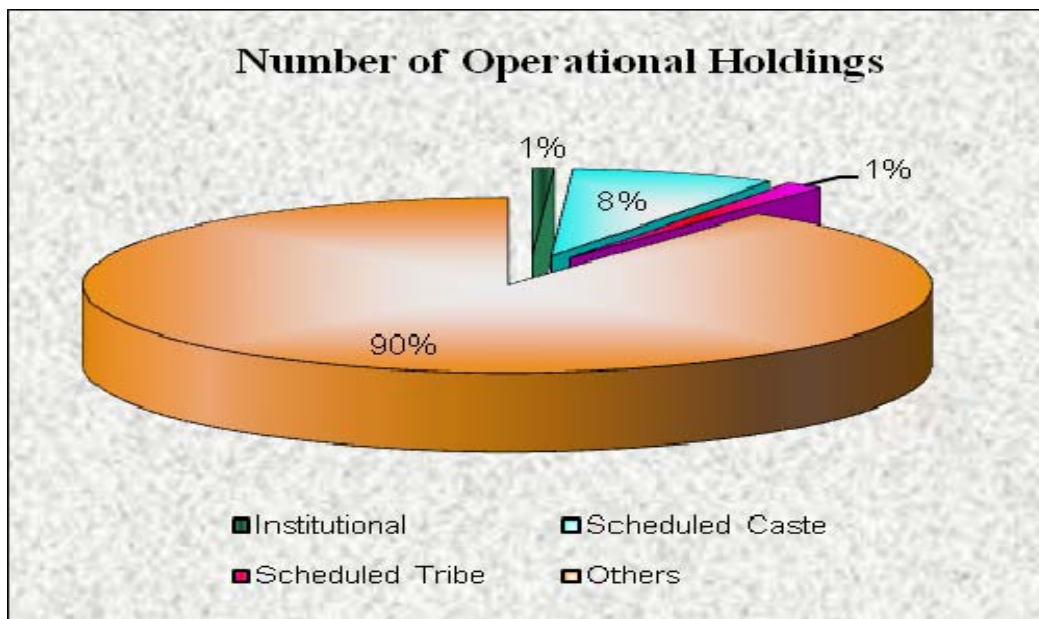
A comparative analysis of 2000-01, 2005-06 and 2010-11 Census figures shows that the total number of holdings under all categories together as increased from 66.57 lakhs in 2000-01 to 69.04 lakhs in 2005-06 and decreased to 68.31 lakhs in 2010-11 recording a percentage increase of 3.72 in 2005-06 and a percentage decrease of 1.1 in 2010-11.



As far as the number of individual holdings are concerned, the percentage increase was 4.04 in 2005-06 and a decrease of 0.95 in 2010-11. Institutional holdings are decreased by 17.69% in 2005-06 and 15.26 in 2010-11. There is a diminishing trend in area from 2000-01 to 2005-06 and from 2005-06 to 2010-11 for individual holdings.

**Table-III**

| <b>Social Group</b>    | <b>No. of Operational Holdings</b> | <b>Area Operated (Ha)</b> |
|------------------------|------------------------------------|---------------------------|
| <b>Institutional</b>   | 56258                              | 113872                    |
| <b>Scheduled Caste</b> | 532005                             | 35247                     |
| <b>Scheduled Tribe</b> | 95161                              | 34442                     |
| <b>Others</b>          | 6147365                            | 1327255                   |
| <b>Total</b>           | 6830789                            | 1510816                   |



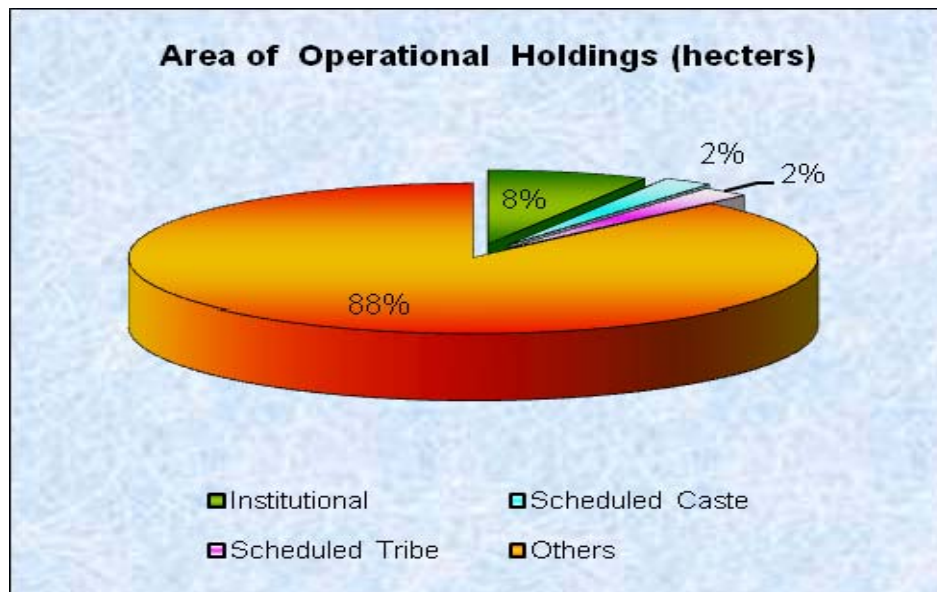
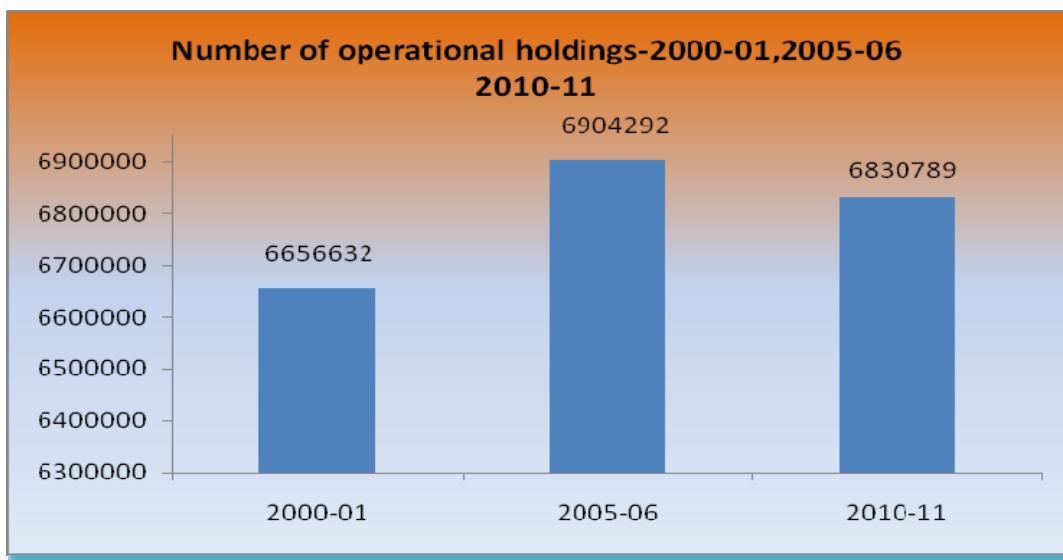


