



GOVERNMENT OF ASSAM

REPORT
ON
AGRICULTURAL CENSUS
2010-11
ON
NUMBER AND AREA OF OPERATIONAL HOLDINGS
(Phase-I)

DIRECTORATE OF ECONOMICS AND STATISTICS
GOVERNMENT OF ASSAM
GUWAHATI-28.

FOREWORD

Agricultural Census has been conducted in the State quinquennially since 1970-71 as a part of the All India programme through Central Sector Plan Scheme organised by the Ministry of Agriculture and Co-operation, Government of India to collect qualitative information relating to Agricultural Holdings and Area Operated along with its characteristics and basic structure.

The Agricultural Census 2010-11 is the ninth in number and has been conducted in the State of Assam with reference year 2010-11 along with the rest of the Country.


The main findings of the Agricultural Census 2010-11 regarding the number and area of the operational holdings in the State is being presented in this report.

Through this publication an attempt is made to throw some light on the distribution of Agricultural holding according to five number of size groups viz. Marginal, Small, Semi-Medium, Medium and Large group operated by male and female holding by different social status-wise such as scheduled caste, scheduled tribes and other communities and by institutions separately. I offer my thanks and gratitude to the officials of Ministry of Agriculture, Agriculture Census Division, Government of India for their constant guidance and help in conducting the field work of Agricultural Census 2010-11 in the State.

It is hoped that this publication will be helpful to policy makers, planners, research workers and other users in the field of Agricultural Economy.

I offer my appreciation to the officers and staff of Agricultural Census Division of the Directorate for their dedicated efforts in bringing out the publication.

Dated Guwahati,
6th January, 2014.


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1- Introduction :-

1.1 Agriculture Census:- Agriculture Census is a large scale statistical operations for collection of quantitative data about the structures and status of Agricultural sector of the economy by taking the operational holdings as the basic unit.

The economy our country as well as the State is agrarian in nature and almost 70% of our total population depends on agriculture for their livelihood, it is very important to collect reliable and comprehensive data on the important aspects of the Agricultural Sector for proper formulation and successful implementation of any plan and programme for development of agriculture at micro level.

Agricultural Census is the main source of information on basic characteristics of operational holdings such as number and area of operational holdings, land use and cropping pattern, tenancy status, irrigation status, area leased in terms of leasing and area under different crops etc. and this information is collected by different size classes and social status-wise such as scheduled caste, scheduled tribes and other communities other than scheduled caste and scheduled tribes along with the institutional holdings separately.

The information derived from different Agricultural Censuses conducted in the State plays a pivotal role in taking up appropriate plans and programmes of this vital sector of the economy for achieving the desired goal.

1.2- Historical background :- The first world Agricultural Census was conducted in the year 1924 by the International Institute of Agriculture (IIA) in Rome. It was conducted in 1930 where 63 Countries participated. The after the Food and Agricultural Organization of UNO took over of IIA and subsequently started to conduct the World Agricultural Census.

1.3-Agricultural Census in India:- Government of India has conducted the first Agricultural Census in the country with Agricultural Year 1970-71 (June to July) as the part of the World Agricultural Census programme sponsored by FAO (UNO).

Presently, the Census is conducted by re-tabulating land record data already available and maintained by the Revenue Department. Where land record data is not maintained, data is collected through sample survey.

1.4- Agricultural Census in Assam :- The State of Assam participated in the programme of Agricultural Census with the launching of 8th round of National Sample Survey (NSS) in 1950. The programme of Agricultural Census 1960 was carried out in the State along with the programme of the 16th round of NSS.

Agricultural Census 1970 was carried out on complete census basis under the programme of World Agricultural Census. Thereafter, Agricultural Censuses with reference year 1975-76, 1980-81, 1985-86, 1990-91, 1995-96, 2000-01, 2005-06 and 2010-11 were successfully conducted in the State of Assam.

1.5- Organizational set up :- Agriculture Census is a Central Sector Plan Scheme guided by the Department of Agriculture under the Ministry of Agriculture and Co-operation, Government of India.

1.6- State's set up :- The Principal Secretary to the Government of Assam, Revenue &

Disaster Management Department is the Agricultural Census Commissioner and is in the overall charge of Agriculture Census operation in the State. There is a State Level Co-ordination Committee constituted for the purpose of smooth implementation of the Agriculture Census with the Principal Secretary to the Government of Assam, Revenue & Disaster Management Department as Chairman and the Director of Economics & Statistics, Assam as Member Secretary to review the progress of Agricultural Census in the State and issue necessary guidelines. Similarly, district level co-ordination committee is also formed headed by the Deputy Commissioner of the district to review the district level progress.

The technical portion of the whole programme of the Agricultural Census viz. (a) Printing of schedules and instructions booklet (b) Training to the field level staff (c) Scrutiny of the filled-in schedules (d) Tabulation of the data and report writing is done by the Directorate of Economics & Statistics, Assam.

The Director of Land Record, Assam is responsible for the field works. Data is collected by the Revenue officials (*Mondal*) in the plain district of the State.

In the two Hills District, Karbi-Anglong and N.C. Hills, field works are conducted by the VLEW (Village Level Extension Workers) under the direct control of the Block Development Officers and Gram Sevaks.

The technical guidance in every respect is given by the field officers of the Directorate of Economics and Statistics, Assam.

1.7- Data processing :- Unlike the earlier Census, the responsibility of the computerised processing of data in respect of Agricultural Census 2010-11 and Input Survey 2011-12 has been entrusted to the National Informatic Center (NIC), Government of India. NIC executed the major task of data processing through the DOEAC (Department of Electronic and Accreditation of Computer Courses) Center, Kolkata and CDAC at New Delhi.

The data processing works of Agricultural Census 2010-11 for the State is undertaken in a local based data processing agency in Guwahati as done in case of 2005-06 Census under the guidance and supervision of the DOEACC Centre, Kolkata through DOEACC Co-ordinator entrusted for the State.

1.8- Analysis of the data: – The data relating to the structure of operational holding at Micro and Macro levels has been generated since 1970-71 through the quinquennially conducted Agricultural Census by the Department of Agriculture and Co-operation, Government of India in collaboration with the States/UTS. Agricultural production of a country depends to a great extent on the structure of operational holding.

Therefore, the main objective of Agricultural Census is to provide basic data on operational holdings to review the characteristic and structures of the Agricultural sector.

2-Methodology: –

Agriculture Census is the largest country-wide statistical operations undertaken by the Ministry of Agriculture, Department of Agriculture & Co-operation, Agriculture Census Division, Government of India, New Delhi.

The Agriculture Census in Assam is conducted by re-tabulation of information as available in the land record (*Chitha* Book) according to ten size classes of operational holdings. Prior to the starting of the field works of the Census, the reference year of the Census, 2005-06 is declared as “Land Record Year” for updating the land records data of the State for getting the factual position of the agricultural holders and reliable data for the purpose of the Census.

As per the concept and definition of Agricultural Census, efforts are made to obtain the de-facto position rather than the de-jure position of the holders.

The Agricultural Census 2010-11 was carried out in the State on Census cum sample basis.

The Census is done in three phases.

(A) In the first phase information on number and area of the operational holding according to ten size classes and under different social groups were collected for gender wise on complete enumeration basis.

In the two hill districts where land record is not maintained, data is collected in 20% sample village through door to door enquiry method.

(B) In the second phase of the census, data is collected in 20% sample villages. In this phase detailed information about the structure of holdings is collected viz. information on tenancy status, area leased in terms of leasing, area under different land use, crop and source wise area irrigated and un-irrigated and disposal of operated area, which is then estimated for the State.

The information are collected in the following broad groups.

- (i) Gender wise number and area of operational holdings by specified size groups and their dispersals.
- (ii) Tenancy status Size class wise.
- (iii) Area under different land use size class wise in six fold classification.
- (iv) Cropping pattern such as cropped once or more than once etc.
- (v) Crop-wise and source-wise area irrigated/un-irrigated size class wise. The information so collected were compiled for three social groups viz. scheduled caste, scheduled tribes and other than scheduled caste and scheduled tribes and institutional holding separately.

(C) The 3rd phase of the Agriculture Census is known as the Input survey. Input survey is done in only 7 percent sample villages of the total villages of the State. The 7% villages are selected by selecting 35% villages randomly out of the 20% TRS villages which were already selected for the 2nd phase of Agricultural Census 2005-06 and data is collected on the pattern of Input used for various crops. The information are collected in respect of :

- (i) Multiple cropping
- (ii) Application of chemical fertilizer and pesticides
- (iii) Live-stocks
- (iv) Agricultural machineries
- (v) Seeds
- (vi) Agricultural credit and IPM (Integrated Pest Management).

3-Concept and Definitions:-

(a) **Operational holding:** – The primary unit of enumeration of the Agriculture Census is the operational holding. It is defined as “All the 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 the title, legal form, size or location”

(b) **Technical unit:** – An operational holding (an unit of land) which is operated under the same management and has the same means of production such as labour-force, machinery and animals etc. is called one technical unit.

(c) **Operated area:** – Operated area would include both cultivated and uncultivated area, provided a part of it used for the purpose of agricultural production during the reference period. As for example, if an operational holding consist of four survey number and any one of the survey number is used for agricultural production and others are used for non-agricultural uses, the total area under all the survey numbers would be counted as operated area.

(d) **Operational holder:** – A person who has the responsibilities for the operation of the holding and who exercises the technical initiatives in operating the agricultural holding is called operational holders.

The holder may have full economic responsibilities or he may share it with others. The operated holders is divided as Individual/Joint and institutional holders.

(e) **Size classes and broad size groups of holdings:-** The different size classes for which the data on Agricultural Census is collected are as follows:

- | | | | |
|-------|---------------|---|-----------------------------------|
| (i) | Marginal - | { | below 0.50 hectare. |
| | | } | 0.50 hectare to 1.00 hectare. |
| (ii) | Small - | | 1.00 hectare to 2.00 hectares. |
| (iii) | Semi-medium - | { | 2.00 hectares to 3.00 hectares |
| | | } | 3.00 hectares to 4.00 hectares |
| (iv) | Medium - | { | 4.00 hectares to 5.00 hectares. |
| | | } | 5.00 hectares to 7.50 hectares. |
| | | | 7.50 hectares to 10.00 hectares. |
| (v) | Large - | { | 10.00 hectares to 20.00 hectares. |
| | | } | 20.00 hectares and above. |

(f) **Home stead land:** – The home stead land or the “Abadi” area is the land occupied by the residential house of the holders in a village. The homestead land is not included in the total operational area of the holder if the residential house is located outside the Cultivated area.

On the other hand, if the residential house or farm house building of the holders is located within the cultivated area it would be treated as operated area and would be included in the operated holdings of the farmer.

(g) **Resident and non-Resident operational holders:-** All the cultivators residing in a

(h) particular village and cultivating some land in the same Tehsil is called the resident cultivators of the village irrespective of the fact that whether they are cultivating some land within the village or not.

On the other hand, if a cultivator residing in a particular village doesn't have any cultivating Land within the same Tehsil of the village of residence, he would be treated as non-resident cultivator of the village.

(i) **The schedules:** – Three number of listing schedule is used for collection of primary Census data which are as follows :

Schedule L1 – List of resident operational holders. (recorded in L1.)

Schedule L2 – List of non-resident operational holders. (recorded in L2 in Land record district, in the hill district L2 is used for recording of Institutional holding.)

Schedule L3 – Village summery. (recorded in L3.)

Table 1 – All the data collected though the listing Schedule L1 is tabulated. (in Table-1 of village/circle/District.)

The main findings of Agricultural Census 2010-11.

- (1) The total number of Operational Holdings estimated in the State is 2720223 and Area Operated is 2999070 hectares.
- (2) There is a decreased of 1.08 percent holdings in 2010-11 over 2005-06 Census whereas total area operated is decreased by (-)1.62 percent over previous 2005-06 Census 304854 hectares.
- (3) An increasing trend is observed in the average size of holding in below 0.50, 5.0 and 7.5 hectares by 11.03, 3.89 and 2.62 percent respectively over 2005-06 Agricultural Census and in the other size classes a decreasing trend is recorded.
- (4) The operated area increased in the below 0.50 size class by 9.12 percent and size class 5.00 hectares by 5.31 percent and 7.5 size class by 3.90 percent increased over by 2005-06. In the other size classes operated area decreased in Agricultural Census, 2010-11 over 2005-06 census.
- (5) The marginal and small holding taken together constituted 85.57 percent of the total holdings in Agriculture Census 2010-11 as against 85.25 percent in Agriculture Census 2005-06.
- (6) The individual operated holders shared 99.35 percent of the total holding with operated area 90.34 percent, the joint holders only constituted 0.46 percent holdings and the institutional holdings constituted 0.19 percent with operated area 1.00 percent and 8.65 percent respectively.
- (7) The Agricultural Census 2010-11 shows that the participation of woman in agriculture is in a gradually increasing rate. The total number of woman holders is increased by 16.40 percent over Agriculture Census 2005-06. The Female holders shared 2.12 percent of the total holdings while it was only 1.80 percent in 2005-06.

