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GOVERNMENT OF KERALA

REPORT ON
THE AGRICULTURAL CENSUS
1980—81

DEPARTMENT OF ECONOMICS AND STATISTICS
TRIVANDRUM

GOVERNMENT OF KERALA

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REPORT ON AGRICULTURAL CENSUS

1980-81

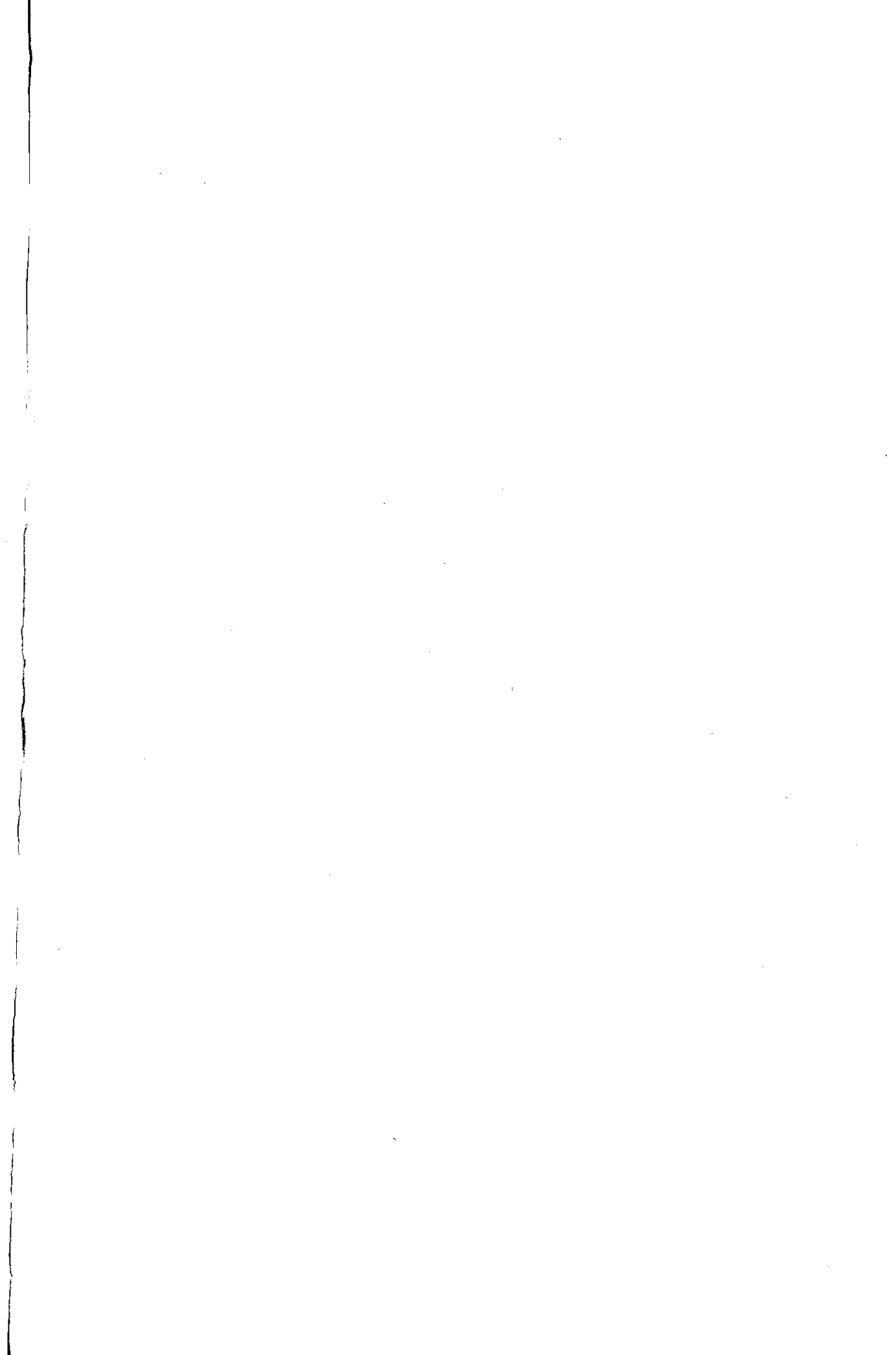
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DEPARTMENT OF ECONOMICS & STATISTICS

TRIVANDRUM

February 1988



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P R E F A C E

Kerala State participated in the third Agricultural Census 1980-81 along with other states. Agricultural census comprised of two parts viz. Main Census 1980-81 and Input Survey 1981-82.

The present report contains two volumes. First consists of the analysis of the results of the Main census on broad lines and the second one contains 1 to 6 tables of main census in respect of the various districts and state in 13 size classes under general category, scheduled caste and scheduled tribe.

The field work of the main census was done by the Village Assistants under the supervision of Revenue Inspectors, Tahsildars and other officials of the Revenue department and that of Input Survey by the staff of the Department of Economics and Statistics.

The tabulation work was done in the various districts by the staff of this department and the consolidation, analysis and preparation of the report by the headquarters staff.

I am very much thankful to the Agricultural Census division of the Ministry of Agriculture and Rural Development, Government of India for their valuable suggestions and advice on the draft report.

I place on record my sincere thanks to the officials of the Revenue staff and other officers who have rendered their valuable and whole hearted service for bringing out their publication.

In spite of the various limitations of the census data, I hope that this report would be found highly useful to planners and institutions associated with the studies on development in the agricultural field particularly in streamlining plan schemes evolved for the benefit of small and marginal farmers.

K. Balakrishnan Nair
DIRECTOR

Trivandrum,

1--2--1988.

Chapter 1

Introduction

The first comprehensive Agricultural Census in India was organised by the Ministry of Agriculture, Government of India with agricultural year 1970-71 as reference year. This was consequent on India's decision to participate in the third world agricultural census 1970-71 sponsored by FAO of the United Nations. Keeping in view of the usefulness of the data of the first census, it was decided to undertake agricultural census at more frequent intervals of time. As recommended by the National Commission on Agriculture and Planning Commission, a second Agricultural Census with the agricultural year 1976-77 as the reference year was carried out. The third agricultural census has been carried out with 1980-81 as the reference year.

Most of the States have a comprehensive system of collection and maintenance of agricultural statistics through the land records maintained by the revenue machinery. In states like Orissa, Bengal, Kerala where detailed land records are not maintained, sample surveys for collection of census data are being conducted.

The main object of agricultural census is to collect information on the structure and characteristics of the operational holdings particularly in respect of marginal and small holdings for drawing out any well thought out plan of development in this sector. This has become more important for assessing the impact of the various land reforms measures taken by the State from time to time and due to the implementation of the 20 point programme for upliftment of the weaker sections. This is for the first time in the history of agricultural census that information on various characteristics of operational holdings relating to scheduled caste and scheduled tribes have been collected separately. This would help for drawing social plans and programmes for this class of society.

Sampling design

Agricultural census comprised of two parts (1) Main Census 1980-81 and (2) Input Survey 1981-82. Under the main census, data were collected for the following characteristics according to 13 size classes, 1. Number and area of operational holdings 2. Tenancy 3. Land utilization 4. Crop-wise and source-wise irrigated area and 5. Cropping pattern.

For the 1980-81 census, taluk was considered as stratum 10% of the census villages/urban wards were selected from each stratum using simple random sampling method. In total 579 census villages and 144 urban wards were selected. From each selected unit 25% of the holdings in the categories 5-99 cents, 100-249 cents, 250-499 cents, 500-999 cents, 1000-2499 cents and all holdings having an area 2500 cents and above were enumerated for collecting details on main census. Holding of size less than 5 cents were omitted for detailed enquiry.

Reference period

The reference period was the agricultural year 1980-81.

Staff

Headquarters : A division consisting of the following officers

1. Joint Director - 1
2. Research Assistant - 2
3. Administrative Assistant - 1
4. Confidential Assistant - 1
5. L. D. Typist - 1
6. Peon - 1

was sanctioned as per G.O.Rt.275/81/Plg. dated 25-5-81. This was further strengthened with the following staff at headquarters: (i) Deputy Director-1; (ii) U.D.Compiler-2; (iii) Driver-1; (iv) Peon-1 as per G.O.Rt.19/82/Plg. dated 13-4-1982. For the tabulation of data relating to main census and input survey at the district level, sanction was accorded for the creation of the following staff viz. Research Officer-11, U.D.Compiler-10 and L.D. Compiler-31.

Field organisation

In the field Village Assistants did the enumeration work relating to main census under the supervision of Revenue Inspectors and Tahsildars. The technical guidance was given by the Statistical Inspectors and District Statistical Officers of this department.

Before the commencement of the 1980-81 census, intensive training was given to all personnel involved in the field work from village assistants to district level officers.

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Chapter 2

The State economy

Kerala is situated between north latitude $8^{\circ} 18'$ and $12^{\circ} 48'$ and east longitudes $74^{\circ} 52'$ and $77^{\circ} 22'$. It is bounded on the north by the Mysore State, on the east and south by the Tamilnadu and on the west by the Arabian Sea. The three distinct natural divisions have contributed basically to the growth of a number of agricultural crops, plantation crops like rubber, cardamom, tea and coffee in the highland area. The lowland region consists of paddy fields and coconut and arecanut plantations mainly. The midland consists of crops like paddy, coconut, pepper, ginger, sugarcane, tapioca etc.

Agricultural economy

Agriculture is the chief economic activity of the State. It accounts for about 45% of the states' income and 48% of the total employment. The nationwide inflationary pressures made their adverse impact on the economic situation of Kerala also. The average consumer price index numbers for industrial and agricultural workers rose by about 13.9% in 1981 against 13.6% during the previous year. In respect of wholesale prices of agricultural commodities the trends were in the opposite direction. The prices declined by 7.8 % as against an increase of 14% during the previous year. The situation proved unhealthy to the farmers because of the increase in farm cultivation cost, cost of inputs and price increase of consumer items. As a result the parity index declined by 3 points during 1981. Land reforms measures include abolition of intermediary interests on land, conferment of the tenure and ownership rights on tenants and distribution of surplus land amongst the poor. Up to the end of November 1981, a total number of 36.76 lakhs tenancy cases were filed for assignment of the rights of landlords. Of these 36.66 lakh cases were disposed off. The number of cases allowed was 24.78 lakhs till the end of December 1981. A total area of 21343 heactares of surplus land was distributed to beneficiaries numbering 84692. The beneficiaries include 34175 scheduled castes and 4972 scheduled tribes who shared 7681 hectares and 1654 hectares of land respectively. Out of 1.89 lakh hectares of purampoke land available till the end of October 1981, 1.69 lakhs hectares were distributed to 4.91 lakh beneficiaries.

Chapter 3

Coverage, methodology, concepts of the agricultural census 1980-81

Coverage

The agricultural census 1980-81 was conducted in all the 58 taluks in the State by the sample survey method. 10% of the census villages (rural) and 10% of the wards (urban) from each taluk were selected. The census was conducted in 579 census villages and 144 urban wards.

Methodology

The census was conducted as household enquiry. Selected operational holders were contacted and the necessary details were collected with the help of trained revenue staff. In each selected village a complete list of operational holders was prepared by visiting all the households and institutions. Separate listing was done in respect of operational holders and institutional holders, since tables containing detailed information were to be prepared separately. After listing, all individual households in the selected villages were categorised into following groups (1) less than 5 cents, (2) 5-99 cents, (3) 100-249 cents, (4) 250-499 cents, (5) 500-999 cents, (6) 1000-2499 cents, (7) 2500 cents and above. Holding with less than 5 cents were omitted for detailed enquiry 25% of the households from the categories 2 to 6 and all households in the last category (7th) possessing more than 10 hectares and above were selected for detailed enquiry. Regarding institutional holdings, detailed enquiry was done in all the units.

Organisation

The main responsibility for the organisation and conduct of the agricultural census was vested with Directorate of Economics and Statistics. For the conduct of the field work in the selected census villages/wards services of village assistants of the Revenue and Civil supplies departments have been utilised. The supervisory part of the main census was done by Revenue Inspectors and Tahsildars of the Revenue department. The District Statistical Officers and Taluk Statistical Inspectors have been associated with the conduct of work. The District Collectors functioned as Chief coordinating officers at the district level for the smooth conduct of the census. At the state level member (in-charge of land records) Board of Revenue, Kerala state was nominated as the Agricultural Census Commissioner as in the previous censuses (G.O.Rt.No.160/81/Plg. dated 13-3-1981) and the Director of Economics and Statistics as Ex-officio Director of Agricultural Census.

The staff appointed for the census including Village Assistants and Revenue Inspectors were given proper training at the various centres by the officers of the Department of Economics & Statistics before the commencement of the work. Instructions, concepts and definitions of the terms involved in the census and illustration with relevant schedules were prepared in Malayalam language and distributed to the enumerators and officers

in the field so that all personnel involved in the census especially village assistants can understand them correctly.

Before the commencement of the enumeration work, wide publicity was also given through the press and radio for dispelling the fear of the farmers so that they can furnish correct information to the enumerators. It was also made clear that individual information about operational holders would not be published.

For the accuracy of the data, periodical inspections have been conducted by the Statistical Inspectors, District Statistical Officers and other officers from the headquarters in addition to the inspection of officials of Revenue department.

Tabulation of data of both main census and input survey was done at the various district headquarters by the compilers of the department under the guidance of Research Officers and other senior officers of the department. Manual tabulation was adopted for the preparation of the various tables relating to agricultural census. The State level tables were finalised at the headquarters of the department at Trivandrum. The concept and definitions adopted for the conduct of the census with detailed explanation have been included in the instructions to the enumerators prepared in local language.

The original tables prepared were revised as per instructions of the officials of Government of India. Analysis of data has been made separately for scheduled caste/scheduled tribes and other categories.

Concepts and definitions

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 the others without regard to the title, legal form, size or location.

2. Technical unit

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. Agricultural production

Agricultural production includes growing of field crops, fruits, grapes, seeds, tree nurseries (except those of forest trees) bulbs, vegetables and flowers, production of coffee, tea, cocoa, rubber, jute, oil seeds, fodder grass etc. Grass would be treated as a crop if special efforts are made to raise it.

4. Operated area

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

It would also cover the land occupied by the farm buildings, including the house of the holder, provided such buildings are within the cultivated area. If the farm buildings are located outside the cultivated area and are covered under abadi area, such buildings would not be included.

Operated area would exclude government forest land, government waste land, village common grazing land, abadi area etc.

If the entire area of the holding is put to non agricultural use and/or it is under old fallow, it will not be considered as operated area.

The operated area may 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.

- i. Land held from Government or others under grant or lease or assignment with right of permanent heritable possession with or without right of transfer.
- ii. Land operated under perpetual lease.

Self operated land would include

- i) Self cultivation
- ii) Land cultivated through members of the family
- iii) Land cultivated with the help of hired labour.

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.

Ownership of the property is with the mortgager but the possession is with the mortgagee (ie. the person to whom the mortgage is made or given). Income from the property accrues to the Mortgagee and the mortgage is terminated as soon as the full amount is released.

V) **Other terms to be specified**

c) Area otherwise operated

This would include encroachment, land forcibly occupied, unauthorised

or land in dispute etc. which cannot be treated as owned or leased in as per the definitions given above.

5. Operational holder

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

a) Individual

If the holding is being operated either by one person alone or by group of persons who are the members of the same household, it will be considered as an individual holding.

b) Joint

If two or more persons belonging to different households share jointly as partners the economic and technical responsibility for the operation of an agricultural holding, such holding would be considered as Joint.

c) Institutional

Holdings such as government farms sugarcane factories, co-operative farms, land managed by trust would be treated as institutional.

Complete/part holding

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

Tehsil would be taken as the outer limit for consolidation of part holdings.