Table III reveals the fact that out of the total of 6830789 holdings 6147365 holdings are belonging to 'Others' category ie., 89.99% of the total. Only 7.79% for Scheduled Caste, 1.39% for Scheduled Tribe and 0.82% for Institutional holdings. The corresponding percentage of area are Others 87.85%, Scheduled Caste 2.33%, Scheduled Tribe 2.28% and Institutional 7.54.

**Table –IV**

**Number and Area of Operational holdings during 2000-01,2005-06,2010-11**

| Sl.no | Year    | No. of Operational holdings | Area(Ha) |
|-------|---------|-----------------------------|----------|
| 1     | 2000-01 | 6656632                     | 1569488  |
| 2     | 2005-06 | 6904292                     | 1554826  |
| 3     | 2010-11 | 6830789                     | 1510816  |



It is obvious from the above table that an increasing trend in the number of operational holdings from 2000-01 to 2005-06 and decreasing trend in 2010-11, whereas a diminishing trend is observed in the corresponding area operated.

The land holdings were classified in to 10 size classes according to size and detailed tables in respect of the estimated number and area of operational holdings have been prepared. But for detailed discussion, comparison and analysis of the census results, these 10 size classes have been grouped up to five size groups.

1. Below 1 hectare (marginal)
2. 1 to 2 hectares (small)
3. 2 to 4 hectares (semi-medium)
4. 4 to 10 hectares (Medium)
5. 10 hectares and above (large)

### **Type of holding**

Table IV 1 in the Appendix gives the distribution pattern of operational holdings under individual, institutional and joint. Out of the total holdings of 68.31 lakhs, the size group below 1 hectare account for 65.80 lakhs which is the 96.33% of the total number of holdings. The total area operated by these holdings is 885644 hectares which works out to 58.62% of the total area. The average size of the group is 0.13 hectares. Next to marginal holders, the holders in the group of small, numbering to 1.80 lakhs which is the 2.64% of the total number of holdings with an operated area of 282305 hectares which is 18.69% of total operated area with an average size class of 1.57 hectares. As in the case of past censuses, the larger size class constitute the lower number of operational holder and larger area of operational holding with average size of operational holding 64.58 hectares

## Average size

**Table-1V-1**

| Sl.no | Size class hectare    | No of Operational holders (in lakhs) | Area of Operation (hectares) | Average size of holders (hectares) |
|-------|-----------------------|--------------------------------------|------------------------------|------------------------------------|
| 1     | Below 1 hectare       | 65.80                                | 885644                       | 0.13                               |
| 2     | 1 to 2 hectares       | 1.80                                 | 282305                       | 1.57                               |
| 3     | 2 to 4 hectares       | 0.57                                 | 159075                       | 2.79                               |
| 4     | 4 to 10 hectares      | 0.12                                 | 64063                        | 5.33                               |
| 5     | 10 hectares and above | 0.02                                 | 119729                       | 64.58                              |
|       | <b>All</b>            | 68.31                                | 1510816                      | 0.22                               |

The average size of an operational holding was 0.22 hectare in 2010-11. This was against 0.24 hectare in 2000-01 and 0.23 hectare in 2005-06.

**Table IV-2**

**Average size of individual and joint holdings during 2000-01, 2005-06, 2010-11**

| Sl.no | Size class      | 2000-01 | 2005-06 | 2010-11 |
|-------|-----------------|---------|---------|---------|
|       | 2               | 3       | 4       | 5       |
| 1     | Below 1 hectare | 0.14    | 0.14    | 0.13    |
| 2     | 1.00-1.99       | 1.32    | 1.33    | 1.57    |
| 3     | 2.00-3.99       | 2.51    | 2.56    | 2.79    |
| 4     | 4.00-9.99       | 5.3     | 5.25    | 5.32    |
| 5     | 10.00 and above | 37.31   | 58.44   | 64.58   |
|       | <b>Total</b>    | 0.24    | 0.23    | 0.22    |

## Scheduled Caste

Table IV. 1 (a) Appendix reveals the number and area operated by operational holders belonging to Scheduled Caste. The details reveals that the total number of holdings in this category for all size classes decreased from 579188 in 2005-06 to 532005 during 2010-11, recording a decrease of 47183 i.e. 8.15%.

Regarding area of the operational holders of this social group, the same has decreased from, 39618 hectares to 35247, which shows a percentage decrease of 11.03%.



## Scheduled Tribe

Table IV – 1 (b) Appendix shows the number and area operated by operational holders belonging to Scheduled Tribe. The figures shows that the total number of holdings in this social group for all size classes increased from 87307 in 2005-06 to 95161 in 2010-11 recording a increase of 9%, correspondingly operated area increased from 30197 hectares in 2005-06 to 34442 hectares in 2010-11. The average size of holdings increased in this social group.