- (8) Scheduled Caste:- The total number of holding operated by schedule Caste Communities is decreased by 16.33 percent over 2005-06 with operated area decreased by 9.07 percent over Agriculture Census 2005-06. The small and marginal holdings contributed 84.18 percent of the total holdings. The average size of the holdings is 1.07 against 0.98 hectare in 2005-06.
- (9) Scheduled Tribes:- The number of holdings operated by the scheduled tribes communities is Increase by 0.06 percent over Agriculture Census 2005-06. On the other hand, the area operated by the communities is increased by 5.42 percent in Agriculture Census 2010-11 over Agriculture Census 2005-06. The average size of the holdings is estimated as 1.18 hectares while it was 1.12 hectares in 2005-06 Census. The marginal and small holdings shares 81.56 percent of the total holders.
- (10) Other Categories:- The number of holdings operated by the holders other than scheduled caste and scheduled tribes communities (General categories) is decreased by 0.14 in Agriculture Census 2010-11 over 2005-06 with operated area decreased by 2.64 percent over 2005-06.

In general categories the marginal group of holdings shows an increased by 5.82 percent over Agriculture Census 2005-06 and the area operated by the marginal group is increased by 4.16 percent over 2005-06. The average area of holdings in the marginal group is 0.42 hectare against 0.43 hectare in Agriculture Census 2005-06. The average area of holdings operated by the general categories in 2010-11 Census is recorded as 0.97 hectare against 0.99 hectare in Agriculture Census 2005-06. A decreased of (-) 2.02 percent is observed in average area operated over 2005-06.

- (11) Institutional holdings :- The number of holdings operated by the institutions is increased by 11.36 percent over Agriculture Census 2005-06.

The number of institutional holding is recorded as 5048 in 2010-11 Agriculture Census as against 4533 in Agriculture Census 2005-06. The area operated by the institution is decreased by 1.81 percent over 2005-06 census. The average area of the Institutional holding in Agriculture Census 2010-11 is decreased to 51.37 hectares as against 58.26 hectares in Agriculture Census 2005-06.

The number of Institutional holdings is mainly constituted by the tea gardens in the State. The high rate of increase in the number of institutional holdings and area operated is being attributed to the plantation of tea gardens by the Small tea growers on Co-operative basis and planting of horticulture gardens practiced in the State.

District level analysis of the area and holding data:-

1. Out of total 2720223 numbers of holdings in the State, highest number of holdings belong to Nagaon District with 229623 holders followed by Sonitpur with 217566, Kamrup (Rural) with 183634 and Barpeta with 127093 holders.

On the other hand, out of total 2999069 hectares of operated area of the State, Nagaon District shares highest with 235584 hectares followed by Sonitpur District with 232509 hectares, Kamrup (Rural) with 178643 hectares and Tinsukia District with 173481 hectares of area.

The average size of holdings is highest in Tinsukia District with 1.86 hectares, followed by Karimganj District with 1.63 hectares, Dibrugarh District with 1.50 hectares, Sivasagar District with 1.41 hectares and Golaghat and Barpeta District same with 1.27 hectares. Jorhat District 1.26 hectares and Baska with 1.21 hectares. The lowest average size of holding is found in Kokrajhar District with only 0.71 hectares.

2. The number of holdings operated by the scheduled caste communities is highest in Nagaon District with 23137 followed by Sonitpur with 11828 holdings, Morigaon with 11001 holdings and Darrang District with 9503 holdings. The area operated is highest in Nagaon District with 22989 hectares followed by Morigaon with 14090 hectares, Sonitpur with 11374 and Cachar with 8802 hectares.
3. The number of holdings operated by the scheduled tribes communities is highest in Karbi- Anglong District with 56581 holdings followed by Odalguri with 46940, Baska District with 46479 holdings and Dhemaji District with 37162 holdings. The area operated by the scheduled tribes communities is highest in Karbi-Anglong District with 67679 hectares followed by Baska District with 55240 hectares and Odalguri District with 39249 hectares.
4. The number of holding operates by the social group other communities is highest Sonitpur District 193783 holdings followed by Nagaon District 192303 holdings, Kamrup (Rural) 158580 holding and Dhubri District with 127022 holdings. The area operated is highest Nagaon district with 183046 hectares followed by Sonitpur district 181340 hectares, Borpeta district with 150302 hectares and Kamrup (Rural) district with 146774 hectares.
5. Out of the total number of 5075 holdings operated by the institutions, it is highest in Dibrugarh District with 788 holdings followed by Tinsukia district with 443 holdings, Sivasagar District with 418 holdings, Jorhat District with 374 holdings, Kamrup (Rural) District with 345 holdings, Baska District with 366 holdings, Kamrup (Rural) District with 345 holdings and Sonitpur District with 284 holdings.
The area operated by the Institutions is highest in Tinsukia District with 48116 hectares followed by Dibrugarh District with 45433 hectares, Golaghat District with 24849 hectares, Sivasagar District with 21685 hectares, Sonitpur District with 21208 hectares, Jorhat District with 19487 hectares and Karimganj District with 17112 hectares.
6. In the district-wise analysis regarding the percentage variation in the number of holdings in Agricultural Census 2010-11 over Agricultural Census 2005-06 for the District, it is observed that highest variation is found in Dima Hasau District with (+) 55.38 percent increase followed by Kokrajhar District with (+) 42.64 percent, Bongaigaon (+) 39.97 and Lakhimpur District with (+) 33.39 on the other hand

highest decreasing variation is observed in Kamrup (M) District with (-) 28.58 percent.

Regarding percentage variation of area operated, the highest increasing trend is observed in Lakhimpur District with (+) 22.30 percent followed by Baska District with (+) 17.26 percent, Dima Hasau District with (+) 8.93 percent and Nagaon District with (+) 4.30 percent.

The highest decrease in area is observed in Dhubri District with (-) 11.32 percent followed by Hailakandi District with 11.31 percent and Cachar District with (-) 10.59 percent.

Table - 1

**Comparative analysis of 2010-11 and 2005-06 Agriculture census
in respect of number of holdings and operated area.**

2005-06		2010-11		Percentage of Increase/Decrease over 2005-06 A/C		Average Size of holdings	
No. of holdings	Operated area	No. of holdings	Operated area	No. of holdings	Operated area	(in hect.)	(in hect.)
2750114	3048543	2720223	2999070	(-)1.08	(-)1.62	2005-06 1.11	2010-11 1.10

Trend in number of operational holdings, operated area and average size of holdings in different Agricultural Censuses since 1970-71 to 2010-11.

Table – 2

No of operated holding since 1970-71 to 2010-11

Agricultural Census	No. of holdings in lakhs
1970-71	19.64
1976-77	22.54
1980-81	22.98
1985-86	24.19
1990-91	25.23
1995-96	26.82
2000-01	27.12
2005-06	27.50
2010-11	27.20

The above table reveals that the number of operational holdings since 1970-71 to 2005-06 maintained an increasing trend. The number of operation holding in Agriculture Census 2010-11 shows a decreasing of (-) 1.08 percent over 2005-06 Agriculture Census.

In the Agricultural Census 2010-11, in comparison to the earlier Censuses, shows a decrease in the rate of increase in the number of operational holding is very low and it is because of shifting of Agricultural land to other allied Agricultural Sector etc.

Table-3

Operated area (in lakh hectares) since 1970-71 to 2010-11.

Agricultural Census	Operated area (in lakh hectre)
1970-71	28.83
1976-77	30.79
1980-81	31.20
1985-86	31.61
1990-91	32.04
1995-96	31.38
2000-01	31.14
2005-06	30.49
2010-11	29.99

The table above represent the area operated under different Agricultural Census since 1970-71. It is observed that since 1970-71 there is a continuous increasing trend upto 1990-91 Census. In 1995-96 the area operated decreased by (-) 2.06 percent over 1990-91 Census. In 2000-01 area decreased by 0.76 percent over 1995-96 and in 2005-06 operated area decreased by 2.09 percent over 2000-01 Census which is the highest. The Agriculture census 2010-11 area operated decreased by (-) 1.62 percent against the prior Agriculture census 2005-06.

Table-4

Average size of holdings (in hectares) since 1970-71 to 2010-11.

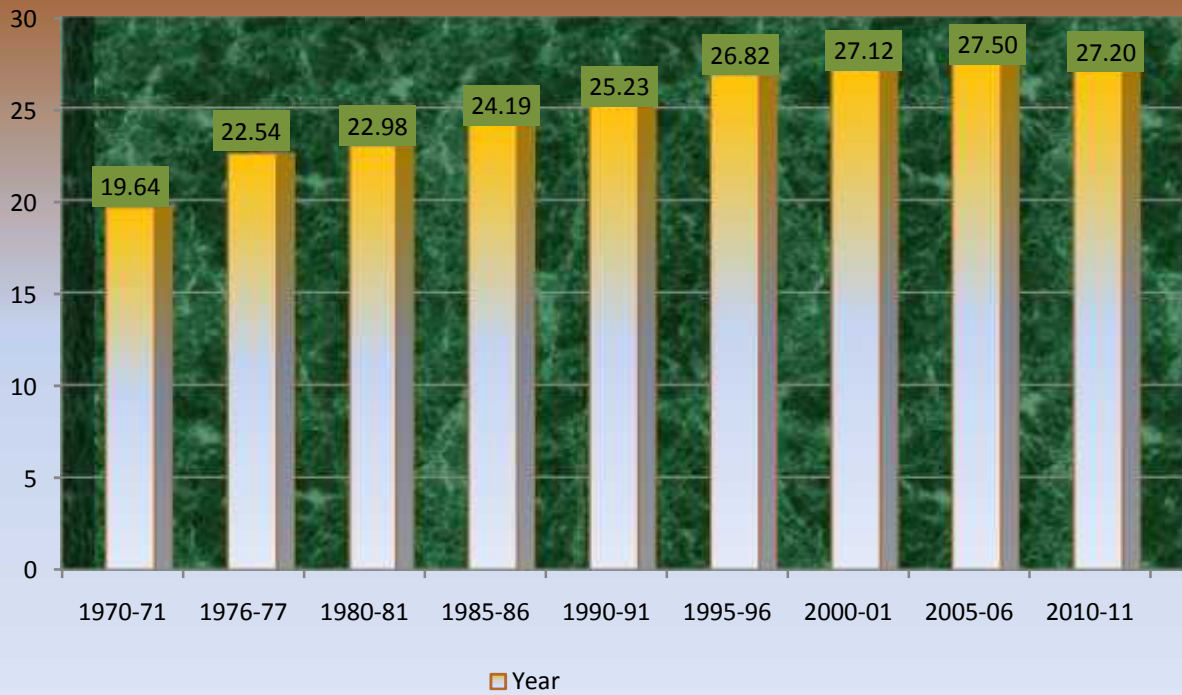
Agricultural Census	Average size of holdings
1970-71	1.47
1976-77	1.37
1980-81	1.36
1985-86	1.31
1990-91	1.27
1995-96	1.17
2000-01	1.15
2005-06	1.11
2010-11	1.10

The average size of holdings shows a continuous decreasing trend, which is due to the effect of increasing trend in the marginal group of operational holdings. Because, marginal group of holders maintain a regular increasing trend over all previous Censuses.

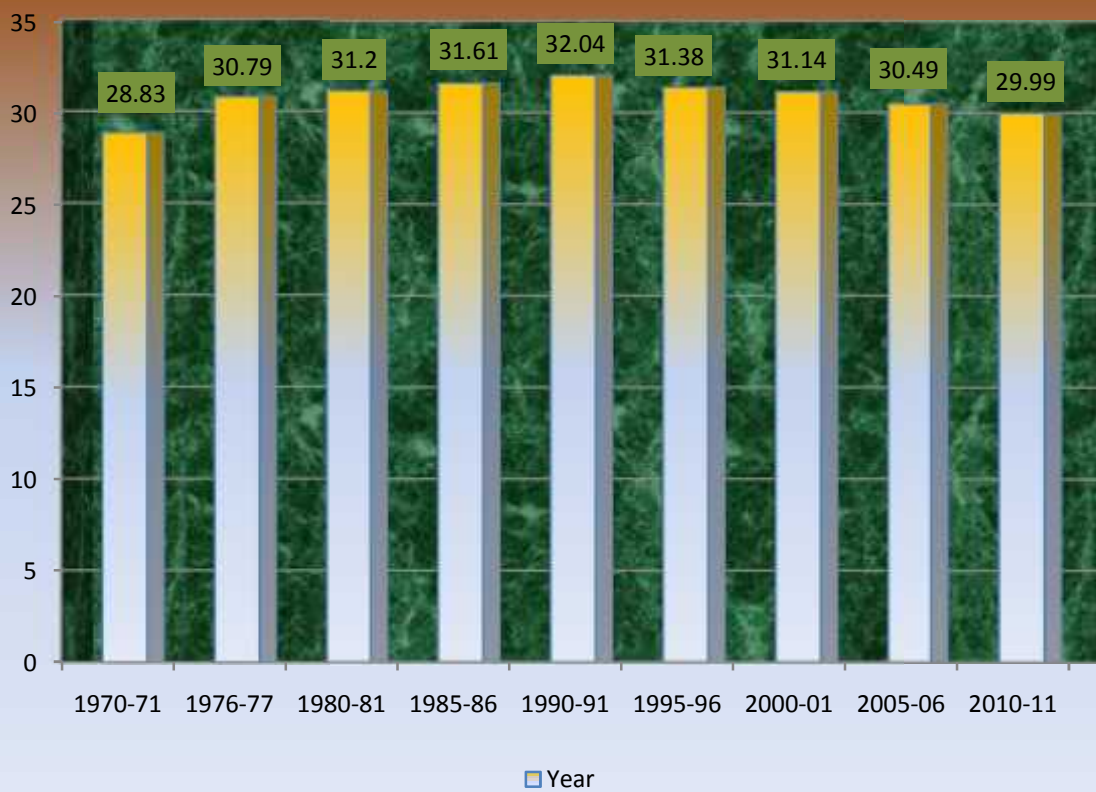
In Agriculture Census 2005-06, marginal holders constituted about 64 percent of the total holdings of the State. In 2010-11 Census, it has increased to 67 percent and out of the total 67 percent of the marginal holdings, the landless holders, the holdings below 0.50 hectare size class constituted 47 percent of the total holdings.