6. Land utilisation

Operated area would be classified into six broad categories:

- i. Net area sown
- ii. Current fallow
- iii. Fallow land other than current fallow
- iv. Other uncultivated land excluding fallow
- v. Culturable waste and
- 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 area which was kept fallow during the current year.

iii. Fallow other than current fallow

All lands which are taken up for cultivation but are temporarily out of cultivation for a period of not less than one year and not more than five years.

iv. Other uncultivated land excluding fallow

This will include

a) Permanent pastures and other grazing lands

All grazing lands whether they are permanent pastures and meadows or not. Village common grazing lands would, however, be excluded,

b) Land under misc. tree crops

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

v. Culturable waste

All lands available for cultivation, whether not taken up for cultivation or taken up for cultivating once by not cultivated during the current year and the 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 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 'Forests' under any legal enactment dealing with forests or administered as forests, whether state owned or private and whether wooded or maintained as potential forest land. The area of crops raised in the forest and grazing land or areas open for grazing within the forests would be included under the forest area. Only private forest would be covered under this category.

b) Area under non-agricultural use

All lands occupied by buildings and other lands put to uses other than agriculture within the holding.

c) Barren and uncultivable lands

All barren and uncultivable land within the cultivated holding.

Limitations of the census data

The main problem faced during the analysis of data was under-report-

ing in the area reported under the operational holdings as well as the various crops. This is mainly because of the census was conducted by the enquiry men and the cultivators, the vast majority of whom did not keep any account were furnishing information from memory which might not be correct in most cases especially in the case of fertilizer and pesticides application for paddy and other crops for different seasons of the year. Another important reason for under reporting is the ceiling provisions of an individual family in the Kerala Land Reforms Act. In the case of mixed cropping pattern area under cultivation of different crops can be written only by counting the number of trees and converting them into area using standard conversion factor. It is seen in many cases the number of various trees reported are less than the actuals.

Conveying of the listing schedule and the schedules for the main census was done by the officials of revenue department who are already burdened with their normal duties. The lapse of informants together with the reluctance on the part of the cultivator in divulging full particulars of area under cultivation to persons associated with the collection of land revenue and assessment of the taxes would have constituted for under estimation of the area under operational holdings and area under different crops. This trend of underreporting is a common feature in a census of this type since this is the only method of collection of data at micro level at lesser cost, the data can be made use of after giving proper allowance to the estimates by knowing the limitations and deficiencies of the census data.

Chapter 4

Results of Agricultural Census 1980-81

For projection of data on different aspects and characteristics of the operational holdings, the basic unit of agriculture, the following tables have been generated.

- Table 1 - Estimated number and area of operational holdings.
- Table 2(A) - Estimated number and area of operational holdings by tenure and tenancy status.
- Table 3 - Estimated area under different land use
- Table 4 - Estimated number and area of operational holdings by irrigation status.
- Table 5(A) - Estimated number of operational holdings receiving irrigation and area irrigated by different sources.
- Table 5(B) - Estimated number of wells and tube wells.
- Table 6 - Estimated irrigated and unirrigated area under different sources.

The results are presented in two volumes. Volume 1 gives the analysis of the results based on the above tables while in Volume II the above tables in respect of the various districts and state for general, scheduled caste and scheduled tribes in 13 size classes are given separately.

Volume I - Main Census

According to the Agricultural Census 1980-81, the total number of operational holdings in the State has been estimated as 41.81 lakhs, out of which individual holdings accounted for 99.3% with 41.52 lakhs. The rest was institutional holdings as no joint holding was reported.

These 41.81 lakh holdings accounted for an operated area of 18.05 lakh hectares, out of which 17.17 lakh hectare was the operational area of individual holdings. Institutional holdings, 0.7% of the total number of holdings, have accounted for an area of 4.9% of the total operated area in the State, thereby showing a comparatively very high average size of the holding for them.

Fourteen size classes have been originally adopted for classifying the holdings according to size and detailed tables in respect of the estimated number and area of operational holdings have been prepared. But, for detailed discussion and comparison of these results, these fourteen size classes have been grouped into five size classes viz. (1) below 1 hectare [marginal] (2) 1 to 2 hec. [small] (3) 2 to 4 hec. [semi-medium] (4) 4 to 10 hec. [medium] (5) 10 hec. and above [large].

Type of holding

Table IV 1(i) (appendix) gives the distribution pattern of operational holdings individual and institutional. Out of the total holdings of 41.81 lakh, the size group below 1 hect account for 89.2% of the total number of holdings. The total area operated by these holdings is 750418 hectares which works out to 41.6% of the total area. Among the 37.28 lakhs holdings falling in the size group below 1 hectare, as many as 3.59 lakh are in the size group less than 0.02 hectare, accounting for an area of 4578 hectares.

The institutional holdings numbered 28893, covering an area of 88642 hectares. The maximum number of holdings viz. 22724 was in the group below 1 hectare while the bulk of the area was accounted by the institutional holdings in the size group 10 hectares and above.

Since holdings (both individual and institutional) below 0.02 hectare in size are excluded from detailed study during the agricultural census, further discussions in this report cover the holdings having an area above 0.02 hectare only.

Excluding individual and institutional holdings of size less than 0.02 hectare, the total number of holdings has been estimated as 38.22 lakhs operating an area of 18.01 lakh hectares. The distribution pattern of these holdings reveals that the bulk of holdings is in size group 0.02 to 1 hectare with 88.2% of the total holdings, holding 41.4% of the total operated area. This shows a high order of concentration of holdings in this group consequent on the implementation of Kerala Land Reforms Act. The largest size group 10.0 hectares and above holds 0.1% of the total number of holdings occupying as much as 7.2% of the total area operated.

Comparison with 1976-77 census

For the purpose of comparison, the particulars of the number of holdings and area operated by these holdings under the different size classes as estimated from the 1976-77 census are also given in table IV 1(i). The total number of holdings under all categories together has increased from 35.01 lakh in 1976-77 to 41.81 lakh recording a percentage increase of 19.4 over a period of 4 years. As far as the number of individual holdings is concerned, the percentage increase was of the order of 19.9 while the number of institutional holdings exhibited a decline of 26.3% during the reference period. The area of the total holdings displayed an increase of five percent compared to the situation in 1976-77. Among the various size classes, the maximum percentage increase in the area as well as number was noted in the size class 'below 1 hectare'. The average size of an operational holding has decreased from 0.49 hectare in 1976-77 to 0.43 hectare in 1980-81. The decrease in the average size of holding is most striking in the size group 10 hectares and above where the average size of the holding has shown a decline of 1.70 hectare. The holdings having an area less than 0.02 hectare during 1976-77 was 1.74 lakh against 3.59 lakh during 1980-81. The area of these holdings was 0.02 lakh hectares in 1976-77 and 0.04 lakh hectare

in 1980-81. The granting of permanent ownership to kudikidappukars in varying extents, distribution of surplus lands to landless labourers, scheduled castes, scheduled tribes and other weaker sections of the society etc. are the reasons for the growth of operational holdings in the lower size groups.

Table IV 1(1.1) gives the average size of the individual holdings as revealed in the census during 1970-71, 1976-77 and 1980-81 for the various size groups.

Table IV 1(1.1)

Sl.No.	Size class	1970-71	1976-77	1980-81
1	2	3	4	5
1	0.02 - 0.99	0.29	0.24	0.22
2	1.00 - 1.99	1.36	1.37	1.37
3	2.00 - 3.99	2.69	2.70	2.68
4	4.00 - 9.99	5.56	5.49	5.43
5	10.00 & above	47.04	19.06	19.86
	Total	0.69	0.49	0.45

The average size of the holding has decreased in all the size classes except the last one. The average size of the individual holding has decreased from 0.69 hectare in 1970-71 to 0.45 hectare in 1980-81 recording a decline of about 35%.

District-wise analysis of number of operational holdings

Table IV 1(1.2) in appendix gives the district-wise break-up of the number of holdings under each class. Out of the total number of 38.22 lakh holdings operating an area of more than 0.02 hectare, Quilon district has the maximum number of 4.65 lakh holdings and Wayanad district has the minimum number of 0.69 lakh holdings. The other districts occupy intermediate positions in respect of the number of holdings. Out of the 38.22 lakh holdings, 33.69 lakh holdings are of less than one hectare, with maximum number of holdings viz. 4.41 lakh in Quilon district. In the size class 1.00-1.99 hectares, Cannanore leads other districts with 0.44 lakh holdings. Out of the total area of 18.01 lakh hectares, Cannanore district holds the maximum of 2.47 lakh hectares followed by 1.84 lakh hectare in Kozhikode district. The area was minimum in Wayanad district with 0.85 lakh hectares (refer table IV 1(1.3) on appendix.

Table IV 1(1.4) gives the district-wise average size of the individual holdings in the different size classes.

Table IV 1(1.4)

District-wise average size of the individual holdings in the different size classes

District	0.02 - 0.99		1.00 - 1.99		2.00 - 3.99		4.00 - 9.99		10 & above		All sizes	
	76-77	80-81	76-77	80-81	76-77	80-81	76-77	80-81	76-77	80-81	76-77	80-81
	1	2	3	4	5	6	7	8	9	10	11	12
1. Trivandrum	0.20	0.17	1.35	1.33	2.65	2.59	5.49	5.17	13.95	17.51	0.31	0.23
2. Quilon	0.26	0.21	1.36	1.34	2.68	2.52	5.34	5.02	17.23	13.54	0.37	0.28
3. Alleppey	0.20	0.18	1.37	1.31	2.62	2.57	6.03	5.01	13.50	14.66	0.33	0.29
4. Kottayam	0.27	0.23	1.41	1.40	2.58	2.67	5.46	5.57	19.82	12.95	0.65	0.56
5. Idukki	0.35	0.35	1.40	1.37	2.67	2.77	5.33	5.69	29.12	20.06	1.10	1.09
6. Ernakulam	0.20	0.19	1.34	1.37	2.75	2.69	5.31	5.37	13.65	15.65	0.41	0.37
7. Trichur	0.21	0.21	1.39	1.37	2.64	2.65	4.94	5.57	26.80	33.00	0.38	0.34
8. Palghat	0.24	0.24	1.38	1.41	2.73	2.73	5.69	5.41	14.11	14.70	0.70	0.64
9. Malappuram	0.25	0.24	1.32	1.36	2.65	2.68	5.30	5.42	22.43	29.13	0.53	0.56
10. Kozhikode	0.23	0.22	1.37	1.36	2.83	2.57	5.48	5.36	18.50	21.71	0.50	0.43
11. Wayanad	-	0.37	-	1.44	-	2.74	-	5.43	-	16.66	-	1.23
12. Cannanore	0.29	0.29	1.39	1.37	2.77	2.74	5.52	5.41	16.32	17.15	0.68	0.62
State	0.24	0.22	1.37	1.37	2.70	2.68	5.49	5.43	19.06	19.86	0.49	0.45

A marginal decline in the average is noted in almost all the size classes.

Distribution of holdings according to social groups

Table IV 1(1.5) shows the number and area of operational holdings according to major social groups i.e. scheduled castes, scheduled tribes and others under different major size classes with interse percentages in brackets.

Table IV 1(1.5)

Size class	Number of operational holdings				Area operated (in hect.)			
	All	S/C	S/T	Others	All	S/C	S/T	Others
	2	3	4	5	6	7	8	9
1. Below 1 hect.	5723023 (89.2)	352213 (98.6)	32611 (80.4)	3343199 (88.4)	750418 (41.6)	36471 (82.1)	8881 (33.4)	705066 (40.7)
2. 1.00 - 1.99	289805 (6.9)	4123 (1.2)	5624 (13.9)	280058 (7.4)	398254 (22.1)	5663 (12.8)	7757 (29.1)	384834 (22.2)
3. 2.00 - 3.99	123622 (2.9)	708 (0.2)	1618 (4.0)	121296 (3.2)	331410 (18.3)	1813 (4.1)	4284 (16.1)	325313 (18.7)
4. 4.00 - 9.99	35827 (0.9)	89 (0.0)	494 (1.2)	35244 (0.9)	195279 (10.8)	455 (1.0)	2753 (10.3)	192071 (11.1)
5. 10.00 & above	3652 (0.1)	--	188 (0.5)	3464 (0.1)	129960 (7.2)	--	2952 (11.1)	127008 (7.3)
All sizes	4180929 (100)	357133 (100)	40535 (100)	3783261 (100)	1805321 (100)	44402 (100)	26627 (100)	1734292 (100)

It is seen that 99.8% of the scheduled caste operational holders (upto 2 hectares) operate about 94.9% of the operated area and the rest 0.02 percent operate about 5.1 percent of the operated area by the holders above the size classes of 2 hectares and above.

About 94 percent of the scheduled tribe operational holders (upto 2 hectares) operate about 63 percent of the operated area. In the case of 'other social groups', it reveals that about 96 per cent of the operational holders operating about 63 per cent of the operated area are in the same size class. It further reveals that in size classes above 2 hect. of operated area about 4 per cent of the operational holders of other social groups operate about 37 per cent of the total area. It may be due to the fact that about 14 per cent of the total operated area in the same class of the same social group belongs to institutional holdings. Moreover it can be seen that scheduled caste operational holders are having more operated area compared to scheduled tribes.

The caste-wise, district-wise number of operational holdings and the operated area with interse percentage are given in table IV 1(1.6) below.

Table IV 1(1.6)

	Number of operational holdings				Area operated (hect.)			
	S/C	S/T	Others	Total	S/C	S/T	Others	Total
1	2	3	4	5	6	7	8	9
State	357133 (8.6)	40535 (1.0)	3783261 (90.4)	4180929 (100.0)	44402 (2.4)	26627 (1.5)	1734292 (96.1)	1805321 (100.0)
1 Trivandrum	35355 (7.8)	2194 (0.5)	413479 (91.7)	451028 (100.0)	3861 (4.2)	357 (0.4)	86677 (95.4)	90895 (100.0)
Quilon	54777 (11.0)	1079 (0.2)	441637 (88.8)	497493 (100.0)	5593 (4.2)	166 (0.1)	128847 (95.7)	134606 (100.0)
Alleppey	39752 (9.4)	653 (0.1)	384441 (90.5)	424846 (100.0)	2860 (2.5)	62 (0.1)	110745 (97.4)	113667 (100.0)
Kottayam	14918 (5.5)	892 (0.3)	257293 (94.2)	273103 (100.0)	1366 (0.9)	965 (0.7)	141484 (98.4)	143815 (100.0)
Idukki	8520 (6.1)	4835 (3.5)	125138 (90.4)	138493 (100.0)	2989 (1.7)	3779 (2.1)	173138 (96.2)	179906 (100.0)
Ernakulam	32864 (8.0)	129 (0.1)	376552 (91.9)	409545 (100.0)	2730 (1.9)	5 (0.0)	141995 (98.1)	144730 (100.0)
Trichur	49787 (12.5)	502 (0.1)	347322 (87.4)	397611 (100.0)	3557 (2.9)	42 (0.0)	118752 (97.1)	122351 (100.0)
Palghat	45858 (14.6)	6372 (2.0)	262860 (83.4)	315090 (100.0)	5671 (3.2)	216 (0.1)	172202 (96.7)	178089 (100.0)
Malappuram	33536 (9.2)	2098 (0.6)	327918 (90.2)	363552 (100.0)	4876 (2.7)	573 (0.3)	175946 (97.0)	181395 (100.0)
Kozhikode	22044 (5.0)	2055 (0.5)	413526 (94.5)	437625 (100.0)	2813 (1.6)	969 (0.5)	180331 (97.9)	184113 (100.0)
Wayanad	1227 (1.8)	12254 (17.6)	56026 (80.6)	69507 (100.0)	1811 (2.1)	14229 (16.8)	68777 (81.1)	84817 (100.0)
Cannanore	18495 (4.6)	7472 (1.8)	377069 (93.6)	403036 (100.0)	6275 (2.6)	5264 (2.1)	235398 (95.3)	246937 (100.0)

Scheduled caste and scheduled tribe operational holders constitute 9.6 per cent operating an area of 3.9 per cent. Palghat recorded the maximum percentage of the holdings in respect of scheduled castes and Wayanad in the case of scheduled tribes. In the case of 'other social groups' Kozhikode leads other districts. The interse percentage of operated area was highest in Trivandrum and Quilon in the case of scheduled castes, Wayanad in the case of scheduled tribes and Kottayam in respect of others. The highest average size of holding in the case of scheduled caste and scheduled tribes is in Wayanad and of other categories in Idukki.