## Distribution of holdings according to social groups

Table IV 3 below gives the number and area of operational holdings according to major social groups i.e. Scheduled Castes, Scheduled Tribes and others under different size classes. The inter percentages are given in brackets.

**Table IV- 3**

### Number and Area of Operational Holdings According to Major Social Group

| Sl. No | Size class( Ha)            | Number of operational holdings |                   |                  |                    | Area operated (Hectares) |                     |                     |                      |
|--------|----------------------------|--------------------------------|-------------------|------------------|--------------------|--------------------------|---------------------|---------------------|----------------------|
|        |                            | All                            | SC                | ST               | Others             | All                      | SC                  | ST                  | Others               |
| 1      | Marginal<br>(Below 1.00)   | 6579692<br>(96.32)             | 529419<br>(99.51) | 86041<br>(90.42) | 5964232<br>(96.14) | 885643.80<br>(58.62)     | 30927.18<br>(87.74) | 17154.68<br>(49.82) | 837558.94<br>(58.12) |
| 2      | Small<br>(1.00-1.99)       | 180171<br>(2.64)               | 1975<br>(.37)     | 6117<br>(6.43)   | 172079<br>(2.77)   | 282305.13<br>(18.69)     | 2541.37<br>(7.21)   | 8056.99<br>(23.39)  | 271706.77<br>(18.85) |
| 3      | Semi-medium<br>(2.00-3.99) | 57028<br>(0.83)                | 516<br>(0.10)     | 2555<br>(2.68)   | 53957<br>(0.87)    | 159075.15<br>(10.53)     | 1329.21<br>(3.77)   | 6139.07<br>(17.82)  | 151606.87<br>(10.52) |
| 4      | Medium<br>(4.00-9.99)      | 12044<br>(0.18)                | 95<br>(0.02)      | 428<br>(0.45)    | 11521<br>(0.19)    | 64063.02<br>(4.24)       | 449.02<br>(1.28)    | 2303.06<br>(6.69)   | 61310.94<br>(4.25)   |
| 5      | Large<br>(10.00&above)     | 1854<br>(0.03)                 | 0                 | 20<br>(0.02)     | 1834<br>(0.03)     | 119728.65<br>(7.92)      | 0                   | 785.31<br>(2.28)    | 118943.34<br>(8.26)  |
| 6      | All sizes                  | 6830789<br>(100)               | 532005<br>(100)   | 95161<br>(100)   | 6203623<br>(100)   | 1510815.75<br>(100)      | 35246.78<br>(100)   | 34442.11<br>(100)   | 1441126.86<br>(100)  |

It is seen from the above Table that 99.51% of the Scheduled Caste operational holders (below 1 hectare) operated 87.74% of the total area of that category, 0.37% of the holders (1.00 to 1.99 hectare) operated 7.21% of the operated area, 0.10% (2.00 to 3.99 hectares) operated 3.77% of the operated area etc with regard to Scheduled Tribe 90.42% operational holders of this social group, belongs to below 1 hectare operate 49.82% of the operated area 6.43% of (in the size class 1 to 1.99 hectare) of the operational holders operate 23.39% of the area operated by them.

The concentration is higher in the marginal operators of other social group 96.14% in number and operated area 58.12%. The other concentration is in small (1.00 – 1.99 hectares) operates 2.77% and semi medium (2.00 to 3.99 hectare) 0.87% operating an area of 18.85% and 10.52% respectively.

A social group wise comparison of the results shows that out of the total operational holders, scheduled caste operational holders constitute only 7.79% and scheduled tribe operational holders constitute 1.39%. 90.82% of operational holders are in other social group. In the case of operated area also, i.e. scheduled caste 2.33% and scheduled tribe 2.28% and operational holders of general category constitute 95.39%.

Table IV (4) shows district-wise distribution of operational holding and area according to social group. Scheduled caste operational holders are largest in Thrissur district and it is lowest in Wayanad district. Operated area is largest in Idukki and lowest in Kasargod. ST operators are highest in Wayanad and 2<sup>nd</sup> Idukki. The operated area operated by Scheduled Tribe, operational holders are highest in Idukki and 2<sup>nd</sup> Wayanad. Operators from other categories are highest in Thiruvananthapuram district, whereas the operated area is highest in Idukki district.

**Table IV-4**  
**District wise Number and area of Operational holdings according**  
**to major social groups**

| Sl. no. | DISTRICT           | Number of operational holdings |              |                |                | Area operated (Hectares) |              |                |                |
|---------|--------------------|--------------------------------|--------------|----------------|----------------|--------------------------|--------------|----------------|----------------|
|         |                    | SC                             | ST           | Others         | Total          | SC                       | ST           | Others         | Total          |
| 1       | Thiruvananthapuram | 59332                          | 5013         | 686558         | 750903         | 2300                     | 4062         | 79990          | 86352          |
| 2       | Kollam             | 59060                          | 2386         | 518851         | 580297         | 3150                     | 793          | 86244          | 90187          |
| 3       | Pathanamthitta     | 30305                          | 4535         | 261978         | 296818         | 1916                     | 1003         | 63852          | 66771          |
| 4       | Alappuzha          | 32808                          | 975          | 443560         | 477343         | 1951                     | 47           | 65163          | 67161          |
| 5       | Kottayam           | 20234                          | 3205         | 395297         | 418736         | 1458                     | 1169         | 121357         | 123984         |
| 6       | Idukki             | 35837                          | 15403        | 208375         | 259615         | 6385                     | 9274         | 149190         | 164849         |
| 7       | Ernakulam          | 47988                          | 1925         | 597482         | 647395         | 2233                     | 463          | 117356         | 120052         |
| 8       | Thrissur           | 67566                          | 1930         | 615244         | 684740         | 2933                     | 145          | 96291          | 99369          |
| 9       | Palakkad           | 65499                          | 9496         | 424529         | 499524         | 4174                     | 6026         | 135284         | 145484         |
| 10      | Malappuram         | 50518                          | 3284         | 636670         | 690472         | 3482                     | 568          | 128808         | 132858         |
| 11      | Kozhikode          | 38749                          | 2317         | 597285         | 638351         | 2374                     | 370          | 107842         | 110586         |
| 12      | Wayanad            | 4534                           | 27558        | 142324         | 174416         | 958                      | 7146         | 82352          | 90456          |
| 13      | Kannur             | 11972                          | 6541         | 466708         | 485221         | 1108                     | 1573         | 124434         | 127115         |
| 14      | Kasargod           | 7603                           | 10593        | 208762         | 226958         | 825                      | 1803         | 82964          | 85592          |
|         | <b>State</b>       | <b>532005</b>                  | <b>95161</b> | <b>6203623</b> | <b>6830789</b> | <b>35247</b>             | <b>34442</b> | <b>1441127</b> | <b>1510816</b> |