The 67 percent contribution of the marginal holders, out of which 46 percent is landless holders to the total Agricultural holdings of the State, indicates that the Agriculture is no longer a smooth livelihood for majority of the cultivators in the State.

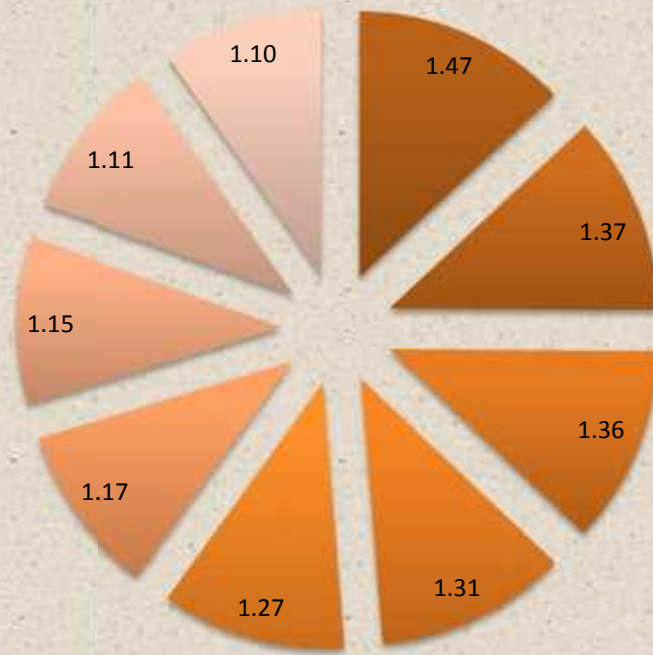
No. of operated holding since 1970-71 to 2010-11 (in lakhs)



Operated area (in lakh hectares) since 1970-71 to 2010-11

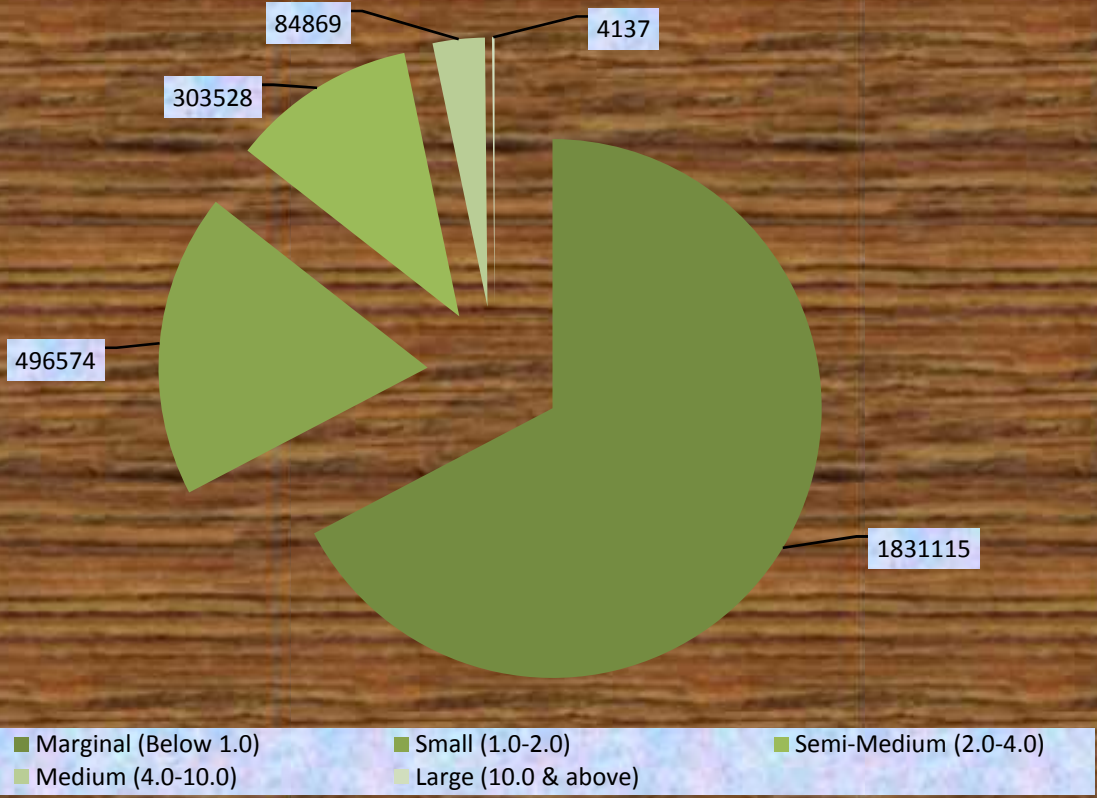


Average size of holdings (in hectares) since 1970-71 to 2010-11



■ 1970-71 ■ 1976-77 ■ 1980-81 ■ 1985-86 ■ 1990-91 ■ 1995-96 ■ 2000-01 ■ 2005-06 ■ 2010-11

Distribution of number of operational holdings size group wise as per 2010-11 Agricultural Census



Distribution of Area operated size group wise as per 2010-11 Agricultural Census

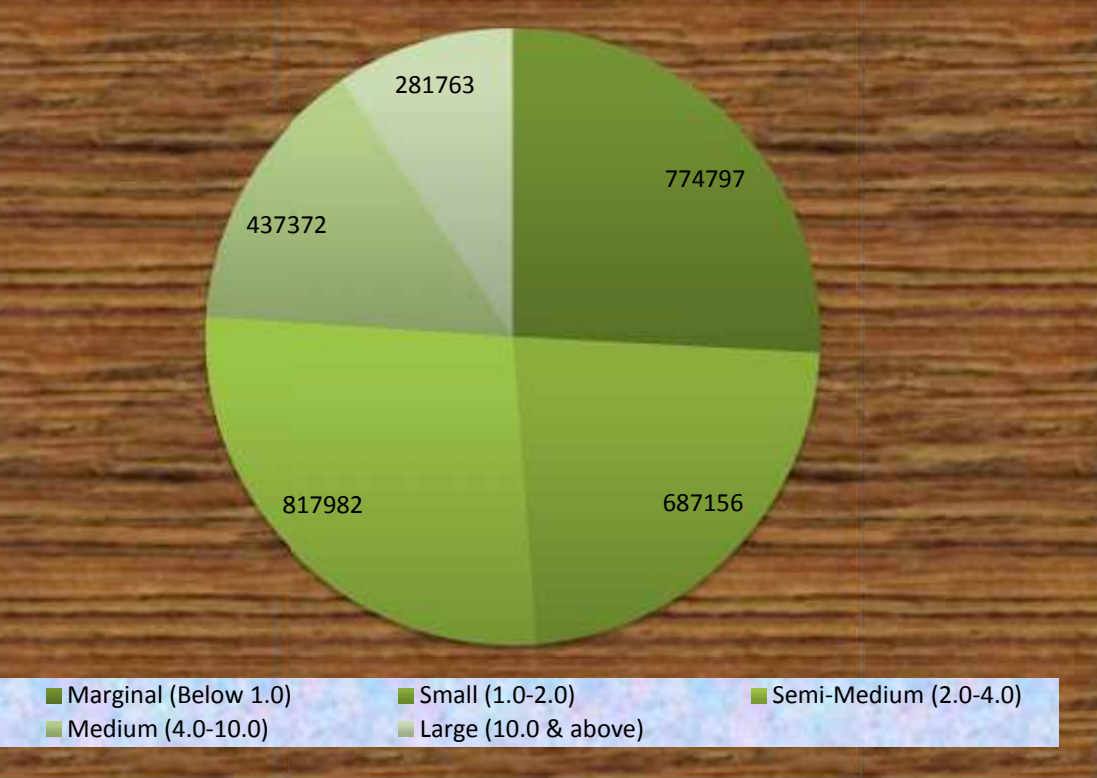


Table-5

Distribution of number of operational holdings and Area operated size group wise as per 2010-11 Agricultural Census.

Size groups (in hectares)	Number of holdings	Percentage of concentration	Operated Area (in hectre)	Percentage of concentration
1	2	3	4	5
Marginal (Below 1.0)	1831115	67.32	774797	25.84
Small (1.0-2.0)	496574	18.25	687156	22.91
Semi-Medium (2.0-4.0)	303528	11.16	817982	27.27
Medium (4.0-10.0)	84869	3.12	437372	14.58
Large (10.0 & above)	4137	0.15	281763	9.40
All	2720223	100.00	2999070	100.00

The above table reveals the concentration of land holdings in different size groups where marginal groups constituted the largest segment of 67.32 percent of the total holdings and in case of the operated area highest concentration is observed in the semi-medium group. The Census also provides information on the status of different social groups of the operational holders. A comparative study has been made on the social status of the holders in Agriculture Census 2010-11 over 2005-06 in Table 6(i).

Table-6(i)

Social group wise number of holdings as per 2010-11 over 2005-06 Agricultural Census.

	No. of holdings		Percentage increase/decrease
	2005-06	2010-11	
Scheduled Cast	168855	141279	(-) 16.33
Scheduled Tribes	437912	438160	(+) 0.06
Others	2138814	2135736	(-) 0.14
Institutional	4533	5048	(+) 11.36
All	2750114	2720223	(-)1.08

It is observed that the number of holdings operated by Scheduled Caste and Other community have been decreased in Agricultural Census 2010-11. The number of holding under Institutional holding increased by (+) 11.36 percent over Agriculture Census 2005-06.

Table-6(ii)

**Social group wise operated area (in hectre) as per Agricultural Census
2010-11 over 2005-06.**

Social group	Operated area		Percentage increase/decrease
	2005-06	2010-11	
Scheduled Cast	166606	151488	(-) 9.07
Scheduled Tribes	490051	516597	(+) 5.42
Others	2127793	2071667	(-) 2.64
Institutional	264094	259318	(-) 1.81
All	3048544	2999070	(-)1.62

In analyzing the area of land operated by different communities it has been observed that the increasing trend observed in ST group by 5.42 percent and negative trend observed in SC and other communities. The land under the institutionally operated area decreased by 1.81 percent over Agriculture Census 2005-06.

Table 7(i)

**Number of Holdings and Area operated by Different size classes (All Social Group) as
per 2010-11 over 2005-06.**

(Holdings in Number and Area in Hectares).