Tenure and tenancy status of operational holdings

The distribution of holdings in the state in different size classes according to different kinds of tenure and tenancy status are given in table IV 2A(1) in appendix. Out of the 38.22 lakh holdings 37.70 lakhs (98.6%) are wholly owned and self operated, 0.07 lakhs (0.2%) partly owned and partly leased in holdings, 0.26 lakh (0.7%) are wholly but otherwise operated. Wholly leased in holdings are only 3761 and accounts for 0.1% of the total holdings. The percentages of the area under these tenures are 97.2%, 0.9%, 0.5% and 0.2% respectively. Considering the various size classes it is seen that 88.3% of the number of holdings are wholly owned and self operated in the size class 0.02 - 0.99 hectares and 7.5% in the group 1 - 1.99 hectare. Only 0.1% of the wholly owned and self operated holdings are in the size class 10 hectares and above. Under this tenure, 17.4% of the total area is occupied by the holdings in the highest two size classes.

Table IV 2A(1.1)

Distribution of number of holdings and area operated according to tenancy status by major size groups 1980-81 (Area in hect.)

Category of holding and size group	Number of holdings				Area operated			
	Wholly owned & self operated	Partly owned & partly leased in	Wholly leased in	Holdings having some land operated otherwise	Wholly owned & self operated	Partly owned & partly leased in	Wholly leased in	Holdings having some land operated otherwise
1	2	3	4	5	6	7	8	9
Marginal 0.02 - 0.99	3330300 (88.3)	3459 (47.8)	3173 (84.4)	32468 (77.8)	734946 (42.0)	1484 (9.1)	576 (20.0)	8834 (27.6)
Small 1.00 - 1.99	281331 (7.5)	1976 (27.3)	470 (12.5)	6058 (14.5)	386608 (22.1)	2775 (17.0)	649 (22.7)	8222 (25.7)
Semi-medium 2.00 - 3.99	120396 (3.2)	965 (13.3)	65 (1.8)	2196 (5.3)	322645 (18.4)	2511 (15.4)	157 (5.5)	6097 (19.1)
Medium 4.00 - 9.99	34358 (0.9)	627 (8.7)	-	842 (2.0)	186422 (10.7)	4468 (27.4)	-	4389 (13.7)
Large 10.0 & above	3247 (0.1)	211 (2.9)	53 (1.3)	141 (0.4)	118932 (6.8)	5078 (31.1)	1491 (51.8)	4459 (13.9)
All categories	3769602 (100.0)	7238 (100.0)	3761 (100.0)	41705 (100.0)	1749553 (100.0)	16316 (100.0)	2873 (100.0)	32001 (100.0)

(figures in brackets are percentages)

As in the case of all holdings, a majority (88.3 per cent) of the holdings which were wholly owned and self operated were marginal holdings. But in the case of wholly leased in holdings the percentage of marginal holdings was a little lower (84.4 per cent). The percentage of small and large holdings in the leased in category was higher as compared to that of the category of wholly owned and self operated holdings. The distribution of area operated by different size groups in the case of wholly owned and self operated holdings was similar to that observed for the totality of all holdings. In the case of wholly leased in holdings, the area operated was widely distributed by size groups; the percentage varied from 5.5 (semi-medium holdings) to 51.8 large holdings).

Referring to table IV 2A(1.2) in appendix it can be seen that while the wholly owned and self operated holdings were about 98.6 per cent of the total number of holdings in the state and was of the same order in a number of districts, the position was different in Idukki district. The corresponding figures was low only 84.5 per cent in Idukki. On the other hand, the holdings were practically almost wholly owned and self operated in districts like Trivandrum (99.2 per cent), Kottayam (99.6 per cent), Wayanad (99.1 per cent) and Cannanore (99.8 per cent).

While in the state as a whole only 0.1 per cent of the operational holdings were wholly leased in, it was the highest in Idukki (0.5 per cent).

The number of holdings categorised as holdings having some land operated otherwise covering land encroached or disputed where ownership or leasing was not clear, formed about 1.1 per cent of the total number of holdings in the country. But the proportion of the number of holdings in this category was high in districts like Idukki (13.2 per cent).

The position in respect of area operated in different categories of tenancy status in various districts was similar to the findings about the distribution in the case of number of holdings.

98.9% of the holdings with 97.9% of the operated area in the case of scheduled caste and 96.1% of the scheduled tribe holdings sharing an area of 96.9% were under wholly owned and self operated category. This was followed by 'wholly otherwise operated category' in the case of scheduled caste (0.7% of the holdings with 0.8% area) and scheduled tribe (3.2% holdings with 2.8% area) [Table IV 2A(2) & IV 2A(3) in appendix].

Particulars of leased in area by terms of leasing are given in table IV 2B(1) in appendix. Out of leased in area of 5492 hectares of land possessed by partly owned and partly leased in holders, 3425 hectares (62.4%) of land are leased in under 'other terms' and 1526 hectares (27.8%) for 'fixed money'. In the case of wholly leased in holdings also, 67.8% of the leased in area has been leased on 'other terms' and 19.5% for fixed money.

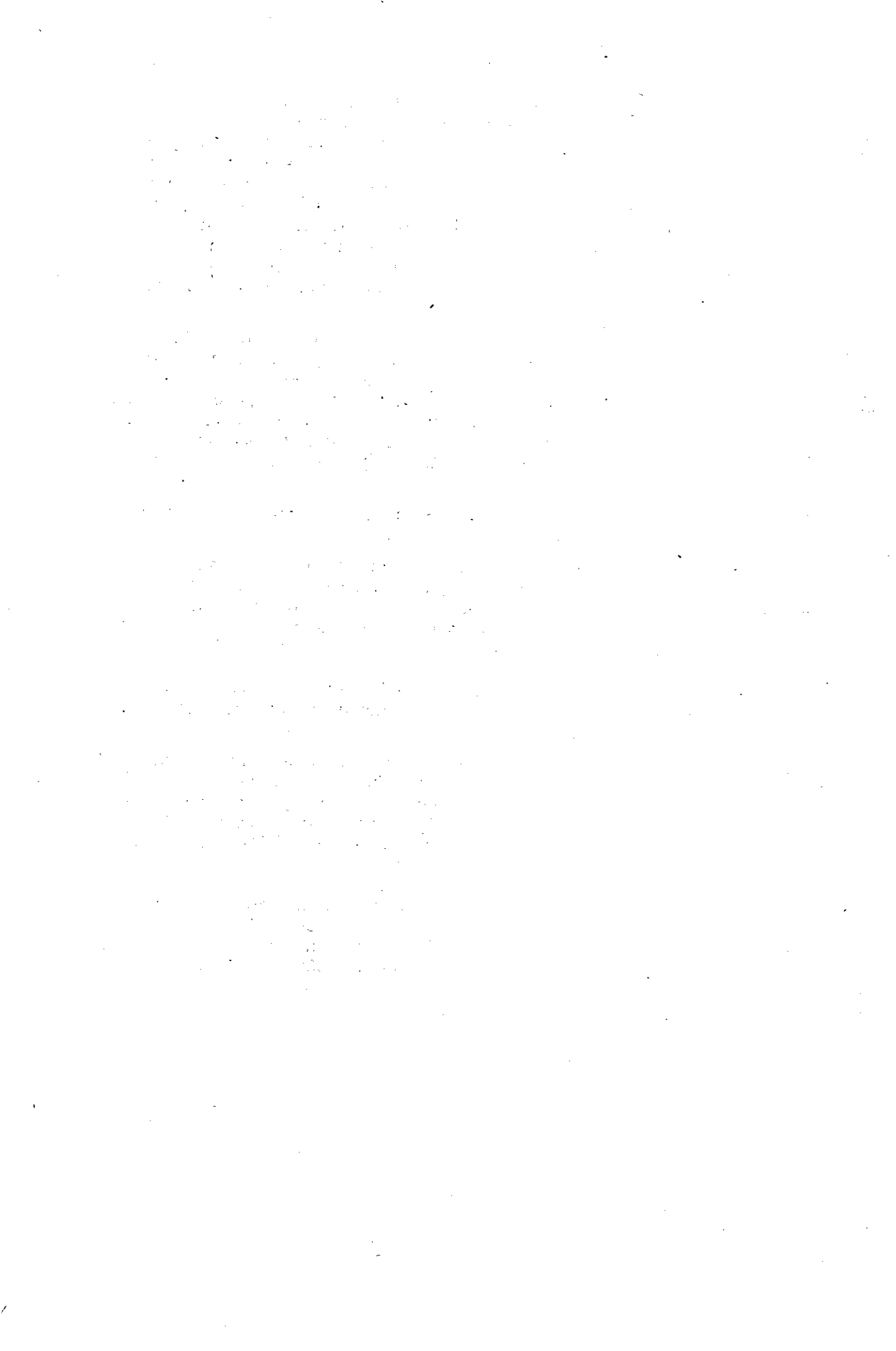


Table IV 2B(1.1)

Distribution of leased in area by terms of leasing by major size groups 1980-81
(area in hect.)

Category of holdings and size group	Area leased in for					Total
	Fixed money	Fixed produce	Share of produce	Usufructuary mortgage	Other terms	
1	2	3	4	5	6	7
Marginal	741 (58.0)	76 (5.9)	96 (7.5)	23 (1.8)	342 (26.8)	1278(100.0)
Small	671 (40.5)	269 (16.3)	37 (2.2)	-	679 (41.0)	1656 (100.0)
Semi-medium	169 (13.2)	18 (1.4)	-	157 (12.3)	934 (73.1)	1278 (100.0)
Medium	105 (7.3)	13 (0.9)	22 (1.5)	-	1298 (90.3)	1438 (100.0)
Large	399 (14.7)	-	195 (7.2)	-	2121 (78.1)	2715 (100.0)
All categories	2085 (24.9)	376 (4.5)	350 (4.2)	180 (2.2)	5374 (64.2)	8365 (100.0)

(figures in brackets are percentages)

It is seen that the single largest term of leasing was for fixed money which accounted for about 24.9 of the area leased in. This was followed by leasing in for fixed produce. The area under usufructuary mortgage was the least (2.2 per cent) But the remaining 64 per cent of the area was under other terms, meaning combination of at least two or more the terms of leasing specified above.

While about 25 per cent of the total leased in area was under the terms 'fixed money' it was higher about 58 per cent in the case of marginal and 40 per cent in the case of small holdings.

In the partly owned and partly leased in holdings category, terms of leasing of major share of the leased in area was 'other terms' (67.4%) in the case of scheduled castes and fixed money (100.0%) in the case of scheduled tribes. But the terms of contract for leased in area in the case of majority of scheduled castes (84.8%) and scheduled tribes (96.8%) was the same viz. fixed money in wholly leased in holdings (Table IV 2B(2) and IV 2B(3).

Land use pattern

Table IV 3(1) in appendix gives the details of land under different uses. The net area sown is 88.4% of the total area of the holdings. If the various classes are taken separately, the net area sown varies from 90.6% in the 2.0 - 3.99 size class to 81.5% in the size group 10 hectares and above. The net cultivated area is 90.1% of the area of the holdings while the area of the land not available for cultivation is 6.5%.

During 1976-77 census detailed information on institutional holdings was not collected. As such for comparison purposes the estimates of the area of individual holdings under different land uses are taken. The information is as shown below.

Table IV 3(1.1)

	1976-77	Percentage	1980-81	Percentage
1	2	3	4	5
1. Net area sown	1377362	85.6	1532868	89.5
2. Area under current fallow	28206	1.7	29097	1.7
3. Other uncultivated land excluding fallow land	25486	1.6	18531	1.1
4. Fallow land other than current fallow	12316	0.8	9130	0.6
5. Cultivable waste land	69242	4.3	24492	1.4
6. Land not available for cultivation	96746	6.0	98001	5.7
7. Total area of holdings	1609358	100.0	1712119	100.0

The total area of individual holdings as estimated for the year 1980-81 has shown an increase of only 6.4% over the corresponding estimates for the 1976-77 census. Significant difference between the two estimates is seen only in respect of 'net area sown' and 'cultivable waste land' while the former has shown an increase of 155506 hectares, the latter has shown a decrease of 44750 hectares.

If we analyse the district-wise distribution of the various kinds of land uses of the individual operational holdings according to the 1980-81 census estimates, the net area sown is maximum in Cannanore district with 2.01 lakh hectares followed by Kozhikode with 1.57 lakh hectares and Palghat with 1.56 lakh hectares and the minimum is 0.77 lakh hectare in Wayanad district as seen in table IV 3(1.2). In the case of cultivable waste land, out of the estimated area of 24492 hectares for the state during 1980-81 census, 5500 hect. are in Palghat district followed by 4885 hectares in Malappuram.

Table IV 3(1.2)

District-wise distribution of land utilisation of individual holdings
(area in hect.)

District	Net area sown	Current fallow	Other un-cultivated land	Fallow land other than current fallow	Cultivable waste	Land not available for cultivation
1	2	3	4	5	6	7
Trivandrum	81522	429	196	201	399	6947
Quilon	120200	626	270	478	243	8699
Alleppey	97221	2694	223	262	1100	9649
Kottayam	128922	3266	329	346	414	7261
Idukki	127625	705	424	281	169	4525
Ernakulam	122148	1256	570	619	913	9232
Trichur	109655	1785	1713	665	764	4685
Palghat	155582	4009	2080	948	5500	8964
Malappuram	154403	3755	1623	1971	4885	12561
Kozhikode	157416	1612	895	1492	845	8226
Wayanad	77073	702	255	411	4439	1644
Cannanore	201101	8258	9953	1456	4821	15608
State	1532868	29097	18531	9130	24492	98001

The relative position of each district in respect of the coverage of the area under different utilisations as revealed from the two agricultural censuses conducted during 1976-77 and 1980-81 can be assessed from table IV 3(1.3).

Table IV 3(1.3)

Percentage distribution of the various types of land utilisation of individual holdings

District	Net area sown		Current fallow		Other uncultivated land excluding fallow		Fallow land other than current fallow		Cultivable waste land	
	1976-77	1980-81	76-77	80-81	76-77	80-81	76-77	80-81	76-77	80-81
	1	2	3	4	5	6	7	8	9	10
Trivandrum	6.6	5.3	1.6	1.5	0.9	1.1	1.1	2.2	1.2	1.6
Quilon	9.9	7.8	1.9	2.2	3.8	1.5	4.2	5.2	3.2	1.0
Alleppey	7.6	6.3	1.9	9.3	1.2	1.2	7.2	2.9	3.1	4.5
Kottayam	10.3	8.4	7.6	11.2	1.2	1.8	2.9	3.8	1.5	1.7
Idukki	5.4	8.3	26.9	2.4	9.2	2.3	20.3	3.1	5.1	0.7
Ernakulam	9.0	8.0	3.9	4.3	6.6	3.1	3.4	6.8	3.8	3.7
Trichur	7.3	7.2	16.6	6.1	13.2	9.2	4.9	7.3	3.5	3.1
Palghat	10.8	10.2	13.0	13.8	31.2	11.2	28.1	10.4	11.0	22.5
Malappuram	9.0	10.1	12.8	12.9	17.3	8.7	8.2	21.6	15.5	20.0
Kozhikode	9.9	10.3	4.6	5.5	3.7	4.6	4.7	16.3	11.0	3.4
Wayanad	-	5.0	-	2.4	-	1.4	-	4.5	-	18.1
Cannanore	14.0	13.1	9.2	28.4	11.7	53.7	15.0	15.9	40.3	19.7
State	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Actuals in lakh hectares	13.77	15.33	0.28	0.29	0.25	0.19	0.12	0.09	0.69	0.24

In respect of net area sown, the districts maintain more or less the same relative position, but the positions are not the same in respect of other utilisations.

