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**Government of Kerala**



**REPORT  
ON AGRICULTURAL CENSUS  
2005-06**

**Department of Economics and Statistics  
Government of Kerala**

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

**2012**





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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 census of Agriculture. 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 in collection of data.

The 8<sup>th</sup> Agriculture census was carried out in Kerala along with all other states /Union Territories with 2005-06 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 results of 8<sup>th</sup> Agricultural Census 2005-06 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, diagrams etc in chapter III. I would like to appreciate the efforts put in 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.C.S.Ajayakumaran, Research Assistants and Smt.P.Bindu, Statistical Assistant Grade-I, Sri.B.Nadirsha, Statistical Assistant Grade-II, Smt.Anitha Kumari.P.S, 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, researcher's etc.

Suggestions, if any are most welcome.

Sd/-  
Ramachandran.V  
Director

Thiruvananthapuram  
31-12-2011.

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## CHAPTER - I

### 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 Agricultural 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.

Agricultural 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 Agricultural 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 and 2000-01. This report relates for the 8th Agriculture Census (2005-06). 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 agriculture development programmes and for evaluating their progress.
3. To provide basic frames of household 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.

## 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 and Individual/Joint/Institutional wise.
- Schedule SS : Sample Selection Summary.
- Schedule H : Particulars of Operational Holdings.

## Item coverage

Data on the following main aspects were collected during the Agriculture Census with the agriculture year 2005-06 (July 2005 to June 2006) 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 2005-06 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 3626 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 will not be covered in the survey as it may be difficult to approach them. A separate list of institutional holding were 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 mortgage (ie. The person to whom the mortgage is made or given), income from the property accrues to the Mortgage 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

### **i) Net area sown**

Total area sown with crops and orchards, counting area sown more than once in the same year, only once.

### **ii) Current fallow**

Cropped areas, which are kept fallow during the current year. For example, if any seedling area is not cropped in the same year, it may be treated as current fallow:

**iii) Fallow other than current fallow**

All lands which are taken up for cultivation but area temporarily out of cultivation for a period of not less than one year and not more than five years. The reasons for keeping such lands fallow may be one or more of the following.

- i.. Poverty of the cultivator
- ii. Inadequate supply of water.
- iii. Malarial climate
- iv. Silting of canals and river
- v. Un-remunerative nature of farming

**iv) Other uncultivated land excluding fallow**

This will include

- a) All gazing lands, whether they are permanent pastures and mead ows or not. Village common grazing lands would, however, be excluding.
- b) Land under miscellaneous tree corps

Cultivable land which is not included in the net area sown but is put to some agricultural use. Land under casuarinas trees, thatching grasses, Bamboo bushes and other groves for fuel which are not included under 'orchards' would be covered under this category.

**v) Cultivable Waste**

All lands available for cultivation, whether or not taken up for cultivation once but not cultivated during the current year and last five years or more in succession for one reason or the other. Such lands may be either wholly or

partly covered with shrubs and jungles, which are not put to any use. Land once cultivated but not cultivated for five years in succession would also be included.

**vi) Not available for cultivation**

This would include forest, area under non agricultural use, barren and uncultivable land

**a) Forest**

All lands classed as 'Forest' under any legal enactment dealing with forests or administered as forests, whether State owned private and whether wooded or maintained as potential forest. The area of crops raised in the forest and grazing lands or areas open for gracing within the forest would under the forest area. Only private forest would be covered for the purpose of Agricultural Census.

**b) Area under non-agricultural use**

All lands occupied by buildings or ponds, or lands put to uses other than agriculture, such lands within the cultivated holdings should be covered in the Census.

**c) Barren and uncultivable land**

All barren and uncultivable land within the cultivated holding.

## **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

8<sup>th</sup> AGRICULTURE CENSUS

The Eighth Agriculture Census 2005-06 was conducted in Kerala during the period August 2006-07. The field work of the 8<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 headquarters at Thiruvananthapuram consisting of

Joint Director	1
Deputy Director/ Assistant Director	1
Administrative Assistant	1
Research Assistant	2
Confidential Assistant	1
Typist	1
L.D.Compilers	2
Peon	1

Government of Kerala vide GO(Rt) No. 53/07/plg dated 01.02.2007 had issued, sanction for the implementation of this Centrally Sponsored Scheme with 100% Central Assistance. The field work of the Census was completed by 2007. The tabulation and processing of data was done in the computer division of the department. The preliminary report was forwarded to Government of India by October 2007. The detailed survey schedules after verification and assigning codes were handed over to computer division for data entry. 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 2007. The final tables were forwarded to the Director of Agriculture Census, Government of India by 2009-10 after a series of queries and clarification on the data by the Directorate of

Agriculture Census, the final tables were approved by the Government of India by 2011, as per Lr. No.11015/23/2008-ACU(T) dated 10.03.2011. The CD containing final tables of 2005-06 agriculture census was handed over to the state during the end of 2011 from the Director of Agriculture Census, GOI. The final tables are generated block wise, district wise and for the state for all the social groups 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 2005-06 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.

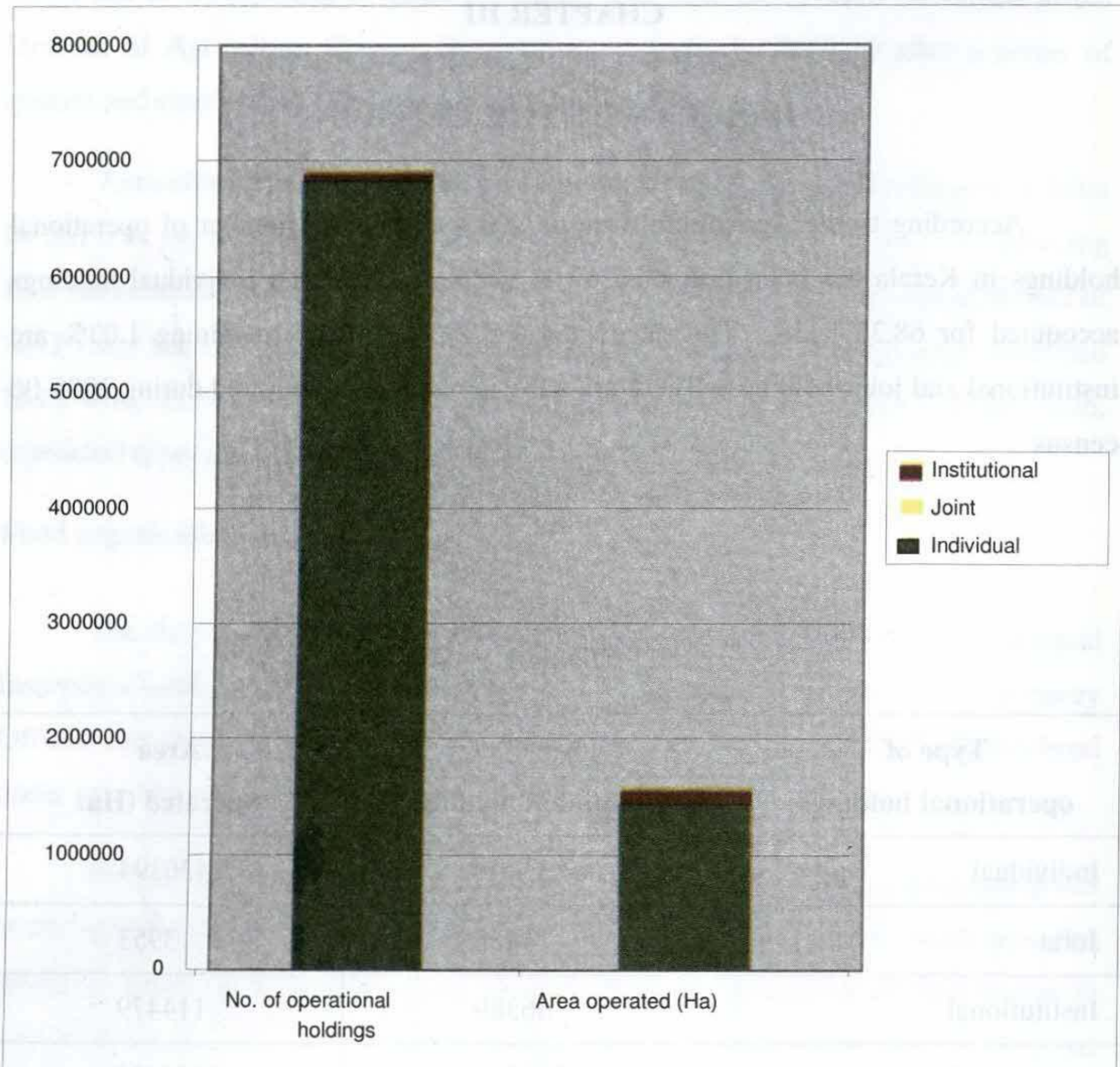
### CHAPTER III

## RESULTS OF THE CENSUS

According to the Agricultural Census 2005-06 the total number of operational holdings in Kerala has been estimated 69.04 lakhs out of which individual holdings accounted for 68.33 lakhs. This accounted for 98.97%. The remaining 1.03% are institutional and joint holdings. There are 4455 joint holdings reported during 2005-06 census.

**Table-I**

<b>Type of operational holdings</b>	<b>No. of operational holdings</b>	<b>Area operated (Ha)</b>
Individual	6833448	1436394
Joint	4455	3953
Institutional	66389	114479
<b>Total</b>	<b>6904292</b>	<b>1554826</b>

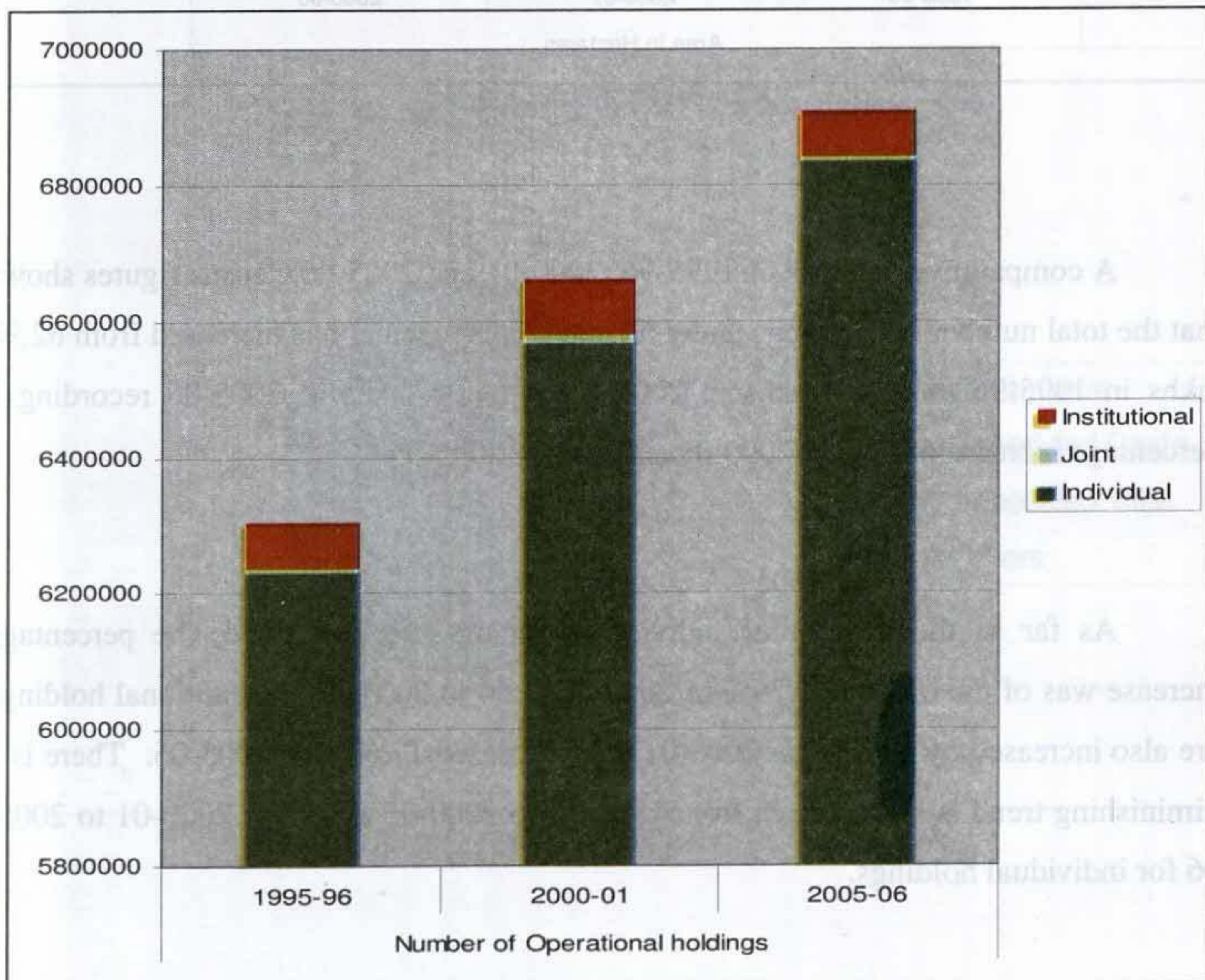


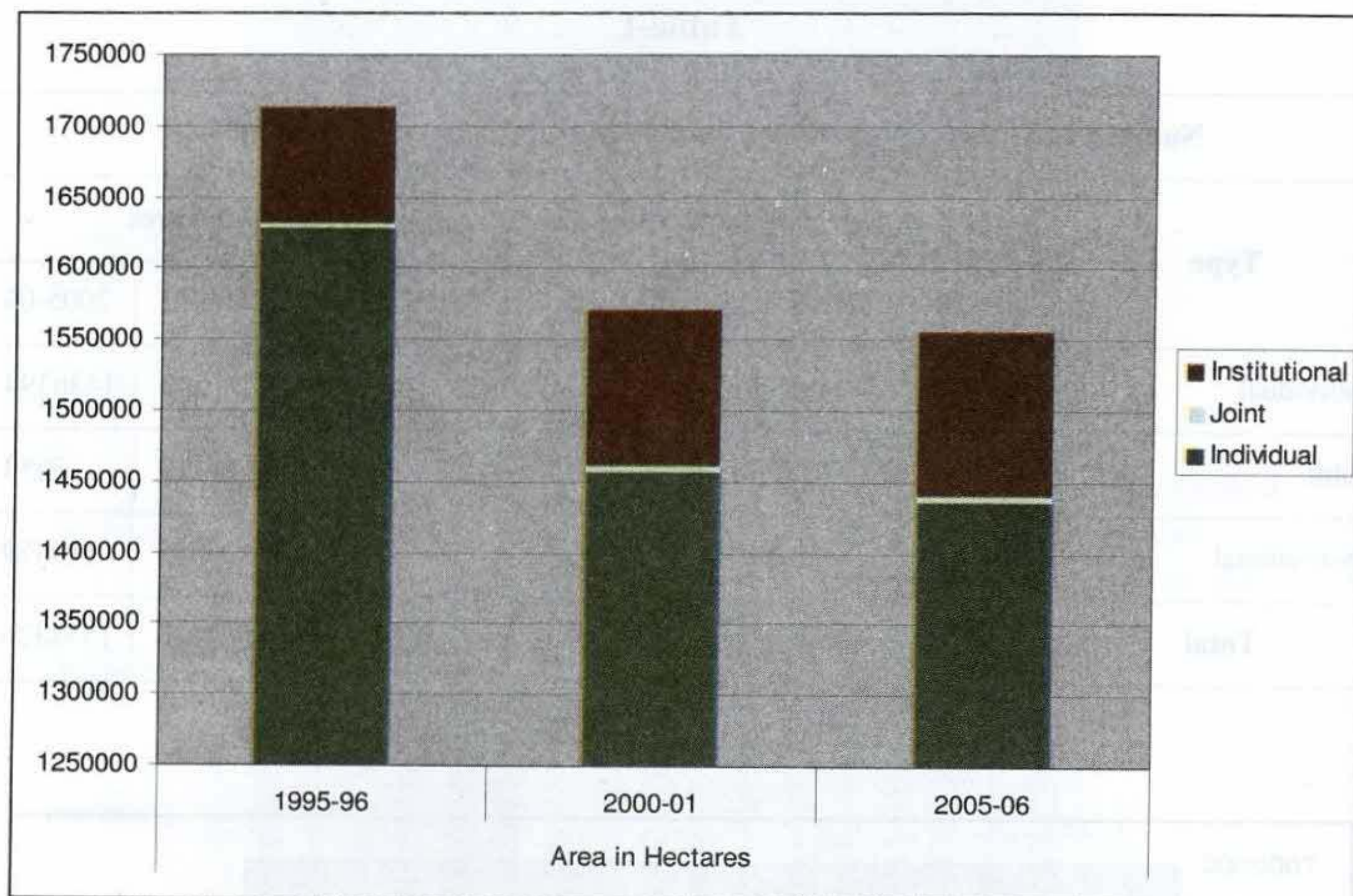
The 69.04 lakhs operational holdings accounted for an operated area of 15.55 lakhs hectares out of which 14.36 lakhs hectares were the operational area of individual holdings. Institutional holdings, account for 0.96% of the total number of holdings have accounted for an area of 7.36% of the total operated area in the state; showing a comparatively very high average size of the holding for them. With regard to joint holdings, 0.07% of the total number of holdings, have accounted for an area of 0.25% of the total operated area in Kerala.