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**IV-1 Number and area of Operational holdings (Area in Hectares)**

**All Social Groups**

| Sl. No. | Size Class (hectares) | Individual Holdings |         |                |         |            |                | Joint Holdings |         |                |         |         |                |
|---------|-----------------------|---------------------|---------|----------------|---------|------------|----------------|----------------|---------|----------------|---------|---------|----------------|
|         |                       | Number              |         |                | Area    |            |                | Number         |         |                | Area    |         |                |
|         |                       | 2005-06             | 2010-11 | % of Variation | 2005-06 | 2010-11    | % of Variation | 2005-06        | 2010-11 | % of Variation | 2005-06 | 2010-11 | % of Variation |
| 1       | 2                     | 3                   | 4       | 5              | 6       | 7          | 8              | 9              | 10      | 11             | 12      | 13      | 14             |
| 1       | Below 1.00            | 6540345             | 6526184 | -.22           | 883658  | 874409.33  | -1.05          | 3645           | 5039    | 38.24          | 1071    | 1490.61 | 39.22          |
| 2       | 1.00-1.99             | 210341              | 175252  | -16.68         | 278754  | 275660.03  | -1.11          | 440            | 660     | 50             | 590     | 1006.90 | 70.68          |
| 3       | 2.00-3.99             | 67483               | 54536   | -19.19         | 172801  | 152444.04  | -11.78         | 200            | 400     | 100            | 516     | 1106.23 | 114.34         |
| 4       | 4.00-9.99             | 13778               | 11024   | -19.99         | 72414   | 58273.31   | -19.53         | 120            | 155     | 29.17          | 629     | 874.33  | 38.95          |
| 5       | 10.00&above           | 1501                | 1261    | -15.99         | 28767   | 31235.22   | 8.58           | 50             | 20      | -60            | 1147    | 443.81  | -61.29         |
| 6       | All sizes             | 6833448             | 6768257 | -0.95%         | 1436394 | 1392021.93 | -3.09%         | 4455           | 6274    | 40.83%         | 3953    | 4921.88 | 24.49          |

| Sl. no | Size Class (hectares) | Institutional Holdings |         |                |         |           |                | Grand Total |         |                |         |            |                | Average size of holdings |         |
|--------|-----------------------|------------------------|---------|----------------|---------|-----------|----------------|-------------|---------|----------------|---------|------------|----------------|--------------------------|---------|
|        |                       | Number                 |         |                | Area    |           |                | Number      |         |                | Area    |            |                | 2005-06                  | 2010-11 |
|        |                       | 2005-06                | 2010-11 | % of Variation | 2005-06 | 2010-11   | % of Variation | 2005-06     | 2010-11 | % of Variation | 2005-06 | 2010-11    | % of Variation |                          |         |
| 1      | 2                     | 15                     | 16      | 17             | 18      | 19        | 20             | 21          | 22      | 23             | 24      | 25         | 26             | 27                       | 28      |
| 1      | Below 1.00            | 58453                  | 48469   | -17.08         | 11058   | 9743.86   | -11.88         | 6602443     | 6579692 | -0.34          | 895786  | 885643.8   | -1.13          | 0.14                     | 0.13    |
| 2      | 1.00-1.99             | 4051                   | 4259    | 5.13           | 5476    | 5638.2    | 2.96           | 214832      | 180171  | -16.13         | 284820  | 282305.13  | -0.88          | 1.33                     | 1.57    |
| 3      | 2.00-3.99             | 2027                   | 2092    | 3.20           | 5257    | 5524.88   | 5.09           | 69710       | 57028   | -18.19         | 178574  | 159075.15  | -10.91         | 2.56                     | 2.79    |
| 4      | 4.00-9.99             | 960                    | 865     | -9.89          | 5713    | 4915.38   | -13.96         | 14858       | 12044   | -18.93         | 78757   | 64063.02   | -18.65         | 5.30                     | 5.32    |
| 5      | 10.00&above           | 898                    | 573     | -36.19         | 86975   | 88049.62  | 1.23           | 2449        | 1854    | -24.29         | 116889  | 119728.65  | 3.60           | 47.73                    | 64.58   |
| 6      | All sizes             | 66389                  | 56258   | -15.26         | 114479  | 113871.94 | -0.53%         | 6904292     | 6830789 | -1.06%         | 1554826 | 1510815.75 | -2.83%         | 0.23                     | 0.22    |