Table IV 3(1.4)

Percentage of area under main land uses to the total area by major size groups 1980-81 and 1976-77 (individual holdings)

Size class	Percentage of area under			Total
	net cultivated area	uncultivated land	Land not available for cultivation	
1	2	3	4	5
1. Marginal 0.02-0.99	89.3 (87.0)	2.3 (4.6)	8.4 (8.4)	100.0 (100.0)
2. Small 1.00-1.99	92.9 (89.5)	3.2 (6.3)	3.9 (4.2)	100.0 (100.0)
3. Semi-medium 2.00-3.99	92.7 (88.3)	3.9 (7.8)	3.4 (3.9)	100.0 (100.0)
4. Medium 4.00-9.99	92.1 (84.0)	4.1 (11.3)	3.8 (4.7)	100.0 (100.0)
5. Large 10.00 & above	93.4 (83.4)	4.1 (11.3)	2.5 (5.3)	100.0 (100.0)
All sizes	91.2 (87.3)	3.1 (6.7)	5.7 (6.0)	100.0 (100.0)

(figures in brackets are percentages for 1976-77)

An important aspect of land utilisation is indicated by net cultivated area which is the sum of net area sown plus the area under the current fallow. The net cultivated area was 91.2 per cent of the total operated area in 1980-81 as against 87.3 per cent in 1976-77. Thus the proportion of area under cultivation has increased in 1980-81. Of the remaining 5.7 per cent was not available for cultivation, being barren land or area put to non agricultural uses.

The land available for cultivation is obtained from the total operated area by deducting the land not available for cultivation. It is 94.3 per cent in 1980-81. The position in 1976-77 was similar. The percentage of net cultivated area was somewhat higher in the higher class. Correspondingly the percentage of land not available for cultivation decreased with the increase in the size of holdings. This might indicate that marginal holdings have made greater proportion of the available area for non-agricultural uses such as construction of residential houses, court yards etc.

Table IV 3(1.5)
Percentage of net cultivated area, total uncultivated land and land available for cultivation by size groups of holdings 1980-81 & 1976-77
 (individual holdings)

Size class	net cultivated area		uncultivated land		land available for cultivation	
	1980-81	1976-77	1980-81	1976-77	1980-81	1976-77
1	2	3	4	5	6	7
1. Marginal 0.02-0.99	42.3	42.0	32.1	29.1	42.0	41.1
2. Small 1.00-1.99	23.5	24.2	23.9	22.5	23.5	24.1
3. Semi-medium 2.00-3.99	19.4	19.0	24.3	22.2	19.6	19.3
4. Medium 4.00-9.99	11.1	10.8	14.9	19.2	11.2	11.4
5. Large 10.00 & above	3.7	4.0	4.8	7.0	3.7	4.1
All categories	100.0	100.0	100.0	100.0	100.0	100.0

Land unutilised constituted about 3 per cent of the total operated area in 1980-81. The corresponding percentage for 1976-77 was 6.7 per cent. It may be noted that about 42.0 per cent of the unutilised land was in marginal holdings of size 0.02 to 0.99.

Table IV 3(1.6)

**Percentage of area under main land uses to the total operated area
by the districts 1976-77 and 1980-81**

District	Net cultivated area		Land unutilised		Land not available for cultivation		Total	
	1976-77	1980-81	76-77	80-81	76-77	80-81	76-77	80-81
1	2	3	4	5	6	7	8	9
Trivandrum	92.1	91.4	1.2	0.9	6.7	7.7	100.0	100.0
Quilon	90.2	92.6	2.7	0.8	7.1	6.6	100.0	100.0
Alleppey	89.7	89.9	2.8	1.4	7.5	8.7	100.0	100.0
Kottayam	89.8	94.1	2.7	0.8	7.5	5.1	100.0	100.0
Idukki	86.1	96.0	3.0	0.6	5.1	3.4	100.0	100.0
Ernakulam	91.1	91.6	2.4	1.5	5.5	6.9	100.0	100.0
Trichur	89.1	93.4	5.4	2.7	5.5	3.9	100.0	100.0
Palghat	84.2	90.2	10.5	4.7	5.3	5.1	100.0	100.0
Malappuram	82.4	88.3	10.5	4.7	7.1	7.0	100.0	100.0
Kozhikode	89.6	93.3	5.9	1.9	5.1	4.8	100.0	100.0
Wayanad		92.0		6.0		2.0		100.0
Cannanore	80.3	86.8	15.5	6.7	6.2	6.5	100.0	100.0
State	87.3	91.2	6.7	3.1	6.0	5.7	100.0	100.0

While the net cultivated area was 91.2 per cent for the State as a whole, there was variation between districts. It varied from 86.8 per cent at Cannanore to 96.0 per cent at Idukki. The land not available for cultivation being barren land or area put to non-agricultural uses like buildings etc. formed 5.7 per cent of the total operated area in the State. The corresponding percentage in some districts were higher such as Alleppey (8.7 per cent) and Trivandrum (7.7 per cent).

The following table gives the percentage of land available for cultivation, net cultivated area and land utilised. A little over three-fifths of the area of land unutilised was concentrated in three districts namely Palghat, Malappuram and Cannanore.

Table IV 3(1.7)

District	Land available for cultivation		Net cultivated area		Land unclcultivated	
	1976-77	1980-81	1976-77	1980-81	1976-77	1980-81
1	2	3	4	5	6	7
1. Trivandrum	6.1	5.1	6.5	5.2	1.1	1.5
2. Quilon	9.3	7.5	9.7	7.7	3.9	1.9
3. Alleppey	7.4	6.3	7.7	6.4	3.1	3.0
4. Kottayam	9.6	8.3	10.2	8.5	1.6	2.1
5. Idukki	6.0	8.0	5.8	8.2	7.8	1.7
6. Ernakulam	8.6	7.8	8.9	7.9	4.4	4.0
7. Trichur	7.4	7.1	7.5	7.1	6.0	6.0
8. Palghat	11.4	10.4	10.9	10.3	17.8	16.4
9. Malappuram	9.5	10.3	9.1	10.1	15.1	16.3
10. Kozhikode	9.7	10.1	9.8	10.2	8.6	6.2
11. Wayanad	-	5.1	-	5.0	-	9.8
12. Cannanore	15.0	14.0	13.9	13.4	30.6	31.1
State	100.0	100.0	100.0	100.0	100.0	100.0

In the scheduled caste holdings, net area sown was 82.2% of the total area, 1.0 per cent current fallow, 6.8 per cent total unclcultivated land and the rest viz. 10.0% not available for cultivation. The corresponding percentages in the scheduled tribe category were 80.7, 1.5, 13.4 and 4.4 respectively. (Table IV 3(2) and IV 3(3) in appendix).

Table IV 4(1.1)

Distribution of number and area of holdings by irrigation status 1980-81

Irrigation status of holdings	No. of holdings	Area of holdings (hect)	
		Net area sown	Irrigated area
1	2	3	4
1. Wholly irrigated	303122	100772	100772
2. Partly irrigated	454757	393141	176048
3. Sub-total (holdings receiving irrigation 1 + 2)	757879	493913	276820
4. Wholly unirrigated	3064427	1098523	--
5. All holdings	3822306	1592436	276820

Out of 38.22 lakhs of holdings of size 0.02 hectares and above 3.03 lakhs holdings were wholly irrigated and 30.64 lakhs holdings were wholly unirrigated and the rest were partly irrigated holdings. In terms of area only 2.77 lakhs hectares are reported to be irrigated and this is spread over the 3.03 lakhs wholly irrigated holdings and 4.55 lakhs partly irrigated holdings. The size class distribution of these holdings is given in table IV 4(1) in appendix.

Table IV 4(1.2)
Percentage distribution of number and area of individual holdings by irrigation status 1980-81 and 1976-77

Irrigation status of holdings	No. of holdings		Net area sown		Irrigated area	
	1980-81	1976-77	1980-81	1976-77	1980-81	76-77
1	2	3	4	5	6	7
1. Wholly irrigated	7.9	1.1	6.5	1.2	36.2	9.3
2. Partly irrigated	11.9	11.0	25.1	23.8	63.8	93.7
3. Sub-total (holdings receiving irrigation 1+2)	19.8	12.1	31.6	25.0	100.0	100.0
4. Wholly unirrigated	80.2	87.9	68.4	75.0	--	--
All holdings	100.0	100.0	100.0	100.0	100.0	100.0

The wholly irrigated holdings accounted for 7.9 per cent of individual holdings in 1980-81 as against 1.1 per cent during 1976-77. The area under wholly irrigated holdings which was 1.2% of the total operated area in 1976-77 went up to 6.5 per cent in 1980-81. The number of wholly unirrigated holdings which was 87.9 per cent in 1976-77 declined to 80.2 per cent and the area covered by these holdings also declined by 6.6 per cent. The distribution of irrigated area as between wholly irrigated holdings and partly irrigated holdings showed a significant change in that of total irrigated area, 36.2 per cent belonged to wholly irrigated holdings as against 9.3 per cent in 1976-77. The average area of wholly irrigated individual holdings came down from 0.46 hectare in 1976-77 to 0.33 hectare in 1980-81. The average area of a partly irrigated holding declined from 0.90 hect. in 1976-77 to 0.85 hect. in 1980-81. The average area of a wholly unirrigated holdings too came down from 0.35 hect. in 1976-77 to 0.34 hect. in 1980-81. The decline in the average size of a holding in these different groups may be the result of the increase in the number of holdings that had been observed due to fragmentation overtime.

Table IV 4(1.3)
Net irrigated area and net area sown by major size groups of individual holdings 1980-81

Category of holdings	Net irrigated area	Net area sown	Percentage of irrigated area to net area sown
1	2	3	4
Marginal 0.02 to 0.99 hect.	113848	652214	17.5 (10.6)
Small - 1.00 to 1.99 "	69379	358140	19.4 (16.4)
Semi-medium 2.00 to 3.99	55843	297610	18.8 (14.4)
Medium - 4.00 to 9.99	30498	168356	18.1 (16.8)
Large - 10.00 & above	4417	56548	7.8 (7.4)
Total	273985	1532868	17.9 (13.3)

(figures in brackets in col.4 are corresponding percentages for 1976-77)

The proportion of irrigated area to net area sown, an important indicator showing the availability of irrigation for crop production increased from 13.3 per cent in 1976-77 to 17.9 per cent in 1980-81. This may be due to the improved availability of irrigation facilities over the period.

The percentage of irrigated area to net area sown was the highest in the case of small holdings. Large holdings indicated the lowest percentage. The position during 1976-77 was also similar.

The percentage distribution of number and area of wholly irrigated, partly irrigated and wholly unirrigated individual holdings is given in the following tables.

Table IV 4(1.4)
Percentage distribution of number and area of wholly irrigated individual holdings by major size groups 1980-81 and 1976-77

Category of holdings & size group	No. of holdings	Area
1	2	3
Marginal (0.02 - 0.99 ha)	91.8 (87.7)	50.8 (54.1)
Small (1.00 - 1.99 ha)	5.6 (9.3)	22.1 (26.3)
Semi-medium (2.00 - 3.99 ha)	1.8 (2.0)	13.9 (9.8)
Medium (4.00 - 9.99 ha)	0.7 (1.0)	11.4 (9.8)
Large (10.00 ha & above)	0.1	1.8
All categories	100.0 (100.0)	100.0 (100.0)

(figures in brackets indicate percentages for 1976-77)

Table IV 4(1.5)
Percentage distribution of number and area of partly irrigated individual holdings by major size groups 1980-81 and 1976-77

Category of holdings and size group	No. of holdings	Total area	Irrigated area
1	2	3	4
Marginal (0.02 - 0.99)	71.3 (67.6)	28.8 (27.3)	36.3 (31.8)
Small (1.00 - 1.99)	16.9 (20.4)	24.8 (28.8)	27.2 (30.1)
Semi-medium (2.00 - 3.99)	8.9 (8.7)	25.0 (23.6)	24.0 (21.6)
Medium (4.00 - 9.99)	2.7 (3.0)	15.7 (15.7)	11.0 (14.1)
Large (10.0 & above)	0.2 (0.3)	5.7 (4.6)	1.5 (2.4)
All categories	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)

(figures within brackets indicate percentages for 1976-77)

Table IV 4(1.6)
Percentage distribution of number and area of wholly unirrigated individual holdings 1980-81 and 1976-77

Category of holdings & size group	No. of holdings	Area
1	2	3
Marginal (0.02 - 0.99)	90.4 (89.4)	46.9 (46.7)
Small (1.00 - 1.99)	6.3 (6.9)	22.9 (22.6)
Semi-medium (2.00 - 3.99)	2.5 (2.8)	17.9 (17.6)
Medium (4.00 - 9.99)	0.7 (0.8)	9.2 (9.3)
Large (10.00 & above)	0.1 (0.1)	3.1 (3.8)
All Categories	100.0 (100.0)	100.0 (100.0)

(figures within brackets are percentages for 1976-77)

91.8 per cent of the wholly irrigated holdings are marginal holdings and 0.1 per cent are large holdings. The marginal holdings accounted for 71.3 per cent of the partly irrigated holdings and 90.4 per cent of the wholly irrigated holdings. The large holdings formed 0.2 per cent of the partly irrigated holdings and 0.1 per cent of the wholly unirrigated holdings.

The marginal holdings accounted for 50.8 per cent of the total area of the wholly irrigated holdings. But in the case of partly irrigated holdings only 28.8 per cent of the total area was in the marginal holdings and in the irrigated part it was about 36.3 per cent. In the case of wholly unirrigated holdings, the marginal holdings accounted for 46.9 per cent of the area.

The large holdings accounted for 1.8 per cent of the area of wholly irrigated holdings. But about 5.7 per cent of the area of the partly irrigated holdings was in large holdings, though only 1.5 per cent in the irrigated part. The large holdings accounted for 3.1 per cent of the area of the wholly unirrigated holdings. Thus in general the smaller holdings had a relatively larger share in the availability of irrigation facilities.