**Comparison with 1995-96, 2000-01 census****Table-I**

Number and Area of Operational holdings during 1995-96,2000-01,2005-06						
Type	Number of Operational holdings			Area in Hectares		
	1995-96	2000-01	2005-06	1995-96	2000-01	2005-06
Individual	6230685	6568383	6833448	1628430	1456543	1436394
Joint	2674	7589	4455	3358	4110	3953
Institutional	64955	80660	66389	80435	108885	114479
<b>Total</b>	<b>6298314</b>	<b>6656632</b>	<b>6904292</b>	<b>1712223</b>	<b>1569538</b>	<b>1554826</b>



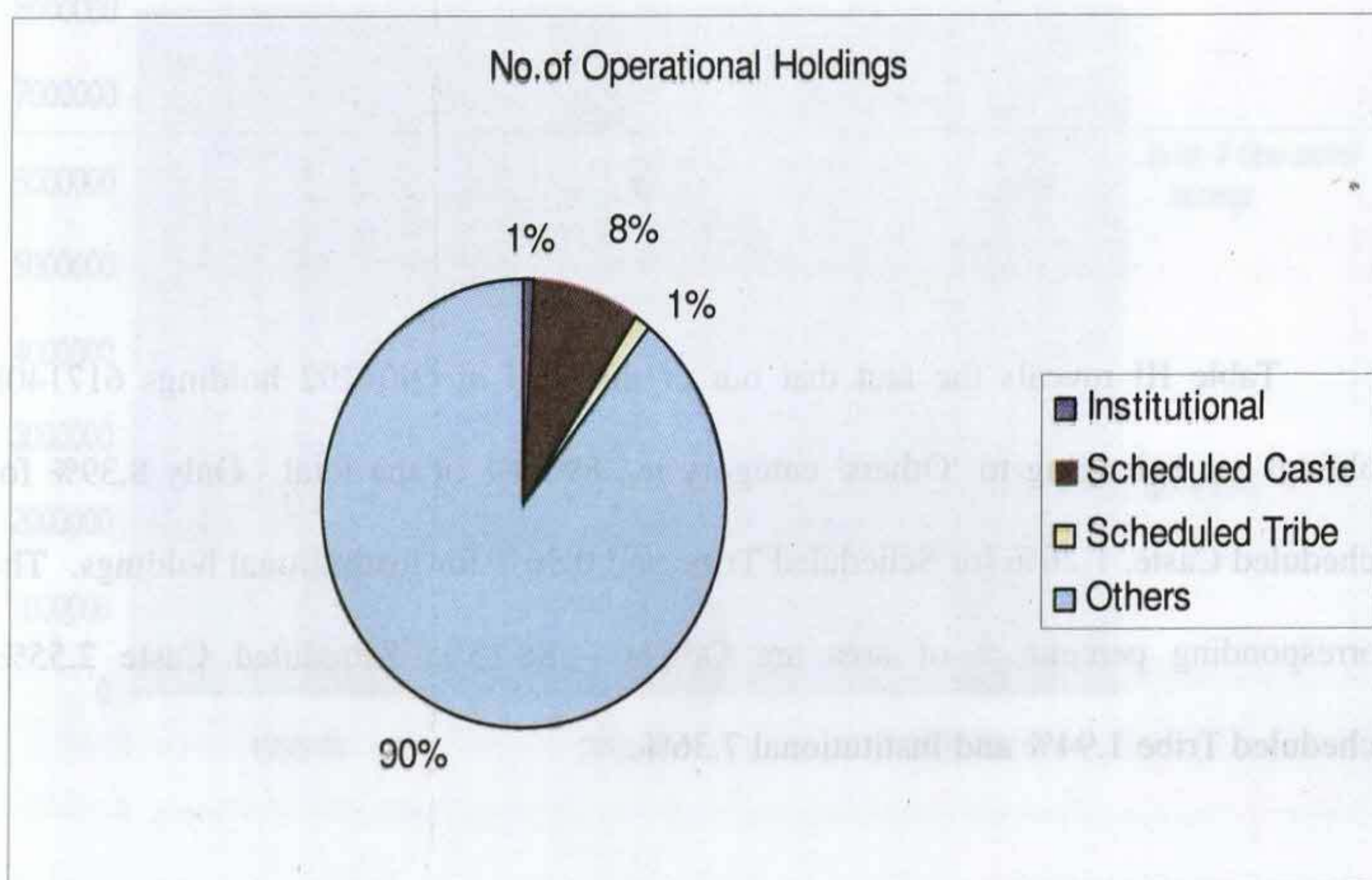


A comparative analysis of 1995-96, 2000-01 and 2005-06 Census figures shows that the total number of holdings under all categories together has increased from 62.98 lakhs in 1995-96 to 66.57 lakhs in 2000-01 to 69.04 lakhs in 2005-06 recording a percentage increase of 5.69 in 2000-01 and 3.72 in 2005-06.

As far as the number of individual holdings are concerned, the percentage increase was of the order of 5.29% in 2000-01, 4.04 in 2005-06. Institutional holdings are also increased by 24.17% in 2000-01 and decreased 17.69% in 2005-06. There is a diminishing trend is seen in area from 1995-96 to 2000-01 and from 2000-01 to 2005-06 for individual holdings.

Table-III

Social Group	No.of Operational Holdings	Area Operated (Ha)
Institutional	66389	114479
Scheduled Caste	579188	39618
Scheduled Tribe	87307	30197
Others	6171408	1370532
<b>Total</b>	<b>6904292</b>	<b>1554826</b>



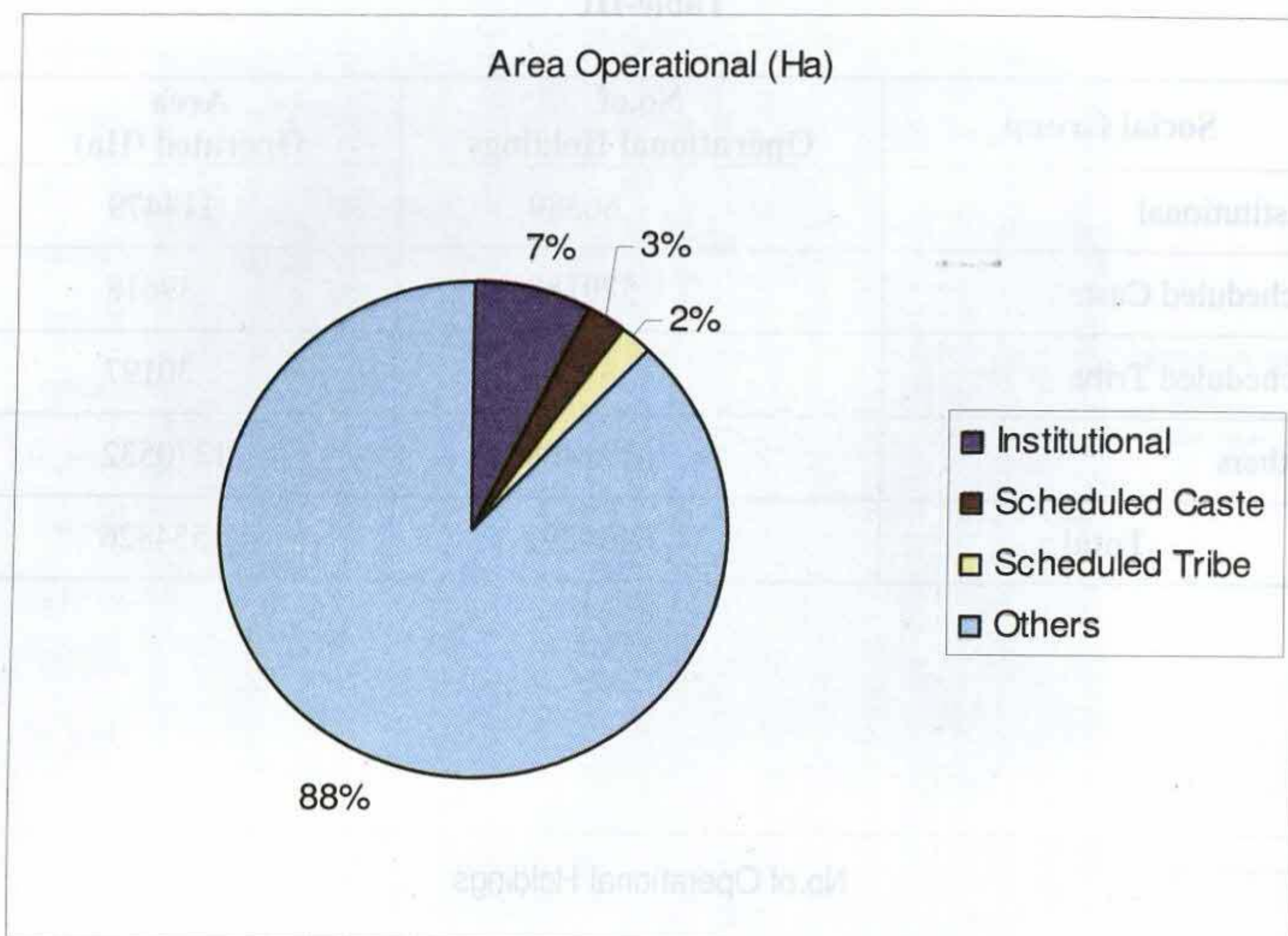
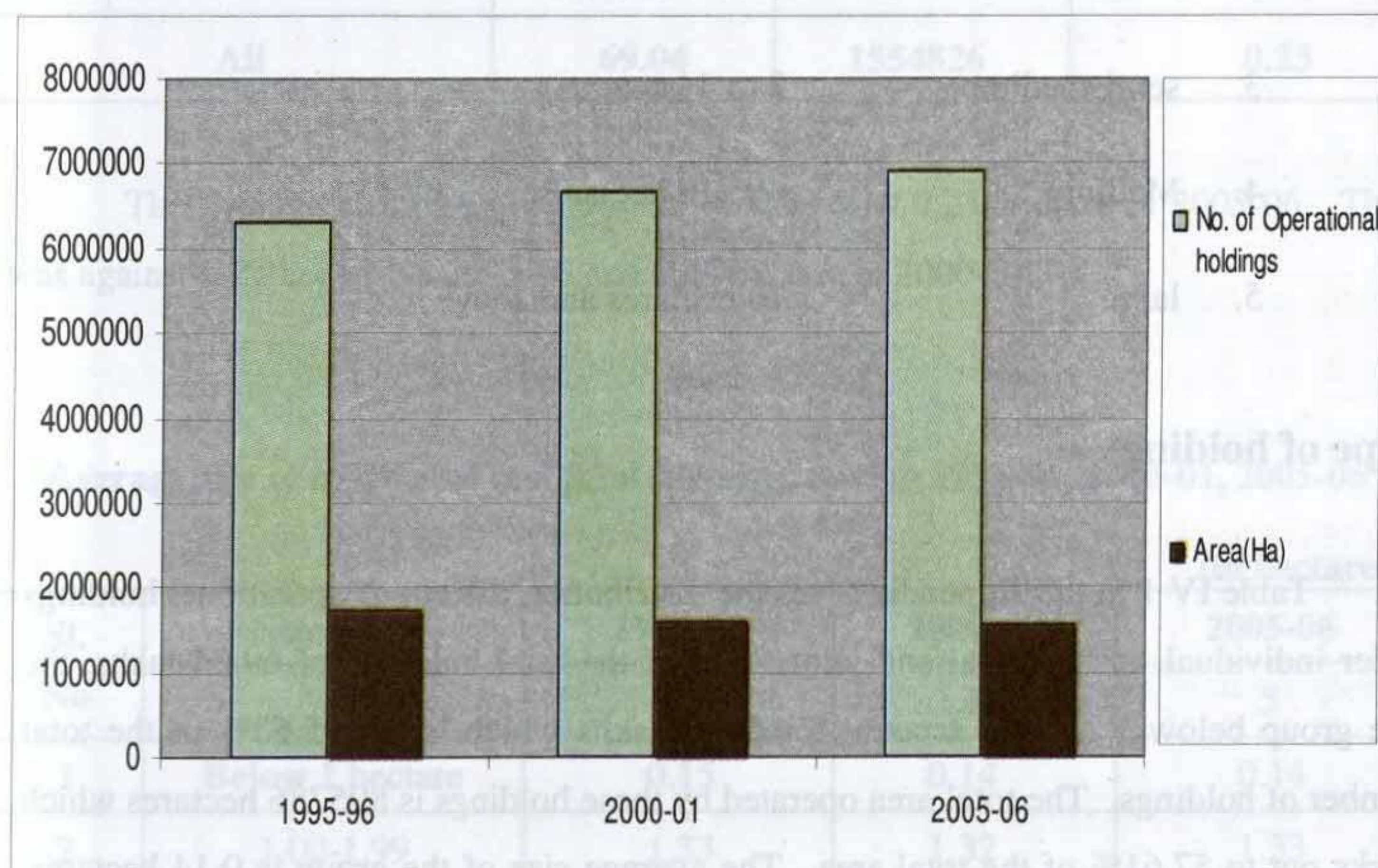


Table III reveals the fact that out of the total of 6904292 holdings 6171408 holdings are belonging to 'Others' category i.e., 89.39% of the total. Only 8.39% for Scheduled Caste, 1.26% for Scheduled Tribe and 0.96% for Institutional holdings. The corresponding percentage of area are Others – 88.15%, Scheduled Caste 2.55%, Scheduled Tribe 1.94% and Institutional 7.36%.

Table -IV

## Number and Area of Operational holdings during 1995-96, 2000-01, 2005-06

Sl. No	year	No. of Operational holdings	Area (Ha)
1	1995-96	6298314	1712223
2	2000-01	6656632	1569488
3	2005-06	6904292	1554826



On examining the above table it is seen that an increasing trend is visible in the number of operational holdings from 1995-96 to 2005-06, whereas a diminishing trend is observed in the corresponding area operated.

For generating state wise tables the 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.	marginal	-	Below 1 hectare
2.	small	-	1 to 2 hectares
3.	semi-medium	-	2 to 4 hectares
4.	Medium	-	4 to 10 hectares
5.	large	-	10 hectares and above

### **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 69.04 lakhs, the size group below 1 hectare account for 66.02 lakhs which is the 95.63% of the total number of holdings. The total area operated by these holdings is 895786 hectares which works out to 57.61% of the total area. The average size of the group is 0.14 hectares. Next to marginal holders, the holders in the group of small, numbering to 2.15 lakhs which is the 3.11% of the total number of holdings with an operated area of 284820 hectares which is 18.32% of total operated area with an average size class of 1.32 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 58.44 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	66.02	895786	0.14
2	1 to 2 hectares	2.15	284820	1.33
3	2 to 4 hectares	0.70	178574	2.56
4	4 to 10 hectares	0.15	78757	5.25
5	10 hectares and above	0.02	116889	58.44
<b>All</b>		<b>69.04</b>	<b>1554826</b>	<b>0.23</b>

The average size of an operational holding was 0.23 hectare in 2005-06. This was against 0.27 hectare in 1995-96 and 0.24 hectare in 2000-01.

Table - IV-2

## Average size of individual and joint holdings during 1995-96, 2000-01, 2005-06

Sl. No	Size class	(in hectares)		
		1995-96	2000-01	2005-06
	2	3	4	5
1	Below 1 hectare	0.15	0.14	0.14
2	1.00-1.99	1.33	1.32	1.33
3	2.00-3.99	2.55	2.51	2.56
4	4.00-9.99	5.26	5.3	5.25
5	10.00 and above	35.41	37.31	58.44
<b>Total</b>		<b>0.27</b>	<b>0.24</b>	<b>0.23</b>

## **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 601428 in 2000-01 to 579188 during 2005-06, recording a decrease of 22049 ie 3.70%.

Regarding area of the operational holders of this social group, the same has decreased from, 45089 hectares to 39576 hectares, which shows a percentage decrease of 12.23%. The average size of holdings decreased in this social group also.

## **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 decreased from 90628 in 2000-01 to 87307 in 2005-06 recording a decrease of 3.66% correspondingly operated area decreased from 34263 hectares in 2000-01 to 30197 hectares in 2005-06. The average size of holdings decreased in this social group also.

## **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 (Below 1.00)	6602443 (95.63)	576683 (99.57)	79198 (90.71)	5946562 (95.33)	895786 (57.61)	35709 (90.13)	16432 (54.42)	843645 (56.81)
2	Small (1.00-1.99)	214832 (3.11)	2084 (0.36)	6165 (7.06)	206583 (3.31)	284820 (18.32)	2748 (6.94)	8052 (26.66)	274020 (18.45)
3	Semi-medium (2.00-3.99)	69710 (1)	381 (0.06)	1644 (1.88)	67685 (1.09)	178574 (11.48)	937 (2.36)	4056 (13.43)	173581 (11.69)
4	Medium (4,00-9.99)	14858 (0.22)	40 (0.01)	285 (0.33)	14533 (0.23)	78757 (5.07)	224 (0.57)	1374 (4.55)	77159 (5.2)
5	Large (10.00 &above)	2449 (0.04)	0	15 (0.02)	2434 (0.04)	116889 (7.52)	0	283 (0.94)	116606 (7.85)
	<b>All sizes</b>	6904292 (100)	579188 (100)	87307 (100)	6237797 (100)	1554826 (100)	39618 (100)	30197 (100)	1485011 (100)

It is seen from the above Table that 99.57% of the Scheduled Caste operational holders (below 1 hectare) operated 90.13% of the total area of that category, 0.36% of the holders (1.00 to 1.99 hectare) operated 6.94% of the operated area, 0.06% (2.00 to 3.99 hectares) operated 2.36% of the operated area etc with regard to Scheduled Tribe 90.71% operational holders of this social group, belongs to below 1 hectare operate 54.42% of the operated area 7.06% of (in the size class 1 to 1.99 hectare) of the operational holders operate 26.66% of the area operated by them.

The concentration is higher in the marginal operators of other social group 95.33% in number and operated area 56.81%. The other concentration is in small (1.00 – 1.99 hectares) operates 3.31% and semi medium (2.00 to 3.99 hectare) 1.09% operating an area of 18.45% and 11.69% respectively.