**1V-1 (a) Number and area of operational holdings (Area in Hectares)**

**Scheduled Caste**

| Sl. No. | Size class (hectares) | Individual Holdings |         |                |         |          |                | Joint Holdings |         |                |         |         |                |
|---------|-----------------------|---------------------|---------|----------------|---------|----------|----------------|----------------|---------|----------------|---------|---------|----------------|
|         |                       | Number              |         |                | Area    |          |                | Number         |         |                | Area    |         |                |
|         |                       | 2005-06             | 2010-11 | % of Variation | 2005-06 | 2010-11  | % of Variation | 2005-06        | 2010-11 | % of Variation | 2005-06 | 2010-11 | % of Variation |
| 1       | 2                     | 3                   | 4       | 5              | 6       | 7        | 8              | 9              | 10      | 11             | 12      | 13      | 14             |
| 1       | Below 1.00            | 576588              | 529123  | -8.23          | 35688   | 30848.20 | -13.56         | 95             | 296     | 211.58         | 21      | 78.98   | 276.1          |
| 2       | 1.00-1.99             | 2084                | 1950    | -6.43          | 2748    | 2503.54  | -8.89          | 0              | 25      | -              | 0       | 37.83   | -              |
| 3       | 2.00-3.99             | 371                 | 506     | 36.39          | 916     | 1307.14  | 42.7           | 10             | 10      | 0              | 21      | 22.07   | 5.1            |
| 4       | 4.00-9.99             | 40                  | 95      | 137.5          | 224     | 449.02   | 100.46         | 0              | 0       | 0              | 0       | 0       | 0              |
| 5       | 10.00&above           | 0                   | 0       | 0              | 0       | 0        | 0              | 0              | 0       | 0              | 0       | 0       | 0              |
| 6       | All sizes             | 579083              | 531674  | -8.19%         | 39576   | 35107.9  | -11.29%        | 105            | 331     | 215.24%        | 42      | 138.88  | 231.06%        |

| Sl. No. | Size Class (hectares) | Institutional Holdings |         |                |         |         |                | Grand Total |         |                |         |          |                | Average size of holdings |         |
|---------|-----------------------|------------------------|---------|----------------|---------|---------|----------------|-------------|---------|----------------|---------|----------|----------------|--------------------------|---------|
|         |                       | Number                 |         |                | Area    |         |                | Number      |         |                | Area    |          |                | 2005-06                  | 2010-11 |
|         |                       | 2005-06                | 2010-11 | % of variation | 2005-06 | 2010-11 | % of Variation | 2005-06     | 2010-11 | % of Variation | 2005-06 | 2010-11  | % of Variation |                          |         |
| 1       | 2                     | 15                     | 16      | 17             | 18      | 19      | 20             | 21          | 22      | 23             | 24      | 25       | 26             | 27                       | 28      |
| 1       | Below 1.00            | -                      | -       | -              | -       | -       | -              | 576683      | 529419  | -8.2           | 35709   | 30927.18 | -13.39         | 0.06                     | 0.05    |
| 2       | 1.00-1.99             | -                      | -       | -              | -       | -       | -              | 2084        | 1975    | -5.23          | 2748    | 2541.37  | -7.52          | 1.32                     | 1.29    |
| 3       | 2.00-3.99             | -                      | -       | -              | -       | -       | -              | 381         | 516     | 35.43          | 937     | 1329.21  | 41.86          | 2.46                     | 2.58    |
| 4       | 4.00-9.99             | -                      | -       | -              | -       | -       | -              | 40          | 95      | 137.5          | 224     | 449.02   | 100.46         | 5.6                      | 4.73    |
| 5       | 10.00&above           | -                      | -       | -              | -       | -       | -              | 0           | 0       | 0              | 0       | 0        | 0              | 0                        | 0       |
| 6       | All sizes             | -                      | -       | -              | -       | -       | -              | 579188      | 532005  | -8.15%         | 39618   | 35246.78 | -11.03%        | 0.07                     | 0.07    |

**IV.1 (b) Number and Area of Operational holdings (Area in Hectares)**

Scheduled Tribe

| Sl.No | Size class (hectares) | Individual Holdings |         |                |         |          |                | Joint Holdings |         |                |         |         |                |
|-------|-----------------------|---------------------|---------|----------------|---------|----------|----------------|----------------|---------|----------------|---------|---------|----------------|
|       |                       | Number              |         |                | Area    |          |                | Number         |         |                | Area    |         |                |
|       |                       | 2005-06             | 2010-11 | % of Variation | 2005-06 | 2010-11  | % of Variation | 2005-06        | 2010-11 | % of Variation | 2005-06 | 2010-11 | % of Variation |
| 1     | 2                     | 3                   | 4       | 5              | 6       | 7        | 8              | 9              | 10      | 11             | 12      | 13      | 14             |
| 1     | Below 1.00            | 78990               | 85826   | 8.65           | 16349   | 17060.72 | 4.35           | 208            | 215     | 3.37           | 83      | 96.96   | 16.82          |
| 2     | 1.00-1.99             | 6155                | 6011    | -2.34          | 8039    | 7904.22  | -1.68          | 10             | 106     | 960            | 13      | 152.77  | 1075.15        |
| 3     | 2.00-3.99             | 1629                | 2520    | 54.7           | 4019    | 6049.13  | 50.51          | 15             | 35      | 133.33         | 37      | 89.94   | 143.08         |
| 4     | 4.00-9.99             | 280                 | 418     | 49.29          | 1354    | 2254.65  | 66.51          | 5              | 10      | 100            | 20      | 48.41   | 142.05         |
| 5     | 10.00& above          | 15                  | 20      | 33.33          | 283     | 785.31   | 177.49         | 0              | 0       | 0              | 0       | 0       | 0              |
| 6     | All sizes             | 87069               | 94795   | 8.87%          | 30044   | 34054.03 | 13.35%         | 238            | 366     | 53.78%         | 153     | 388.08  | 153.96%        |