Table IV 4(1.7)
Distribution of district-wise number of holdings by irrigation status 1980-81

District	wholly irrigated	partly irrigated	holdings receiving irrigation(sub-total)	wholly un-irrigated	Total (co.4+5)
1	2	3	4	5	6
Trivandrum	19932	19100	39032	345841	384873
Quilon	589	15219	15808	449479	465287
Alleppey	75487	71617	147104	240177	387281
Kottayam	660	10654	11314	240130	251444
Idukki	--	3749	3749	119578	123327
Ernakulam	38776	58389	97165	266246	363411
Trichur	111143	47638	158781	196165	354946
Palghat	13224	59684	72908	205813	278721
Malappuram	13772	54188	67960	281896	349856
Kozhikode	28435	18886	47321	354626	401947
Wayanad	--	9219	9219	59610	68829
Cannanore	1104	86414	87518	304866	392384
Total	303122	454757	757879	3064427	3822306

Table IV 4(1.8)
Percentage distribution of district-wise number of holdings by
irrigation status 1980-81

District	Wholly irrigated	Partly irrigated	holdings receiving irrigation (sub-total)	Wholly unirrigated	Total
1	2	3	4	5	6
Trivandrum	6.5	4.2	5.2	11.3	10.1
Quilon	0.2	3.4	2.1	14.7	12.2
Alleppey	24.9	15.8	19.4	7.8	10.1
Kottayam	0.2	2.3	1.5	7.8	6.6
Idukki	-	0.8	0.5	3.9	3.2
Ernakulam	12.8	12.6	12.8	8.7	9.5
Trichur	36.7	10.5	21.0	6.4	9.3
Palghat	4.4	13.1	9.6	6.7	7.3
Malappuram	4.5	11.9	9.0	9.2	9.1
Kozhikode	9.4	4.2	6.2	11.6	10.5
Wayanad	-	2.0	1.2	1.9	1.8
Cannanore	0.4	19.0	11.5	10.0	10.3
Total	100.0	100.0	100.0	100.0	100.0

Out of 38.22 lakh holdings in respect of which irrigation particulars are available, 3.03 lakh holdings or 7.9 per cent of holdings are wholly irrigated and 4.55 lakhs holdings or 80.2 per cent holdings are wholly unirrigated and the rest (11.9 per cent) were partly irrigated. Of the 3.03 lakh holdings which were wholly irrigated, more than one third of them are in Trichur. Cannanore ranked first in the distribution of the set of partly irrigated holdings. In the case of wholly unirrigated holdings Quilon had the largest share.

Table IV 4(1.9)
Percentage distribution of individual holdings according to
irrigation status 1980-81 and 1976-77

District	Wholly irrigated	Partly irrigated	holdings receiving receiving irrigation	Wholly unirrigated	Total
1	2	3	4	5	6
Trivandrum	5.2 (1.2)	5.0 (5.9)	10.2 (7.1)	89.8 (92.9)	100.0(100.0)
Quilon	0.1 (0.0)	3.3 (1.2)	3.4 (1.2)	96.6 (98.8)	100.0(100.0)
Alleppey	19.6 (0.1)	18.6 (17.2)	38.2 (17.3)	61.8 (82.7)	100.0(100.0)
Kottayam	0.3 (0.0)	4.2 (4.8)	4.5 (4.8)	95.5 (95.2)	100.0(100.0)
Idukki	0.0 (0.0)	3.1 (4.3)	3.1 (4.3)	96.9 (95.7)	100.0(100.0)
Ernakulam	10.7 (3.5)	16.2 (17.9)	26.9 (21.4)	73.1 (78.6)	100.0(100.0)
Trichur	31.4 (2.6)	13.5 (32.0)	44.9 (34.6)	55.1 (65.4)	100.0(100.0)
Palghat	4.8 (1.7)	21.4 (18.7)	26.2 (20.4)	73.8 (79.6)	100.0(100.0)
Malappuram	3.9 (2.1)	15.6 (7.0)	19.5 (9.1)	80.5 (90.9)	100.0(100.0)
Kozhikode	7.1 (0.0)	4.7 (0.9)	11.8 (0.9)	88.2 (99.1)	100.0(100.0)
Wayanad	- (0.0)	13.5	13.5	86.5	100.0
Cannanore	0.2 (0.6)	22.2 (8.3)	22.4 (8.9)	77.6 (91.1)	100.0(100.0)
Total	7.9 (1.1)	12.0 (11.0)	19.9 (12.1)	80.1 (87.9)	100.0(100.0)

(figures in brackets indicate percentages for 1976-77)

About 9% of the holdings were wholly irrigated in the state. The corresponding figure was higher than the state average in districts like Trichur (31.4 per cent), Alleppey (19.6 per cent). On the other hand, the percentage of holdings which were wholly irrigated was very small in districts like Kottayam (0.3 per cent) Cannanore (0.2 per cent) and Quilon (0.1 per cent).

The wholly unirrigated holdings formed 80 per cent of all holdings in the state. The corresponding figure in different districts showed considerable variation. The wholly unirrigated holdings formed as much as 96.9 per cent in Idukki. The lowest figure was in Trichur with 55.1 per cent.

Table IV 4(1.10)
Distribution of district-wise net area sown according to irrigation status 1980-81 (area in hect.)

District	Wholly irrigated holdings	Partly irrigated Total area	Partly irrigated holdgs. Irrigated area	Net irrigated area(2+4)	Wholly unirrigated area	Net area sown (2+3+6)
1	2	3	4	5	6	7
Trivandrum	5359	10001	3847	7206	68357	81717
Quilon	107	7487	2272	2379	114064	121658
Alleppey	11655	27918	14108	25763	58588	98161
Kottayam	922	15293	3351	4273	114453	130668
Idukki	-	10923	2494	2494	154543	165466
Ernakulam	12234	57010	26646	38880	57510	126754
Trichur	42246	37021	18587	60833	32238	111505
Palghat	20997	71822	42394	63691	62998	155817
Malappuram	4212	56771	23380	27592	94628	155611
Kozhikode	3822	24355	5117	8939	134866	163543
Wayanad	-	20798	4018	4018	56403	77201
Cannanore	1218	53242	29534	30752	149875	204335
Total	100772	393141	176048	276820	1098523	1592436

Table IV 4(1.11)

Percentage distribution of districtwise area according to irrigation status 1980-81

District	Wholly irrigated holdings	Partly irrigated Total area	Partly irrigated holdgs. Irrigated area	Net irrigated area	Wholly unirrigated holdings
1	2	3	4	5	6
Trivandrum	3.4	2.6	2.2	2.6	6.5
Quilon	0.1	1.9	1.3	0.9	10.7
Alleppey	11.7	7.2	8.0	9.3	5.5
Kottayam	0.9	3.9	1.9	1.5	10.8
Idukki	-	2.8	1.4	0.9	11.1
Ernakulam	12.3	14.5	14.9	14.0	5.2
Trichur	41.7	9.5	10.6	21.9	3.0
Palghat	21.1	18.6	24.4	23.2	6.0
Malappuram	4.2	14.6	13.2	10.0	9.0
Kozhikode	3.8	5.2	2.9	3.2	12.8
Wayanad	-	5.4	2.3	1.5	5.4
Cannanore	0.8	13.8	16.9	11.0	14.0
Total	100.0	100.0	100.0	100.0	100.0

Out of the net area sown of 15.92 lakh hectares, only 2.77 lakh hectares were irrigated consisting of 1.01 lakh hectares belonging to wholly irrigated holdings and the rest to partly irrigated holdings. Nearly 80% of the net irrigated area was concentrated in five districts namely Ernakulam, Trichur, Palghat, Malappuram and Cannanore.

Table IV 4(1.12)
Percentage distribution of area of individual holdings according to irrigation status 1980-81 and 1976-77

District	Wholly irrigated holdings		Partly irrigated holdings				Net irrigated area (col 2+4)		Wholly unirrigated holdings		Net area sown(2+3+6)	
	80-81	76-77	Total area		Irrigated area		80-81	76-77	80-81	76-77	80-81	76-77
	1	2	3	4	5	6	7	8	9	10	11	12
Trivandrum	4.1	0.8	12.3	13.3	4.7	3.9	8.8	4.7	83.6	85.9	100.0	100.0
Quilon	0.1	0.0	6.2	3.3	1.9	1.0	2.0	1.0	93.7	96.7	100.0	100.0
Alleppey	11.9	1.1	28.5	29.5	14.5	15.3	26.4	16.4	59.6	69.4	100.0	100.0
Kottayam	0.7	-	11.7	11.1	2.5	2.9	3.2	2.9	87.6	88.9	100.0	100.0
Idukki	-	0.1	8.6	11.4	2.0	1.8	2.0	1.9	91.4	88.5	100.0	100.0
Ernakulam	10.0	5.0	45.7	50.9	21.3	22.3	31.3	27.3	44.3	44.1	100.0	100.0
Trichur	37.7	2.7	33.2	58.2	16.9	40.8	54.6	43.5	29.1	39.1	100.0	100.0
Palghat	13.5	2.7	46.1	50.8	27.4	34.5	40.9	37.2	40.4	46.5	100.0	100.0
Malappuram	2.7	1.3	36.4	20.6	15.0	7.6	17.7	8.9	60.9	78.1	100.0	100.0
Kozhikode	2.4	0.1	12.7	4.0	3.2	0.6	5.6	0.7	84.9	95.9	100.0	100.0
Wayanad	-	-	27.0	-	5.2	-	5.2	-	73.0	-	100.0	-
Cannanore	0.4	0.2	26.4	13.8	14.6	4.3	15.0	4.5	73.2	86.0	100.0	100.0
Total	6.5	1.2	25.1	23.8	11.4	12.0	17.9	13.2	68.4	75.0	100.0	100.0

While nearly 18 per cent of the net area sown was irrigated in the state as a whole in 1980-81, there was considerable variation in this percentage among districts. In Trichur this proportion was 54.6 per cent and in Palghat it was 40.9 per cent. On the other hand the percentage of net area sown which was irrigated was quite low in districts like Idukki and Quilon (2 per cent) and Kottayam (3.2 per cent).

The proportion of irrigated area to net area sown had increased from 13 per cent in 1976-77 to 18 per cent in 1980-81. The improvement though of varying order was noted in all the districts.

Wholly irrigated holdings in the case of scheduled caste and scheduled tribe categories are 8.2 and 1.2 per cent respectively. 87.8% of the holdings in the scheduled caste category and 91.6% in respect of scheduled tribe holdings are unirrigated. The rest are partly irrigated holdings. Only 12.8% of the net area sown is irrigated in the case of S/C holdings. The corresponding percentage in S/T holdings is still low viz. 5.6 per cent (Table IV 4(2) and IV 4(3) in appendix).

Table IV 5A(1.1)
Distribution of holdings receiving irrigation and area irrigated by
different sources 1980-81

Source of irrigation	No. of holdings	Net area irrigated (hect.)
1	2	3
1. Canal	235464	119150
2. Tank	141247	30592
3. Well	333640	75981
4. Tube well	1536	1175
5. Other sources	151799	49922
All sources	*863686	276820

* This includes holdings irrigated by more than one source. However the number of irrigated holdings was only 757879.

The single largest group of 3.34 lakh holdings was irrigated by well, accounting about 27.4 per cent of the total irrigated area. Eventhough 43 per cent of the irrigated area was irrigated by canals.

Table IV 5A(1.2)
Irrigated area by source of irrigation and by major size groups 1980-81 (in hect.)

Category of holdings and size group	Area irrigated by					Total
	Canal	Tank	Well	Tube well	Others	
1	2	3	4	5	6	7
1. Marginal (0.02-0.99)	43149	14296	39050	152	17454	114101
2. Small (1.00 to 1.99)	33667	7741	14826	364	13093	69691
3. Semi-medium (2.00-3.99)	25499	5416	14227	268	10863	56273
4. Medium (4.00-9.99)	14507	2580	7223	359	6836	31505
5. Large (10.00 & above)	2328	559	655	32	1676	5250
All categories	119150	30592	75981	1175	49922	276820

Out of the total irrigated area of 2.77 lakh hectares, the share of marginal holdings was about 1.14 lakh hectares followed by small holdings accounting for 0.70 lakh hectares. Only 5250 hectares of area was in large holdings.

Table IV 5A(1.3)
Percentage of area irrigated from different sources of irrigation by major size groups 1980-81 and 1976-77 (individual holdings)

Category of holdings and size group	Canal	Tank	Well	Tubewell	Other sources	All sources
1	2	3	4	5	6	7
Marginal (0.02-0.99 ha)	36.5 (30.6)	47.1 (39.0)	51.6 (45.1)	15.4 (30.5)	35.4 (34.2)	41.6 (33.9)
Small (1.00-1.99 ha)	28.5 (29.8)	25.4 (19.3)	19.5 (30.4)	36.9 (36.3)	26.5 (30.9)	25.3 (29.7)
Semi-medium (2.00-3.99 ha)	21.4 (22.2)	17.7 (17.3)	18.7 (14.5)	27.2 (19.9)	22.0 (21.5)	20.4 (20.5)
Medium (4.00-9.99 ha)	12.0 (15.2)	8.3 (16.1)	9.4 (9.6)	17.3 (12.3)	13.3 (11.5)	11.1 (13.7)
Large (10.00 & above)	1.6 (2.2)	1.5 (8.3)	0.8 (0.4)	3.2 (1.0)	2.8 (1.9)	1.6 (2.2)
All categories	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)

(figures in brackets are percentages for 1976-77)

The percentage of irrigated area from all sources as well as that under each individual source of irrigation except tube well was generally more in the marginal size class. The percentage of area irrigated from all sources increased in the first size class in 1980-81 from 1976-77 while these percentages decreased in the remaining size classes.

The utilisation of irrigation was more in marginal and small categories of holdings, while of all size classes, the percentage utilisation was the least in the large size class.

Table IV 5A(1.4)
Percentage of source-wise irrigation by major size groups 1980-81 & 1976-77 (Individual holdings)

Category of holdings and size group	Canal	Tanks	Wells	Tubewells	Other sources	Total
1	2	3	4	5	6	7
Marginal (0.02-0.99 ha)	37.9 (53.8)	12.5 (6.9)	34.2 (19.8)	0.1 (3.7)	15.3 (15.8)	100.0 (100.0)
Small (1.00-1.99 ha)	48.4 (59.6)	11.1 (3.9)	21.2 (15.2)	0.5 (5.0)	18.8 (16.3)	100.0 (100.0)
Semi-medium (2.00-3.99)	45.2 (64.2)	9.6 (5.0)	25.3 (10.4)	0.5 (4.0)	19.4 (16.4)	100.0 (100.0)
Medium (4.00-9.99)	46.2 (65.8)	8.2 (7.0)	23.4 (10.4)	0.6 (3.7)	21.6 (13.1)	100.0 (100.0)
Large 10.00 & above	43.6 (59.6)	10.6 (22.3)	13.8 (2.8)	0.7 (1.8)	31.3 (13.5)	100.0 (100.0)
All categories	43.0 (59.4)	11.0 (6.0)	27.6 (14.8)	0.4 (4.1)	18.0 (15.7)	100.0 (100.0)

(figures in brackets are percentages for 1976-77)

The percentage of area irrigated by canals declined considerably in all size classes while that by wells showed a marked improvement compared to 1976-77. In the medium and large size class the percentage of area irrigated by other sources increased considerably compared to the situation in 1976-77. An analysis of the irrigated area according to source of irrigation shows that 43% of the irrigated area are from canals, 28% from wells and 18% from other sources in 1980-81 while the corresponding percentages are 59, 15 and 16 respectively.

Table IV 5A(1.5)
Distribution of district-wise holdings receiving irrigation by different sources
1980-81

District	Source of irrigation					Total
	Canals	Tanks	Wells	Tube wells	Other sources	
1	2	3	4	5	6	7
Trivandrum	13139 (5.6)	2514 (1.2)	14215 (4.3)	20 (1.3)	16207 (10.7)	46195 (5.4)
Quilon	--	90 (0.1)	9354 (2.8)	--	6364 (4.2)	15808 (1.8)
Alleppey	22852 (9.7)	84124 (59.6)	37103 (11.1)	230 (15.0)	15637 (10.3)	159946 (18.5)
Kottayam	4045 (1.7)	3702 (2.6)	3340 (1.0)	--	1098 (0.7)	12185 (1.4)
Idukki	1036 (0.4)	--	62 (0.0)	--	2651 (1.7)	3749 (0.4)
Ernakulam	56988 (24.2)	6065 (4.3)	27522 (8.2)	368 (24.0)	16197 (10.7)	107140 (12.4)
Trichur	58682 (24.9)	17028 (12.1)	83911 (25.1)	844 (54.9)	35531 (23.4)	195996 (22.7)
Palghat	50821 (21.6)	4992 (3.5)	17942 (5.4)	74 (4.8)	8531 (5.6)	82360 (9.5)
Malappuram	--	4624 (3.3)	44740 (13.4)	--	24696 (16.3)	74060 (8.6)
Kozhikode	7544 (3.2)	542 (0.4)	33238 (10.0)	--	7893 (5.2)	49217 (5.7)
Wayanad	626 (0.3)	540 (0.4)	165 (0.1)	--	7887 (5.2)	9219 (1.1)
Cannanore	19757 (8.4)	16926 (12.0)	62095 (18.6)	--	9107 (6.0)	107885 (12.5)
Total	235490 (100.0)	141247 (100.0)	333688 (100.0)	1536 (100.0)	151799 (100.0)	863760 (100.0)

(figures in brackets are percentages)

* This includes holdings irrigated by more than one source. However, the number of irrigated holdings was only 757928 holdings.