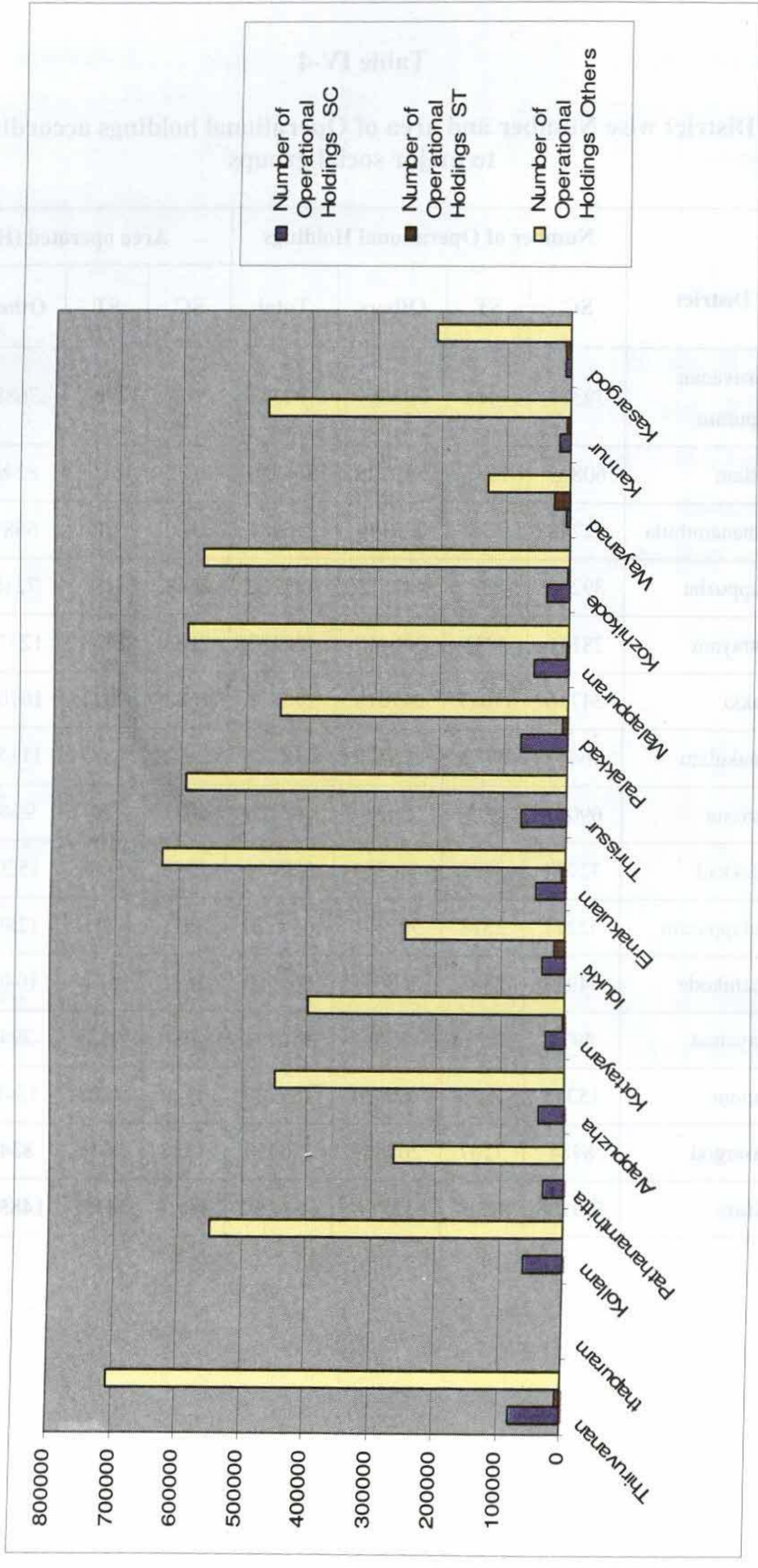
A social group wise comparison of the results shows that out of the total operational holders, scheduled caste operational holders constitute only 8.39% and scheduled tribe operational holders constitute 1.26%. 90.35% of operational holders are in other social group. Similar in the case of operated area also, i.e. scheduled caste 2.55% and scheduled tribe 1.94% operational holders of general category constitute 95.51%.

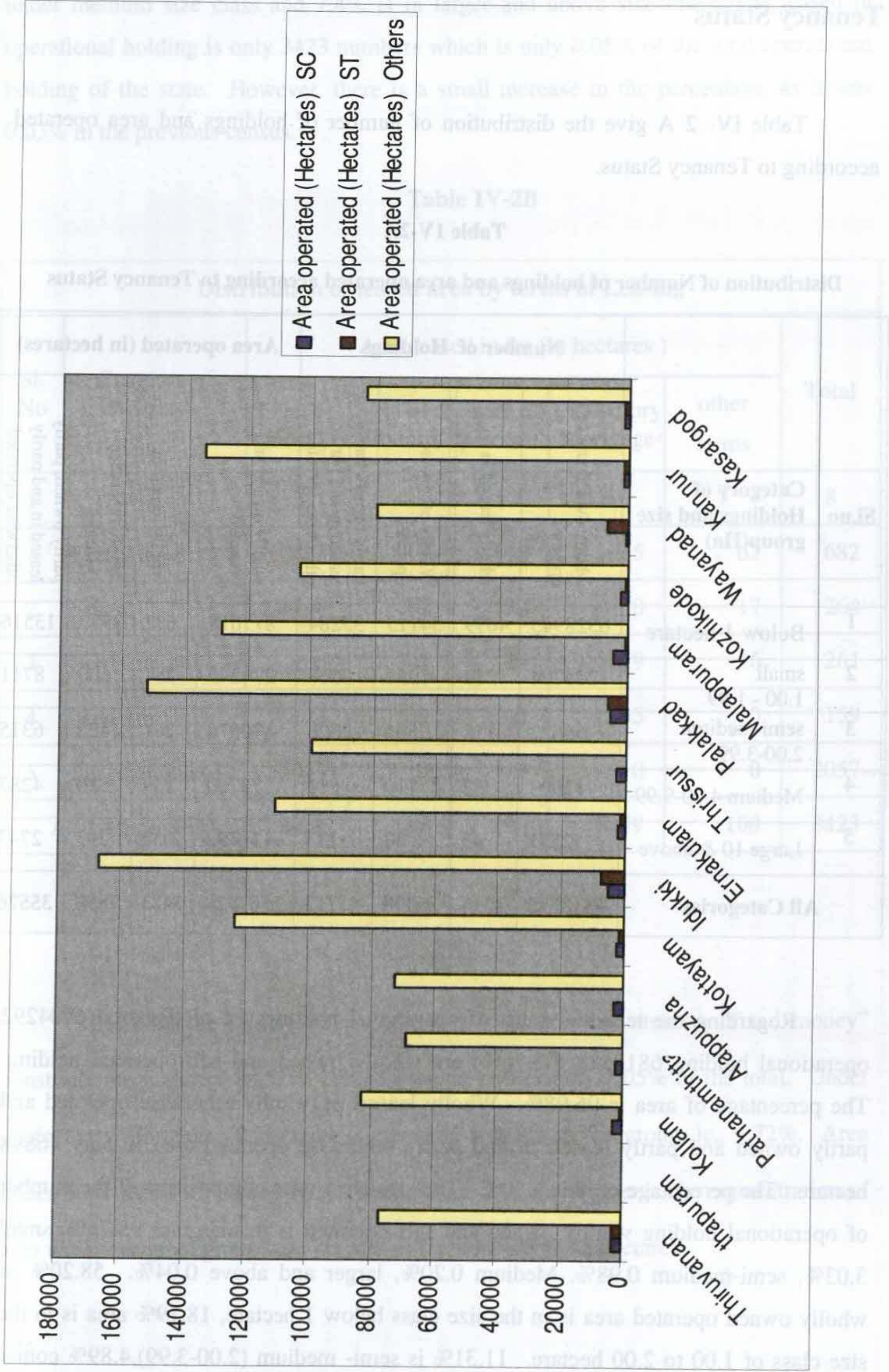
Table IV (4) shows district-wise distribution of operational holding and area according to social group. Scheduled caste operational holders are largest in Thiruvananthapuram district and it is lowest in Wayanad district. Operated area is largest in Idukki and lowest in Wayanad. ST operators are highest 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	79377	7414	705551	792342	2637	2907	76882	82426
2	Kollam	60835	1332	549729	611896	3122	513	82464	86099
3	Pathanamthitta	32749	536	263199	296484	2100	106	68817	71023
4	Alappuzha	39200	483	447518	487201	2648	18	72185	74851
5	Kottayam	28146	3931	396410	428487	2163	1438	123791	127392
6	Idukki	34716	17077	247018	298811	5485	7022	167069	179576
7	Ernakulam	46467	5972	625873	678312	2494	1575	111518	115587
8	Thrissur	69037	802	593287	663126	3031	89	99440	102560
9	Palakkad	72734	8897	446363	527994	5338	6088	152079	163505
10	Malappuram	52211	2318	592591	647120	4621	701	128936	134258
11	Kozhikode	34913	2585	568071	605569	2531	571	104085	107187
12	Wayanad	4974	23723	127694	156391	764	6325	79481	86560
13	Kannur	15345	5130	466634	487109	1349	1208	134852	137409
14	Kasargod	8484	7107	207859	223450	1335	1636	83412	86383
	<b>State</b>	<b>579188</b>	<b>87307</b>	<b>6237797</b>	<b>6904292</b>	<b>39618</b>	<b>30197</b>	<b>1485011</b>	<b>1554826</b>





## Tenancy Status

Table IV- 2 A give the distribution of number of holdings and area operated according to Tenancy Status.

**Table 1V-2A**

**Distribution of Number of holdings and area operated according to Tenancy Status**

Sl.no	Category of Holdings and size group(Ha)	Number of Holdings				Area operated (in hectares)			
		wholly owned and self operated	wholly leased in	Wholly otherwise operated	Partly owned, partly leased in and partly otherwise operated	wholly owned and self operated	wholly leased in	Wholly otherwise Operated	partly owned, partly leased in and partly otherwise operated
1	Below 1 hectare	6528945	4099	34115	35284	877615	682	3973	13516
2	small 1.00 - 1.99	206794	219	1251	6568	274245	264	600	8711
3	semi-medium 2.00-3.99	66622	118	594	2376	170576	261	1422	6315
4	Medium 4.00-9.99	13903	33	110	812	73700	159	610	4287
5	Large 10 & above	2251	45	20	133	111792	2057	293	2747
<b>All Categories</b>		<b>6818515</b>	<b>4514</b>	<b>36090</b>	<b>45713</b>	<b>1507928</b>	<b>3423</b>	<b>7898</b>	<b>35576</b>

Regarding the tenancy status of operational holding out of the total 6904292 operational holding 6818515 (98.76%) are wholly owned and self-operated holding. The percentage of area is 96.98%. Wholly leased in, wholly otherwise operated and partly owned and partly leased in and partly otherwise operated area is only 46898 hectare. The percentage of area is 3.02. The size class wise composition of the number of operational holding wholly owned and self operated is in marginal 95.75%, small 3.03%, semi-medium 0.98%, Medium 0.20%, larger and above 0.04%. 58.20% of wholly owned operated area is in the size class below 1 hectare, 18.19% area is in the size class of 1.00 to 2.00 hectare. 11.31% is semi- medium (2.00-3.99),4.89% comes

under medium size class and 7.4% is in larger and above size class. The leased in operational holding is only 3423 numbers which is only 0.05% of the total operational holding of the state. However, there is a small increase in the percentage, as it was 0.03% in the previous census.

**Table 1V-2B**

<b>Distribution of leased area by terms of Leasing</b>							
Sl. No	Category of holdings	Area leased in for (in hectares )					Total
		Fixed money	Fixed produce	Share of produce	Usufactory Mortgage	other terms	
1	2	3	4	5	6	7	8
1	Marginal	445	17	148	5	67	682
2	Small	198	19	30	0	17	264
3	Semi-medium	206	0	20	19	16	261
4	Medium	124	0	0	35	0	159
5	Large 10&above	2057	0	0	0	0	2057
<b>All Categories</b>		<b>3030</b>	<b>36</b>	<b>198</b>	<b>59</b>	<b>100</b>	<b>3423</b>

Regarding the terms of leasing, leased cultivation of area on “fixed money” constitute the majority 88.52%. Fixed produce comes only 1.05% of the total. Under usufactory mortgage 59 hectares of operated area are in the group, i.e., 1.72%. Area under other terms of leasing is 100 hectares i.e. 2.92%. Higher is the concentration of area under marginal group who operate as fixed money (445 hectare).

## Land utilization and Comparison with previous census

Table IV 5 below gives the statement of land utilization of the Agricultural Census 2005-06 reveals that 83.65% of the area used for cultivation during the census period. Which is about 0.08 greater than the last census (83.57%). Land not available for cultivation has increased by 2.24 than the last census. This shows a negative sign in the recent scenario of Agriculture.

**Table 1V-5**

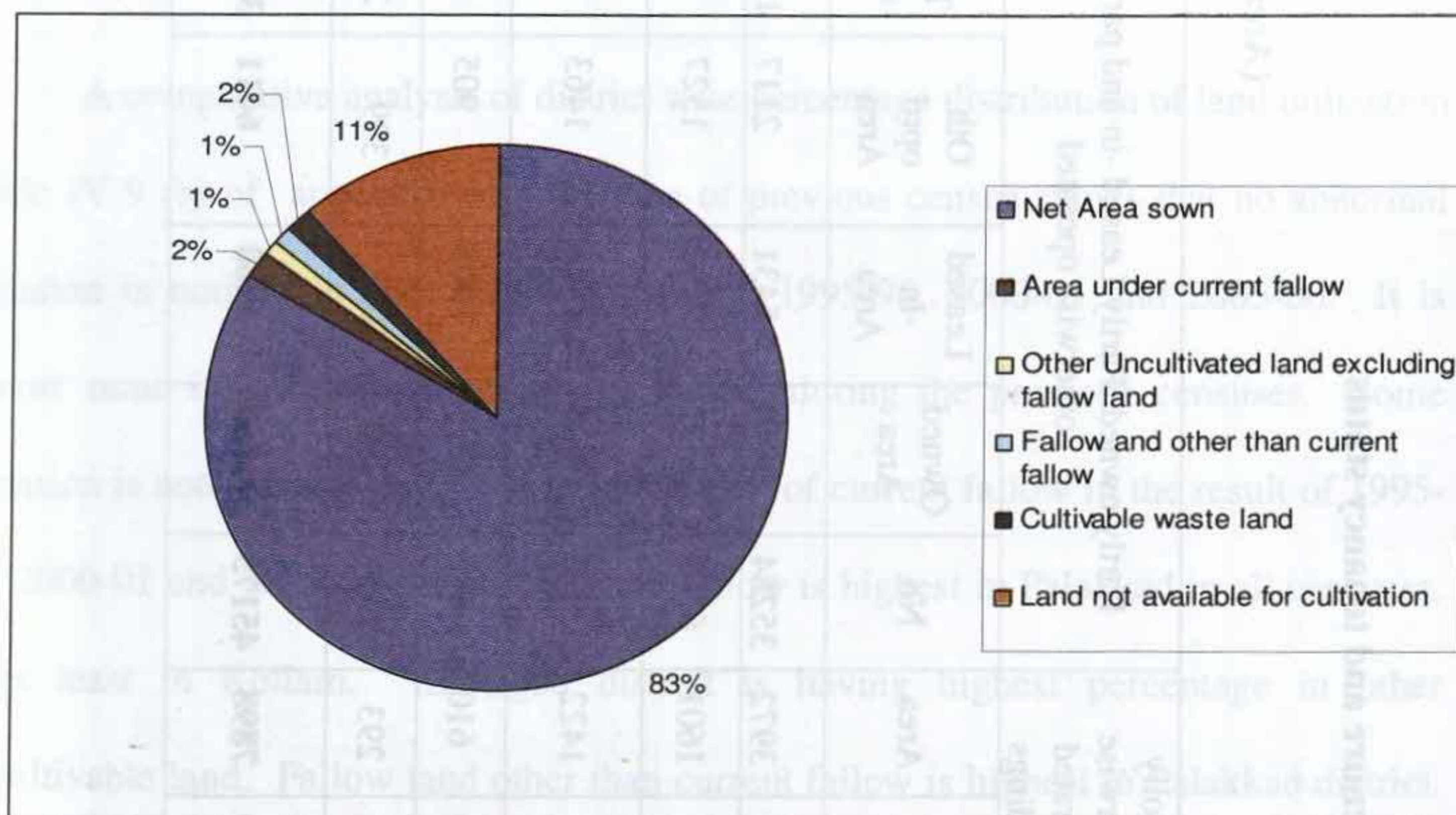
### Land Utilization pattern (Operational holdings Approach)

( Area in Hectares )

Sl. No.	Land Use pattern in operational holdings	1995-96		2000-01		2005-06	
		Area	% age	Area	% age	Area	% age
1	2	3	4	5	6	7	8
1	Net Area sown	1446571	84.48	1311566	83.57	1300601	83.65
2	Area under current fallow	22308	1.3	26561	1.69	26382	1.70
3	Other Uncultivated land excluding fallow land	24195	1.41	47919	3.05	12504	0.80
4	Fallow and other than current fallow	15729	0.93	16307	1.04	14771	0.95
5	Cultivable waste land	22146	1.29	25249	1.61	25191	1.62
6	Land not available for cultivation	181274	10.59	141886	9.04	175380	11.28
<b>Total</b>		<b>1712223</b>	<b>100</b>	<b>1569488</b>	<b>100</b>	<b>1554826</b>	<b>100</b>



Land utilization 2005-06



The census results reveals that out of the total area of 1554826 hectares, net cultivated area (net area sown + current fallow) is 1326983 hectares, which is 85.35% of the total operated area. Land not available for cultivation is only 11.28%. Compared with the results of the last censuses of 1995-96 and 2000-01. The net area sown has decreased from 84.48% in 1995-96 to 83.57% in 2000-01 and it is increased to 83.65% in 2005-06. Other uncultivable land excluding fallow land has decreased from 3.05% in 2000-01 to 0.80% in 2005-06. Land not available for cultivation has decreased from 10.59% in 1995-96 to 9.04% in 2000-01. But the same has increased from 9.04% to 11.28% when reached in 2005-06.