Sl. No	Size Class	2005-06		2010-11		Percentage variation 2005-06 over 2010-11	
		No. of holdings	Area Operated	No. of holdings	Area Operated	Holding	Area
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
1	Below 0.50	1152398	353052	1279535	385255	(+) 11.03	(+) 9.12
2	0.5-1.0	600591	407093	551580	389542	(-) 8.16	(-) 4.31
3	Marginal	1752989	760145	1831115	774797	(+) 4.46	(+)1.93
4	1.0-2.0	591431	718383	496574	687156	(-) 16.04	(-)4.35
5	Small	591431	718383	496574	687156	(-) 16.04	(-) 4.35
6	2.0-3.0	213427	496983	203596	480948	(-) 4.60	(-) 4.35
7	3.0-4.0	104432	349023	99932	337034	(-) 4.31	(-) 3.44

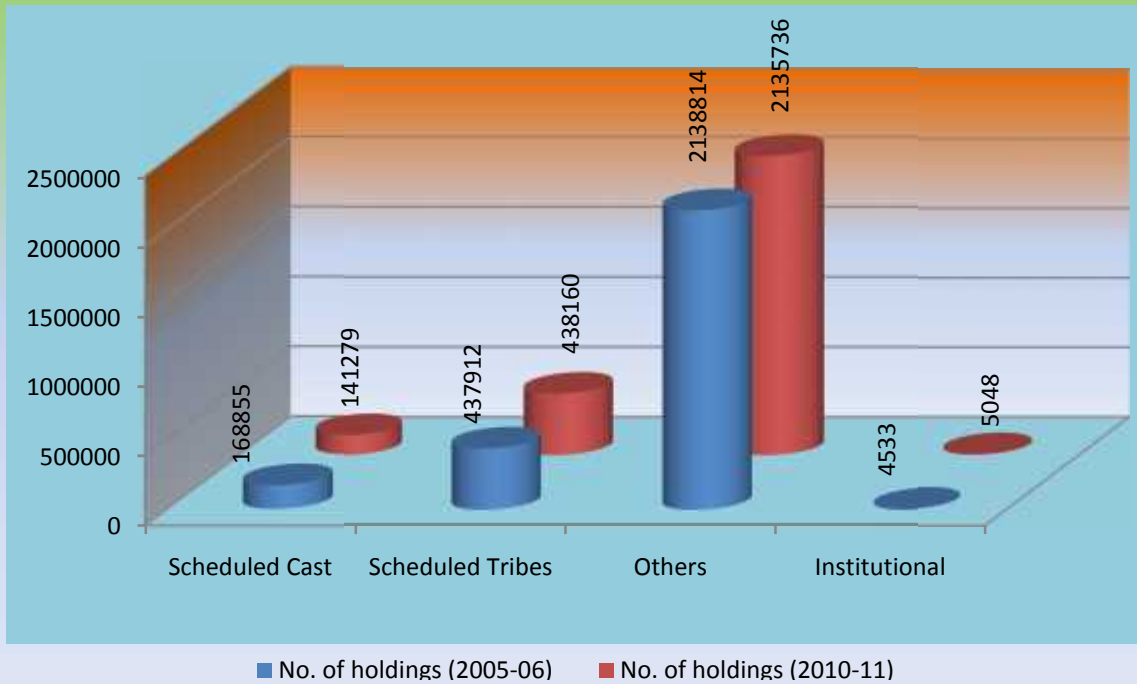
8	Semi-Medium	317859	846006	303528	817982	(-) 4.51	(-) 3.31
9	4.0-5.0	47117	203933	48949	214768	(+) 3.89	(+) 5.31
10	5.0-7.5	30482	177267	31280	184189	(+) 2.62	(+) 3.90
11	7.5-10.0	5334	44203	4640	38414	(-) 13.01	(-) 13.09
12	Medium	82933	425403	84869	437372	(+) 2.33	(+) 2.81
13	10.0-20.0	2607	34251	1861	24567	(-)28.62	(-) 28.27
14	20 & above	2295	264355	2276	257195	(-) 0.83	(-) 2.71
15	Large	4902	298606	4137	281763	(-)15.61	(-) 5.64
All size classes		2750114	3048543	2720223	2999070	(-)1.08	(-) 1.62

The above table shows that the number of Agricultural Holdings and Area operated below 0.50 size class increased by 11.03 percent in number of operational holdings and 9.12 percent in the operated area over Agriculture Census 2005-06. Marginal group shows 4.46 percent increased in number of holdings and (+) 1.93 percent increase in the operated area over 2005-06. Medium group increased 2.33 number of holdings and 2.81 percent increased in the operated area over 2005-06 Agricultural Census.

The small, semi-Medium and large group shows decreasing trend in number of holding and area operated over 2005-06 Agriculture Census. The all size classes shows the decreasing trend (-)1.08 and (-) 1.62 number of holding and area operated over 2005-06 respectively. On the other hand, except the marginal and medium size group, all the size classes shows decreasing trend for both number of holdings and operated area.

The (-) 1.08 percent number of holding and (-) 1.62 percent area operated decreased over 2005-06 census may be attributed to shifting of Agricultural land to other allied sector such as fisheries poultries etc. Urbanization, Industrialization, Expansion of homestead land, Erosion by flood and acquisition of Agricultural land for widening of national highways for construction of four-way lane all over the State is also responsible to some extent.

**Social group wise number of holdings as per 2010-11 over 2005-06
Agricultural Census**



**Social group wise operated area (in hectares) as per Agricultural Census
2010-11 over 2005-06**

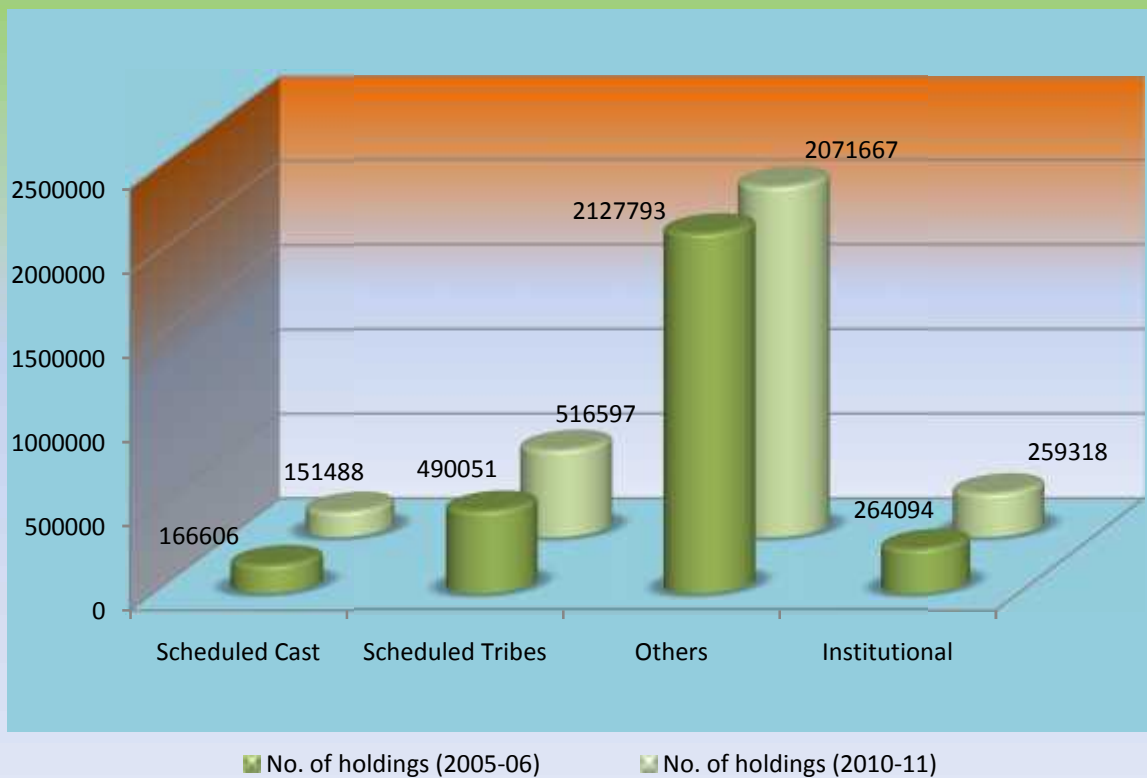


Table 7(ii) A

Number and Area of operational holdings and percentage variation of average size of holdings for 2010-11 over 2005-06 (All Social Group)

(Holdings in Number and Area in Hectares).

Categories	No. of holdings	Percentage to total	Area operated	Percentage to total	Average size of holdings 2010-11 (in hect.)	Average size of holdings 2005-06 (in hect.)	Percentage of variation of average size over 2005-06
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>
Individual	2702616	99.35	2709632	90.35	1.00	1.01	(-) 0.99
Joint	12559	0.46	30120	1.00	2.40	2.04	(+) 17.65
Institutional	5048	0.19	259318	8.65	51.37	58.26	(-)11.83
Total	2720223	100.00	2999070	100.00	1.10	1.11	(-) 0.90

The above table reveals that the holdings operated by the individual holders constituted 99.35 percent of the total holdings and joint holdings constituted only 0.46 percent and institutional holdings 0.19 percent.

The area operated by the Individual holders is 90.35 percent of the total operated area, Joint holdings shared only 1.00 percent and Institutional holdings 8.65 percent.

Table-7(ii) B

Number of holdings and area (in hect.) operated by Male and Female holders in 2010-11 (All Social Groups), Percentage variation of average size of holding over 2005-06.

Categories	No. of holdings	Percentage to total	Area operated (in hect.)	Percentage to total	Average size of holdings 2010-11	Average size of holdings 2005-06	Percentage variation over 2005-06	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>
Individual	Male	2645595	97.26	2639685	88.01	0.99	1.01	(-) 1.98
	Female	57021	2.09	69947	2.33	1.22	1.31	(-) 6.87
	Total	2702616	99.35	2709632	90.34	1.00	1.01	(-) 0.99
Joint	Male	11825	0.43	28746	0.95	2.43	2.06	(+) 17.96
	Female	734	0.03	1374	0.05	1.87	1.22	(+)53.27
	Total	12559	0.46	30120	1.00	2.39	2.04	(+)17.15

Individual +	Male	2657420	97.69	2668431	88.97	1.00	1.01	(-) 0.99
	Female	57755	2.12	71321	2.38	1.23	1.31	(-) 6.10
Joint	Total	2715175	99.81	2739752	91.35	1.00	1.01	(-) 0.99
Institutional		5048	0.19	259318	8.65	51.37	58.26	(-)11.82
Total		2720223	100.00	2999070	100.00	1.10	1.11	(-)0.90

As per the table 1.2 (B) in the individual categories the Male holders constituted 97.26 percent of the total holdings and the Female holders constituted only 2.09 percent of the total holdings. The operated area is 88.01 percent and 2.33 percent of the total operated area by the Male and Female holders in Agriculture Census 2010-11 respectively.

In the Joint categories the Male holders constitute 0.43 percent of the total holdings and Female holders 0.03 percent and the area operated by Male holders constitute 2.43 percent and Female holders 1.87 percent.

The Institutional holdings constituted only 0.19 percent of total holdings and 8.65 percent area operated.

In the Individual category, average size of holdings for Male holders decreased by (-) 1.98 percent over 2005-06 and there is a decrease of (-) 6.87 percent in the average size of the holdings for the Female holders.

In case of Joint holdings the same case repeated, average size of holdings for Male increased by (+) 17.96 percent and for Female increased by (+) 53.27 percent over Agriculture Census 2005-06.

The average size of holdings of individual and joint categories male decreased by (-) 0.99 percent and Female decreased by (-) 6.10 percent and both male and Female together decreased by ((-) 0.99 percent over 2005-06 Agriculture Census.

Table-7(iii)

Comparison of number of holdings of All Social group of Agriculture Census 2010-11 over 2005-06 under each size groups.

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	Number of holdings	Percentage to total	Number of holdings	Percentage to total	
1	2	3	4	5	6
Marginal	1752989	63.74	1831115	67.31	(+) 4.46
Small	591431	21.51	496574	18.26	(-) 16.04
Semi Medium	317859	11.56	303528	11.16	(-) 4.50
Medium	82933	3.02	84869	3.12	(+) 2.33
Large	4902	0.18	4137	0.15	(-) 15.60
Total	2750114	100.00	2720223	100.00	(-) 1.08

Table 1.3 shows that the marginal holdings constituted 67.31 percentage of the total operated holdings and there is an increase of 4.46 percent in the Agriculture Census 2010-11 over 2005-06.

Medium holdings also shows increasing trend and on the other hand in Small, Semi Medium, and Large groups of holdings, there is a decreasing trend by (-) 16.04,(-) 4.50 and (-) 15.60 percent respectively over Agriculture Census 2005-06. Holding under all size groups decreased by (-) 1.09 percent.

Table-7(iv)

Comparison of operated area of All Social Group of Agricultural Census 2010-11 over 2005-06

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	Area operated	Percentage to total	Area operated	Percentage to total	
1	2	3	4	5	6
Marginal	760145	24.93	774797	25.84	(+) 1.93
Small	718383	23.56	687156	22.91	(-) 4.34
Semi Medium	846006	27.75	817982	27.27	(-) 3.31
Medium	425403	13.95	437372	14.58	(+) 2.81
Large	298606	9.80	281763	9.40	(-) 5.64
Total	3048543	100.00	2999070	100.00	(-) 1.62

The area under Marginal group shared 25.84 percent to the total operated area. An increase of (+) 1.93 percent of area in the Marginal group has been noticed in the Agriculture Census 2010-11 over 2005-06.

The Semi Medium category of holdings shared the highest percentage of concentration of 27.27 over the total operated area. A decline of (-) 3.31 percent of area in Agriculture Census 2010-11 over 2005-06 census has been noticed under the category.

The area under Large size group decreased by (-) 5.64 percent over 2005-06.

The over all area operated by all size groups is decreased by (-) 1.62 percent over 2005-06 census.

Table-7(v)

Comparison of Average size of holdings (All Social Group) of Agricultural Census 2010-11 over 2005-06.

Size groups	Average size of holdings (in hect.)		Percentage variation of average size of holdings over 2000-01
	2005-06	2010-11	
1	2	3	4
Marginal	0.43	0.42	(-) 2.33
Small	1.21	1.38	(+) 14.04
Semi Medium	2.66	2.69	(+) 1.28
Medium	5.13	5.15	(+) 0.39
Large	60.92	68.10	(+) 11.79
All	1.11	1.10	(-) 0.90

The average size of holdings for all social group shows a decreasing trend of (-) 0.90 percent over Agriculture Census 2005-06. The marginal group of holdings the average area operated goes down (-) 2.33 percent but other small semi Medium and large size number of holding slightly increasing over 2005-06 Agriculture Census.