There were in all 7.58 lakh holdings which were irrigated in 1980-81 either by canals or tanks or wells to tube wells or other sources. Of these, some of the holdings were irrigated from more than one source. The gross number of holdings receiving irrigation including those irrigated from multiple sources was 8.6 lakhs.

Wells provided irrigation to the largest number of holdings namely 3.34 lakh holdings followed by canals irrigating 2.35 lakh holdings.

More than 60 per cent of the well irrigated holdings was concentrated in four districts namely Trichur, Cannanore, Malappuram and Alleppey. As regards the number of holdings irrigated by canals, Trichur (24.9 per cent) and Ernakulam (24.2 per cent) were in the lead.

Table IV 5A(1.6)
Distribution of district-wise area irrigated by different sources 1980-81
(Area in hect.)

District	Source of irrigation					Total
	Canals	Tanks	Wells	Tubewells	Other sources	
1	2	3	4	5	6	7
Trivandrum	2331 (2.0)	520 (1.7)	1907 (2.5)	27 (2.3)	2421 (4.8)	7206 (2.6)
Quilon	(2.0)	25 (0.1)	666 (0.9)	-	1688 (3.4)	2379 (0.9)
Alleppey	9010 (7.6)	9325 (30.5)	3157 (4.2)	68 (5.8)	4203 (8.4)	25763 (9.3)
Kottayam	1740 (1.5)	1407 (4.6)	676 (0.9)	-	450 (0.9)	4273 (1.5)
Idukki	621 (0.5)	-	7 (0.0)	-	1866 (3.7)	2494 (0.9)
Ernakulam	24469 (20.5)	1987 (6.5)	6916 (9.1)	164 (14.0)	5344 (10.7)	38880 (14.0)
Trichur	27077 (22.7)	5028 (16.4)	21604 (28.4)	871 (74.1)	6253 (12.5)	60833 (22.0)
Palghat	42959 (36.0)	2599 (8.5)	14755 (19.4)	45 (3.8)	3333 (6.7)	63691 (23.0)
Malappuram	-	2642 (8.6)	10419 (13.7)	-	14531 (29.1)	27592 (10.0)
Kozhikode	2597 (2.2)	153 (0.5)	3953 (5.2)	-	2242 (4.5)	8945 (3.2)
Wayanad	361 (0.3)	368 (1.2)	7 (0.0)	-	3282 (6.6)	4018 (1.5)
Cannanore	7985 (6.7)	6538 (21.4)	11920 (15.7)	-	4309 (8.7)	30752 (11.1)
Total	119150 (100.0)	30592 (100.0)	75987 (100.0)	1175 (100.0)	49922 (100.0)	276826 (100.0)

(figures in brackets are percentages)

The total irrigated area covered in 1980-81 was 2.77 lakh hectares. The distribution of area irrigated by sources indicated that the relative order of importance of different sources was different to that in the case of distribution of holdings and the magnitude showed some variation. While the number of holdings irrigated by canals was only 27 per cent of the total number of irrigated holdings the area covered by them was 43 per cent of the total irrigated area. On the other hand, the percentage of number of holdings irrigated by wells was 39 per cent while the percentage of area irrigated by that source was only 28. The districtwise distribution of irrigated area was broadly similar to that of the distribution of the number of holdings. However, there were some interesting features. The positions of Trichur, Alleppey and Paigal which were first second and fifth in the ranking as far as the number of irrigated holdings was concerned, were the second, sixth and first as far as irrigated area was concerned. Kottayam was tenth in the case of the number of irrigated holdings and irrigated area.

Table IV 5A(1.7)
Percentage of number of holdings irrigated by different sources
in each district 1980-81

District	Source of irrigation					Total
	Canals	Tanks	Wells	Tube wells	Other sources	
1	2	3	4	5	6	7
Trivandrum	28.4	5.7	30.8	0.0	35.1	100.0
Quilon	-	0.6	59.2	-	40.2	100.0
Alleppey	14.3	52.6	23.2	0.1	9.8	100.0
Kottayam	33.2	30.4	27.4	-	9.0	100.0
Idukki	27.6	-	1.7	-	70.7	100.0
Ernakulam	53.2	5.7	25.7	0.3	15.1	100.0
Trichur	30.0	8.7	42.8	0.4	18.1	100.0
Paigal	61.7	6.1	21.8	0.1	10.3	100.0
Malappuram	-	6.2	60.4	-	33.4	100.0
Kozhikode	15.3	1.1	67.6	-	16.0	100.0
Wayanad	6.8	5.9	1.8	-	85.5	100.0
Cannanore	18.3	15.7	57.6	-	8.4	100.0
State	27.3	16.3	38.6	0.2	17.6	100.0

Table IV 5A(1.8)
 Percentage of area irrigated by different sources in each district
 1980-81 and 1976-77 (Individual holdings)

District	Source of irrigation					Total
	Canals	Tanks	Wells	Tubewells	Other sources	
1	2	3	4	5	6	7
Trivandrum	32.3 (63.4)	7.2 (11.9)	26.5 (8.2)	0.4 -	33.6 (16.5)	100.0 (100.0)
Quilon	- (72.6)	1.0 (0.2)	27.9 -	- (20.9)	71.0 (6.3)	100.0 (100.0)
Alleppey	35.0 (18.2)	36.0 (22.6)	12.3 (14.4)	0.3 (0.9)	16.4 (43.7)	100.0 (100.0)
Kottayam	40.9 (32.7)	32.1 (3.4)	16.2 (1.1)	- (0.1)	10.8 (62.7)	100.0 (100.0)
Idukki	24.9 (45.5)	- (5.3)	0.3 (9.1)	- (4.6)	74.8 (35.5)	100.0 (100.0)
Ernakulam	62.6 (59.8)	5.1 (2.2)	18.0 (11.5)	0.4 (16.3)	13.9 (10.2)	100.0 (100.0)
Trichur	44.4 (54.1)	8.3 (4.6)	35.8 (31.1)	1.1 (1.4)	10.4 (8.8)	100.0 (100.0)
Palghat	67.4 (80.2)	4.1 (3.8)	23.2 (4.6)	0.1 (1.2)	5.2 (10.2)	100.0 (100.0)
Malappuram	- (77.3)	9.6 (5.4)	38.1 (9.8)	- (0.1)	52.3 (6.8)	100.0 (100.0)
Kozhikode	29.4 (61.1)	1.7 -	43.6 (12.4)	- (5.6)	25.3 (20.9)	100.0 (100.0)
Wayanad	9.0 -	9.2 -	0.2 -	- -	81.6 -	100.0 -
Cannanore	26.2 (23.6)	21.5 (8.6)	38.9 (31.7)	- (0.5)	13.4 (35.6)	100.0 (100.0)
Total	43.0 (59.4)	11.0 (6.0)	27.6 (14.9)	0.4 (4.1)	18.0 (15.6)	100.0 (100.0)

(figures in brackets indicate percentages for 1976-77)

For the state as a whole, the proportion of area irrigated by canals ranked first during 1980-81 also. But it was only 43 per cent as against 59.4 per cent during 1976-77. In the case of area irrigated by wells, the percentage has increased to 27.9 per cent during 1980-81 while it was only 14.9 per cent in 1976-77.

While the percentage of area irrigated by other sources was only 18 per cent for the state as a whole, in some districts like Quilon, Idukki and Malappuram it was 71, 74.8 and 52.3 per cent.

Canal irrigation is done in 44.8% of the irrigated area in S/C holdings while the corresponding percentage of net area irrigated is only 25.8 in respect of scheduled tribes. In S/T holdings 41.4% of the net irrigated area is irrigated by other sources [Table IV 5A(2) and IV 5A(3)].

Data on number of wells and tube wells in use are furnished in table IV 5B(1). Number of wells in use is reported to be 398555 while number of tube wells (diesel and electric) are estimated as 1253 and 1117 respectively.

Information on estimated number of wells and tube wells used for irrigation purposes by scheduled caste and scheduled tribe operational holders is given in table IV 5B(2) and IV 5B(3).

Intensity of irrigation

Intensity of irrigation viz. gross irrigated area divided by net irrigated area expressed as a percentage according to size classes is furnished in the subjoined table.

Table IV 6(1.1)
Intensity of irrigation

Sl.No.	Size class	Intensity of irrigation	
		3	
1.	0.02 - 0.99	137.2	
2.	1.00 - 1.99	149.8	
3.	2.00 - 3.99	140.3	
4.	4.00 - 9.99	135.7	
5.	10.00 & above	157.1	
	All	141.2	

Intensity of irrigation ranges from 137.2 to 157.1 during 1980-81 (In the case of scheduled caste holdings intensity of irrigation was 118.4 while it is 121.5) in the case of scheduled tribe category.

During the earlier agricultural census detailed enumeration was conducted only among individual holdings. Table IV 6(1.2) gives the intensity of irrigation of individual holdings for 1980-81 and 1976-77.

Table IV 6(1.2)

Sl.No.	Size class	Intensity of irrigation	
		1980-81	1976-77
1	2	3	4
1.	0.02 - 0.99	137.2	169.3
2.	1.00 - 1.99	149.8	170.1
3.	2.00 - 3.99	140.3	173.5
4.	4.00 - 9.99	135.8	164.6
5.	10.0 & above	161.7	150.8
	All	141.3	169.7

Intensity of irrigation has declined in all the size classes except large holdings (ie. 10 hectares and above).

Area under crops

Table IV 6(1) represents details regarding gross cropped area and area under various crops according to size classes. For each crop irrigated and unirrigated area are shown separately. Gross cropped area in the state is estimated as 20,40,547 hectares. District-wise percentage distribution of gross cropped area is furnished in the following table.

Table IV 6(1.3)
District-wise percentage distribution of gross cropped area

Sl.No.	District	Irrigated	Unirrigated	Total
1	2	3	4	5
1.	Trivandrum	3.3	5.7	5.2
2.	Quilon	0.7	9.4	7.8
3.	Alleppey	7.5	6.1	6.3
4.	Kottayam	1.3	8.5	7.2
5.	Idukki	0.8	10.2	8.4
6.	Ernakulam	17.6	7.2	9.2
7.	Trichur	20.5	4.6	7.6
8.	Palghat	23.2	9.2	11.9
9.	Malappuram	9.4	10.0	9.9
10.	Kozhikode	2.9	11.1	9.5
11.	Wayanad	1.1	5.7	4.8
12.	Cannanore	11.7	12.3	12.2
13.	State	100.00	100.0	100.0

Out of 20,40,547 hectares of gross cropped area in the state, 12.2% is in Cannanore district which is the highest while the lowest percentage is in Wayanad district. The main crops cultivated in the state are paddy, coconut, arecanut, tapioca, rubber, pulses, sugarcane, cashew, pepper, tea, coffee, banana and plantain, jack and mango. The percentage of gross cropped area occupied by the important crops in respect of individual holdings during the reference years 1976-77 and 1980-81 are given below.

Table IV 6(1.4)
Crop-wise percentage distribution of gross cropped area

Sl.No.	Name of crop	1980.81	1976.77
1	2	3	4
1	Paddy	26.2	31.6
2	Coconut	20.9	16.6
3	Tapioca	11.6	15.1
4	Rubber	10.2	8.6
5	Cashew	4.6	3.7
6	Tea	0.9	0.1
7	Pepper	3.4	3.2
8	Coffee	2.4	2.2
9	Arecanut	2.3	2.3
10	Mango	1.5	2.0
11	Banana	2.6	1.4
12	Others	13.4	13.2
	All crops	100.0	100.0

The percentage distribution of gross cropped area among various crops shows that a decline of 5.4% is seen in the case of paddy, 3.5% in the case of tapioca and an increase of 4.3% in the case of coconut. The remaining commodities contributed more or less the same percentage.

Table IV-6(1.5)
Percentage distribution of area under principal crops in different size classes of holdings

holding size	Paddy	Coconut	Tapioca	Rubber	Cashew	Tea	Pepper	Coffee	Arecanut	Mango	Banana
1	2	3	4	5	6	7	8	9	10	11	12
0.02-0.99	34.4	57.7	63.0	19.0	36.6	1.8	43.4	24.2	47.8	64.8	62.3
1.00-1.99	29.9	19.7	19.7	26.6	24.6	2.4	23.6	21.3	25.0	17.3	21.5
2.00-3.99	22.9	15.3	11.9	26.5	23.2	2.1	19.9	25.2	17.0	11.9	10.7
4.00-9.99	10.9	6.1	5.1	15.7	13.5	1.8	11.2	20.0	7.7	5.3	4.2
10.0 & above	1.9	1.2	0.3	12.2	2.1	91.9	1.9	9.3	2.5	0.7	1.3
Total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Major portion of the area under crops like coconut, tapioca, pepper, mango and banana is covered by the holdings of size less than 1 hectare. In the case of tea, large sized holdings cover the bulk area. Out of the gross cropped area 20,40,547 hectares, 61.9% comes under food crops and the rest 38.1% under nonfood crops. 81.0% of the gross cropped irrigated area comes under food crops. Percentage of unirrigated cropped area coming under food crops and nonfood crops are 57.4 and 42.6 respectively.

Table IV 6(1.6)
**Percentage of selected crops to gross cropped area in each
 size group of holdings 1980-81 and 1976-77**

Size class	percentage area under												All crops
	Paddy	Pep- per	Bana- na	Mango	Cash- ew	Tapi- oca	Coco- nut	Areca- nut	Tea	Cof- fee	Rub- ber	Others	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Marginal 0.02-0.99	21.3 (22.0)	3.5 (3.9)	3.8 (4.6)	2.3 (3.2)	4.0 (3.3)	17.3 (20.3)	28.4 (23.5)	2.6 (2.6)	0.0 (0.0)	1.4 (1.0)	4.6 (2.1)	10.8 (13.5)	100.0 (100.0)
Small 1.00-1.99	33.8 (41.9)	3.5 (3.0)	2.4 (2.5)	1.1 (1.4)	4.8 (3.1)	9.9 (14.3)	17.6 (13.7)	2.5 (2.0)	0.1 (0.1)	2.2 (1.5)	11.7 (7.1)	10.4 (9.4)	100.0 (100.0)
Semi-medium 2.00-3.99	31.6 (39.6)	3.6 (2.8)	1.5 (2.1)	0.9 (1.1)	5.7 (5.5)	7.2 (11.6)	16.7 (11.9)	2.1 (2.5)	0.1 (0.1)	3.2 (2.3)	14.2 (10.5)	13.2 (10.0)	100.0 (100.0)
Medium 4.00-9.99	28.5 (39.9)	3.9 (3.1)	1.0 (1.9)	0.8 (0.9)	6.2 (4.9)	5.8 (7.9)	12.2 (10.2)	1.8 (2.2)	0.2 (0.1)	4.8 (4.6)	15.9 (14.0)	18.9 (10.3)	100.0 (100.0)
Large 10.00 and above	14.5 (13.4)	1.8 (1.3)	1.0 (1.0)	0.3 (0.4)	2.6 (2.1)	1.0 (1.8)	5.1 (3.5)	1.8 (0.8)	1.9 (0.1)	6.8 (11.1)	37.3 (54.8)	25.9 (9.7)	100.0 (100.0)
All categories	26.8 (31.5)	3.5 (3.3)	2.6 (3.2)	1.5 (2.0)	4.7 (3.7)	11.9 (15.1)	21.2 (16.6)	2.4 (2.3)	0.1 (0.1)	2.5 (2.2)	10.3 (8.6)	12.5 (11.4)	100.0 (100.0)

(figures in brackets are percentages for 1976-77)

Paddy, coconut and tapioca accounted for 60% of the area under crops in respect of all holdings. In the case of holdings of less than one hectare about 67% of the area is under these crops whereas in the case of small holdings the cases pending percentage is about 70.