Analyzing the structure of land utilization against the total operated area in each district (Table IV 9 (a)) is observed that out of the total operated area, net area sown is highest (89.31%) in Idukki, while it is lowest in (73.67%) in Alappuzha District. Land not available for cultivation is highest in Ernakulam.

Table IV-6

## Number and area of operational holdings according to tenure and tenancy status

All Social group (Area in Hectares)

Sl. No.	Size Class of operational holdings (Ha)	Total holdings		Wholly owned and self operated holdings		Wholly leased in Holdings		Wholly Otherwise Operated Holdings		Partly owned, Partly Leased -in and partly otherwise operated				Total Area
		No	Area	No	Area	No	Area	No	Area	No	Owned Area	Leased -in Area	Oth. oprd Area	
1	Below-1.00	6602443	895786	6528945	877615	4099	682	34115	3972	35284	5968	5431	2117	13516
2	Small 1.00-1.99	214832	284820	206794	274245	219	264	1251	1601	6568	4392	2792	1527	3711
3	Semi-medium 2.00-3.99	69710	178574	66622	170576	118	261	594	1422	2376	3035	1816	1463	6314
4	Medium 4.00-9.99	14858	78757	13903	73700	33	159	110	610	812	1879	1503	905	4287
5	Large -10 above	2449	116889	2251	111792	45	2057	20	293	133	1290	1058	399	2747
<b>All categories</b>		<b>6904292</b>	<b>1554826</b>	<b>6818515</b>	<b>1507929</b>	<b>4514</b>	<b>3423</b>	<b>36090</b>	<b>7898</b>	<b>45173</b>	<b>16564</b>	<b>1260</b>	<b>6411</b>	<b>35575</b>

A comparative analysis of district wise percentage distribution of land utilization Table IV 9 (b) of appendix with the data of previous census shows that no abnormal variation is noticed in net area sown during 1995-96, 2000-01 and 2005-06. It is almost same in all the districts except Idukki, during the previous censuses. Some variation is noticed between districts in the case of current fallow in the result of 1995-96, 2000-01 and 2005-06 census. Current fallow is highest in Palakkad in all censuses. It is least in Kollam. Kasargod district is having highest percentage in other uncultivable land. Fallow land other than current fallow is highest in Palakkad district. Malappuram district is having highest percentage is land not available for cultivation.

Table 10 in the appendix reveals the percentage of area under main land use to total operated area by district 1995-96, 2000-01, 2005-06. Out of the total operated area in the state 85.79% land is cultivated in 1995-96, 85.26 in 2000-01 and 84.81% during 2005-06 respectively. Uncultivated land is 3.36%, 5.70% and 3.49% in the state during 1995-96, 2000-01 and 2005-06. Land not available for cultivation is 10.59%, 9.04% and 11.72% in the state during these census period respectively.

Table - IV-7

Percentage of area under main land use to the total operated area by the state 1995-96, 2000-01 &amp; 2005-06

Sl. No	Size Class (Hectares)	Net Cultivated area			Un cultivated land			Land not available for cultivation			Total		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	3	4	5	6	8	9	10	11	12	13	14	
1	Marginal (Below 1 hectare)	82.69	82.44	81.72	3.12	0.24	3	14.19	3	15	100	100	
2	Small (1.00-1.99)	89.89	90.21	90.75	3.52	4.8	3.82	6.59	4.98	5.43	100	100	
3	Semi Medium (2-3.99)	89.47	90.06	91.51	4.06	4.96	3.86	6.47	4.98	4.63	100	100	
4	Medium (4.00-9.99)	89.37	89.46	89.96	4.51	5.36	4.29	6.12	5.18	5.75	100	100	
5	Large(10. and above)	87.02	82.85	87.4	6.53	5.35	3.82	6.45	11.8	8.78	100	100	
	<b>All Sizes</b>	<b>85.79</b>	<b>85.26</b>	<b>85.35</b>	<b>3.62</b>	<b>5.7</b>	<b>3.37</b>	<b>10.59</b>	<b>9.04</b>	<b>11.28</b>	<b>100</b>	<b>100</b>	

The size class wise analysis (Table IV-7) of land utilization with the comparison of data of earlier census reveals that the percentage composition of net cultivated area, uncultivated land, land not available for cultivation, it is seen that net cultivated area is higher (81 to 91%) in all the size classes. Higher is the percentage in small, semi medium and medium size class during the 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> censuses as is in the case of district wise distribution. The percentage distribution is almost uniform in all the censuses in all size classes except large in the case of uncultivated land. Land not available for cultivation increased from 10.59% (in 1995-96) to 11.28% in (2005-06).

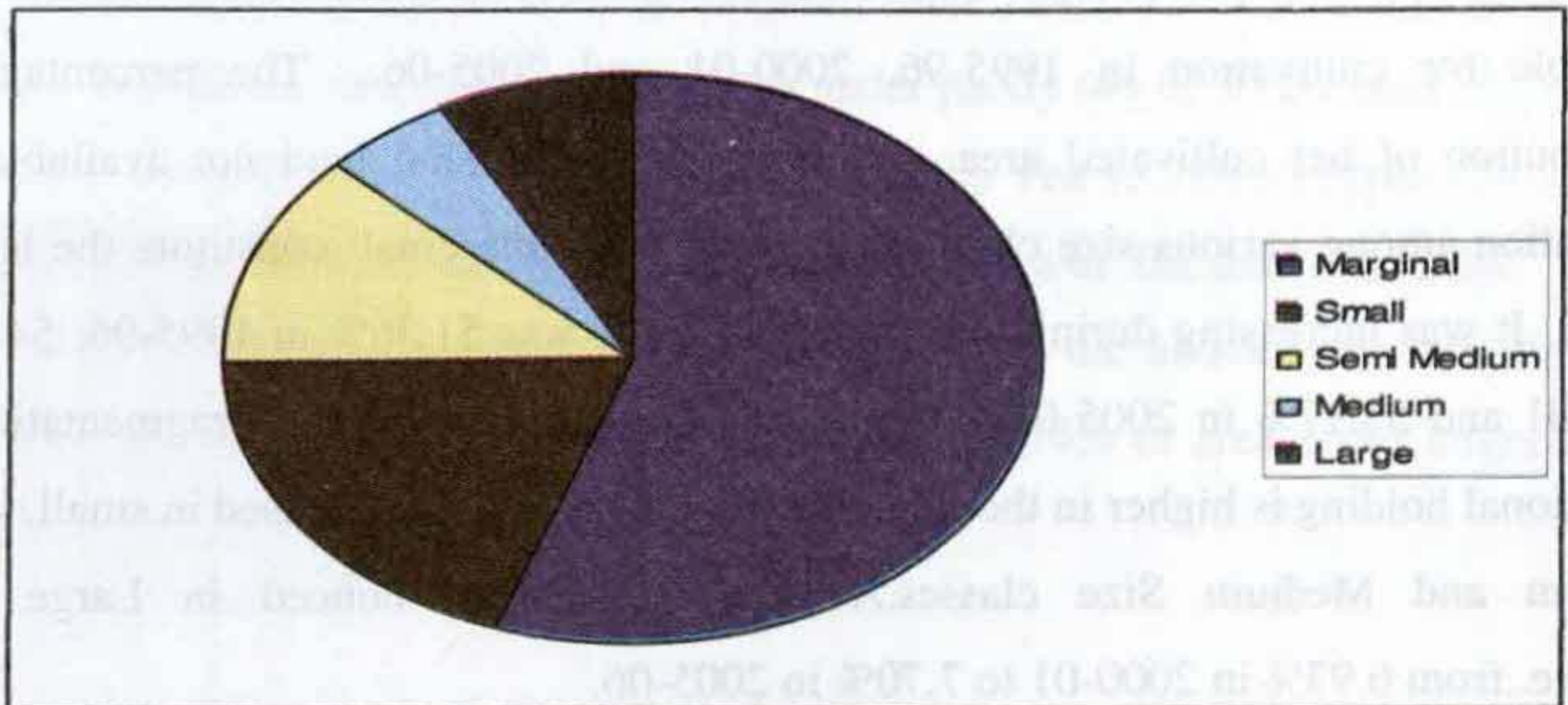
The percentage of net cultivated area of all size classes during 1995-96 is 85.79% and 85.26% in 2000-01 and 85.35% during 2005-06. The percentage of uncultivated land was 3.62%, 5.70%, 3.37% during 1995-96, 2000-01 and 2005-06 respectively. Land not available for cultivation was 10.59%, 9.04% and 11.28% during 1995-96, 2000-01 and 2005-06 respectively.

Table IV-8

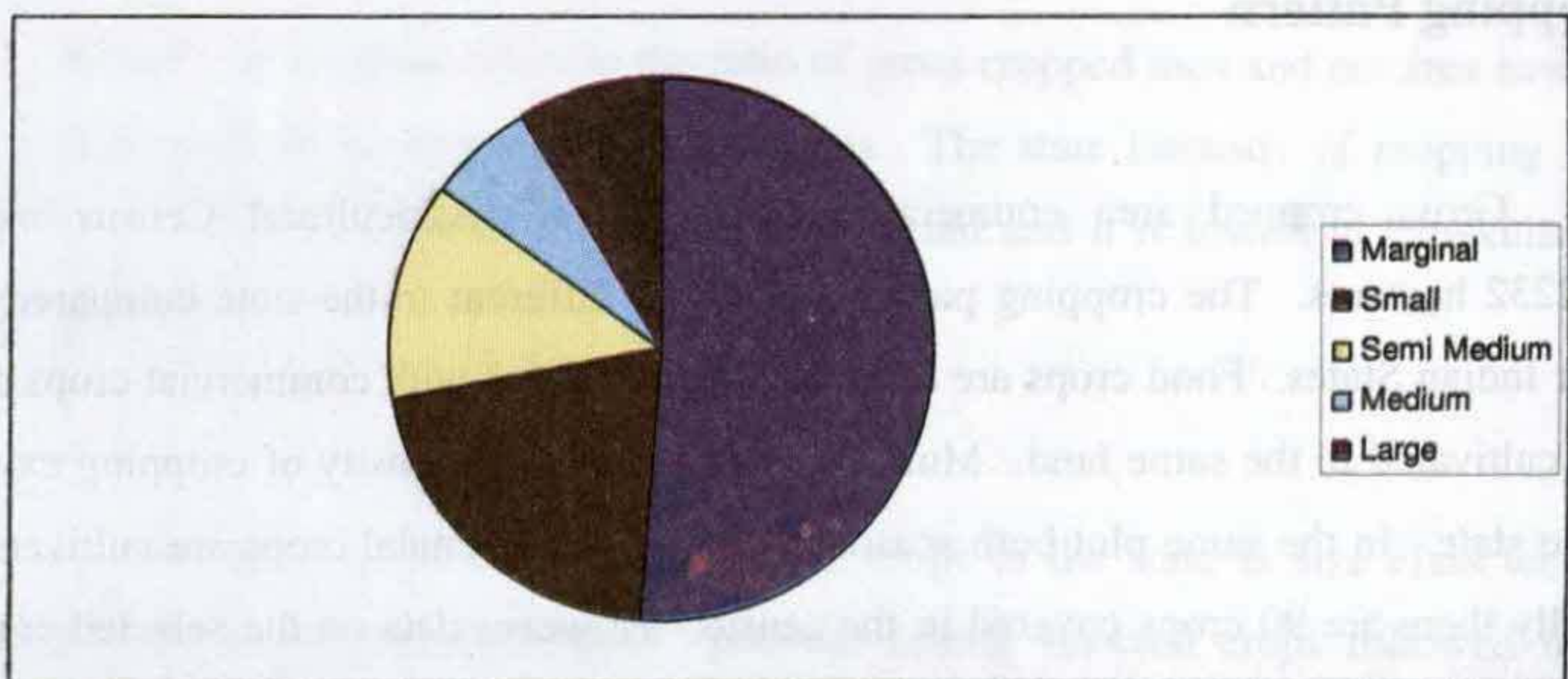
Percentage of Net Cultivated area, Total Uncultivated area and land available for cultivation in 1995-96, 2000-01 &amp; 2005-06

Sl No	Size Class (Hectares)	Net Cultivated Area			Un Cultivated Land			Land not available for cultivation		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	3	4	5	6	7	8	9	10	11
1	Marginal (Below 1 hectare)	51.36	54.37	55.17	45.86	61.6	51.18	71.44	70.38	78.04
2	Small (1.00-1.99)	21.39	20.21	19.48	19.85	16.1	20.71	12.7	10.52	8.82
3	Semi Medium(2-3.99)	14.86	12.82	12.31	15.97	10.6	13.15	8.71	6.68	4.71
4	Medium(4.-9.99)	6.32	5.67	5.34	7.55	5.08	6.44	3.5	3.1	2.58
5	Large(10. and above)	6.07	6.93	7.7	10.77	6.69	8.52	3.65	9.32	5.85
	<b>All Sizes</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Net cultivated Area 2005-06



Un Cultivated Land 2005-06



Land Not Available for Cultivation 2005-06

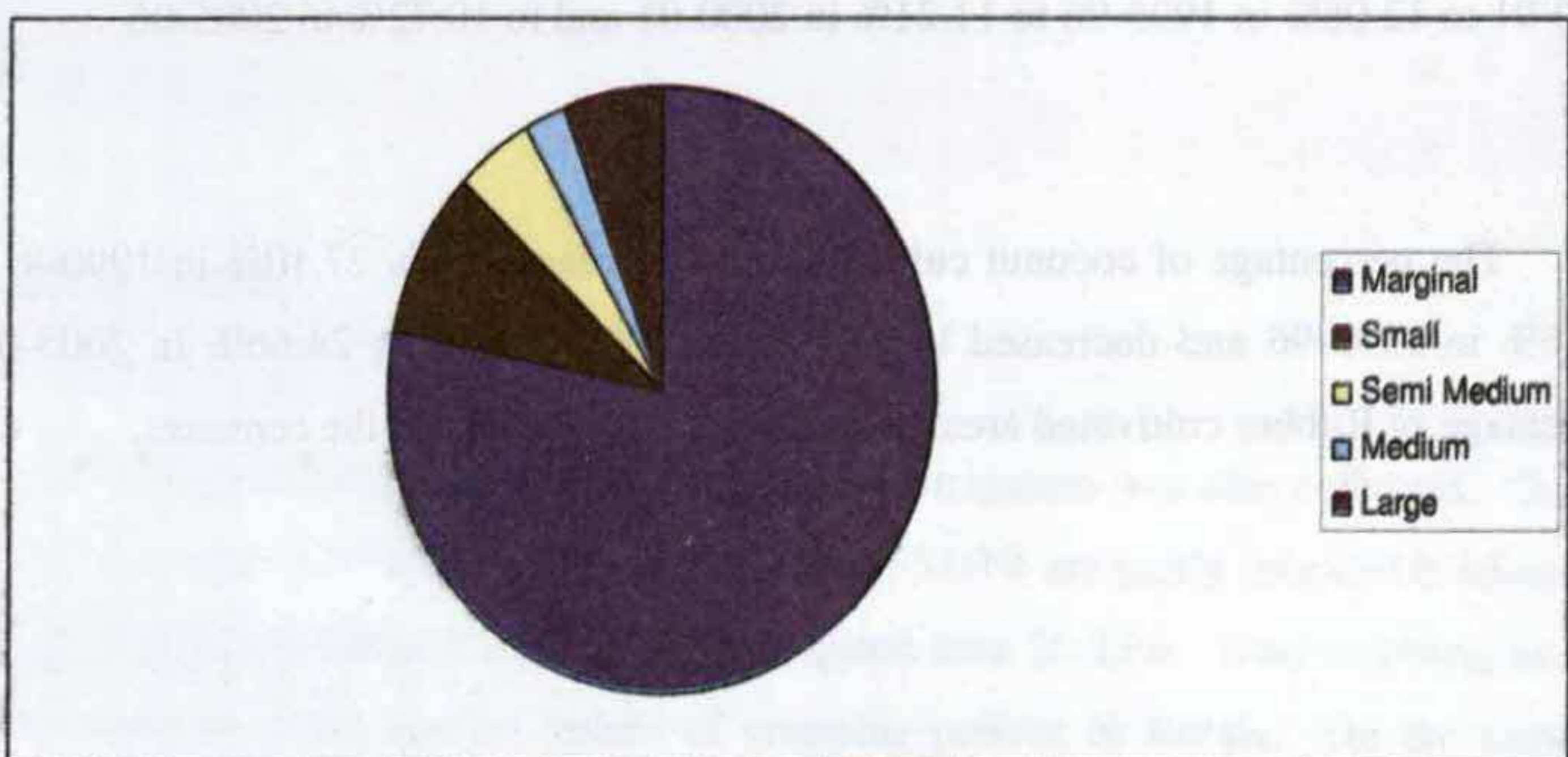


Table IV-8 is percentage of net cultivated area, total uncultivated area and land available for cultivation in 1995-96, 2000-01 and 2005-06. The percentage of contribution of net cultivated area, un cultivated land and land not available for cultivation among various size class group shows that 'marginal' constitute the largest group. It was increasing during every census, i.e., it was 51.36% in 1995-96, 54.37% 2000-01 and 55.17% in 2005-06 which means that sub division and fragmentation of operational holding is higher in the State. Net cultivated area is decreased in small, semi-medium and Medium Size classes. A little increase is noticed in Large Size class, i.e., from 6.93% in 2000-01 to 7.70% in 2005-06.

## Cropping Pattern

Gross cropped area enumerated during the 8<sup>th</sup> Agricultural Census were 1552232 hectares. The cropping pattern is entirely different in the state compared to other Indian States. Food crops are cultivated mainly along with commercial crops are also cultivated in the same land. Multiplicity of crops and intensity of cropping exists in the state. In the same plot both seasonal, annual and perennial crops are cultivated. Totally there are 90 crops covered in the census. However data on the selected crops are collected for analyzing crops wise percentage distribution of gross cropped area during 1995-96, 2000-01 and 2005-06. Paddy cultivated area decreased from 16.08% in 1990-91 to 12.06% in 1995-96 to 11.21% in 2000-01 and to 10.72% in 2005-06.