| Sl. No. | Size Class (hectares) | Institutional Holdings |         |                |         |         |                | Grand Total |         |                |         |          |                | Average size of holdings |         |
|---------|-----------------------|------------------------|---------|----------------|---------|---------|----------------|-------------|---------|----------------|---------|----------|----------------|--------------------------|---------|
|         |                       | Number                 |         |                | Area    |         |                | Number      |         |                | Area    |          |                | 2005-06                  | 2010-11 |
|         |                       | 2005-06                | 2010-11 | % of Variation | 2005-06 | 2010-11 | % of Variation | 2005-06     | 2010-11 | % of Variation | 2005-06 | 2010-11  | % of Variation |                          |         |
| 1       | 2                     | 15                     | 16      | 17             | 18      | 19      | 20             | 21          | 22      | 23             | 24      | 25       | 26             | 27                       | 28      |
| 1       | Below 1.00            | -                      | -       | -              | -       | -       | -              | 79198       | 86041   | 8.64           | 16432   | 17157.68 | 4.42           | 0.21                     | 0.20    |
| 2       | 1.00-1.99             | -                      | -       | -              | -       | -       | -              | 6165        | 6117    | -0.78          | 8052    | 8056.99  | 0.06           | 1.31                     | 1.32    |
| 3       | 2.00-3.99             | -                      | -       | -              | -       | -       | -              | 1644        | 2555    | 55.41          | 4056    | 6139.07  | 51.36          | 2.47                     | 2.40    |
| 4       | 4.00-9.99             | -                      | -       | -              | -       | -       | -              | 285         | 428     | 50.18          | 1374    | 2303.06  | 67.62          | 4.82                     | 5.38    |
| 5       | 10.00&above           | -                      | -       | -              | -       | -       | -              | 15          | 20      | 33.33          | 283     | 785.31   | 177.5          | 18.87                    | 39.26   |
| 6       | All sizes             | -                      | -       | -              | -       | -       | -              | 87307       | 95161   | 9%             | 30197   | 34442.11 | 14.06%         | 0.35                     | 0.36    |

**1V-2 Distribution of District wise number of operational holdings by size class**

**All Social Groups**

| Sl. No | Size Class            | Trivandrum | Kollam | Pathanamthitta | Alappuzha | Kottayam | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram | Kozhikode | Wayanad | Kannur | Kasargod | State   |
|--------|-----------------------|------------|--------|----------------|-----------|----------|--------|-----------|----------|----------|------------|-----------|---------|--------|----------|---------|
| 1      | Below - 1.00          | 743341     | 573022 | 287778         | 469853    | 391649   | 228410 | 626985    | 672009   | 469021   | 670231     | 621943    | 154863  | 461662 | 208925   | 6579692 |
| 2      | Small 1.00-1.99       | 5948       | 6074   | 7366           | 5285      | 18658    | 23051  | 14900     | 9853     | 19031    | 14513      | 12467     | 13341   | 17170  | 12514    | 180171  |
| 3      | Semi-medium 2.00-3.99 | 1300       | 991    | 1393           | 1712      | 6652     | 6536   | 4451      | 2380     | 8831     | 4703       | 3287      | 4832    | 5435   | 4525     | 57028   |
| 4      | medium 4.00-9.99      | 274        | 170    | 236            | 408       | 1502     | 1263   | 884       | 453      | 2393     | 897        | 599       | 1177    | 879    | 909      | 12044   |
| 5      | large - 10 above      | 40         | 40     | 45             | 85        | 275      | 355    | 175       | 45       | 248      | 128        | 55        | 203     | 75     | 85       | 1854    |
| 6      | All categories        | 750903     | 580297 | 296818         | 477343    | 418736   | 259615 | 647395    | 684740   | 499524   | 690472     | 638351    | 174416  | 485221 | 226958   | 6830789 |



**IV-2(a) Distribution of District wise number of Operational holdings by size class**

**Scheduled Caste**

| Sl.No | Size Class (Ha)       | Trivandrum | Kollam | Pathanamthitta | Alappuzha | Kottayam | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram | Kozhikode | Wayanad | Kannur | Kasargod | state  |
|-------|-----------------------|------------|--------|----------------|-----------|----------|--------|-----------|----------|----------|------------|-----------|---------|--------|----------|--------|
| 1     | Below -1.00           | 59297      | 59020  | 30250          | 32748     | 20124    | 34607  | 47918     | 67471    | 65265    | 50243      | 38669     | 4362    | 11877  | 7568     | 529419 |
| 2     | Small 1.00-1.99       | 20         | 40     | 50             | 50        | 80       | 865    | 55        | 75       | 194      | 245        | 80        | 101     | 85     | 35       | 1975   |
| 3     | Semi-medium 2.00-3.99 | 5          | 0      | 0              | 10        | 30       | 310    | 15        | 15       | 35       | 25         | 0         | 61      | 10     | 0        | 516    |
| 4     | medium 4.00-9.99      | 10         | 0      | 5              | 0         | 0        | 55     | 0         | 5        | 5        | 5          | 0         | 10      | 0      | 0        | 95     |
| 5     | large - 10 above      | 0          | 0      | 0              | 0         | 0        | 0      | 0         | 0        | 0        | 0          | 0         | 0       | 0      | 0        | 0      |
| 6     | All categories        | 59332      | 59060  | 30305          | 32808     | 20234    | 35837  | 47988     | 67566    | 65499    | 50518      | 38749     | 4534    | 11972  | 7603     | 532005 |

**IV-2(b) Distribution of District wise number of Operational Holdings by size class**

**Scheduled Tribe**

| Sl. no | Size Class (Ha)       | Trivandrum | Kollam | Pathanamthitta | Alappuzha | Kottayam | Idukki | Ernakulam | Thrissur | Palakkad | Malappuram | Kozhikode | Wayanad | Kannur | Kasargod | State |
|--------|-----------------------|------------|--------|----------------|-----------|----------|--------|-----------|----------|----------|------------|-----------|---------|--------|----------|-------|
| 1      | Below -1.00           | 3758       | 2242   | 4419           | 975       | 2922     | 12264  | 1824      | 1930     | 7445     | 3129       | 2267      | 26073   | 6335   | 10458    | 86041 |
| 2      | Small 1.00-1.99       | 916        | 144    | 106            | 0         | 218      | 2085   | 45        | 0        | 1214     | 35         | 50        | 1033    | 146    | 125      | 6117  |
| 3      | Semi-medium 2.00-3.99 | 314        | 0      | 10             | 0         | 50       | 884    | 56        | 0        | 669      | 110        | 0         | 397     | 55     | 10       | 2555  |
| 4      | Medium 4.00-9.99      | 20         | 0      | 0              | 0         | 15       | 165    | 0         | 0        | 163      | 10         | 0         | 50      | 5      | 0        | 428   |
| 5      | large - 10 above      | 5          | 0      | 0              | 0         | 0        | 5      | 0         | 0        | 5        | 0          | 0         | 5       | 0      | 0        | 20    |
| 6      | All categories        | 5013       | 2386   | 4535           | 975       | 3205     | 15403  | 1925      | 1930     | 9496     | 3284       | 2317      | 27558   | 6541   | 10593    | 95161 |