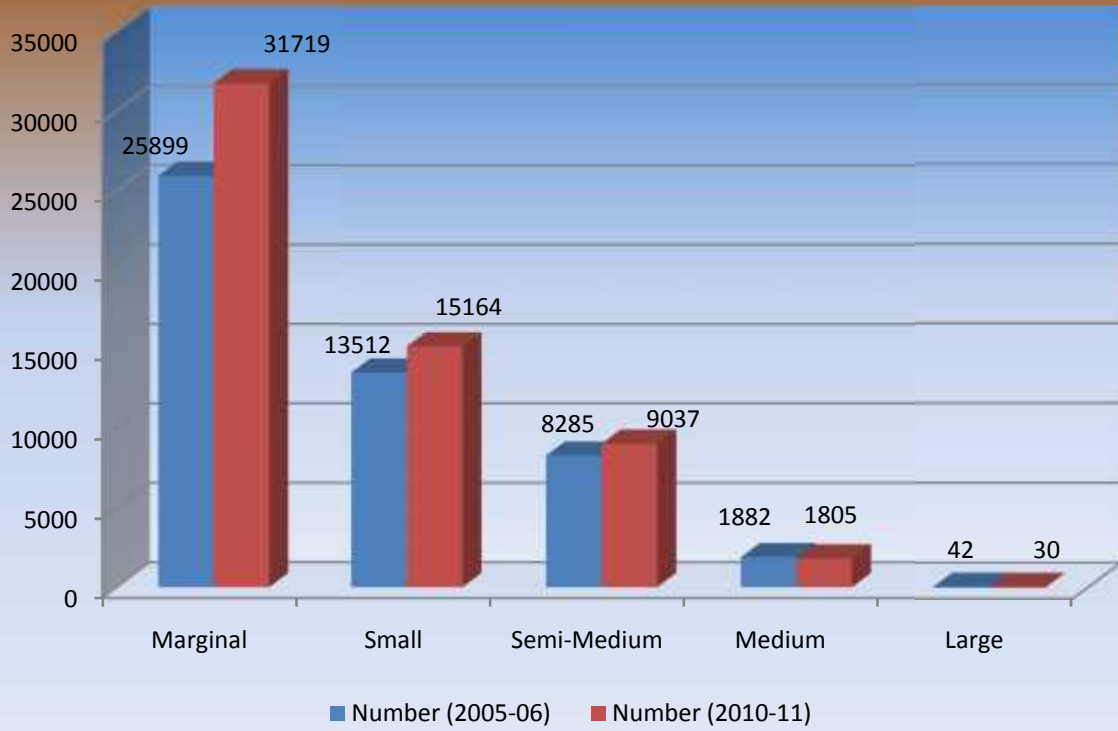
Table-7(vi)

Number of holdings and area (in hect.) operated by Females according to size class for All Social Group.

Size group	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06	
	Number	Area	Number	Area	Number	Area
1	2	3	4	5	6	7
Marginal	25899	12968	31719	15167	(+) 22.47	(+) 16.96
Small	13512	19050	15164	21737	(+) 12.23	(+) 14.10
Semi-Medium	8285	22632	9037	24560	(+) 9.08	(+) 8.51
Medium	1882	9616	1805	9366	(-) 4.24	(-) 2.60
Large	42	521	30	490	(-) 28.57	(-) 5.95
All	49619	64786	57755	71320	(+) 16.40	(+) 10.09

It is observed from the above table that there is an increasing trend in the number of holdings and area operated by the Female holders in all size classes except in the Medium and large group. The number of holding decreased by 4.24 and 28.57 percent. Medium and large group respectively and 5.95, 10.90 in the area operated over 2005-06 Agriculture Census. The all size group of both number of holding and area operated by females goes up to 16.40 holding 10.09 percent area operated over 2005-06 Agriculture Census.

Number of holdings operated by Females according to size class for all Social Group



Area operated by Females according to size class for All Social Group (in hectares)

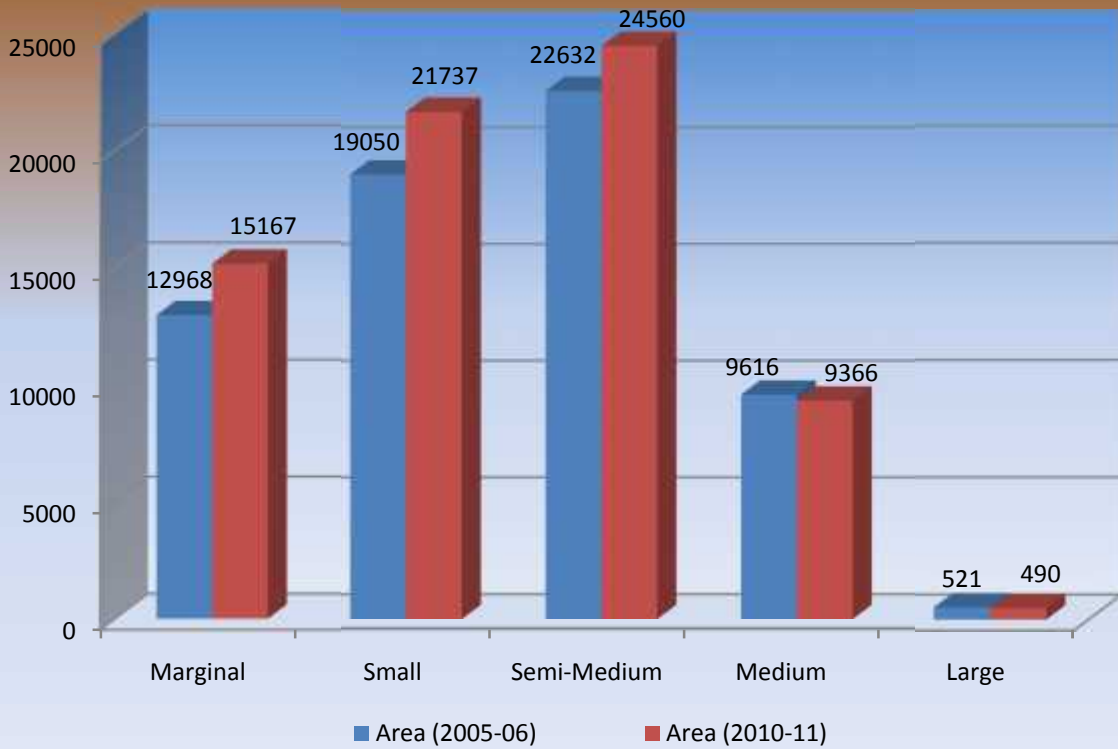


Table-8(i)**Comparison of number of holdings operated by scheduled caste communities in Agriculture Census 2010-11 over 2005-06.**

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	No. of holdings	Percentage concentration to total	No. of holdings	% Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	102092	60.46	89182	63.12	(-)12.65
Small	45178	26.76	29753	21.06	(-) 34.14
Semi-Medium	18017	10.67	17646	12.49	(-) 2.06
Medium	3481	2.06	4626	3.28	(+) 32.89
Large	87	0.05	72	0.05	(-) 17.24
All	168855	100.00	141279	100.00	(-) 16.33

There is a decreasing trend in all groups operated by the scheduled caste communities. Except Medium size group of holding i.e 32.89 percent over 2005-06 Agriculture Census.

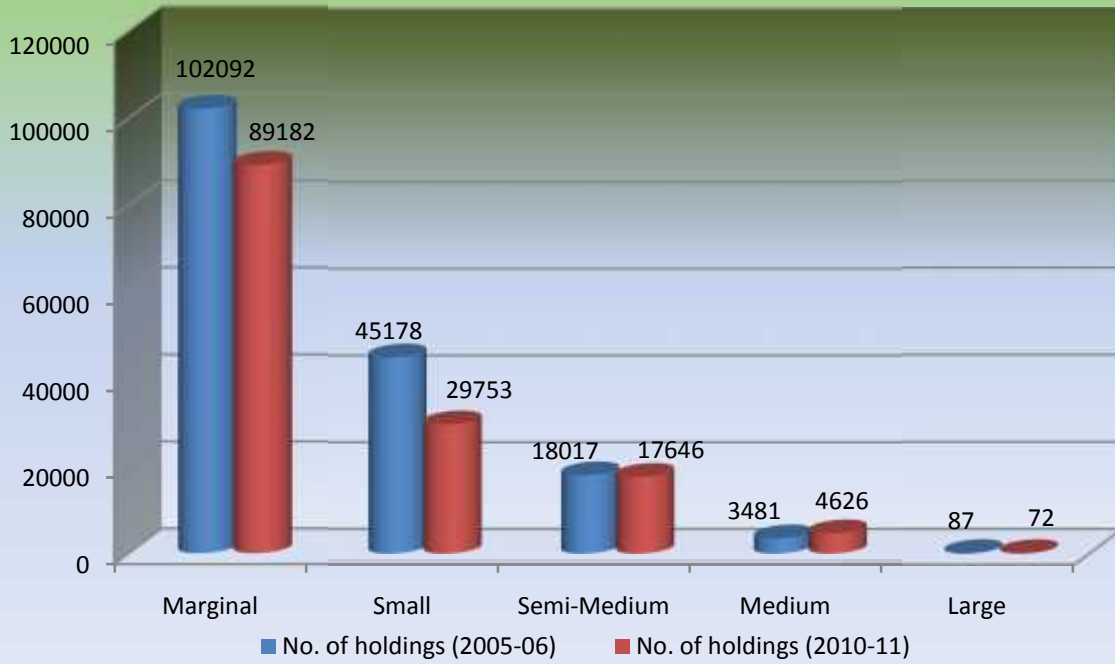
In the other size group it decreased by (-) 12.65,(-)34.14, (-) 2.06 and (-) 17.24 in the Marginal, small, Semi-Medium and Large size respectively. There is a decreasing of (-) 16.33 percent in all size groups over Agriculture Census 2005-06.

Table-8(ii)**Comparison of area(in hect.) operated by scheduled caste communities in Agriculture Census 2010-11 over 2005-06.**

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	Area	Percentage concentration to total	Area	Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	46963	28.19	37815	24.96	(-) 19.48
Small	53057	31.85	40691	26.86	(-) 23.30
Semi-Medium	47506	28.50	48127	31.77	(+) 1.30
Medium	17852	10.72	23896	15.78	(+) 33.86
Large	1227	0.74	959	0.63	(-) 21.92
All	166606	100.00	151488	100.00	(-) 9.07

In the area operated by the Schedule caste categories only increase in semi Medium and Medium size group (+) 1.30 and 33.86 percent over 2005-06 Agriculture Census. The Marginal, Small and Large size group decreasing by (-) 19.48, (-) 23.30 and 21.92 percent respectively over 2005-06 Agriculture Census. The total decline (-) 9.07 percent over 2005-06 Agriculture Census in Schedule caste categories.

Comparison of number of holdings operated by scheduled caste communities in Agriculture Census 2010-11 over 2005-06



Comparison of area (in hectares) operated by scheduled caste communities in Agriculture Census 2010-11 over 2005-06



Table-8(iii)

**Comparison of Average size of holdings (Scheduled caste) in
Agricultural Census 2010-11 over 2005-06.**

Size groups	Average size of holdings (in hect.)		Percentage variation of average size of holdings over 2001-11
	2005-06	2010-11	
1	2	3	4
Marginal	0.46	0.42	(-) 8.69
Small	1.17	1.37	(+) 17.09
Semi Medium	2.64	2.73	(+) 3.41
Medium	5.13	5.17	(+) 0.78
Large	14.10	13.31	(-) 5.60
All	0.98	1.07	(+) 9.18

Average size of holdings of the Scheduled caste categories shows an increasing trend in Small, Semi-Medium and Medium group which is 17.09 percent Small group, 3.41 percent in Semi- Medium and 0.78 percent in Medium group over 2005-06. The marginal and large group decreasing of (-) 8.69 and (-) 5.60 percent over 2005-06. The overall size group (+) 9.18 increased over 2005-06 Agriculture Census.

Table-9(i)

**Comparison of number of holdings operated by scheduled Tribes
communities in Agriculture Census 2010-11 over 2005-06.**

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	No. of holdings	Percentage concentration to total	No. of holdings	Percentage concentration to total	
1	2	3	4	5	6
Marginal	250227	57.14	259684	59.27	(+) 3.78
Small	118821	27.13	97685	22.29	(-) 17.79
Semi-Medium	53227	12.16	63211	14.43	(+) 18.75
Medium	15245	3.48	17197	3.92	(+) 12.80
Large	392	0.09	383	0.09	(-) 2.30
All	437912	100.00	438160	100.00	(+) 0.06

The number of holdings operated by scheduled tribes communities increased in Marginal, Semi Medium and Medium group as (+) 3.78, (+) 18.75 and (+) 12.80 percent prior 2005-06 Agriculture Census and declining (-) 17.79 by Small and (-) 2.30 percent in large size group of holding. The number of holdings in all size group increased by slightly 0.06 percent over Agriculture Census 2005-06.