The percentage of coconut cultivated area increased from 27.10% in 1990-91 to 31.36% in 1995-96 and decreased to 25.70% in 2000-01 and to 24.66% in 2005-06. Percentage of Rubber cultivated area also shows an increase in all the censuses.



While looking into percentage distribution of area under principal crops in different size classes during the 2005-06 census (Table IV- 13) it is seen that marginal operators contributes larger percentage of area under paddy (44.02%) coconut (72.39%) Tapioca (74.30%) Rubber (45.47%) Cashew (53.37%) Tea (3.78%) Pepper (59.77%) Coffee (35.78%) Arecanut (55.27%) Mango (80.36%) and Banana (66.72%). The percentage of small, semi medium cultivators cultivating the above crops are almost same. Whereas tea is a plantation crops contributing 91.74% of area under larger size class.

### **Cropping Intensity**

Intensity of cropping refers to the ratio of gross cropped area and net area sown multiplied by 100 (it is expressed in percentage). The state intensity of cropping is 119.35%. Intensity of cropping is highest in Wayanad and it is lowest in Ernakulam and Malappuram.

An analysis of gross area under selected crops in the state in size class wise distribution shows coconut occupies 1<sup>st</sup> position among selected crops followed by rubber and paddy. Though tea is a plantation crop, the percentage of gross cropped area of tea under all size class is less than 1%. However the percentage under larger group is 39.5%.

### **Irrigation Status**

In the Agricultural Census 2005.06 details of irrigation was also collected. Out of the total holdings 3.07% are wholly irrigated and 55.09% are partly irrigated holdings wholly un irrigated holding is 38.29%. Net irrigated area 26.23%. Inter cropping and multiple cropping is the special feature of cropping pattern in Kerala. On the same

agricultural holding certain crops are irrigated where as some other crops are not irrigated.

The comparison of district wise distribution of wholly irrigated holdings, partly irrigated holdings and wholly unirrigated holdings through census i.e., 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> censuses is given under table 16. The table reveals that the percentage of number of holdings was increased from 4.90% in 1995-96 to 5.67% in 2000-01 and it is decreased to 3.07% in 2005-06 partly irrigated holdings were 37.73%, 49.44%, 55.09% respectively. The partly irrigated area 18.66, 21.61 and 22.99 respectively in each census. In the state out of the total net area sown net irrigated area was 23.56% in 1995-96, 27.28% in 2000-01 and 26.23% in 2005-06.

Analysing the sources of irrigation to different size classes compared with the result of previous census the percentage of irrigated area is higher in marginal followed by small, semi medium, medium from all sources, viz. Canal, Tank, Well, Tube well and other sources. This characteristic is same during the earlier census results also. Among the various sources, well and tube well is highest in marginal size class, i.e. 55.10%, 63.42%, 69.36% and 54.54%, 54.79%, 49.20% during 1995-96, 2000-01 and 2005-06 respectively. Table 16 (a) in the appendix given various percentage of source wise and size class wise irrigation during 6<sup>th</sup>, 7<sup>th</sup> and 8<sup>th</sup> census.

Table 16(b) shows the percentage distribution of irrigation from different source, to various size classes. Well irrigation is the largest source of irrigation. The census result reveals that tube well irrigation percentage is least in the State in all the periods of census. It is only 5.39% in 1995-96 5.27% in 2000-01 and 6.26% in 2005-06.

Table 16 (c) shows the district wise distribution of holdings receiving irrigation by different sources. The different sources listed are canal, tank, well, tube wells and

other sources. Out of the 3122209 irrigated holdings canal irrigated holdings are 164794, tank irrigated holding 118335, well irrigated holdings 1903034, Tube well irrigated holdings are 220092 and other sources irrigated holdings are 715954.

The distribution of district wise area irrigated by different sources revealed from 2005-06 census is given under Table 16 (d). The percentage of canal irrigated area is largest in Palakkad 55.20% and lowest in Kollam and Kottayam Districts, 0.17% each Tank irrigated area is largest in Idukki 27.82%. Among the districts used for wells for irrigation purpose, Thrissur stands first 24.51% and Wayanad is the least 0.78% Tube well irrigated area is highest in Palakkad and the least in Kollam 0.08%. It is also below 1% in Pathanamthitta (0.20%), Kottayam (0.45%) Wayanad (0.43%) Irrigation from other sources is highest in Idukki (16.45%) and least in Kollam (1.50%).

A comparative analysis of percentage of area irrigated from different sources in each district during 1995-96, 2000-01 and 2005-06 are given in table 16 (f). The census reveals that in the state the percentage of canal irrigated area is decreasing i.e. 18.48%, 18.08%, 15.81% in 1995-96, 2000-01 and 2005-06 respectively. The percentage of well-irrigated area shows a decrease in 2005-06. It is decreased from 41.88% in 2000-01 to 33.11% in 2005-06. Tube well irrigation is not prominent in all the census period except in Alappuzha.

## **Irrigation Source**

Table 16 (g) gives the number of wells and tube wells used for irrigation. There are 1352230 wells and 222811 Tube wells with pump set and 630432 wells without pump set used for irrigation in the state as revealed in the census during 2005-06. Out of the total number of wells used for irrigation 1333355 are electric connected and 18875 are diesel connected. Tube wells connected with electricity are 219142 and diesel tube wells are 3669. There are 1219436 wells connected with pump set, 616198

wells without pump set and 205355 tube wells used for irrigation in marginal size class. Under large size class (10 hectare and above) there are 1579 wells and 369 Tube wells used for irrigation.

Distribution of district wise number of wells and tube wells are given in table 16 (h). The largest number of wells with pump set are in Thrissur (299581) district and lowest in Wayanad (3816) district. Wells without pump set are higher in Thiruvananthapuram 141542. Majority of wells with pump set is electric connected. Wells with diesel pump set are 18875 in the state. Tube wells are largest in Alappuzha (118843) district. Electric connected tube wells are also largest in Alappuzha district 118381. Diesel connected tube wells are highest in Ernakulam District (597).

### **Intensity of Irrigation**

Table 17 reveals the intensity of irrigation. The intensity of irrigation is measured as a ratio of gross irrigated area to net irrigated area and is expressed as percentage. The census reveals that the percentage of intensity of irrigation is 110.21. The intensity of irrigation during 1995-96 and 2000-01 is 113.97 and 109.25 respectively. The distribution among various size classes are almost the same. It is 111.1% in marginal size class. The intensity of irrigation shows an increasing trend when compared with the 7th Agriculture Census.

The district wise percentage distribution of gross cropped area according to irrigation status Table 17 (a) shows that percentage of irrigated area in the state is only 24.83%. The un irrigated area is 75.17% out of the gross cropped area. The percentage of gross cropped area irrigated is highest in Thrissur 59.28% and lowest in Kollam 6.63%. The percentage of gross cropped area un irrigated is highest in Kollam 93.37% and lowest in Thrissur 40.72%.

## APPENDICES

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

Sl.no	Size Class (hectares)	Individual Holdings						Joint Holdings					
		Number			Area			Number			Area		
		2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Below 1.00	6540345	6257419	4.52	883658	868681	1.72	3645	6653	-45.21	1071	1498	-28.50
2	1.00-1.99	210341	221372	-4.98	278754	292609	-4.73	440	635	-30.71	590	836	-29.43
3	2.00-3.99	67483	72939	-7.48	172801	183386	-5.77	200	231	-13.42	516	621	-16.91
4	4.00-9.99	13778	14874	-7.36	72414	78205	-7.4	120	65	84.62	629	351	79.2
5	10.00&above	1501	1779	-15.63	28767	33662	-14.54	50	5	900	1147	804	42.66
	<b>All sizes</b>	<b>6833448</b>	<b>6568383</b>	<b>4.04</b>	<b>1436394</b>	<b>1456543</b>	<b>-1.38</b>	<b>4455</b>	<b>7589</b>	<b>-41.30</b>	<b>3953</b>	<b>4110</b>	<b>-3.82</b>

Sl. No	Size Class (hectares)	Institutional Holdings						Grand Total						Average size of holdings	
		Number			Area			Number			Area			2005-06	2000-01
		2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01
1	2	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Below 1.00	58453	71356	-18.08	11058	12323	-10.27	6602443	6335428	-4.21	895783	882502	1.51	0.14	0.14
2	1.00-1.99	4051	4803	-15.66	5476	6322	-13.38	214832	226810	-5.28	284820	299767	-4.99	1.33	1.32
3	2.00-3.99	2027	2481	-18.30	5257	6520	-19.37	69710	75651	-7.85	178574	190527	-6.27	2.56	2.52
4	4.00-9.99	960	1069	-10.2	5713	6203	-7.9	14858	16008	-7.18	78757	84759	-7.08	5.30	5.29
5	10.00& above	898	951	-5.57	86975	77467	12.27	2449	2735	-10.46	116889	111933	4.43	47.73	40.93
	<b>All sizes</b>	<b>66389</b>	<b>80660</b>	<b>-17.69</b>	<b>114479</b>	<b>108835</b>	<b>5.19</b>	<b>6904292</b>	<b>6656632</b>	<b>3.72</b>	<b>1554826</b>	<b>1569488</b>	<b>-0.93</b>	<b>0.23</b>	<b>0.24</b>

**Table IV-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	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Below 1.00	576588	597338	-3.47	35688	38760	-7.93	95	291	-67.35	21	53	-6.04
2	1.00-1.99	2084	3249	-35.86	2748	4245	-35.27	0	5	-100	0	7	-100.00
3	2.00-3.99	371	430	-13.72	916	1064	-13.91	10	0	0	21	0	0
4	4.00-9.99	40	95	-57.89	224	453	-50.55	0	0	0	0	0	0
5	10.00&above	0	20	-100.00	0	567	-100.00	0	0	0	0	0	0
	<b>All sizes</b>	<b>579083</b>	<b>601132</b>	<b>-3.67</b>	<b>39576</b>	<b>45089</b>	<b>-12.23</b>	<b>105</b>	<b>296</b>	<b>-64.53</b>	<b>42</b>	<b>60</b>	<b>-30.00</b>

Sl. No.	Size class (Hectares)	Institutional Holdings						Grand Total						Average size of Holdings	
		Number			Area			Number			Area			2005-06	2000-01
		2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01
1	2	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Below 1.00	-	-	-	-	-	-	576683	597629	-3.50	35709	38813	-8.00	0.06	0.06
2	1.00-1.99	-	-	-	-	-	-	2084	3254	-35.96	2748	4252	-35.37	1.32	1.31
3	2.00-3.99	-	-	-	-	-	-	381	430	-11.40	937	1064	-11.94	2.46	2.47
4	4.00-9.99	-	-	-	-	-	-	40	95	-57.89	224	453	-50.55	5.6	4.47
5	10.00&above	-	-	-	-	-	-	0	20	-100.00	0	567	-100.00	0	28.35
	<b>All sizes</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>579188</b>	<b>601428</b>	<b>-3.70</b>	<b>39618</b>	<b>45149</b>	<b>-12.25</b>	<b>0.07</b>	<b>0.08</b>



Table 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	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Below 1.00	78990	80655	-2.06	16349	17530	-6.74	208	278	-25.18	83	151	-45.03
2	1.00-1.99	6155	7117	-13.52	8039	9271	-13.29	10	57	-82.46	13	68	-80.88
3	2.00-3.99	1629	2094	-22.21	4019	4949	-18.79	15	5	-200.00	37	12	208.00
4	4.00-9.99	280	417	-32.85	1354	2180	-37.89	5	0	-	20	0	0
5	10.00 & above	15	5	200.00	283	102	-177.45	0	0	0	0	0	0
6	All sizes	87069	90288	-3.57	30044	34032	-11.72	238	340	-30	153	231	-33.77

Sl. No.	Size class (Hectares)	Individual Holdings						Joint Holdings						Average size of Holdings	
		Number			Area			Number			Area			2005-06	2000-01
		2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation	2005-06	2000-01	% of Variation		
1	2	15	16	17	18	19	20	21	22	23	24	25	26	27	28
1	Below 1.00	-	-	-	-	-	-	79198	80933	-2.14	16432	17681	-7.06	0.21	0.22
2	1.00-1.99	-	-	-	-	-	-	6165	7174	-14.06	8052	9339	-13.78	1.31	1.30
3	2.00-3.99	-	-	-	-	-	-	1644	2099	-21.68	4056	4961	-18.24	2.47	2.36
4	4.00-9.99	-	-	-	-	-	-	285	417	-31.65	1374	2180	-36.97	4.82	5.23
5	10.00 & above	-	-	-	-	-	-	15	5	200.00	283	102	177.45	18.87	20.40
	All sizes	-	-	-	-	-	-	87307	90628	-3.66	30197	34263	-11.87	0.35	0.38

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

(Area in Hectares)

Sl. No	Size Class	Thiruvananthapuram	Kollam	palhananthitta	Alappuzha	Kottayam	Idukki	Ernakulam	Thrissur	Palakkad	Malappuram	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Below - 1.00	784996	603487	284448	476067	396626	266897	654501	647862	486321	620685	588514	135793	455348	200898	6602443
2	Small 1.00-1.99	6081	6879	9713	7924	21938	23774	17083	12002	26517	18854	12840	13502	22422	15663	214832
3	Semi-medium 2.00-3.99	1055	1264	1968	2559	7715	6215	5586	2688	11942	6063	3411	5543	7934	5767	69710
4	medium 4.00-9.99	150	231	250	606	1863	1332	1017	539	3293	1358	659	1268	1290	1002	14858
5	large - 10 above	60	35	105	45	345	593	125	35	281	160	154	285	115	120	2449
	All categories	792342	611896	296484	487201	428487	298811	678312	663126	527994	647120	605569	156391	487109	223450	6904292

Table 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	Kasaragod	state
1	Below - 1.00	79347	60830	32729	39030	27910	33958	46402	69012	72353	51808	34828	4868	15275	8333	576683
2	Small 1.00- 1.99	30	5	15	135	201	617	60	25	266	368	85	66	60	151	2084
3	Semi- medium 2.00-3.99	0	0	5	35	35	126	5	0	100	30		35	10	0	381
4	medium 4.00-9.99	0	0	0	0	0	15		0	15	5		5		0	40
5	large - 10 above	0	0	0	0	0	0		0	0	0				0	0
<b>All categories</b>		<b>79377</b>	<b>60835</b>	<b>32749</b>	<b>39200</b>	<b>28146</b>	<b>34716</b>	<b>46467</b>	<b>69037</b>	<b>72734</b>	<b>52211</b>	<b>34913</b>	<b>4974</b>	<b>15345</b>	<b>8484</b>	<b>579188</b>

Table 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	Thirissur	Palakkad	Malappuram	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Below -1.00	6742	1292	526	483	3508	15237	5348	797	6622	1906	2442	22376	5016	6903	79198
2	Small 1.00-1.99	582	40	10	0	323	1546	543	5	1350	387	138	973	89	179	6165
3	Semi-medium 2.00-3.99	85			0	80	269	61		775	20	5	299	25	25	1644
4	Medium 4.00-9.99	5			0	20	25	20		150	5	0	60	0	0	285
5	large - 10 above	0			0		0	0		0	0	0	15	0	0	15
<b>All categories</b>		<b>7414</b>	<b>1332</b>	<b>536</b>	<b>483</b>	<b>3931</b>	<b>17077</b>	<b>5972</b>	<b>802</b>	<b>8897</b>	<b>2318</b>	<b>2585</b>	<b>23723</b>	<b>5130</b>	<b>7107</b>	<b>87307</b>

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

## All Social Groups

Sl. No	Size Class	(Area in Hectares)														
		Trivandrum	Kollam	Pathanamthitta	Alappuzha	Kottayam	Idukki	Ernakulam	Thirssur	Palakkad	Malappuram	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Below -1.00	70010	71473	49846	52971	61677	64795	70612	75794	70696	84836	74415	28283	78626	141753	895786
2	Small 1.00-1.99	7875	8833	12715	10619	29376	30649	22510	15937	35788	23942	16949	18407	30086	21135	284820
3	Semi- medium 2.00-3.99	2597	3231	4844	6578	19757	15430	14210	6911	31136	15645	8715	14299	20163	15056	178574
4	Medium 4.00-9.99	844	1236	1490	3318	10012	7227	5250	2861	17393	7070	3501	6843	6593	5118	78757
5	large - 10 above	1101	1327	2128	1367	6569	61475	3004	1057	8491	2764	3606	18738	1941	3321	116889
All categories		82427	86100	71023	74853	127391	179576	115586	102560	163504	134257	107186	86570	137409	86383	1554826

Table 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	Thirissur	Palakkad	Malappuram	Kozhikode	Wayanad	Kannur	Kasaragod	State
1	Below -1.00	2601	3116	2069	2368	1829	4354	2403	2997	4611	3970	2430	569	1249	1143	35709
2	Small 1.00-1.99	37	6	21	189	256	770	79	34	347	557	101	86	74	192	2748
3	Semi-medium 2.00 -3.99		0	10	91	78	295	12	0	282	62	0	80	25	0	937
4	Medium		0	0	0	0	66	0	0	97	31	0	29	0	0	224
5	large -10 above		0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>All categories</b>		<b>2638</b>	<b>3122</b>	<b>2100</b>	<b>2648</b>	<b>2163</b>	<b>5485</b>	<b>2494</b>	<b>3031</b>	<b>5337</b>	<b>4620</b>	<b>2531</b>	<b>764</b>	<b>1348</b>	<b>1335</b>	<b>39618</b>