**1V-3 District wise Distribution of area of operational holdings by size class**

**All Social Groups**

(Area in Hectares)

| Sl. no | Size Class            | Trivandrum | Kollam   | Pathanamthitta | Alappuzha | Kottayam  | Idukki    | Ernakulam | Thrissur | Palakkad  | Malappuram | Kozhikode | Wayanad  | Kannur    | Kasargod | state      |
|--------|-----------------------|------------|----------|----------------|-----------|-----------|-----------|-----------|----------|-----------|------------|-----------|----------|-----------|----------|------------|
| 1      | Below - 1.00          | 71025.99   | 67191.75 | 49543.71       | 50171.85  | 60528.40  | 57987.42  | 70977.97  | 74281.16 | 64874.07  | 86479.30   | 77541.63  | 33949.96 | 77917.67  | 43172.92 | 885643.80  |
| 2      | Small 1.00-1.99       | 8838.52    | 9197.99  | 11324.68       | 8214.03   | 29545.49  | 34868.78  | 2364.72   | 15375.58 | 30256.41  | 22701.98   | 19637.06  | 21091.44 | 27433.8   | 20194.65 | 282305.13  |
| 3      | Semi-medium 2.00-3.99 | 3365.36    | 2788.04  | 3833.01        | 4861.87   | 18553.84  | 17588.12  | 12413.79  | 6651.26  | 24874.17  | 13246.30   | 9214.61   | 13677.62 | 15213.78  | 12793.38 | 159075.15  |
| 4      | Medium 4.00-9.99      | 1455.89    | 844.96   | 1246.58        | 2243.08   | 8188.83   | 6816.51   | 4704.01   | 2196.50  | 12811.38  | 4820.83    | 3075.05   | 6465.26  | 4534.86   | 4659.28  | 64063.02   |
| 5      | large - 10 above      | 1666.22    | 10164.37 | 822.50         | 1670      | 7167.33   | 47587.86  | 8331.93   | 864.64   | 12667.56  | 5609.90    | 1117.29   | 15271.75 | 2014.94   | 4772.36  | 119728.65  |
| 6      | All categories        | 86351.98   | 90187.11 | 66770.48       | 67160.83  | 123983.89 | 164848.69 | 120052.42 | 99369.14 | 145483.59 | 132858.31  | 110585.64 | 90456.03 | 127115.05 | 85592.59 | 1510815.75 |

**1V-3 (a) District wise Distribution of Area of Operational holdings by size class (Area in Hectare)**

**Scheduled Caste**

| Sl.no | Size class (Ha)           | Trivandrum | Kollam  | Pathanamthitta | Alappuzha | Kottayam | Idukki  | Ernakulam | Thrissur | Palakkad | Malappuram | Kozhikode | Wayanad | Kannur  | Kasaragod | state    |
|-------|---------------------------|------------|---------|----------------|-----------|----------|---------|-----------|----------|----------|------------|-----------|---------|---------|-----------|----------|
| 1     | Below -1.00               | 2216.80    | 3102.99 | 1820.80        | 1864.66   | 1274.27  | 4285.36 | 2118.71   | 2775.79  | 3798.11  | 3055.74    | 2272.33   | 603.22  | 966.93  | 771.47    | 30927.18 |
| 2     | Small<br>1.00-1.99        | 26.83      | 46.67   | 65.01          | 63.89     | 107.82   | 1069.76 | 69.72     | 95.94    | 260.35   | 330.25     | 101.56    | 134.32  | 115.42  | 53.83     | 2541.37  |
| 3     | Semi-medium<br>2.00 -3.99 | 12.60      | 0       | 0              | 21.92     | 76.05    | 788.86  | 44.57     | 41.51    | 95.12    | 71.67      | 0         | 151.13  | 25.78   | 0         | 1329.21  |
| 4     | Medium                    | 44.16      | 0       | 29.82          | 0         | 0        | 241.40  | 0         | 20.10    | 20       | 24.25      | 0         | 69.29   | 0       | 0         | 449.02   |
| 5     | large -10 above           | 0          | 0       | 0              | 0         | 0        | 0       | 0         | 0        | 0        | 0          | 0         | 0       | 0       | 0         | 0        |
|       | All categories            | 2300.39    | 3149.66 | 1915.63        | 1950.47   | 1458.14  | 6385.38 | 2233      | 2933.34  | 4173.58  | 3481.91    | 2373.89   | 957.96  | 1108.13 | 825.30    | 35246.78 |

**IV-3 (b) District wise Distribution of area of operational holdings by size class**

**Scheduled Tribe**

| Sl.no | Size Class               | Trivandrum | Kollam | Pathanamthitta | Alappuzha | Kottayam | Idukki  | Ernakulam | Thrissur | Palakkad | Malappuram | Kozhikode | Wayanad | Kannur  | Kasargod | state    |
|-------|--------------------------|------------|--------|----------------|-----------|----------|---------|-----------|----------|----------|------------|-----------|---------|---------|----------|----------|
| 1     | Below -1.00              | 1535.32    | 615.94 | 847.52         | 47.33     | 687.75   | 3387.29 | 287.91    | 144.67   | 1965.67  | 197.92     | 308.06    | 4291.09 | 1210.25 | 1630.96  | 1715.68  |
| 2     | Small 1.00-1.99          | 1199.57    | 177.27 | 132.94         | -         | 299.79   | 2765.61 | 61.93     | 0        | 1561.94  | 50.61      | 61.59     | 1398.58 | 197.30  | 149.87   | 8056.99  |
| 3     | Semi-Medium<br>2.00-3.99 | 685.09     | 0      | 22.61          | -         | 107.24   | 2107.42 | 113.51    | 0        | 1639.51  | 271.57     | 0         | 1041.01 | 128.86  | 22.25    | 6139.07  |
| 4     | Medium 4.00-9.99         | 127.46     | 0      | 0              | -         | 74.63    | 956.79  | 0         | 0        | 798.62   | 48.35      | 0         | 260.81  | 36.40   | 0        | 2303.06  |
| 5     | large -10 above          | 513.94     | 0      | 0              | -         | 0        | 56.65   | 0         | 0        | 60.24    | 0          | 0         | 154.48  | 0       | 0        | 785.31   |
|       | All categories           | 4061.38    | 793.21 | 1003.07        | 47.33     | 1169.41  | 9273.76 | 463.34    | 144.67   | 6025.98  | 568.45     | 369.65    | 7145.97 | 1572.81 | 1803.08  | 34442.11 |