The Marginal group of holdings has the highest concentration of 59.27 percent to the total numbers of holdings and the Large group has the lowest concentration of 0.09 percent to total holdings.

Table-9(ii)

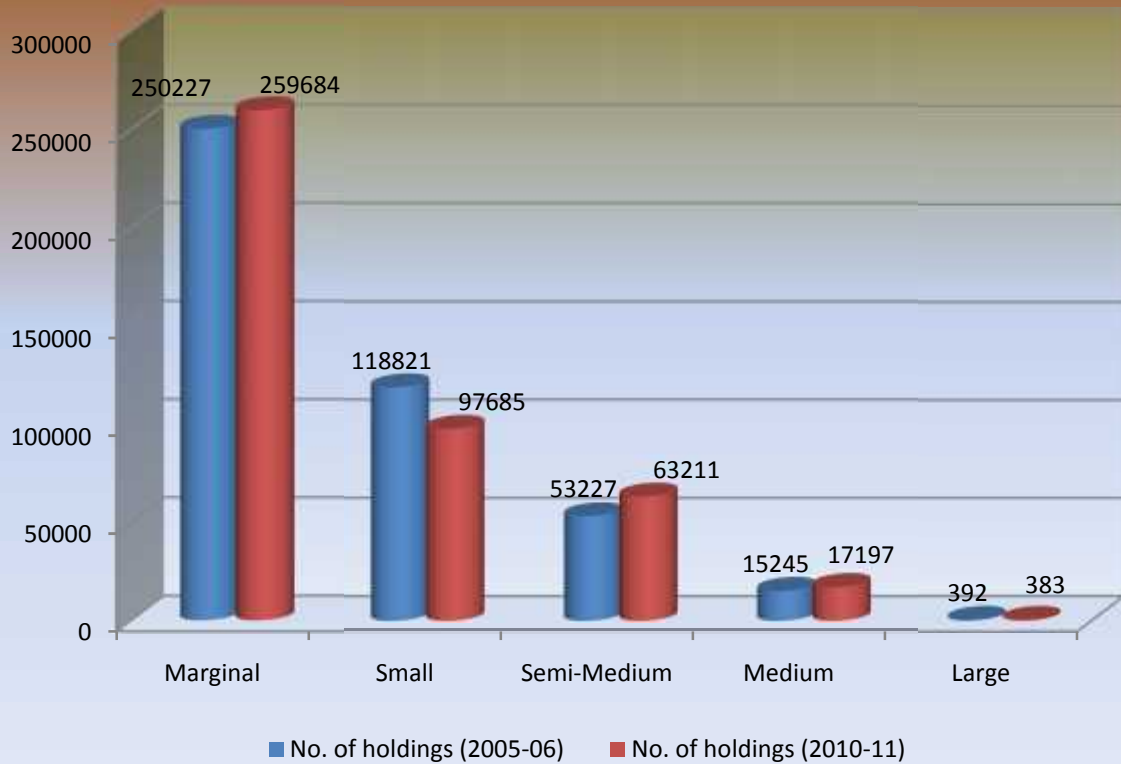
Comparison of area(in hect.) operated by the scheduled tribes communities in Agriculture Census 2010-11 over 2005-06.

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	Area	Percentage concentration to total	Area	Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	116949	23.87	115843	22.42	(-) 0.95
Small	145804	29.75	135587	26.25	(-) 7.00
Semi-Medium	142587	29.10	171337	33.17	(+) 20.16
Medium	79055	16.13	87957	17.03	(+) 11.26
Large	5655	1.15	5873	1.13	(+) 3.84
All	490051	100.00	516597	100.00	(+) 5.42

The area operated by the scheduled tribes communities in Agriculture Census 2010-2011 is decreased by 0.95 percent in Marginal group and 7.00 percent in Small group over 2005-06 Census. The other size shows increasing trend Semi-Medium, Medium and large as (+) 20.16, (+) 11.26 and (+) 3.84 percent over 2005-06 Agriculture census. The over all size group increased by 5.42 percent over 2005-06 Agriculture Census.

The concentration of Area is the highest in the Semi-Medium and lowest in the Large group by 33.17 and 1.13 percent respectively to the total area operated in Agriculture Census 2010-11.

Comparison of number of holdings operated by scheduled tribes communities in Agriculture Census 2010-11 over 2005-06



Comparison of area (in hectares) operated by the scheduled tribes communities in Agriculture Census 2010-11 over 2005-06



Table-9(iii)**Average size of holdings (Scheduled Tribes)**

Size groups	Average size of holdings (in hect.)		Percentage variation of average size of holdings over 2005-06
	2005-06	2010-11	
1	2	3	4
Marginal	0.47	0.45	(-) 4.26
Small	1.23	1.39	(+) 13.00
Semi Medium	2.68	2.71	(+) 1.12
Medium	5.19	5.11	(-) 1.54
Large	14.43	15.33	(+) 6.24
All	1.12	1.18	(+) 5.36

The average size of holdings operated by the Scheduled Tribes communities is increasing trend in Small , Semi-Medium and large by 13.00, 1.12 and 6.24 percent over 2005-06. The Marginal and Medium size group decreased by (-) 4.26 and (-) 1.54 percent over 2005-06 Agriculture Census. Average area in all size class increased by 5.36 percent over Agriculture census 2005-06 census.

Table-10(i)**Comparison of number of holdings operated by the General Categories other than SC and ST under each size group in Agriculture Census 2010-11 over 2005-06.**

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	No. of holdings	Percentage concentration to total	No. of holdings	Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	1399622	65.44	1481015	69.34	(+) 5.82
Small	427121	19.97	368698	17.26	(-) 13.67
Semi-Medium	246287	11.52	222284	10.41	(-) 9.75
Medium	63819	2.98	62517	2.93	(-) 2.04
Large	1895	0.09	1222	0.06	(-) 35.51
All	2138814	100.00	2135736	100.00	(-) 0.14

In Agriculture Census 2010-11, the holdings operated by the General Categories in the Marginal group has the highest concentration of 69.34 percent holdings over the total holdings. The Large holders has the lowest concentration of 0.06 percent.

The number of holdings operated by the General categories the Marginal group of holdings only increasing trend but other group shows the decline trend over 2005-06. The Marginal

group increased by (+) 5.82 percent over 2005-06 Agriculture Census. The other size group Small, Semi-medium, Medium and Large group decreased by (-) 13.67, (-) 9.75, (-) 2.04 and 2.04 respectively over 2005-6 Agriculture Census. All size group holdings decreased by (-) 0.14 percent over 2005-06.

Table-10(ii)

Comparison of area operated by the other communities in Agriculture Census 2010-11 over 2005-06.

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	Area operated	Percentage concentration to total	Area operated	Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	595856	28.00	620647	29.96	(+) 4.16
Small	519079	24.40	510240	24.63	(-) 1.70
Semi-Medium	654945	30.78	597424	28.84	(-) 8.78
Medium	325842	15.31	322060	15.54	(-) 1.16
Large	32064	1.51	21296	1.03	(-) 33.58
All	2127793	100.00	2071667	100.00	(-) 2.64

Area under Marginal group shows an increasing trend of (+) 4.16 percent over Agriculture Census 2005-06 and the Area under other all categories shows a decreasing trend. The Large categories holdings show the highest decline of area which is (-) 33.58 percent. Area under all size groups decreased by (-) 2.64 percent over 2005-06 census.

Table-10(iii)

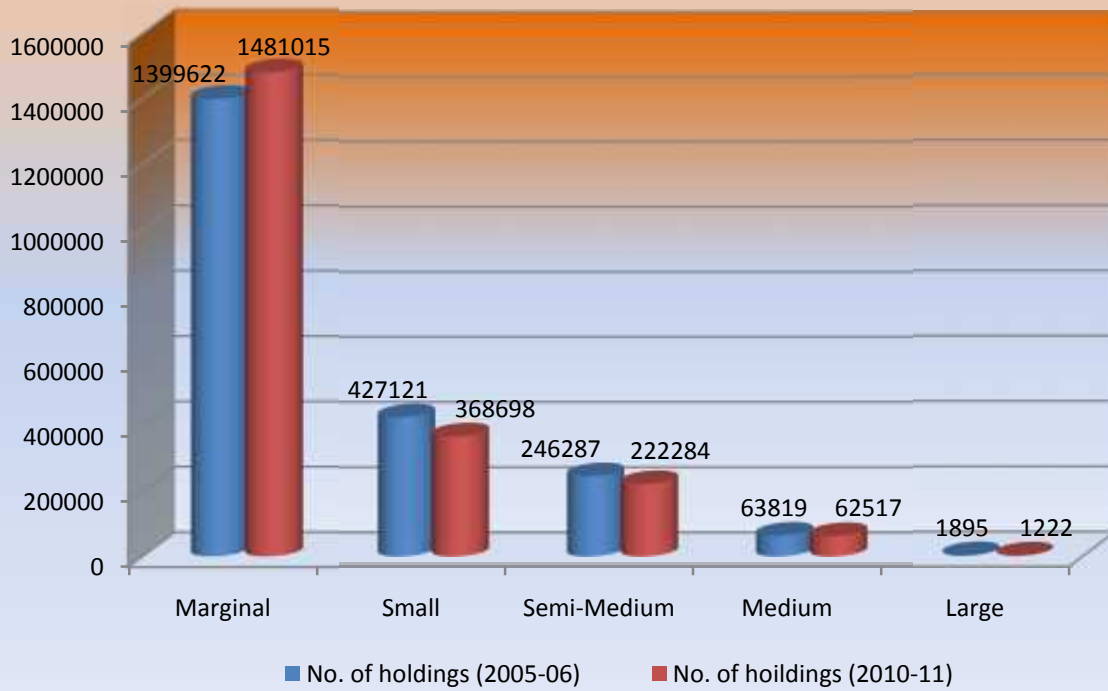
Average size of holdings of other categories in Agriculture Census 2010-11 over 2005-06.

Size groups	Average size of holdings (in hect.)		Percentage variation of average size of holdings over 2005-06
	2005-06	2010-11	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>
Marginal	0.43	0.42	(-) 2.33
Small	1.22	1.38	(+) 13.11
Semi Medium	2.66	2.69	(+) 1.13
Medium	5.11	5.15	(+) 0.78
Large	16.92	17.43	(+) 3.01
All	0.99	0.97	(-) 2.02

From the above table it reveals that the average size of holdings under the only Marginal size group shows decreasing trend by (-) 2.33 percent over Agriculture census 2005-06.

The average size of holdings under the other categories has recorded a increasing trend. The Small, Semi-Medium, Medium and large group of holdings increased by (+) 13.11, (+) 1.13, (+) 0.78, and (+) 3.01 percent over 2005-06 Agriculture Census. Average size for all categories decreased by (-) 2.02 percent over the Agriculture Census 2000-01.

Comparison of number of holdings operated by the other communities in Agriculture Census 2010-11 over 2005-06



Comparison of area (in hectares) operated by the other communities in Agriculture Census 2010-11 over 2005-06

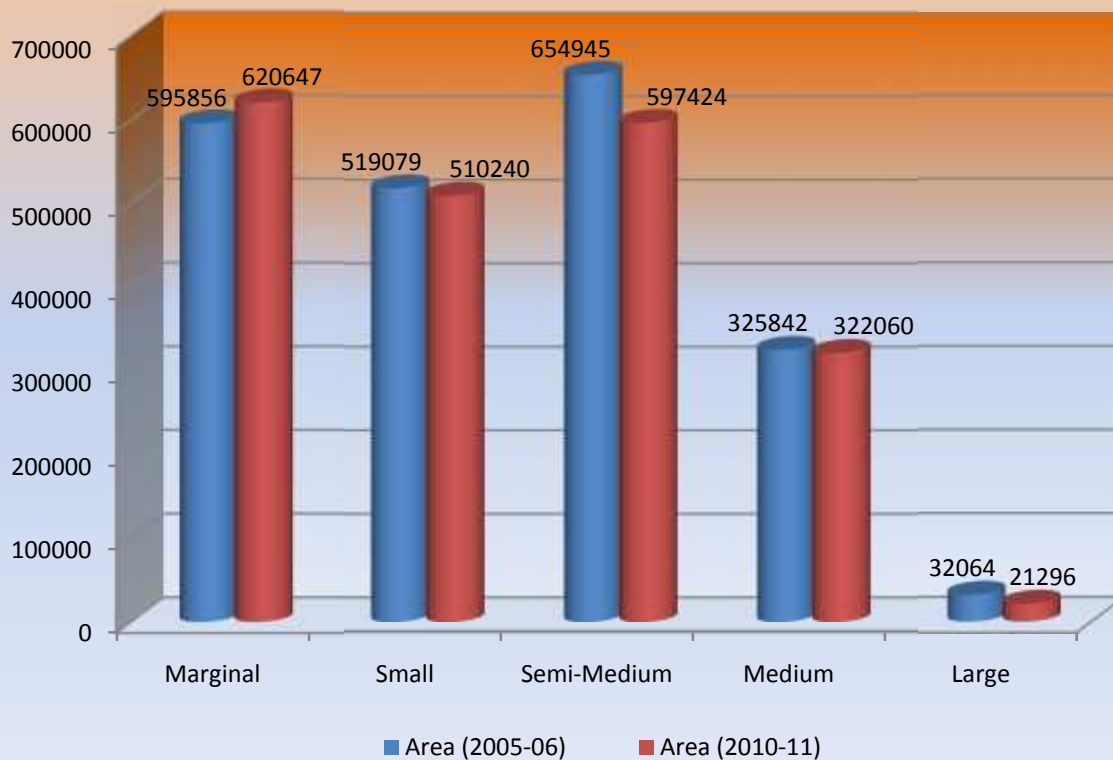


Table-11(i)

Comparison of number of holdings operated by the Institutions during 2010-11 over 2005-06 under each size group.