Table 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	Kasaragod	State
1	Below -1.00	1980	468	93	18	712	4316	671	83	1546	152	391	3626	1022	1351	16432
2	Small 1.00-1.99	717	45	13		434	1951	682	6	1846	487	168	1354	124	225	8052
3	Semi-Medium 2.00-3.99	190	0	0		193	655	139	0	1989	42	12	716	61	60	4056
4	Medium 4.00-9.99	20	0	0		99	100	82	0	706	20	0	345	0	0	1374
5	large -10 above	0	0	0		0	0	0	0	0	0	0	283	0	0	283
<b>All categories</b>		<b>2907</b>	<b>513</b>	<b>106</b>	<b>18</b>	<b>1438</b>	<b>7022</b>	<b>1574</b>	<b>89</b>	<b>6087</b>	<b>701</b>	<b>571</b>	<b>6324</b>	<b>1207</b>	<b>1636</b>	<b>30197</b>

Table IV-3(c) District wise average size of holdings

Sl. No.	District	Below 1.00			1.00-1.99			2.00-3.99			4.00-9.99		
		2000-01	2005-06	Diff	2000-01	2005-06	Diff	2000-01	2005-06	Diff	2000-01	2005-06	Diff
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Trivandrum	0.09	0.09	0.00	1.27	1.29	-0.02	2.43	2.46	-0.03	5.19	5.63	-0.44
2	Kollam	0.12	0.11	0.01	1.28	1.28	0.00	2.43	2.56	-0.13	5.4	5.35	0.05
3	Pathanamthitta	0.17	0.18	0.01	1.29	1.31	-0.02	2.42	2.46	-0.04	5.57	5.96	-0.39
4	Alappuzha	0.11	0.11	0.00	1.32	1.34	-0.02	2.57	2.57	0.00	5.61	5.48	0.13
5	Kottayam	0.16	0.16	0.00	1.32	1.34	-0.02	2.54	2.56	-0.02	5.49	5.37	0.12
9	Idukki	0.23	0.24	-0.01	1.29	1.29	0.00	2.43	2.48	-0.05	5.4	5.43	-0.03
7	Ernakulam	0.11	0.11	0.00	1.33	1.32	0.01	2.48	2.54	-0.06	5.43	5.16	0.27
8	Thrissur	0.13	0.12	0.01	1.32	1.33	-0.01	2.53	2.57	0.04	5.2	5.31	-0.11
9	Palakkad	0.15	0.15	0.00	1.35	1.37	-0.02	2.58	2.61	-0.03	5.13	5.28	-0.15
10	Malappuram	0.14	0.14	0.00	1.32	1.27	0.05	2.53	2.58	-0.05	5.53	5.21	0.32
11	Kozhikode	0.13	0.13	0.00	1.32	1.32	0.00	2.48	2.55	-0.07	5.12	5.31	-0.19
12	Wayanad	0.21	0.21	0.00	1.35	1.36	-0.01	2.55	2.58	-0.03	5.33	5.4	-0.07
13	Kannur	0.19	0.17	0.02	1.33	1.34	-0.01	2.52	2.54	-0.02	5.17	5.11	0.06
14	Kasargod	0.22	0.21	0.01	1.34	1.35	-0.01	2.53	2.61	-0.08	5.08	5.11	-0.03
	<b>State</b>	<b>0.14</b>	<b>0.14</b>	<b>0.00</b>	<b>1.32</b>	<b>1.33</b>	<b>-0.01</b>	<b>2.52</b>	<b>2.56</b>	<b>-0.04</b>	<b>5.29</b>	<b>5.3</b>	<b>-0.01</b>

Conti.....



SI No.	District	10.00&Above			All sizes		
		2000-01	2005-06	Diff	2000-01	2005-06	Diff
1	2	14	15	16	17	18	19
1	Trivandrum	27.11	18.35	8.76	0.11	0.1	0.01
2	Kollam	98.25	37.91	60.34	0.15	0.14	0.01
3	Pathanamthitta	46.57	20.27	66.30	0.24	0.24	0.00
4	Alappuzha	14.80	30.38	-15.58	0.15	0.15	0.00
5	Kottayam	27.76	19.04	8.72	0.30	0.30	0.00
6	Idukki	7.41	103.67	-33.26	0.56	0.60	-0.04
7	Ernakulam	35.56	24.03	9.53	0.18	0.17	0.01
8	Thrissur	31.73	30.20	1.53	0.18	0.15	0.03
9	Palakkad	18.63	30.22	-11.59	0.31	0.31	0.00
10	Malappuram	43.50	17.28	26.22	0.22	0.21	0.01
11	Kozhikode	56.40	24.87	31.53	0.19	0.18	0.01
12	Wayanad	43.25	65.75	-22.50	0.58	0.55	0.03
13	Kannur	22.70	16.88	5.82	0.32	0.28	0.04
14	Kasargod	20.35	27.68	-7.33	0.42	0.39	0.03
	<b>State</b>	<b>40.93</b>	<b>47.73</b>	<b>-6.8</b>	<b>0.24</b>	<b>0.23</b>	<b>0.01</b>

Table IV- 4 Size class wise distributions 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	6602443 (95.63)	576683 (99.56)	79198 (90.71)	5946562 (95.33)	895786 (57.61)	35709 (90.13)	16432 (54.42)	843645 (56.81)
2	Small (1.00-1.99)	214832 (3.11)	2084 (0.36)	6165 (7.06)	206583 (3.31)	284820 (18.32)	2748 (6.94)	8052 (26.66)	274020 (18.45)
3	Semi medium (2.00-3.99)	69710 (1.00)	381 (0.07)	1644 (1.88)	67685 (1.09)	178574 (11.49)	937 (2.37)	4056 (13.43)	173581 (11.69)
4	Medium (4.00-9.99)	14858 (0.22)	40 (0.01)	285 (0.33)	14533 (0.23)	78757 (5.07)	224 (0.56)	1374 (4.55)	77159 (5.20)
5	Large (10.00 & above)	2449 (0.04)	0	15 (0.02)	2434 (0.04)	116889 (5.51)	0	283 (0.94)	116606 (7.85)
	<b>All sizes</b>	<b>6904292 (100)</b>	<b>579188 (100)</b>	<b>87307 (100)</b>	<b>6237797 (100)</b>	<b>1554826 (100)</b>	<b>39618 (100)</b>	<b>30197 (100)</b>	<b>1485011 (100)</b>

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

Table IV-5. District wise number and area of operational holdings according to major social groups

Sl. No	Size class(Ha)	Number Of Operational Holdings				Area operated (hectares)			
		Sch.Caste	Sch.Tribe	Others	Total	Sch.Caste	Sch.Tribe	Others	Total
1	Trivandrum	79377	7414	705551	792342	2637	2907	76882	82426
2	Kollam	60835	1332	549729	611896	3122	513	82464	86099
3	pathanamthitta	32749	536	263199	296484	2100	106	68817	71023
4	Alappuzha	39200	483	447518	487201	2648	18	72185	74851
5	Kottayam	28146	3931	396410	428487	2163	1438	123791	127392
6	Idukki	34716	17077	247018	298811	5485	7022	167069	179576
7	Ernakulam	46467	5972	625873	678312	2494	1575	111518	115587
8	Thrissur	69037	802	593287	663126	3031	89	99440	102560
9	Palakkad	72734	8897	446363	527994	5338	6088	152079	163505
10	Malappuram	52211	2318	592591	647120	4621	701	128936	134258
11	Kozhikode	34913	2585	568071	605569	2531	571	104085	107187
12	Wayanad	4974	23723	127694	156391	764	6325	79481	86570
13	Kannur	15345	5130	466634	487109	1349	1208	134852	137409
14	Kasargod	8484	7107	207859	223450	1335	1636	83412	86383
	<b>State</b>	<b>579188</b>	<b>87307</b>	<b>6237797</b>	<b>6904292</b>	<b>39618</b>	<b>30197</b>	<b>1485011</b>	<b>1554826</b>

Table 1V-6 Number and area of operational holdings according to tenure and tenancy status (Area in Hectares)

## All Social Group

Sl. No	Size Class of operational holdings (Ha)	Total holdings		Wholly owned and self operated holdings		Wholly leased in Holdings		Wholly Otherwise Operated Holdings		Partly owned, Partly Leased -in and partly otherwise operated				
		No	Area	No	Area	No	Area	No	Area	No	Owned Area	Leased -in Area	Oth.oprd Area	Total Area
1	Below-1.00	6602443	895786	6528945	877615	4099	682	34115	3972	35284	5968	5431	2117	13511
2	Small1.00-1.99	214832	284820	206794	274245	219	264	1251	1601	6568	4392	2792	1527	3711
3	Semi-medium 2.00-3.99	69710	178574	66622	170576	118	261	594	1422	2376	3035	1816	1463	6314
4	Medium 4.00-9.99	14858	78757	13903	73700	33	159	110	610	812	1879	1503	905	4287
5	Large -10 above	2449	116889	2051	111792	45	2051	20	293	133	1290	1058	399	2747
	<b>All categories</b>	<b>6904292</b>	<b>1554826</b>	<b>6818515</b>	<b>1507929</b>	<b>4514</b>	<b>3423</b>	<b>36090</b>	<b>7898</b>	<b>45173</b>	<b>16564</b>	<b>12600</b>	<b>6411</b>	<b>35575</b>

## IV-6(a) Number and area of operational holdings according to tenure and tenancy status

## Scheduled Caste

(Area in Hectares)

Sl. No	Size Class of operational holdings (rHa)	Total holdings		Wholly owned and self operated holdings		Wholly leased in Holdings		Wholly Otherwise Operated Holdings		Partly owned, Partly Leased -in and partly otherwise operated				
		No	Area	No	Area	No	Area	No	Area	No	Owned Area	Leased - in Area	Oth.oprd Area	Total Area
1	Below-1.00	576683	35709	562991	33868	112	14	8042	310	5538	547	877	93	1517
2	Small 1.00-1.99	2084	2748	1783	2365	8	14	42	52	251	113	161	42	316
3	Semi-medium 2.00-3.99	381	937	305	757	10	21	5	10	61	27	97	26	150
4	Medium 4.00-9.99	40	224	35	203	0	0	0	0	5	12	0	9	21
5	Large -10 above	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>All categories</b>		<b>579188</b>	<b>69618</b>	<b>565114</b>	<b>37193</b>	<b>130</b>	<b>49</b>	<b>8089</b>	<b>372</b>	<b>5855</b>	<b>699</b>	<b>1135</b>	<b>170</b>	<b>2004</b>

Table IV-6(b) Number and area of operational holdings according to tenure and tenancy status

## Scheduled Tribe

(Area in Hectares)

Sl. No	Size Class of operational holdings (Ha)	Total holdings		Wholly owned and self operated holdings		Wholly leased in Holdings		Wholly Otherwise Operated Holdings		Partly owned, Partly Leased -in and partly otherwise operated				Total Area
		No	Area	No	Area	No	Area	No	Area	No	Owned Area	Leased -in Area	Oth.oprd Area	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Below-1.00	79198	16432	73774	14951	182	49	4084	959	1158	143	188	141	472
2	Small1.00-1.99	6165	8052	5494	7161	19	24	466	599	186	120	63	84	267
3	Semi-medium 2.00-3.99	1644	4056	1427	3529	13	34	153	362	51	49	27	56	132
4	Medium 4.00-9.99	285	1374	265	1292	0	0	20	82	0	0	0	0	0
5	Large -10 above	15	283	15	283	0	0	0	0	0	0	0	0	0
<b>All categories</b>		<b>87307</b>	<b>90197</b>	<b>30975</b>	<b>27216</b>	<b>214</b>	<b>107</b>	<b>4723</b>	<b>2002</b>	<b>1395</b>	<b>312</b>	<b>278</b>	<b>281</b>	<b>871</b>

Table 1V-7 Size class wise distribution of number of holdings and area operated according to tenancy status

Sl. No	Size class of Operational holdings (Ha)	Number of Holdings				Area operated (in hectares)			
		Wholly owned and self operated holdings	wholly leased in holdings	Wholly Otherwise operated holdings	Partly owned, partly Leased in and partly otherwise operated	Wholly owned and self operated holdings	Wholly leased in Holdings	Wholly otherwise operated holdings	Partly owned, partly Leased in and partly otherwise operated
1	Below -1.00	6528945	4099	34115	35284	877615	682	3972	13517
2	Small 1.00-1.99	206794	219	1251	6568	274245	264	1601	3711
3	Semi-medium 2.00-3.99	66622	118	594	2376	170576	261	1422	6315
4	Medium 4.00-9.99	13903	33	110	8121	73700	159	610	4287
5	Large - 10 above	2251	45	20	133	111792	2057	293	2747
	<b>All categories</b>	<b>6818515</b>	<b>4514</b>	<b>36090</b>	<b>45173</b>	<b>1507929</b>	<b>3423</b>	<b>7898</b>	<b>35577</b>

Table IV-8 Distribution of leased in area by terms of leasing

(Area in Hectares)

Sl. No	Size Class (in Ha)	Partly Owned, partly Leased -in and Partly Otherwise Operated						Wholly leased -in holdings (Area Leased -in for)						Total
		Fixed money	Fixed produce	Share of produce	Usufructry Mortgage	Other Terms	Total	Fixed Money	Fixed produce	Share of produce	Usufructry Mortgage	Other Terms	Total	
1	Below 1.00	3694	543	893	63	238	5431	445	18	48	5	67	682	
2	Small 1.00-1.99	2108	210	243	66	165	2792	198	19	31	0	17	264	
3	Semi-medium 2.00-3.99	1351	180	164	51	70	1816	206	0	20	19	16	261	
4	Medium 4.00-9.99	1223	111	72	0	98	1504	124	0	0	35	0	159	
5	Large - 10 above	1032	0	0	0	26	1058	2057	0	0	0	0	2057	
<b>All Categories</b>		<b>9408</b>	<b>1044</b>	<b>1372</b>	<b>180</b>	<b>597</b>	<b>12601</b>	<b>3030</b>	<b>36</b>	<b>198</b>	<b>59</b>	<b>100</b>	<b>3424</b>	



## 1V-9 Land Utilization pattern 1995-96, 2000-01 and 2005-06

(Area in Hectares)

Sl. No	Land use Pattern	1995-96		2000-01		2005-06	
		Area	Percentage	Area	Percentage	Area	Percentage
1	2	3	4	5	6	7	8
1	Net area sown	1446571	84.48	1311566	83.57	1300601	83.65
2	Area under current fallow	22308	1.30	26561	1.69	26382	1.70
3	Other un cultivated land excluding fallow land	24195	1.41	47919	3.05	12501	0.80
4	Fallow land other than current fallow	15729	0.93	16307	1.04	14771	0.95
5	Cultivable waste land	22149	1.29	25249	1.61	25191	1.62
6	Land not available for cultivation	181274	10.59	141886	9.04	175380	11.28
	<b>Total Area of holdings</b>	<b>1712223</b>	<b>100</b>	<b>1569488</b>	<b>100</b>	<b>1554826</b>	<b>100</b>

Table IV-9 (a) District Wise Distribution Of Land Utilization

## All social groups

Sl. No	District	Net area sown	Current fallow	Other uncultivated land	Fallow land other than current fallow	Cultivable waste	Land not available for cultivation	Total
1	2	3	4	5	6	7	8	9
1	Thiruvananthapuram	66151.95	1077.99	1803.21	313.59	248.96	12830.92	82426.62
2	kollam	70404.79	919.66	283.92	995.72	256.55	13239.32	86099.96
3	pathanamthitta	58998.72	1019.57	333.83	1241.70	904.44	8525.16	71023.42
4	Alappuzha	55142.58	2836.93	1146.82	1668.67	3149.65	10907.95	74852.60
5	kottayam	109203.70	1562.13	133.52	1134.59	1598.82	13759.00	127391.76
6	Idukki	160379.48	1369.85	2180.20	501.70	2443.90	12700.91	179576.04
7	Ernakulam	94758.89	2127.47	653.20	1432.59	1535.12	15079.04	115586.31
8	Thrissur	83525.10	2168.76	687.09	1036.60	953.75	14188.62	102559.92
9	Palakkad	136750.54	4258.11	710.40	2409.10	4449.86	14926.50	163504.51
10	Malappuram	600033	100910.35	32317.19	2813	413.44	616.70	737103.68
11	Kozhikode	91275.55	959.69	257.71	431.35	528.89	13733.05	107186.24
12	wayanad	143324	62740.98	23667.70	314	64.34	97.05	230208.07
13	Kannur	119330.38	1381.44	291.43	736.11	1754.47	13914.77	137408.60
14	kasargod	68188.75	2539.91	2518.29	682.84	4038.39	8415.08	86383.26
	<b>State</b>	<b>1857467.43</b>	<b>185872.84</b>	<b>66984.51</b>	<b>15711.56</b>	<b>22340.58</b>	<b>152934.07</b>	<b>2301310.99</b>

Table IV- 9(b) District Wise Percentage Distribution Of Land Utilization

(Area in hectares)

Sl. No.	District	Net area sown			Current fallow			other uncultivated land		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	3	4	5	6	7	8	9	10	11
1	Thiruvananthapuram	5.39	5.55	5.09	2.62	3.37	4.09	2.78	20.03	14.42
2	Kollam	5.32	5.58	5.41	1.61	4.92	3.49	3.32	5.47	2.27
3	Pathanamthitta	5.36	4.55	4.54	3.98	4.72	3.87	1.25	6.85	2.67
4	Alappuzha	4.77	4.15	4.24	5.57	10.17	10.75	5.13	4.28	9.18
5	Kottayam	8.52	8.49	8.4	4.62	7.2	5.92	1.33	2.5	1.07
6	Idukki	8.6	10.93	12.33	3.64	6.37	5.19	3.75	5.96	17.44
7	Ernakulam	7.61	7.44	7.29	5.8	4.75	8.06	4.73	9.19	5.22
8	Thrissur	7.94	7.09	6.42	4.34	4.31	8.22	9.98	12.99	5.50
9	Palakkad	10.79	9.7	10.51	21.11	25.22	16.14	25.11	9.09	5.68
10	Malappuram	8.19	8.41	8.37	17.79	11.16	12.23	14.61	8.1	10.39
11	Kozhikode	6.66	6.92	7.02	2.76	1.98	3.64	4.63	1	2.06
12	Wayanad	5.88	6.29	5.97	8.07	2.3	3.54	2.63	1.23	1.62
13	Kannur	9.44	9.42	9.17	10.39	9.42	5.23	6.09	3.89	2.33
14	Kasargod	5.53	5.47	5.24	7.7	4.11	9.63	14.66	9.41	20.14
	<b>State</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Table IV- 9(b) District Wise Percentage Distribution Of Land Utilization (Contd....)