**IV- 4 Size class wise distribution of number, area and percentage of operational holdings according to major social groups**

| Sl. No. | Size class (Ha)            | Number Of Operational Holdings |                   |                  |                    | Area operated (hectares) |                     |                     |                      |
|---------|----------------------------|--------------------------------|-------------------|------------------|--------------------|--------------------------|---------------------|---------------------|----------------------|
|         |                            | All                            | Sch.Caste         | Sch.Tribe        | Others             | All                      | Sch.Caste           | Sch.Tribe           | Others               |
| 1       | Below 1.00                 | 6579692<br>(96.32)             | 529419<br>(99.51) | 86041<br>(90.42) | 5964232<br>(96.14) | 885643.80<br>(58.62)     | 30927.18<br>(87.74) | 17154.68<br>(49.82) | 837558.94<br>(58.12) |
| 2       | Small(1.00-1.99)           | 180171<br>(2.64)               | 1975<br>(.37)     | 6117<br>(6.43)   | 172079<br>(2.77)   | 282305.13<br>(18.69)     | 2541.37<br>(7.21)   | 8056.99<br>(23.39)  | 271706.77<br>(18.85) |
| 3       | Semi medium<br>(2.00-3.99) | 57028<br>(0.83)                | 516<br>0.10       | 2555<br>(2.68)   | 53957<br>(0.87)    | 159075.15<br>(10.53)     | 1329.21<br>(3.77)   | 6139.07<br>(17.82)  | 151606.87<br>(10.52) |
| 4       | Medium<br>(4.00-9.99)      | 12044<br>(0.18)                | 95<br>0.02        | 428<br>(0.45)    | 11521<br>(0.19)    | 64063.02<br>(4.24)       | 449.02<br>(1.28)    | 2303.06<br>6.69     | 61310.94<br>4.25     |
| 5       | Large<br>(10.00&above)     | 1854<br>(0.03)                 | 0                 | 20<br>0.02       | 1834<br>0.03       | 119728.65<br>(7.92)      | 0                   | 785.31<br>2.28      | 118943.34<br>8.26    |
| 6       | All sizes                  | 6830789<br>(100)               | 532005<br>(100)   | 95161<br>100     | 6203623<br>100     | 1510815.75<br>100        | 35246.78<br>100     | 34442.11<br>(100)   | 1441126.86<br>100    |

\*Figures in brackets are the percentage to the all sizes

**1V-5.District wise number and area of operational holdings according to major social groups**

| Sl.no | DISTRICT              | Number of Operational Holdings |              |                |                | Area operated (hectares) |              |                |                |
|-------|-----------------------|--------------------------------|--------------|----------------|----------------|--------------------------|--------------|----------------|----------------|
|       |                       | Sch.Caste                      | Sch.Tribe    | Others         | Total          | Sch.Caste                | Sch.Tribe    | Others         | Total          |
| 1     | <b>Trivandrum</b>     | 59332                          | 5013         | 686558         | 750903         | 2300                     | 4062         | 79990          | 86352          |
| 2     | <b>Kollam</b>         | 59060                          | 2386         | 518851         | 580297         | 3150                     | 793          | 86244          | 90187          |
| 3     | <b>pathanamthitta</b> | 30305                          | 4535         | 261978         | 296818         | 1916                     | 1003         | 63852          | 66771          |
| 4     | <b>Alappuzha</b>      | 32808                          | 975          | 443560         | 477343         | 1951                     | 47           | 65163          | 67161          |
| 5     | <b>Kottayam</b>       | 20234                          | 3205         | 395297         | 418736         | 1458                     | 1169         | 121357         | 123984         |
| 6     | <b>Idukki</b>         | 35837                          | 15403        | 208375         | 259615         | 6385                     | 9274         | 149190         | 164849         |
| 7     | <b>Ernakulam</b>      | 47988                          | 1925         | 597482         | 647395         | 2233                     | 463          | 117356         | 120052         |
| 8     | <b>Thrissur</b>       | 67566                          | 1930         | 615244         | 684740         | 2933                     | 145          | 96291          | 99369          |
| 9     | <b>Palakkad</b>       | 65499                          | 9496         | 424529         | 499524         | 4174                     | 6026         | 135284         | 145484         |
| 10    | <b>Malappuram</b>     | 50518                          | 3284         | 636670         | 690472         | 3482                     | 568          | 128808         | 132858         |
| 11    | <b>Kozhikode</b>      | 38749                          | 2317         | 597285         | 638351         | 2374                     | 370          | 107842         | 110586         |
| 12    | <b>Wayanad</b>        | 4534                           | 27558        | 142324         | 174416         | 958                      | 7146         | 82352          | 90456          |
| 13    | <b>Kannur</b>         | 11972                          | 6541         | 466708         | 485221         | 1108                     | 1573         | 124434         | 127115         |
| 14    | <b>Kasargod</b>       | 7603                           | 10593        | 208762         | 226958         | 825                      | 1803         | 82964          | 85592          |
| 15    | <b>State</b>          | <b>532005</b>                  | <b>95161</b> | <b>6203623</b> | <b>6830789</b> | <b>35247</b>             | <b>34442</b> | <b>1441127</b> | <b>1510816</b> |