Table IV 6(1.7)
**Percentage distribution of area under selected crops by size groups of
 holdings 1980-81 and 1976-77)**

Category of holdings & size groups	Paddy	Pepper	Banana	Mango	Cashew	Tapioca	Coconut
1	2	3	4	5	6	7	8
Marginal (0.02-0.99)	34.5 (29.3)	43.6 (49.7)	62.7 (60.9)	65.1 (67.9)	36.8 (36.5)	63.1 (56.6)	58.3 (59.3)
Small (1.00 - 1.99)	30.0 (32.0)	23.7 (22.5)	21.4 (19.0)	17.3 (16.2)	24.7 (19.8)	19.8 (22.9)	19.7 (19.9)
Semi-medium (2.00 - 3.99)	22.9 (23.7)	19.9 (16.1)	10.7 (12.5)	11.8 (10.3)	23.3 (27.7)	11.8 (14.5)	15.3 (13.5)
Medium (4.00 - 9.99)	10.8 (13.0)	11.2 (9.8)	4.0 (6.1)	5.3 (4.6)	13.4 (13.4)	5.0 (5.4)	5.9 (6.3)
Large (10.0 & above)	1.8 (2.0)	1.6 (1.9)	1.2 (1.5)	0.5 (1.0)	1.8 (2.6)	0.3 (0.6)	0.8 (1.0)
All categories	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)

(contd.)

[Table IV 6(1.7) contd.]

	Arecanut	Tea	Coffee	Rubber	Others	All crops
1	9	10	11	12	13	14
Marginal (0.02 - 0.99)	48.0 (46.7)	12.4 (10.6)	24.3 (18.3)	19.3 (10.3)	44.3 (50.0)	43.4 (42.0)
Small (1.00 - 1.99)	25.1 (21.2)	16.6 (25.7)	21.4 (16.0)	26.8 (19.8)	24.4 (20.0)	23.8 (24.1)
Semi-medium (2.00 - 3.99)	17.0 (20.7)	14.9 (34.8)	25.3 (20.1)	26.7 (23.0)	19.2 (16.6)	19.4 (18.9)
Medium (4.00 - 9.99)	7.5 (9.7)	11.7 (19.1)	20.1 (21.7)	15.6 (16.7)	9.4 (9.3)	10.2 (10.3)
Large (10.0 & above)	2.4 (1.7)	44.4 (9.8)	8.9 (23.9)	11.6 (30.2)	2.7 (4.1)	3.2 (4.7)
All categories	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)	100.0 (100.0)

(figures in brackets are percentages for 1976-77)

Marginal and small holders operated around two-third of the area under paddy and pepper. In respect of the others important crops like coconut, arecanut, tapioca, banana etc. the percentage of area is much higher. The area operated by large holders constitutes only less than 2 per cent in the case of paddy and pepper in less than one per cent in respect of coconut and tapioca.

Intensity of cropping

Table IV 6(1.8) gives the district-wise intensity of cropping.

Table IV 6(1.8)
Intensity of cropping

(Area in hect.)

District	Net area sown	Gross cropped area	Intensity of cropping
1	2	3	4
Trivandrum	81717	106589	130.4
Quilon	121658	158677	130.4
Alleppey	98161	129444	131.9
Kottayam	130668	145455	111.3
Idukki	165466	170772	103.2
Ernakulam	126754	187802	148.2
Trichur	111505	155432	139.4
Palghat	155817	243532	156.3
Malappuram	155611	201805	129.7
Kozhikode	163543	194684	119.0
Wayanad	77201	97472	126.3
Cannanore	204335	248883	121.8
State	1592436	2040547	128.1

District-wise intensity varies from 103.2 in Idukki district to 156.3 in Palghat district. Intensity of cropping =

$$\frac{\text{Gross cropped area}}{\text{Net area sown}} \times 100$$

is worked out to be 128.1 at the state level in 1980-81 as against 132.2 during 1976-77.

In the case of scheduled caste holdings out of gross cropped area (irrigated) 43,510 hectare in the State, 75.9 % comes under food crops. The corresponding percentage in respect of scheduled tribe holdings is 89.7. The gross unirrigated area under food crops in scheduled tribe holdings is of the order of 60.9% while it is 65.5% in the case of scheduled caste. About one-third of the gross cropped area in the scheduled tribe holdings was devoted to paddy cultivation while it was only 15.6% in the case of scheduled caste. Next to this, coffee and coconut occupy important positions. In scheduled caste holdings major proportion of the gross cropped area is covered by coconut (23.9%) and tapioca (20.2%) [Table IV 6(2) and IV 6(3)].

Intensity of cropping was of the order of 121.0 in the case of scheduled caste holdings and 116.8 in respect of scheduled tribe holdings.

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Table IV 1(1) - Number and area of operational holdings

Size class (hect)	Individual holdings												Institutional holdings											
	1976-77			1980-81			1976-77			1980-81			1976-77			1980-81								
	Number	Area	Percentage variation	Number	Area	Percentage variation	Number	Area	Percentage variation	Number	Area	Percentage variation	Number	Area	Percentage variation									
1	2	3	4	5	6	7	8	9	10	11	12	13												
1. Below 1 hect.	3036179	3705299	+22.0	680343	745013	+9.5	33048	22724	-31.2	7070	5405	-23.6												
2. 1.00 - 1.99	276917	286944	+3.6	379930	394331	+3.8	2894	2861	-1.1	3914	3923	+0.2												
3. 2.00 - 3.99	112195	121999	+8.7	303139	327095	+7.9	1586	1623	+2.3	4305	4315	+0.2												
4. 4.00 - 9.99	33047	34696	+5.0	181427	188708	+4.0	1095	1131	+3.3	6444	6571	+2.0												
5. 10.0 & above	3494	3098	-11.3	66612	61532	-7.6	597	554	-7.2	85953	68428	-20.4												
All sizes	3461832	4152036	+19.9	1611451	1716679	+6.5	39220	28893	-26.3	107686	88642	-17.7												
Below 0.02	169661	356665	+110.2	2093	4560	+117.9	4592	1958	-57.4	58	18	-69.0												
	Grand Total												Average size of holdings											
	1976-77			1980-81			1976-77			1980-81			1976-77			1980-81								
	Number	Area	Percentage variation	Number	Area	Percentage variation	Number	Area	Percentage variation	Number	Area	Percentage variation	Number	Area	Percentage variation									
	14	15	16	17	18	19	20	21																
	3069227	3728023	+21.5	687413	750418	+9.2	0.22	0.20																
	279811	289805	+3.6	383844	398254	+3.8	1.37	1.37																
	113781	123622	+8.6	307444	331410	+7.8	2.70	2.68																
	34142	35827	+4.9	187871	195279	+3.9	5.50	5.45																
	4091	3652	-10.7	152565	129960	-14.8	37.29	35.59																
	3501052	4180929	+19.4	1719137	1805321	+5.0	0.49	0.43																
	174253	358623	+105.8	2151	4578	112.8	0.01	0.01																

Table IV (1.1) - District-wise distribution of number of operational holdings in the different size classes

Size class (hect)	Trichur	Coimbatore	Alappay Kottayam	Idukki	Ernakulam	Trichur	Palghat	Malappuram	Kozhikode	Wayanad	Cannanore	State		
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. 0.02 - 0.99	370249	441046	361463	208110	62623	525277	325525	225532	306720	597690	42939	522226	3369500	
2. 1.00 - 1.99	11487	18921	13963	27580	24419	25641	22160	30180	26269	27662	12694	44029	289805	
3. 2.00 - 3.99	2632	4566	5556	12202	10832	10562	6185	17100	11913	12697	9143	20434	123622	
4. 4.00 - 9.99	401	664	1211	3493	4393	1903	1030	5643	4382	5640	3736	5334	35827	
5. 10.00 & above	104	90	88	359	3063	228	46	266	572	258	317	361	3652	
Total	584873	465287	397281	251444	123527	363411	354946	278721	349856	401947	68829	392384	3822306	

Table IV (1.2) - District-wise distribution of area of operational holdings in different size classes

Size class (hect)	Trivandrum	Quilon	Alleppey	Kottayam	Idukki	Ernakulam	Trichur	Palghat	Malappuram	Kozhikode	Wayanad	Cannanore	State	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1. 0.02 - 0.99	63977	92077	66586	48946	28833	62437	67925	53908	72942	78393	15794	94022	745840	
2. 1.00 - 1.99	15388	25298	24921	38446	33600	35255	30532	42605	35631	37639	18343	60596	398254	
3. 2.00 - 3.99	6831	11516	14291	32639	29282	27891	16380	46722	31961	32755	25100	56042	331410	
4. 4.00 - 9.99	2075	3346	6060	19433	25011	10524	5651	30519	23779	19592	20291	28948	195279	
5. 10.00 & above	1821	1952	1292	4005	63039	7979	1350	3910	16906	15268	5281	7177	129960	
Total	90092	134185	113150	143519	179753	144086	121818	177664	181219	183647	84809	246785	1800743	

Table IV 1(2) - Number and area of operational holdings

Size class (hect)	Individual holdings			Joint holdings			Sub-total (individual + joint holdings)			Institutional holdings			Scheduled Caste		
	Area		No.	Area		No.	Area		No.	Area		No.	Area		No.
	1	2		3	4		5	6		7	8		9	10	
1. 0.02 - 0.99	301949	35830	301949	--	--	301949	35830	11	1	301960	35831				
2. 1.00 - 1.99	4123	5663	4123	--	--	4123	5663	--	--	4123	5663				
3. 2.00 - 3.99	708	1813	708	--	--	708	1813	--	--	708	1813				
4. 4.00 - 9.99	89	455	89	--	--	89	455	--	--	89	455				
5. 10.00 & above	--	--	--	--	--	--	--	--	--	--	--				
All sizes	306869	43761	306869	--	--	306869	43761	11	1	306880	43762				
Below 0.02	50253	640	50253	--	--	50253	640	--	--	50253	640				

Table IV 1(3) - Number and area of operational holdings

Size class (hect)	Individual holdings			Joint holdings			Sub-total (individual + joint holdings)			Institutional holdings			Scheduled Tribe		
	Area		No.	Area		No.	Area		No.	Area		No.	Area		No.
	1	2		3	4		5	6		7	8		9	10	
1. 0.02 - 0.99	29071	8844	29071	--	--	29071	8844	--	--	29071	8844				
2. 1.00 - 1.99	5624	7757	5624	--	--	5624	7757	--	--	5624	7757				
3. 2.00 - 3.99	1618	4284	1618	--	--	1618	4284	--	--	1618	4284				
4. 4.00 - 9.99	494	2753	494	--	--	494	2753	--	--	494	2753				
5. 10.00 & above	188	2952	188	--	--	188	2952	--	--	188	2952				
All sizes	36995	26590	36995	--	--	36995	26590	--	--	36995	26590				
Below 0.02	3540	37	3540	--	--	3540	37	--	--	3540	37				

Table IV 2A(1) - Number and area of operational holdings by tenure and tenancy status

Size class (hect)	Total holdings		Wholly owned & self operated holdings		Partly owned & partly leased in holdings			Wholly leased in holdings		Wholly otherwise operated		
	No.	Area	No.	Area	No.	Area	Total area	No.	Area	No.	Area	
1	2	3	4	5	6	7	8	9	10	11	12	13
1. 0.02 - 0.99	3369400	745840	3330300(98.8)	734946(98.5)	3459(0.1)	782	702	1484(0.2)	3173(0.1)	576(0.1)	22742(0.7)	4832(0.7)
2. 1.00 - 1.99	289805	398254	281301(97.1)	386608(97.1)	1976(0.7)	1768	1007	2775(0.7)	470(0.2)	649(0.2)	2341(0.8)	3107(0.8)
3. 2.00 - 3.99	123622	331410	120396(97.4)	322645(97.4)	965(0.8)	1390	1121	2511(0.8)	65(0.1)	157	525(0.4)	1453(0.4)
4. 4.00 - 9.99	35827	195279	34358(95.9)	186422(95.5)	627(1.8)	3030	1438	4468(2.3)	--	--	41(0.1)	198(0.1)
5. 10.0 & above	3652	129960	3247(88.9)	118932(91.5)	211(5.8)	3854	1224	5078(3.9)	53(1.4)	1491(1.2)	--	--
All sizes	3822306	1800743	3769602(98.6)	1749553(97.2)	7238(0.2)	10824	5492	16316(0.9)	3761(0.1)	2873(0.2)	25649(0.7)	9590(0.5)

No.	Partly owned and partly otherwise operated		Partly leased in and partly otherwise operated				Partly owned, partly leased in & partly otherwise operated					
	owned area	otherwise operated area	total area	area leased in other-wise operated	area leased in other-wise operated	total area	owned area	area leased in other-wise operated	total area	total area		
14	15	16	17	18	19	20	21	22	23	24	25	26
9726(0.3)	2251	1751	4002(0.5)	--	--	--	--	--	--	--	--	--
3600(1.2)	2719	2210	4929(1.2)	--	--	--	--	117(0.0)	87	29	70	186(0.0)
1486(1.2)	2211	1777	3988(1.2)	--	--	--	--	185(0.1)	393	169	94	656(0.2)
689(1.9)	2171	1547	3718(1.9)	--	--	--	--	112(0.3)	158	202	113	473(0.2)
141(3.9)	2755	1704	4459(3.4)	--	--	--	--	--	--	--	--	--
15642(0.4)	12107	8989	21096(1.1)	--	--	--	--	414(0.0)	638	400	277	1315(0.1)

(figures in brackets indicate percentage to total number of holdings and area in each category)

Table IV 2B(1) - Leased in area by terms of leasing

Size class (hect)	Partly & partly leased in holdings						Wholly leased in holdings																							
	Fixed money			Share of produce			Fixed money			share of produce			Fixed money			share of produce														
	2	3	4	5	6	7	8	9	10	11	12	13	2	3	4	5	6	7	8	9	10	11	12	13						
1. 0.02 - 0.99	437	76	90	16	83	702	304	--	6	7	259	576	416	269	37	--	255	--	--	157	394	649	169	18	--	--	157	157	157	157
2. 1.00 - 1.99	416	269	37	--	285	1007	255	--	--	--	157	649	169	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3. 2.00 - 3.99	169	18	--	--	934	1121	--	--	--	--	--	--	105	13	22	--	--	--	195	--	--	1491	105	13	22	--	--	--	--	--
4. 4.00 - 9.99	105	13	22	--	1298	1438	--	--	--	--	--	--	399	--	--	1224	--	--	201	164	1949	1491	105	13	22	--	--	--	--	--
5. 10.00 & above	399	--	--	--	825	1224	--	--	--	--	--	--	1526	376	149	16	3425	559	201	164	1949	1491	105	13	22	--	--	--	--	--
All sizes	1526	376	149	16	3425	5492	559	--	201	164	1949	2873																		