(Area in hectares)

Sl. No	District	fallow land other than current fallow			cultivable waste			Land not available for cultivation		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	12	13	14	15	16	17	18	19	20
1	Thiruvananthapuram	0.48	2.53	2.13	2.11	1.95	0.99	7.65	2.3	7.32
2	Kollam	3.34	2.18	6.74	1.92	3.1	1.02	6.59	6.54	7.55
3	Pathanamthitta	5.56	5.72	8.41	0.77	2.42	3.59	5.85	3.96	4.86
4	Alappuzha	5.08	11.67	11.3	4.26	6.97	12.5	5.61	6.12	6.22
5	Kottayam	2.46	6.62	7.68	2.17	5.9	6.35	7.52	8.49	7.85
6	Idukki	2.44	5.73	3.4	3.17	4.45	9.7	4.46	7.24	7.24
7	Ernakulam	6.55	5.72	9.7	7.52	5.18	6.09	9.86	8.3	8.6
8	Thrissur	11.22	11.6	7.02	6.16	10.94	3.79	10.28	6.87	8.09
9	Palakkad	28.27	16.38	16.31	25.06	17.09	17.67	9.15	9.02	8.51
10	Malappuram	12.1	10.50	13.6	13.59	9.76	9.84	9.72	9.67	9.37
11	Kozhikode	2.29	3.46	2.92	3.12	1.96	2.1	6.23	9.4	7.66
12	Wayanad	3.26	3.5	1.19	4.02	4.98	3.37	3.52	5.24	3.84
13	Kannur	10.59	7.32	4.98	13.05	9.32	6.96	7.98	10.71	7.93
14	Kasargod	6.36	7.08	4.62	13.08	15.96	16.03	5.58	6.15	4.8
	<b>State</b>	<b>100</b>	<b>100.01</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Table 1V- 10 Percentage of area under main land use to the total operated area by the districts 1995-96, 2000-01&amp;2005-06

Sl. No	District	Net area cultivated			Un cultivated land			Land not available for cultivation			Total		
		1995-96	2000-01	2005-06	1995-96	2000-01	2005-06	1995-96	2000-01	2005-06	1995-96	2000-01	2005-06
1	2	3	4	5	6	7	8	9	10	11	13	14	15
1	Thiruvananthapuram	83.89	84.26	81.86	1.30	12.00	2.87	14.81	3.74	15.57	100	100	100
2	Kollam	84.94	85.1	82.84	1.93	4.30	1.78	13.13	10.61	15.38	100	100	100
3	Pathanamthitta	86.76	85.38	84.51	1.49	6.76	3.49	11.75	7.86	12.00	100	100	100
4	Alappuzha	84.23	79.87	77.46	3.58	7.99	7.97	12.19	12.14	14.57	100	100	100
5	Kottayam	89.34	87.76	86.95	0.86	2.92	2.25	9.80	9.33	10.80	100	100	100
6	Idukki	92.55	90.52	90.07	1.47	3.07	2.86	5.98	6.41	7.07	100	100	100
7	Ernakulam	83.68	84.29	83.82	2.89	5.67	3.13	13.43	10.04	13.05	100	100	100
8	Thrissur	82.73	82.04	83.55	3.96	9.47	2.62	13.31	8.49	13.83	100	100	100
9	Palakkad	83.12	84.73	86.24	8.31	7.18	4.63	8.57	8.10	9.13	100	100	100
10	Malappuram	82.45	83.88	83.45	5.69	5.97	4.31	11.86	10.15	12.24	100	100	100
11	Kozhikode	87.81	85.99	86.05	1.97	1.45	1.14	10.22	12.56	12.84	100	100	100
12	Wayanad	91.16	89.4	90.79	2.14	2.60	1.43	6.70	8.00	7.78	100	100	100
13	Kannur	87.14	85.94	87.85	3.78	3.69	2.02	9.08	10.37	10.13	100	100	100
14	Kasargod	82.32	79.83	81.88	7.49	10.62	8.38	10.19	9.56	9.74	100	100	100
	<b>State</b>	<b>85.79</b>	<b>85.26</b>	<b>84.81</b>	<b>3.36</b>	<b>5.70</b>	<b>3.49</b>	<b>10.59</b>	<b>9.04</b>	<b>11.72</b>	<b>100</b>	<b>100</b>	<b>100</b>

Table 1V-10 (a) Percentage of area under main land use to the total operated area by the state 1995-96,2000-01&amp;2005-06

Sl. No	Size class (hectares)	Percentage of area under																				
		Net cultivated area						Un cultivated land						Land not available for cultivation						Total		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06			
1	Marginal (0.02-0.99)	82.9	82.44	81.72	3.12	6.24	3.00	14.19	11.32	15.28	100	100	100	100	100	100	100	100				
2	Small (1.00-1.99)	89.89	90.21	90.75	3.52	4.80	3.81	6.59	4.98	5.44	100	100	100	100	100	100	100	100				
3	Semi medium (2.00-3.99)	89.47	90.06	91.52	4.06	4.96	3.86	6.47	4.98	4.62	100	100	100	100	100	100	100	100				
4	Medium (4.00-9.99)	89.37	89.46	89.46	4.51	5.36	4.29	6.12	5.18	5.75	100	100	100	100	100	100	100	100				
5	Large(10.00& above)	87.02	82.85	87.40	6.53	5.35	3.82	6.45	11.81	8.78	100	100	100	100	100	100	100	100				
	<b>All sizes</b>	<b>85.79</b>	<b>85.26</b>	<b>85.35</b>	<b>3.62</b>	<b>5.70</b>	<b>3.37</b>	<b>10.59</b>	<b>9.04</b>	<b>11.28</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>				

**Table 1V-11 Percentage of net cultivated area, total uncultivated area and land available for cultivation 1995-96,2000-01&2005-06**

Sl. No	Size class (hectares)	Net cultivated area				Un cultivated land				Land not available for cultivation			
		95-96	00-01	05-06		95-96	00-01	05-06		95-96	00-01	05-06	
		3	4	5		6	7	8		9	10	11	
1	Marginal (0.02-0.99)	51.36	54.37	55.17	45.86	61.57	51.18	71.44	70.38	78.04			
2	Small (1.00-1.99)	21.39	20.21	19.48	19.85	16.10	20.71	12.70	10.52	8.82			
3	Semi medium (2.00-3.99)	14.86	12.82	12.31	15.97	10.57	13.15	8.71	6.68	4.71			
4	Medium (4.00-9.99)	6.31	5.67	5.34	7.55	5.08	6.44	3.50	3.10	2.58			
5	Large(10.00& above)	6.07	6.93	7.70	10.77	6.69	8.52	3.65	9.32	5.85			
	<b>All sizes</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table IV-11 (a) Percentage of area under land available for cultivation, net cultivated area and land uncultivated by districts  
1995-96,2000-01&2005-06**

Sl. No	Districts	Land available for cultivation			Net cultivated area			Land uncultivated		
		1995-96	2000-01	2005-06	1995-96	2000-01	2005-06	1995-96	2000-01	2005-06
1	2	3	4	5	6	7	8	9	10	11
1	Thiruvananthapuram	5.21	5.55	5.09	5.35	5.51	5.07	1.96	11.74	4.51
2	kollam	5.16	5.58	5.41	5.26	5.56	5.37	2.83	4.2	2.93
3	pathanamthitta	5.21	4.55	4.54	5.33	4.56	4.52	2.17	5.39	4.73
4	Alappuzha	4.78	4.15	4.24	4.78	4.27	4.37	4.81	6.39	11.37
5	Kottayam	8.19	8.49	8.4	8.46	8.47	8.35	1.92	4.29	5.46
6	Idukki	8.31	10.93	12.33	8.52	10.84	12.19	3.21	5.49	9.77
7	Ernakulam	7.52	7.44	7.23	7.58	7.39	7.3	6.18	7.43	6.9
8	Thrissur	7.93	7.09	6.42	7.89	7.04	6.46	8.93	12.15	5.1
9	Palakkad	11.56	9.7	10.51	10.95	10.01	10.63	25.89	12.68	14.43
10	Malappuram	8.55	8.41	8.37	8.34	8.47	8.44	13.61	9.01	11.04
11	Kozhikode	6.48	6.92	7.02	6.6	6.83	6.95	3.5	1.72	2.32
12	Wayanad	5.8	6.29	5.97	5.91	6.21	5.92	3.29	2.7	2.34
13	Kannur	9.47	9.42	9.17	9.46	9.42	9.1	9.71	6.05	5.3
14	Kasargod	5.38	5.47	5.24	5.57	5.45	5.33	11.99	10.84	13.8
	<b>State</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>



Table IV-12 Crop -wise percentage distribution of gross cropped area during 1995-96, 2000-01, 2005-06

Sl. No	Name of Crop	1990-91	1995-96	2000-01	2005-06
1	Paddy	16.08	12.06	11.21	10.72
2	Coconut	27.10	31.36	25.70	24.66
3	Tapioca	5.08	2.34	2.43	1.82
4	Rubber	16.22	17.69	19.93	22.38
5	Cashew	3.47	3.55	3.43	2.72
6	Tea	1.55	0.65	1.42	3.11
7	Pepper	8.10	7.61	5.60	4.09
8	Coffee	2.69	3.84	3.59	3.30
9	Arecanut	1.98	3.57	5.49	
10	Mango	1.92	1.65	1.93	1.92
11	Banana	5.65	5.59	1.25	3.78
12	Others	10.16	10.09	18.02	21.50
	<b>All Crop</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>

Table IV-13 Percentage Distribution of Area under Principal crops in different size classes 2005-06

Sl.no	Size class (Hectares)	Paddy	Coconut	Tapioca	Rubber	Cashew	Tea	Pepper	Coffee	Aracanut	Mango	Banana
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Marginal (0.02-0.99)	44.02	72.39	74.3	45.47	53.37	3.78	59.77	35.78	55.27	80.36	66.72
2	Small (1.00-1.99)	26.29	14.28	15.1	26.75	22.23	1.9	20.17	19.2	22.04	10.28	16.98
3	Semi medium (2.00-3.99)	18.7	8.32	8.06	17.1	15.15	1.49	10.58	14.06	15.06	5.45	10.47
4	Medium (4.00-9.99)	9.21	3.5	2.2	6.82	5.64	1.09	4.22	7.36	5.61	2.44	4.01
5	Large (10.00 & above)	1.78	1.51	0.34	3.86	3.61	91.74	5.26	23.6	2.02	1.47	1.82
	<b>All sizes</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

**Table IV-14 District wise Intensity of cropping 2005-06 (Area in Hectare)**

Sl. No	District	Net area sown	Gross cropped Area	Intensity of cropping
1	2	3	4	5
1	Thiruvananthapuram	66151.95	73425.73	111.00
2	Kollam	70404.79	87226.59	123.89
3	Pathanamthitta	58998.72	67936.58	115.15
4	Alappuzha	55142.58	64748.21	117.42
5	Kottayam	109203.70	125332.39	114.77
6	Idukki	160379.48	203460.60	126.86
7	Emakulam	94758.89	101579.22	107.20
8	Thrissur	83525.10	94999.03	113.74
9	Palakkad	136750.54	185647.54	135.76
10	Malappuram	108808.87	118035.90	108.48
11	Kozhikode	91275.55	108973.12	119.39
12	Wayanad	77682.02	107005.32	137.75
13	Kannur	119330.38	136216.24	114.15
14	Kasargod	68188.75	77645.52	113.87
	<b>State</b>	<b>1300601.32</b>	<b>1552231.99</b>	<b>119.35</b>

Table 1V-15 Percentage of Gross Cropped Area under selected crops

Sl. No	Size of holding	percentage of area under													All crops
		paddy	pepper	banana	Mango	Cashew	Tapioca	Coconut	Areca nut	Tea	Coffee	Rubber	Others		
1	Below 1.00	8.45	4.38	4.51	2.76	2.6	2.43	31.97	4.77	0.21	2.11	18.22	17.59	100	
2	Small (1.00-1.99)	14.62	4.28	3.33	1.02	3.13	1.43	18.25	5.51	0.31	3.28	31.04	13.8	100	
3	Semi-medium (2.00-3.99)	16.35	3.53	3.22	0.85	3.36	1.2	16.72	5.92	0.38	3.78	31.18	13.51	100	
4	Medium (4.00-9.99)	18.41	3.21	2.82	0.87	2.86	0.75	16.11	5.05	0.64	4.52	28.44	16.32	100	
5	Large (10.00--&above)	2.64	2.98	0.95	0.39	1.36	0.09	5.16	1.35	39.5	10.77	11.97	22.8	100	
	<b>All sizes</b>	<b>10.73</b>	<b>4.09</b>	<b>3.78</b>	<b>1.92</b>	<b>2.72</b>	<b>1.82</b>	<b>24.66</b>	<b>4.82</b>	<b>3.11</b>	<b>3.3</b>	<b>22.38</b>	<b>16.67</b>	<b>100</b>	

Table IV-(16) District wise Percentage distribution of area of holdings according to irrigation status 1995-96,2000-01 &amp; 2005-06

Sl No	District	Wholly irrigated holdings						Partly irrigated holdings											
		95-96			00-01			05-06			95-96			00-01			05-06		
		3	4	5	0.75	2.17	4.11	9.80	29.12	51.69	8	9	10	11	10	10	11		
1	Thiruvananthapuram	0.75	2.17	4.11	9.80	29.12	51.69	8	9	10	11	8.78							
2	Kollam	0.63	1.01	0.32	21.84	45.07	48.62	4.80	10.12	7.09									
3	Pathanamthitta	0.10	0.25	0.36	18.31	26.61	58.75	5.42	5.77	8.66									
4	Alappuzha	3.75	5.90	1.02	67.42	78.18	84.00	47.03	44.44	49.41									
5	Kottayam	0.70	1.20	0.47	20.84	41.35	53.47	8.09	11.52	11.29									
6	Idukki	2.73	5.26	6.76	24.04	39.48	42.29	10.16	13.87	14.96									
7	Ernakulam	9.92	8.42	1.79	41.75	60.24	62.97	17.08	24.29	25.02									
8	Thrissur	16.74	22.70	5.36	59.45	57.71	79.89	41.19	39.97	57.10									
9	Palakkad	7.99	5.07	4.66	63.56	73.43	68.00	37.58	47.71	42.64									
10	Malappuram	4.15	4.66	2.88	45.92	50.41	45.02	22.54	22.04	23.86									
11	Kozhikode	2.90	2.55	1.80	22.71	30.80	35.04	8.36	9.79	9.50									
12	Wayanad	2.27	7.29	4.66	21.45	39.58	56.28	6.76	13.50	18.13									
13	Kannur	2.62	1.68	1.02	33.82	52.13	56.88	11.44	15.55	17.14									
14	Kasargod	8.86	11.79	7.76	63.45	65.02	75.52	29.15	34.30	40.39									
	<b>State</b>	<b>4.90</b>	<b>5.67</b>	<b>3.07</b>	<b>37.73</b>	<b>49.44</b>	<b>55.09</b>	<b>18.66</b>	<b>21.61</b>	<b>22.99</b>									

Table IV-(16) District wise Percentage distribution of area of holdings according to irrigation status 1995-96, 2000-01 & 2005-06  
(Contd..)

Sl No	District	Net irrigated area			Wholly un irrigated holdings			Net area sown		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	12	13	14	15	16	17	18	19	20
1	Thiruvananthapuram	4.16	10.38	12.89	89.45	68.68	44.20	100	100	100
2	Kollam	5.42	11.13	7.42	77.53	53.91	51.05	100	100	100
3	Pathanamthitta	5.52	6.02	9.02	81.59	73.13	40.89	100	100	100
4	Alappuzha	50.78	50.34	52.29	28.83	15.91	13.11	100	100	100
5	Kottayam	8.79	12.71	11.76	78.46	57.45	46.05	100	100	100
6	Idukki	12.89	19.13	21.71	73.23	55.26	50.95	100	100	100
7	Ernakulam	27.00	32.71	26.81	48.33	31.33	35.24	100	100	100
8	Thrissur	57.93	62.67	62.46	23.81	19.59	14.75	100	100	100
9	Palakkad	45.57	52.77	47.96	28.45	21.49	26.66	100	100	100
10	Malappuram	26.69	26.70	26.74	49.93	44.92	52.09	100	100	100
11	Kozhikode	11.26	12.34	11.30	74.39	66.64	63.16	100	100	100
12	Wayanad	9.03	20.79	22.80	76.28	53.12	39.10	100	100	100
13	Kannur	14.06	17.23	18.16	63.56	46.18	42.11	100	100	100
14	Kasargod	38.01	46.09	48.14	27.69	23.18	16.71	100	100	100
	<b>State</b>	<b>23.56</b>	<b>27.28</b>	<b>26.23</b>	<b>57.37</b>	<b>44.88</b>	<b>38.29</b>	<b>100</b>	<b>100</b>	<b>100</b>

Table 1V-16 (a) Percentage of area irrigated from different sources by major size groups 1995-96, 2000-01 &amp; 2005-06

Sl. No	Category of holdings size group	Canal			Tank			Well		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	3	4	5	6	7	8	9	10	11
1	Marginal (0.02-0.99)	38.97	45.92	47.34	36.59	31.64	33.71	55.10	63.42	69.36
2	Small (1.00-1.99)	26.35	24.42	24.06	22.41	19.86	24.44	21.54	18.20	16.64
3	Semi medium (2.00-3.99)	22.87	19.48	17.67	20.01	15.77	19.95	13.62	10.59	9.50
4	Medium (4.00-9.99)	9.22	8.74	8.58	9.94	12.55	11.10	6.35	4.33	3.31
5	Large (10.00 & above)	2.59	1.45	2.35	11.05	20.18	10.8	3.39	3.46	1.19
	All sizes	100	100	100	100	100	100	100	100	100

**Table 1V-16 (a) Percentage of area irrigated from different sources of irrigation by major size groups 1995-96,2000-01&2005-06**  
(Contd...)