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	No. of holdings	Percentage concentration to total	No. of holdings	Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	978	21.58	1234	24.44	(+) 26.17
Small	311	6.86	438	8.68	(+) 40.84
Semi-Medium	388	7.24	387	7.67	(+) 17.98
Medium	385	8.59	529	10.48	(+) 36.34
Large	2528	55.77	2460	48.73	(-) 2.69
All	4533	100.00	5048	100.00	(+) 11.36

The number of holdings operated under Institution, which is constituted mainly the Tea garden in the state, is highly concentrated in the Large groups of holdings which is 48.73

percent. The number of holdings under all size groups from Marginal to Large holdings recorded a sharp increasing trend in Agriculture census 2010-11 over 2005-06 census. The Small holding highest increased (+) 40.84 percent and medium group of holding followed by (+) 36.34 percent and Semi-Medium followed (+) 17.98 percent over 2005-06 Census. The Large group declining slightly (-) 2.69 percent over 2005-06 Agriculture Census. All size group of holding increased by (+) 11.36 percent over 2005-06 Agriculture Census.

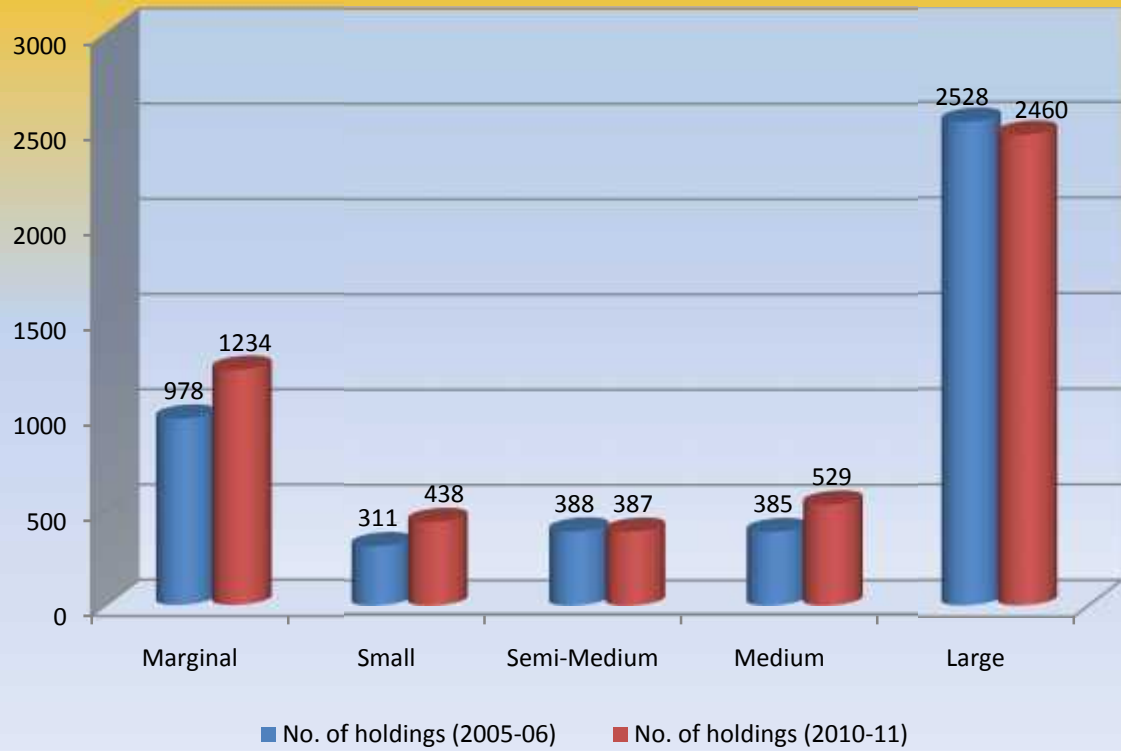
Table-11(ii)

Comparison of area (in hectares) operated by Institutions during Agriculture Census 2010-11 over 2005-06 under all size group (Area in hect).

Size groups	2005-06		2010-11		Percentage variation of 2010-11 over 2005-06
	Area	Percentage concentration to total	Area	Percentage concentration to total	
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>
Marginal	376	0.14	491	0.19	(+) 30.58
Small	443	0.17	638	0.25	(+) 44.01
Semi-Medium	967	0.37	1095	0.42	(+) 13.24
Medium	2647	1.00	3458	1.33	(+) 30.64
Large	259660	98.32	253636	97.81	(-) 2.32
All	264094	100.00	259318	100.00	(-) 1.81

The concentration of operated area under the Institutional holdings is highest in the Large group with 97.81 percent to total. The area cultivated under the Institutional holdings recorded a visible variation. The highest percent of variation is observed in the Small group, which is (+) 44.01 percent over 2005-06. The large group of institution a few decline operated area (-) 2.32 percent over 2005-06 Agriculture Census. The other groups shows increasing trend against the Agriculture Census 2005-06.

Comparison of number of holdings operated by the Institutions during Agriculture Census 2010-11 over 205-06 under each size group



Comparison of area (in hectares) operated by Institutions during Agriculture Census 2010-11 over 2005-06 under each size group

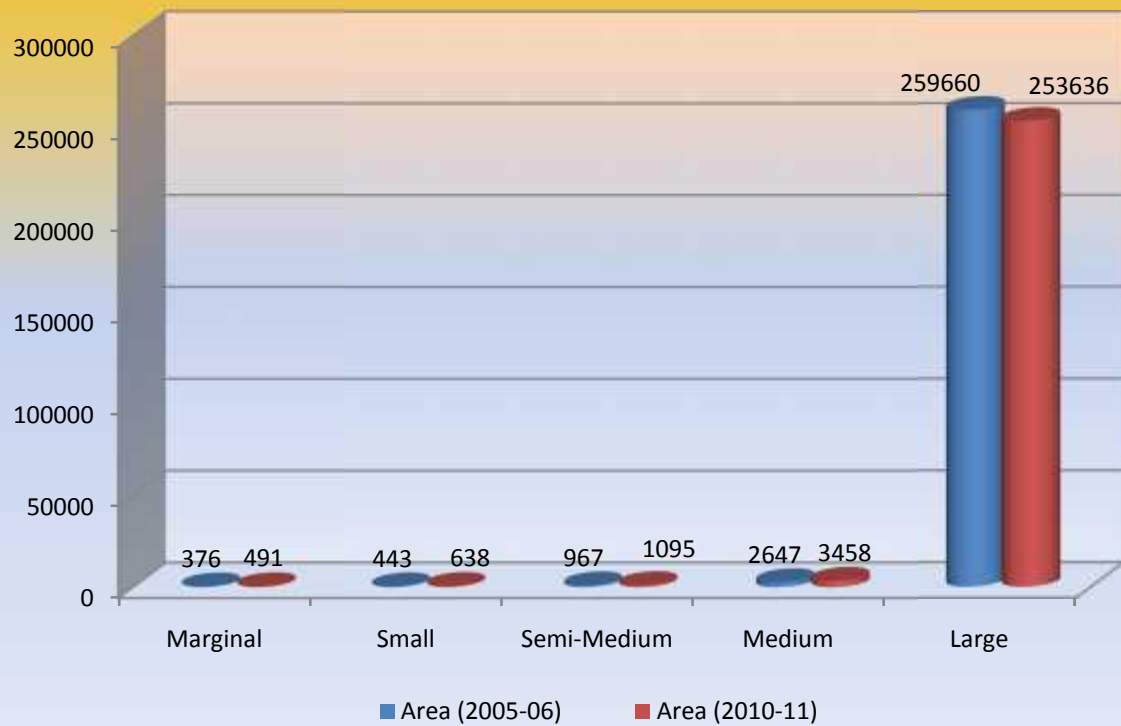


Table-11(iii)

Comparison of Average size of holdings operated by the Institutions during 2010-11 over 2005-06 (area in hect).

Size groups	Average size of holdings		Percentage variation of average size of holdings over 2005-06
	2005-06	2010-11	
1	2	3	4
Marginal	0.38	0.39	(+) 2.63
Small	1.42	1.46	(+) 2.82
Semi Medium	2.95	2.83	(-) 4.06
Medium	6.82	6.53	(-) 4.25
Large	102.71	103.10	(+) 0.38
All	58.26	51.37	(-) 11.83

The average size of holdings Marginal, Small and Large size group of holding shows the increasing trends as (+) 2.63, (+) 2.82 and (+) 0.38 percent over 2005-06 Agriculture Census. The Semi-medium and Medium size of holding Come down (-) 4.06 and (-) 4.25 percent prior 2005-06 Agriculture Census. The overall size of holding decreased by (-) 11.83 percent over 2005-06 Agriculture Census.

Table I

**Operational Holdings and Area operated by All Social Groups in 2000-01 and 2005-06 in Assam
(Holding in number, area in hectre)**

Category of Size class	Number		Percentage variation in 2010-11 over 2005-06	Area (Hect.)		Percentage variation in 2010-11 over 2005-06	Average Size (Hect.)	
	2005-06	2010-11		2005-06	2010-11		2005-06	2010-11
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>	<i>8</i>	<i>9</i>
Below 0.50	1152398	1279535	9.94	353052.00	385255.42	8.36	0.31	0.30
0.50-1.00	600591	551580	-8.89	407093.00	389541.03	-4.51	0.68	0.71
Marginal	1752989	1831115	4.27	760145.00	774796.45	1.89	0.43	0.42
1.0-2.0	591431	496574	-19.10	718383.00	687156.19	-4.54	1.21	1.38
Small	591431	496574	-19.10	718383.00	687156.19	-4.54	1.21	1.38
2.0-3.0	213427	203596	-4.83	496983.00	480948.66	-3.33	2.33	2.36
3.0-4.0	104432	99932	-4.50	349023.00	337033.83	-3.56	3.34	3.37
Semi-medium	317859	303528	-4.72	846006.00	817982.49	-3.43	2.66	2.69
4.0-5.0	47117	48949	3.74	203933.00	214768.17	5.05	4.33	4.39
5.0-7.5	30482	31280	2.55	177267.00	184189.82	3.76	5.82	5.89
7.5-10.0	5334	4640	-14.96	44203.00	38414.24	-15.07	8.29	8.28
Medium	82933	84869	2.28	425403.00	437372.23	2.74	5.13	5.15
10.0-20.0	2607	1831	-42.38	34251.00	24567.50	-39.42	13.14	13.42
20.0 & above	2295	2276	-0.83	264355.00	257195.09	-2.78	115.19	113.00
Large	4902	4137	-18.49	298606.00	281762.59	-5.98	60.92	68.11
All	2750114	2720223	-1.10	3048542.88	2999069.95	-1.65	1.11	1.10

Table 2

Annexure-II

District wise Number and Area of operational holdings (in hectares) and average size of holdings for all Social Groups (2010-11)