Sl. No	Category of holdings size group	Tube well			Other Sources			All Sources		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	12	13	14	15	16	17	18	19	20
1	Marginal (0.02-0.99)	54.54	54.79	49.20	41.02	45.91	32.63	46.93	51.97	48.27
2	Small (1.00-1.99)	19.68	15.43	17.30	25.2	22.60	19.97	33.32	20.37	19.80
3	Semi medium (2.00-3.99)	15.56	12.61	17.96	18.41	15.79	17.55	17.19	14.11	15.17
4	Medium (4.00-9.99)	7.98	8.19	12.05	8.43	7.96	9.99	7.91	7.15	7.80
5	Large (10.00& above)	2.25	8.98	3.49	6.54	7.73	19.86	4.65	6.39	8.96
	<b>All sizes</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>



Table IV 16 (b) Percentage distribution of size class wise area irrigated by different sources-1995-96,2000-01&amp;2005-06

Sl. No	Category of holdings size group	Canal			Tank			Well		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	3	4	5	6	7	8	9	10	11
1	Marginal (0.02-0.99)	15.34	15.97	15.50	6.86	7.42	7.07	49.65	51.10	47.9
2	Small (1.00-1.99)	20.88	21.67	19.22	8.45	11.88	12.50	39.06	37.41	27.82
3	Semi medium (2.00-3.99)	24.58	24.96	18.41	10.23	13.63	13.31	33.49	31.43	20.73
4	Medium (4.00-9.99)	21.55	22.08	17.39	11.06	21.40	14.41	33.97	25.36	14.06
5	Large (10.00& above)	10.33	4.1	4.14	20.92	38.50	12.20	30.88	22.69	4.4
	<b>All sizes</b>	<b>18.48</b>	<b>18.08</b>	<b>15.81</b>	<b>8.79</b>	<b>12.19</b>	<b>10.13</b>	<b>42.29</b>	<b>41.88</b>	<b>33.11</b>

**Table IV 16 (b) Percentage distribution of size class wise area irrigated by different sources-1995-96,2000-01&2005-06**  
(Contd...)

Sl. No	Category of holdings size group	Tube well			Other Sources			All Sources		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	12	13	14	15	16	17	18	19	20
1	Marginal (0.02-0.99)	6.36	5.55	6.38	21.89	19.95	23.46	100	100	100
2	Small (1.00-1.99)	4.55	3.99	5.47	27.06	25.05	34.99	100	100	100
3	Semi medium (2.00-3.99)	4.87	4.71	7.41	26.82	25.27	40.14	100	100	100
4	Medium (4.00-9.99)	5.43	6.04	9.68	27.98	25.12	44.46	100	100	100
5	Large (10.00& above)	2.61	7.40	2.44	35.26	27.31	76.82	100	100	100
	<b>All sizes</b>	<b>5.39</b>	<b>5.27</b>	<b>6.26</b>	<b>25.05</b>	<b>22.58</b>	<b>34.69</b>	<b>100</b>	<b>100</b>	<b>100</b>

Table IV-16(c) Distribution of district wise holdings receiving irrigation by different sources -2005-06

Sl. No	District	Source of irrigation											
		Canal		Tank		Well		Tube wells		Other sources		Total	
		No	%	No	%	No	%	No	%	No	%	No	%
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Thiruvananthapuram	3279	1.99	4538	3.83	205749	10.81	10288	4.67	120613	16.85	344467	11.03
	Kollam	1203	0.73	2151	1.82	175693	9.23	814	0.37	43558	6.08	223419	7.16
3	Pathanamthitta	7914	4.8	1434	1.21	124052	6.52	1216	0.55	18329	2.56	152945	4.90
4	Alappuzha	6432	3.9	30039	25.38	135413	7.12	120330	54.67	47712	6.66	339926	10.89
5	Kottayam	781	0.47	4101	3.47	84271	4.43	921	0.42	31290	4.37	121364	3.89
6	Idukki	5356	3.25	10285	8.69	21032	1.11	1454	0.66	53396	7.46	91523	2.93
7	Emakulam	51955	31.53	8443	7.13	163095	8.57	25000	11.36	55104	7.70	303597	9.72
8	Thrissur	21754	13.21	16419	13.88	314081	16.50	10055	4.57	65866	9.20	428175	13.71
9	Palakkad	52305	31.74	7927	6.70	101973	5.36	15079	6.85	134485	18.78	311769	9.99
10	Malappuram	4665	2.83	10061	8.50	116610	6.13	6243	2.84	28645	4.00	166224	5.32
11	Kozhikode	3331	2.02	1851	1.56	117842	6.19	4714	2.14	17325	2.42	145063	4.65
12	Wayanad	1844	1.12	1425	1.20	11620	0.61	496	0.23	35972	5.02	51357	1.64
13	Kannur	1718	1.04	6247	5.28	214038	11.25	3571	1.62	38609	5.39	264183	8.46
14	Kasargod	2257	1.37	13414	11.34	117565	6.18	19902	9.04	25050	3.50	178188	5.71
	State	164794	100	118335	100.00	1903034	100.00	220092	100	715954	100.00	3122209	100.00

Table IV-16(d) distribution of district wise Area irrigated by different sources in 2005-06

Sl. No	District	Source of Irrigation											
		Canal		Tank		Well		Tube wells		Other sources		Total	
		No	%	No	%	No	%	No	%	No	%	No	%
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Thiruvananthapuram	375	0.68	436	1.23	4595	3.96	487	2.22	2633	2.17	8537	2.43
	Kollam	95	0.17	175	0.49	3110	2.68	17	0.08	1827	1.50	5229	1.49
3	Pathanamthitta	827	1.49	93	0.26	2111	1.82	44	0.20	2245	1.85	5326	1.52
4	Alappuzha	2312	4.17	2294	6.47	2887	2.49	5056	23.04	16287	13.40	28885	8.23
5	Kottayam	96	0.17	667	1.88	2435	2.10	98	0.45	9554	7.86	12863	3.67
6	Idukki	1832	3.31	9868	27.82	2722	2.35	306	1.39	20103	16.54	34882	9.94
7	Ernakulam	8022	14.48	1663	4.69	9788	8.44	798	3.64	5137	4.23	25443	7.25
8	Thrissur	7235	13.06	4093	11.54	28432	24.51	1906	8.69	10506	8.64	52238	14.89
9	Palakkad	30574	55.20	3055	8.61	14287	12.31	6268	28.57	11413	9.39	65711	18.73
10	Malappuram	1636	2.95	3108	8.76	12718	10.96	1247	5.68	10387	8.55	29133	8.30
11	Kozhikode	599	1.08	710	2.00	5540	4.77	218	1.00	3245	2.67	10323	2.94
12	Wayanad	628	1.13	1635	4.61	907	0.78	95	0.43	14436	11.88	17720	5.05
13	Kannur	289	0.52	1996	5.63	10765	9.28	383	1.75	8231	6.77	21688	6.18
14	Kasargod	863	1.56	5685	16.02	15723	13.55	5017	22.87	5545	4.56	32890	9.37
	<b>State</b>	<b>55384</b>	<b>100.00</b>	<b>35478</b>	<b>106</b>	<b>116020</b>	<b>100.00</b>	<b>21940</b>	<b>100.00</b>	<b>121548</b>	<b>100.00</b>	<b>350870</b>	<b>100.00</b>

Table 16 (e) - Percentage of number of holdings irrigated by different sources in each district- 2005-2006

Sl. No.	District	Source of Irrigation											
		canal		tank		well		tube well		other sources		Total	
		No	%	No	%	No	%	No	%	No	%	No	%
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Thiruvananthapuram	3279	0.95	4538	1.32	205749	59.73	10288	2.99	120613	35.01	344467	100.00
2	Kollam	1203	0.54	2151	0.96	175693	78.64	814	0.36	43558	19.50	223419	100.00
3	Pathanamthitta	7914	5.17	1434	0.94	124052	81.11	1216	0.79	18329	11.98	152945	100.00
4	Alappuzha	6432	1.89	30039	8.84	135413	39.84	120330	35.4	47712	14.04	339926	100.00
5	Kottayam	781	0.64	4101	3.38	84271	69.44	921	0.76	31290	25.78	121364	100.00
6	Idukki	5356	5.85	10285	11.24	21032	22.98	1454	1.59	53396	58.34	91523	100.00
7	Ernakulam	51955	17.11	8443	2.78	163095	53.72	25000	8.23	55104	18.15	303597	100.00
8	Thrissur	21754	5.08	16419	3.83	314081	73.35	10055	2.35	65866	15.38	428175	100.00
9	Palakkad	52305	16.78	7927	2.54	101973	32.71	15079	4.84	134485	43.14	311769	100.00
10	Malappuram	4665	2.81	10061	6.05	116610	70.15	6243	3.76	28645	17.23	166224	100.00
11	Kozhikode	3331	2.3	1851	1.27	117842	81.23	4714	3.25	17325	11.94	145063	100.00
12	Wayanad	1844	3.59	1425	2.77	11620	22.63	496	0.97	35972	70.04	51357	100.00
13	Kannur	1718	0.65	6247	2.36	214038	81.02	3571	1.35	38609	14.61	264183	100.00
14	Kasaragod	2257	1.27	13414	7.53	117565	65.98	19902	11.17	25050	14.06	178188	100.00
	<b>State</b>	<b>164794</b>	<b>5.28</b>	<b>118335</b>	<b>3.79</b>	<b>1903034</b>	<b>60.95</b>	<b>220092</b>	<b>7.05</b>	<b>715954</b>	<b>22.93</b>	<b>3122209</b>	<b>100.00</b>

Table IV 16 (f) Percentage of area irrigated by different sources in each district - 1995-96,2000-01&amp; 2005-06

Sl. No.	District	Source of irrigation										
		canal			Tank			well				
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06		
1	2	3	4	5	6	7	8	9	10	11		
1	Thiruvananthapuram	7.56	13.76	4.40	2.96	6.15	5.11	81.70	57.37	53.90		
2	Kollam	3.21	2.51	1.82	2.21	4.33	3.34	75.26	70.50	59.53		
3	Pathanamthitta	23.35	5.62	15.55	3.81	7.40	1.75	22.58	31.70	39.69		
4	Alappuzha	9.03	11.84	8.02	7.87	7.96	7.96	21.81	15.07	10.01		
5	Kottayam	9.28	8.40	0.75	7.03	6.96	5.19	24.51	25.02	18.95		
6	Idukki	4.49	4.97	5.26	22.72	42.41	28.33	24.77	29.20	7.81		
7	Ernakulam	20.91	29.28	31.57	7.19	7.68	6.54	49.65	47.93	38.52		
8	Thrissur	14.66	16.69	13.87	8.72	9.42	7.84	56.05	52.20	54.50		
9	Palakkad	50.24	50.75	46.61	3.63	5.36	4.66	27.32	24.03	21.78		
10	Malappuram	3.26	4.72	5.62	8.10	11.50	10.68	47.99	59.94	43.71		
11	Kozhikode	7.35	8.11	5.81	4.45	7.42	6.89	76.92	61.20	53.72		
12	Wayanad	22.09	3.97	3.55	28.32	21.97	9.24	8.83	22.48	5.12		
13	Kannur	1.85	4.23	1.34	4.65	11.92	9.22	59.05	60.48	49.69		
14	Kasargod	3.70	1.28	2.63	19.13	17.21	17.31	52.78	59.96	47.89		
	<b>State</b>	<b>18.48</b>	<b>18.08</b>	<b>15.81</b>	<b>8.79</b>	<b>12.19</b>	<b>10.13</b>	<b>42.29</b>	<b>41.88</b>	<b>33.11</b>		

Conti.....

Sl. No.	District	Source of irrigation														
		Tube wells						Other sources						Total		
		95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06	95-96	00-01	05-06
1	2	12	13	14	15	16	17	18	19	20						
1	Thiruvananthapuram	2.81	1.91	5.71	4.97	20.81	30.88	100.00	100.00	100.00						
2	Kollam	3.36	0.81	0.33	15.96	21.86	34.97	100.00	100.00	100.00						
3	Pathanamthitta	3.32	1.36	0.82	46.94	53.91	42.20	100.00	100.00	100.00						
4	Alappuzha	10.66	17.99	17.53	50.63	47.14	56.48	100.00	100.00	100.00						
5	Kottayam	3.32	1.15	0.76	55.86	58.46	74.34	100.00	100.00	100.00						
6	Idukki	4.72	3.17	0.88	43.38	20.25	57.72	100.00	100.00	100.00						
7	Emakulam	5.99	2.63	3.14	16.26	12.49	20.22	100.00	100.00	100.00						
8	Thrissur	6.55	5.76	3.65	14.02	15.93	20.14	100.00	100.00	100.00						
9	Palakkad	2.87	6.19	9.56	15.94	13.67	17.40	100.00	100.00	100.00						
10	Malappuram	5.56	3.81	4.29	35.09	20.03	35.70	100.00	100.00	100.00						
11	Kozhikode	1.73	2.03	2.12	9.55	21.23	31.46	100.00	100.00	100.00						
12	Wayanad	0.40	1.49	0.54	40.36	50.09	81.56	100.00	100.00	100.00						
13	Kannur	2.64	1.57	1.77	31.81	21.79	37.99	100.00	100.00	100.00						
14	Kasargod	8.12	7.08	15.28	16.27	14.47	16.89	100.00	100.00	100.00						
	<b>State</b>	<b>5.39</b>	<b>5.27</b>	<b>6.26</b>	<b>25.05</b>	<b>22.58</b>	<b>34.69</b>	<b>100.00</b>	<b>100.00</b>	<b>100.00</b>						

Table IV 16 (g) Number of wells and tube wells used for irrigation in different size classes

Sl. No.	Size class	Number of wells in use				Without pump set	Number of tube wells		
		With pump set		Total (3+4)	Electric		Diesel	Total (7+8)	
		Electric	Diesel						
1	2	3	4	5	6	7	8	9	
1	Below 1.00	1208223	11213	1219436	616198	202122	3233	205355	
2	Small (1.00-1.99)	85507	4262	89769	10320	9944	178	10122	
3	Semi-medium (2.-3.)	30775	2458	33233	3131	4799	172	4971	
4	Medium (4.00-9.99)	7483	730	8213	643	1926	68	1994	
5	Large (10.00-&above)	1367	212	1579	140	351	18	369	
	<b>All sizes</b>	<b>1333355</b>	<b>18875</b>	<b>1352230</b>	<b>630432</b>	<b>219142</b>	<b>3669</b>	<b>222811</b>	



Table 1V 16 (h) Distribution of district wise number of wells and tube wells

Sl. No	District	Number of wells in Use						Number of tube wells		
		With pump set			Without pump set			Electric	Diesel	Total(7+8)
		Electric	Diesel	Total	Electric	Diesel	Total			
1	2	3	4	5	6	7	8	9		
1	Thiruvananthapuram	108263	393	108656	141542	12848	132	12980		
2	Kollam	104603	427	105030	83935	1140	199	1339		
3	Pathanamthitta	70678	425	71103	56654	1307	86	1393		
4	Alappuzha	81034	382	81416	64882	118381	462	118843		
5	Kottayam	66292	382	66674	34986	1240	114	1354		
6	Idukki	25273	3091	28364	3857	1554	109	1663		
7	Ernakulam	134504	785	135289	27805	23169	597	23766		
8	Thrissur	297684	1897	299581	26723	12309	377	12686		
9	Palakkad	52240	865	53105	18348	14644	306	14950		
10	Malappuram	102095	2764	104859	37056	6463	227	6690		
11	Kozhikode	51024	862	51886	26020	3777	532	4309		
12	Wayanad	3577	239	3816	2743	372	120	492		
13	Kannur	145921	1430	147351	71615	3639	95	3734		
14	Kasargod	90167	4933	95100	34266	18299	313	18612		
	<b>State</b>	<b>1333355</b>	<b>18875</b>	<b>1352230</b>	<b>630432</b>	<b>219142</b>	<b>3669</b>	<b>222811</b>		

**Table IV-17 Intensity of irrigation (Gross Area concept)**

SI No	Size Class(Hectares)	Intensity of irrigation (Gross Area Concept)		
		1995-96	2000-01	2005-06
1	2	3	4	5
1	Below 1.00	114.91	111.05	111.10
2	Small (1.00-1.99)	113.34	108.53	110.09
3	Semi-medium(2.-3.)	112.50	107.60	109.38
4	Medium (4.00-9.99)	113.76	107.17	107.69
5	Large(10.00-&above)	113.38	102.90	109.34
<b>All sizes</b>		<b>113.97</b>	<b>109.25</b>	<b>110.21</b>

Table-17-a

**District-wise percentage distribution of gross cropped area according to Irrigation Status -2005-06**

Sl No	District	Irrigated	Unirrigated	Total
1	2	3	4	5
1	Thiruvananthapuram	12.37	87.63	100
2	Kollam	6.63	93.37	100
3	Pathanamthitta	8.67	91.33	100
4	Alappuzha	48.50	51.50	100
5	Kottayam	10.52	89.48	100
6	Idukki	18.97	81.03	100
7	Ernakulam	26.23	73.77	100
8	Thrissur	59.28	40.72	100
9	Palakkad	39.37	60.63	100
10	Malappuram	26.45	73.55	100
11	Kozhikode	10.50	89.50	100
12	Wayanad	20.28	79.72	100
13	Kannur	18.05	81.95	100
14	Kasargod	47.90	52.10	100
	<b>State</b>	<b>24.83</b>	<b>75.17</b>	<b>100</b>





**Printed by the Superintendent of Government Presses at  
the Government Press, Mannanthala, Thiruvananthapuram**