District	Individual holding		Average size of Individual holding	Joint holdings		Average size of Joint holding	Instl. holdings		Average size of Institutional holding	Total holdings		Average size of Total holding
	Number	Area		Number	Area		Number	Area		Number	Area	
1	2	3	4	5	6	7	8	9	10	11	12	13
Kamrup	183289	177405.25	0.97	0	0	0.00	345	1238.05	3.59	183634	178643.30	0.97
Nalbari	66497	70102.71	1.05	8	50.34	6.29	50	36.83	0.74	66555	70189.88	1.05
Barpeta	126366	159287.69	1.26	632	2114.41	3.35	95	599.43	6.31	127093	162001.53	1.27
Bongaigaon	77854	56676.30	0.73	1099	854.22	0.78	4	30.49	7.62	78957	57561.01	0.73
Kokrajhar	124619	87016.53	0.70	6	25.08	4.18	25	1400.15	56.01	124650	88441.76	0.71
Goalpara	90769	78722.93	0.87	1150	2749.52	2.39	28	437.02	15.61	91947	81909.47	0.89
Dhubri	127879	117309.70	0.92	874	1810.11	2.07	10	1031.01	103.10	128763	120150.82	0.93
Cachar	97369	88288.66	0.91	1746	5409.24	3.10	246	12952.41	52.65	99361	106650.31	1.07
Hailakandi	67371	61706.30	0.92	2	14.19	7.10	23	12144.70	528.03	67396	73865.19	1.10
Karimganj	49392	62562.09	1.27	603	2128.94	3.53	195	17112.82	87.76	50190	81803.85	1.63
Dibrugarh	108300	117506.30	1.09	351	1102.04	3.14	788	45433.95	57.66	109439	164042.29	1.50
Tinsukia	92629	124936.57	1.35	353	428.85	1.21	443	48116.39	108.61	93425	173481.81	1.86
Sivasagar	95757	113395.61	1.18	32	118.2	3.69	418	21685.64	51.88	96207	135199.45	1.41
Jorhat	109468	117297.55	1.07	751	2604.99	3.47	347	19487.51	56.16	110566	139390.05	1.26
Golaghat	110374	115694.64	1.05	59	368.02	6.24	273	24849.18	91.02	110706	140911.84	1.27
Nagaon	229126	226646.72	0.99	257	676.69	2.63	240	8261.31	34.42	229623	235584.72	1.03
Marigaon	99808	90751.40	0.91	128	297.91	2.33	207	868.13	4.19	100143	91917.44	0.92
Sonitpur	217240	211094.84	0.97	42	206.07	4.91	284	21208.49	74.68	217566	232509.40	1.07
Darrang	95412	75597.57	0.79	461	845.74	1.83	91	1380.59	15.17	95964	77823.91	0.81
Lakhimpur	93544	101404.03	1.08	0	0	0.00	206	3782.24	18.36	93750	105186.27	1.12
Dhemaji	90080	96322.89	1.07	0	0	0.00	12	175.74	14.65	90092	96498.63	1.07
N.C.Hills	17464	12034.62	0.69	0	0	0.00	30	57.19	1.91	17494	12091.81	0.69
K. Anglong	70445	80703.69	1.15	50	85.76	1.72	5	13.30	2.66	70500	80802.75	1.15
Kamrup(M)	26153	23532.70	0.90	3907	8083.65	2.07	216	2463.93	11.41	30276	34080.28	1.13
Baska	89120	106594.60	1.20	45	141.01	3.13	366	2003.32	5.47	89531	108738.93	1.21
Chirang	44847	44257.86	0.99	0	0	0.00	0	0.00	0.00	44847	44257.86	0.99
Udalguri	101444	92782.03	0.91	3	4.96	1.65	101	124.24	1.23	101548	105335.39	1.04
Total	2702616	2709631.78	1.00	12559	30119.94	2.40	5048	246894.06	48.91	2720223	2999070	1.10

The total of the operated area may not tally due to rounding off.

Table 3

Annexure-III

District wise Number and Area of operational holdings and average size of holdings as per Social status for all size classes.

District	Operational holdings (SC)		Average size of holdings (SC)	Operational holdings (ST)		Average size of holdings (ST)	Operational holdings (Others)		Average size of holdings (Others)	Operational holdings (Institutional)		Average size of holdings (Institutional)
	Number	Area		Number	Area		Number	Area		Number	Area	
1	2	3	4	5	6	7	8	9	10	11	12	13
Kamrup	6928	8223.17	1.19	17781	22407.60	1.26	158580	146774.48	0.93	345	1238.05	3.59
Nalbari	2695	3815.26	1.42	2993	4710.77	1.57	60817	61627.02	1.01	50	36.83	0.74
Barpeta	5862	7043.64	1.20	3267	4055.54	1.24	117869	150302.92	1.28	95	599.43	6.31
Bongaigaon	9272	5590.13	0.60	2077	2178.71	1.05	67604	49761.68	0.74	4	30.49	7.62
Kokrajhar	1099	1258.37	1.15	48327	40763.92	0.84	75199	45019.32	0.60	25	1400.15	56.01
Goalpara	5227	3919.36	0.75	22439	26086.60	1.16	64253	51466.49	0.80	28	437.02	15.61
Dhubri	1491	1469.02	0.99	240	338.39	1.41	127022	117312.40	0.92	10	1031.01	103.10
Cachar	5312	8802.66	1.66	2231	3743.92	1.68	91572	81151.30	0.89	246	12952.41	52.65
Hailakandi	3958	4036.64	1.02	398	910.29	2.29	63017	56773.56	0.90	23	12144.70	528.03
Karimganj	3537	7153.45	2.02	140	404.27	2.89	46318	57133.31	1.23	195	17112.82	87.76
Dibrugarh	2346	2925.94	1.25	13270	18950.37	1.43	93035	96732.03	1.04	788	45433.95	57.66
Tinsukia	998	1044.56	1.05	6505	13906.05	2.14	85479	110414.81	1.29	443	48116.39	108.61
Sivasagar	1783	2093.75	1.17	3636	4351.69	1.20	90370	107068.37	1.18	418	21685.64	51.88
Jorhat	5613	5561.43	0.99	10073	14604.82	1.45	94533	99736.29	1.06	347	19487.51	56.16
Golaghat	4665	7530.62	1.61	5762	9662.28	1.68	100006	98869.76	0.99	273	24849.18	91.02
Nagaon	23137	22989.06	0.99	13943	21287.77	1.53	192303	183046.58	0.95	240	8261.31	34.42
Marigaon	11001	14090.31	1.28	15181	23301.14	1.53	73754	53657.86	0.73	207	868.13	4.19
Sonitpur	11828	11374.13	0.96	11671	18586.39	1.59	193783	181340.39	0.94	284	21208.49	74.68
Darrang	9503	4699.08	0.49	972	1140.05	1.17	85398	70604.19	0.83	91	1380.59	15.17
Lakhimpur	6571	6770.29	1.03	16245	31040.32	1.91	70728	63593.42	0.90	206	3782.24	18.36
Dhemaji	5179	4817.84	0.93	37162	43662.76	1.17	47739	47842.29	1.00	12	175.74	14.65
N.C.Hills	10	3.30	0.33	16774	11678.27	0.70	680	353.05	0.52	30	57.19	1.91
K. Anglong	2649	2782.52	1.05	56581	67679.49	1.20	11265	10327.44	0.92	5	13.30	2.66
Kamrup(M)	1281	1938.68	1.51	12277	12685.66	1.03	16502	16992.01	1.03	216	2463.93	11.41
Baska	4908	6616.37	1.35	46479	55240.97	1.19	37778	44878.27	1.19	366	2003.32	5.47
Chirang	2145	2298.03	1.07	24796	23969.49	0.97	17906	17990.34	1.00	0	0.00	0.00
Udalguri	2281	2640.11	1.16	46940	39249.04	0.84	52226	50897.84	0.97	101	12548.40	124.24
Total	141279	151487.72	1.07	438160	516596.57	1.18	2135736	2071667.42	0.97	5048	259318.22	51.37

Table-4

Annexure-IV

District wise Number and Area of operational holdings as per size classes for All Social Groups.

District	Marginal holdings (0.50-1.00)		Small holdings (1.00-2.00)		Semi-Medium holdings (2.00-4.00)		Medium holdings (4.00-10.00)		Large holdings (10.00 & above)		All sizes	
	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area	Number	Area
1	2	3	4	5	6	7	8	9	10	11	12	13
Kamrup	127388	60056.97	31695	43079.6	20754	55723.8	3768	18577.1	29	1205.83	183634	178643.3
Nalbari	46874	19218.72	7982	9505.62	7744	21329.27	3893	19369.23	62	767.04	66555	70189.88
Barpeta	72558	37896.29	29507	43105.62	20359	56963.71	4620	23109.06	49	926.85	127093	162001.53
Bongaigaon	59451	20239.82	14050	20406.11	4461	11457.28	983	5232.31	12	225.49	78957	57561.01
Kokrajhar	100648	33235.86	12766	17918.76	8747	23254.67	2466	12335.4	23	1697.07	124650	88441.76
Goalpara	61100	22822.07	19966	26010.76	9110	23354.04	1752	8945.17	19	777.43	91947	81909.47
Dhubri	87553	34114.7	24995	34346.58	13151	35140.64	3039	15324.82	25	1224.08	128763	120150.82
Cachar	67766	23806.2	16923	22789	11367	30563.9	3078	16125.53	227	13365.68	99361	106650.31
Hailakandi	42977	18168.85	16834	23410.61	7290	18605.79	269	1405.13	26	12274.81	67396	73865.19
Karimganj	29980	14268.39	9353	12629.28	7808	21859.46	2861	14992.18	188	18054.54	50190	81803.85
Dibrugarh	66081	25583.3	23685	34229.53	15977	42789.39	3185	16203.66	511	45236.41	109439	164042.29
Tinsukia	54707	27974.42	20551	29633.06	12719	36089.55	4764	26923.13	684	52861.65	93425	173481.81
Sivasagar	53728	26632.05	24086	32083.62	15400	41187.39	2705	13756.1	288	21540.29	96207	135199.45
Jorhat	69681	34751.63	23884	32385.74	14072	36688.91	2635	13530	294	22033.77	110566	139390.05
Golaghat	77268	26837.49	13789	19685.69	13886	37943.15	5331	28273.96	432	28171.55	110706	140911.84
Nagaon	162521	68477.38	33441	49268.66	24650	64896.47	8858	44313.18	153	8629.03	229623	235584.72
Marigaon	68711	25484.17	19086	27416.43	9925	26113.49	2383	11937.44	38	965.91	100143	91917.44
Sonitpur	161049	67132.06	25902	36012.79	21300	59949.35	9002	46941.29	313	22473.91	217566	232509.4
Darrang	72698	31514.86	14460	17733.08	6747	16901.02	1986	9901.49	73	1773.46	95964	77823.91
Lakhimpur	59959	24070.83	19556	27611.74	9913	26822.33	4165	21638.41	157	5042.96	93750	105186.27
Dhemaji	55470	26921.91	23309	34220.17	9486	25418.23	1771	9065.78	56	872.54	90092	96498.63
N.C.Hills	13153	6628.83	3897	5124.36	144	338.62	0	0	0	0	17494	12091.81
K. Anglong	37783	19836.86	21652	29208.88	9928	25766.17	1103	5591.54	34	399.3	70500	80802.75
Kamrup(M)	18893	7773.67	7228	9226.35	3065	8285.47	967	5224.79	123	3570	30276	34080.28
Baska	58528	28716.11	13913	19626.79	12305	34475.01	4698	24110.94	87	1810.08	89531	108738.93
Chirang	32188	17511.24	7538	10063.43	4145	11225.62	970	5368.73	6	88.84	44847	44257.86
Udalguri	72102	25121.77	16526	20423.93	9075	24839.76	3617	19175.86	228	15774.07	101548	105335.39
Total	1830815	774796.45	496574	687156.19	303528	817982.49	84869	437372.23	4137	281762.59	2720223	2999070

Table-5

**Comparison of District -wise operated area and Number of holdings and percentage variation of
Agriculture Census 2005-06 over Agriculture Census 2000-01
(Area in Hect. & Holding in Number)**

Name of District	Area Operated		Percentage variation over 2005-06	Number of holdings		Percentage variation over 2005-06
	2005-06	2010-11		2005-06	2010-11	
1	2	3	4	5	6	7
Kamrup(R)	178536	178643.30	0.06	194423	183634	-5.88
Nalbari	70150	70189.88	0.06	62232	66555	6.50
Barpeta	163160	162001.53	-0.72	142572	127093	-12.18
Bongaigaon	56625	57561.01	1.63	56410	78957	28.56
Kokrajhar	86157	88441.76	2.58	87382	124650	29.90
Goalpara	90494	81909.47	-10.48	88689	91947	3.54
Dhubri	135503	120150.82	-12.78	128865	128763	-0.08
Cachar	119285	106650.31	-11.85	103258	99361	-3.92
Hailakandi	83311	73865.19	-12.79	78189	67396	-16.01
Karimganj	87514	81803.85	-6.98	61840	50190	-23.21
Dibrugarh	161121	164042.29	1.78	93605	109439	14.47
Tinsukia	175253	173481.81	-1.02	101357	93425	-8.49
Sivasagar	137517	135199.45	-1.71	113440	96207	-17.91
Jorhat	140434	139390.05	-0.75	120543	110566	-9.02
Golaghat	144174	140911.84	-2.32	133700	110706	-20.77
Nagaon	225864	235584.72	4.13	211346	229623	7.96
Marigaon	92012	91917.44	-0.10	107296	100143	-7.14
Sonitpur	242869	232509.40	-4.46	248257	217566	-14.11
Darrang	75257	77823.91	3.30	77092	95964	19.67
Lakhimpur	86009	105186.27	18.23	70281	93750	25.03
Dhemaji	102429	96498.63	-6.15	99238	90092	-10.15
N.C.Hills	11100	12091.81	8.20	11259	17494	35.64
K. Anglong	87229	80802.75	-7.95	77838	70500	-10.41
Kamrup(M)	35358	34080.28	-3.75	42396	30276	-40.03
Baska	92727	108738.93	14.73	88574	89531	1.07
Chirang	47466	44257.86	-7.25	39986	44847	10.84
Udalguri	117986	105335.39	-12.01	110046	101548	-8.37
Total	3045540	2999069.95	-1.55	2750114	2720223	-1.10

*The percentage variation of 2005-06 over Agriculture Census 2000-01 can not be calculated for the newly created District along-with original parent Districts where from the newly created District was bifurcated.