Table IV 2B(2) - Leased in area by terms of leasing

Size class (hect)	Partly & partly leased in holdings						Wholly leased in holdings						Scheduled Caste																		
	Fixed money			Share of produce			Fixed money			share of produce				Fixed money			share of produce														
	2	3	4	5	6	7	8	9	10	11	12	13		2	3	4	5	6	7	8	9	10	11	12	13						
1. 0.02 - 0.99	6	7	--	--	31	44	--	--	8	2	3	13	2	--	--	--	--	73	--	--	--	--	--	--	73	2	--	--	--	--	--
2. 1.00 - 1.99	2	--	--	--	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
3. 2.00 - 3.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4. 4.00 - 9.99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
5. 10.0 & above	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All sizes	8	7	--	--	31	46	73	--	8	2	3	86	8	7	--	46	73	--	8	2	3	86	8	7	--	--	--	--	--	--	

Table IV 3(2) - Area under different land use

Size class (hect)	Total holdings		Net area under											Scheduled caste	
	No.	Area	3	4	5	6	7	8	9	10	11	Total unculti- vated land (7+8+9)	Land not available for cultivation		
1. 0.02 - 0.99	301960	35831	29771	389	30160	690	154	841	1685	3986					
2. 1.00 - 1.99	4123	5663	4145	58	4203	1269	10	1	1280	180					
3. 2.00 - 3.99	708	1813	1599	4	1603	8	-	-	8	202					
4. 4.00 - 9.99	89	455	455	-	455	-	-	-	-	-					
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-					
All sizes	306880	43762	35970	451	36421	1967	164	842	2973	4368					

Table IV 3(3) - Area under different land use

Size class (hect)	Total holdings		Net area under											Scheduled Tribe	
	No.	Area	3	4	5	6	7	8	9	10	11	Total unculti- vated land (7+8+9)	Land not available for cultivation		
1. 0.02 - 0.99	29071	8844	7340	371	7711	167	145	188	500	633					
2. 1.00 - 1.99	5624	7757	5324	22	5346	1469	-	751	2220	191					
3. 2.00 - 3.99	1618	4284	3562	-	3562	226	-	287	513	209					
4. 4.00 - 9.99	494	2753	2476	-	2476	98	-	62	160	117					
5. 10.00 & above	188	2952	2754	-	2754	98	-	86	184	14					
All sizes	36995	26590	21456	393	21849	2058	145	1374	3577	1164					

Table IV 4(1) - Distribution of number of operational holdings by irrigation status

Size class (hect)	Total holdings		Wholly irrigated holdings		Wholly unirrigated holdings		Partly irrigated holdings		Holdings receiving irrigation			
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Net irri- gated area sown		
	2	3	4	5	6	7	8	9	10	11	12	13
1. 0.02 - 0.99	3369400	745840	278041	50533	2767637	492627	323722	110898	63518	601763	114101	654108
2. 1.00 - 1.99	289805	398254	17149	22042	195653	242155	77003	95803	47649	94152	69691	360000
3. 2.00 - 3.99	123622	331410	5483	14008	77565	189162	40574	96992	42265	46057	56273	300162
4. 4.00 - 9.99	35827	195279	2268	12130	21149	99044	12410	61073	19375	14678	31505	172247
5. 10.00 & above	3652	129960	181	2009	2423	75535	1048	28375	3241	1229	5250	105919
All sizes	3822306	1800743	303122	100772	3064427	1098523	454757	393141	176048	757879	276820	1592436

Table IV 4(2) - Distribution of number of operational holdings by irrigation status

Size class (hect)	Total holdings		Wholly irrigated holdings		Wholly unirrigated holdings		Partly irrigated holdings		Holdings receiving irrigation			
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Net irri- gated area sown		
	2	3	4	5	6	7	8	9	10	11	12	13
1. 0.02 - 0.99	301960	35831	25005	1887	265741	25530	11214	2354	1438	36219	3325	29771
2. 1.00 - 1.99	4123	5663	111	113	3250	3063	762	969	653	873	766	4145
3. 2.00 - 3.99	708	1613	-	-	552	1264	200	526	467	200	247	1790
4. 4.00 - 9.99	89	455	-	-	-	-	45	264	54	45	54	264
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-	-
All sizes	306880	43762	25116	2000	269543	29857	12221	4113	2612	37337	4612	35970

Table IV 4(3) - Distribution of number of operational holdings by irrigation status

Size class (hect)	Scheduled Tribe													
	Total holdings					Wholly irrigated holdings					Partly irrigated holdings	Holdings receiving irrigation		
	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	Total irrigated area	No.	Net irrigated area	Net area sown
1	2	3	4	5	6	7	8	9	10	11	12	13		
1. 0.02 - 0.95	29075	8644	446	25	27253	6618	1372	697	446	1818	471	7340		
2. 1.00 - 1.99	5625	7757	-	-	5308	4895	316	429	67	316	87	5324		
3. 2.00 - 3.99	1610	4204	-	-	941	2003	677	1559	193	677	393	3562		
4. 4.00 - 9.99	694	2753	-	-	254	1226	240	1250	215	240	215	2476		
5. 10.00 & above	133	2252	-	-	133	1973	53	781	43	53	43	2754		
All sizes	36595	76590	446	25	33991	16715	2658	4716	1184	3104	1209	21456		

Table IV 5(A1) - Number of operational holdings receiving irrigation and area irrigated by different sources

Size class (hect)	Exclusive Total																	
	Total holdings			Canals			Tanks			Wells			Tube wells			Other sources		
	No. of holdings	Area	No. of holdings irrigated	No. of holdings irrigated	Area	No. of holdings irrigated	Area	No. of holdings irrigated	Area	No. of holdings irrigated	Area	No. of holdings irrigated	Area	No. of holdings irrigated	Area	No. of holdings irrigated	Area	
1. 0.02 - 0.95	3269400	745240	16584	43149	112733	18295	275372	30030	638	152	103823	17454	60333	114101				
2. 1.00 - 1.99	289805	399254	43544	33567	17179	7741	23100	14026	467	364	29122	13093	94332	22631				
3. 2.00 - 3.99	125622	331610	20247	25692	8611	5416	16997	14227	318	268	12718	10363	46257	56273				
4. 4.00 - 9.99	35827	795279	5491	14507	2481	2580	6677	7223	102	356	5528	6936	14178	31505				
5. 10.00 & above	3652	125960	333	2323	183	559	310	553	11	32	608	1676	1229	5250				
All sizes	3842306	1500743	235449	119150	141247	39592	337630	7590	1536	1175	151789	49972	757379	218279				

Table IV 5A(2) - Number of operational holdings receiving irrigation and area irrigated by different sources

Size class (hect)	Scheduled Caste														
	Total holdings			Canals		Tanks		Wells		Tube wells		Other sources		Exclusive Total	
	No. of holdings	Area	No. of hldgs. irrigated	No. of hldgs. irrigated	Area irrigated	No. of hldgs. irrigated	Area irrigated	No. of hldgs. irrigated	Area irrigated	No. of holdings irrigated	Area irrigated	No. of hldgs. irrigated	Area irrigated	no. of hold- ing receive- ing irrigation area	net irrigated area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1. 0.02 - 0.99	301960	35031	11292	1240	12674	581	12414	1067	-	-	6299	437	36219	3325	
2. 1.00 - 1.99	4123	5663	337	467	-	-	177	138	240	49	150	112	873	766	
3. 2.00 - 3.99	708	1813	175	360	19	53	44	54	-	-	-	-	200	467	
4. 4.00 - 9.99	82	455	-	-	-	-	-	-	-	-	45	54	45	54	
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All sizes	306880	43762	11804	2067	12695	634	12635	1259	240	49	6494	603	37337	4612	

Table IV 5A(3) - Number of operational holdings receiving irrigation and area irrigated by different sources

Size class (hect)	Scheduled Tribe														
	Total holdings			Canals		Tanks		Wells		Tube wells		Other sources		Exclusive Total	
	No. of holdings	Area	No. of hldgs. irrigated	No. of hldgs. irrigated	Area irrigated	No. of hldgs. irrigated	Area irrigated	No. of hldgs. irrigated	Area irrigated	No. of holdings irrigated	Area irrigated	No. of hldgs. irrigated	Area irrigated	no. of hold- ing receive- ing irrigation area	net irrigated area
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
1. 0.02 - 0.99	29071	8844	356	104	49	5	988	174	-	-	589	188	1818	471	
2. 1.00 - 1.99	5624	7757	261	-	53	16	-	-	-	-	263	71	316	87	
3. 2.00 - 3.99	1618	4284	-	208	203	110	-	-	-	-	213	75	677	393	
4. 4.00 - 9.99	494	2753	-	-	67	95	-	-	-	-	173	120	240	215	
5. 10.00 & above	188	2952	-	-	-	-	-	-	-	-	53	43	53	43	
All sizes	36995	26590	617	312	372	226	988	174	-	-	1291	497	3104	1209	

Table IV 5B(1) - Number of wells and tube wells

Size class (hect)	Total holdings		No. of wells in use				Not in use		No. of tube wells		Total (8+9)
	No.	Area	With pump sets	Without pumpsets	Total (4+5)	7	8	Diesel	Electric		
1	2	3	4	5	6	7	8	9	10		
1. 0.02 - 0.99	3369400	745840	-	-	311413	52039	430	251	681		
2. 1.00 - 1.99	289805	398254	-	-	51422	12296	168	606	774		
3. 2.00 - 3.99	123622	331410	-	-	27401	6533	570	161	731		
4. 4.00 - 9.99	35827	195279	-	-	7556	2728	85	75	160		
5. 10.00 & above	3652	129960	-	-	763	212	-	24	24		
All sizes	3822306	1800743	-	-	398555	73808	1253	1117	2370		

Table IV 5B(2) - Number of wells and tube wells

Size class (hect)	Total holdings		No. of wells in use				Not in use		No. of tube wells		Scheduled caste Total (8+9)
	No.	Area	With pump sets	Without pumpsets	Total (4+5)	7	8	Diesel	Electric		
1	2	3	4	5	6	7	8	9	10		
1. 0.02 - 0.99	301960	35831	NA	NA	10404	496	-	-	-		
2. 1.00 - 1.99	4123	5663	NA	NA	239	-	240	-	240		
3. 2.00 - 3.99	908	1813	NA	NA	44	-	-	-	-		
4. 4.00 - 9.99	89	455	NA	NA	-	-	-	-	-		
5. 10.00 & above	-	-	-	-	-	-	-	-	-		
All sizes	306880	43762	-	-	10587	495	240	-	455		

Table IV 5B(3) - Number of wells and tube wells

Size class (hect)	Total holdings		No. of wells in use				Not in use	No. of tube wells			Scheduled Tribe
	No.	Area	With pump sets	Without pumpsets	Total (4+5)	Diesel		Electric	Total (8+9)		
1	2	3	4	5	6	7	8	9	10		
1. 0.02 - 0.99	29071	8844	NA	NA	988	-	-	-	-		
2. 1.00 - 1.99	5624	7757	-	-	-	-	-	-	-		
3. 2.00 - 3.99	1618	4284	-	-	-	-	-	-	-		
4. 4.00 - 9.99	494	2753	-	-	-	-	-	-	-		
5. 10.00 & above	188	2952	-	-	-	-	-	-	-		
All sizes	36995	26590	NA	NA	988	-	-	-	-		

Table IV 6(1) - Irrigated and unirrigated area under crops

Size class (hect)	Total holdings		Gross cropped area						Paddy			Pepper			
	No.	Area	Irrig-		Unirri-		Total		No. of holdings	Irrig-		No. of holdings	Unirri-		Total
			gated	un-gated	gated	un-gated	gated	un-gated		gated	un-gated				
1.	2		3	4	5	6	7	8	9	10	11	12	13	14	
1. 0.02 - 0.99	3502400	435840	125550	707390	162940	331375	91935	91958	183395	349827	1429	29050	32479		
2. 1.00 - 1.99	489605	498247	196405	370842	173852	36586	77484	82590	160074	157657	1484	15021	16265		
3. 2.00 - 3.99	123622	331410	78339	308065	336605	65492	59445	63958	122383	84657	327	13549	13976		
4. 4.00 - 9.99	35827	195233	42737	163390	206067	20775	30967	27542	58509	18349	84	7811	7895		
5. 10.00 & above	3652	122240	8250	59326	107576	1329	6306	4015	10321	1497	19	1319	1337		
All sizes	3822306	1800743	390861	1649686	2040547	555557	265137	270043	535180	1131277	3402	66850	70252		

Size class (hect)	Cardamom		Arecanut		Total spices & condiments			Mango							
	No. of holdings	Irrig- gated	No. of holdings	Irrig- gated	Total	Irrig-		No. of holdings	Unirri-		Total				
						gated	un-gated		gated	un-gated					
1.	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
1. 0.02 - 0.99	3328	2	1875	1877	1228670	6926	15016	22742	8357	46741	550981505430	659	19215	19874	
2. 1.00 - 1.99	6775	20	6720	6740	167503	4439	7460	11899	6003	29201	35204	183324	94	5204	5298
3. 2.00 - 3.99	4256	13	8609	8622	79695	2967	5117	8084	3307	27375	30682	82355	49	3576	3627
4. 4.00 - 9.99	2848	1	14216	14217	21466	1090	2592	3682	1175	24619	25794	22257	41	1583	1624
5. 10.00 & above	574	-	18217	18217	1734	123	1065	1188	141	20601	20742	1664	6	197	203
All sizes	23081	36	49637	49673	1499168	15545	32050	47595	18983	148537	1675201795030	849	29777	30626	

(Table IV 6(1) contd.)

Size class (hect)	Jack				Banana				Cashewnut				Total fruits			
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated	
	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total
1	30	33	34	35	36	37	38	39	40	41	42	43	44			
1. 0.02 - 0.99	1504447	20357	1167034	4516	28534	33050	729407	1205	32994	34199	6783	100697	107480			
2. 1.00 - 1.99	187682	6029	121198	2039	9350	11389	116468	467	22509	22976	2679	43013	45692			
3. 2.00 - 3.99	84382	4523	56241	1317	4339	5656	53166	60	21651	21711	1456	34061	35517			
4. 4.00 - 9.99	22474	2090	15774	391	1864	2255	14361	2	12687	12689	446	18212	18658			
5. 10.00 & above	1670	297	1187	279	388	667	1122	190	1789	1979	491	2655	3146			
All sizes	1600655	33296	1361434	8542	44475	53017	914524	1924	91630	93554	11855	198638	210493			

Size class (hect)	Tapioca				Other food crops				Total food crops					
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated		Total	
	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total
1	45	48	49	50	51	52	53	54	55					
1. 0.02 - 0.99	1220404	9119	141099	1496	40826	42322	116690	421321	538011					
2. 1.00 - 1.99	148870	1252	45562	7900	20681	22233	88970	221047	310017					
3. 2.00 - 3.99	59570	787	27394	40852	19717	22842	67120	172485	239605					
4. 4.00 - 9.99	16708	354	11647	12110	9657	13332	36617	91677	128294					
5. 10.00 & above	834	697	1077	109	11956	12065	7076	39895	46971					
All sizes	1446386	10541	226370	719694	9957	102837	316473	946425	1262898					

(contd.)

Table IV 6(1) contd.)

Size class (haect)	Coconut				Tea				Coffee			
	No. of holdings	Irrig- gated	Unirrig- gated	Total	No. of holdings	Irrig- gated	Unirrig- gated	Total	No. of holdings	Irrig- gated	Unirrig- gated	Total
	55	57	58	59	60	61	62	63	64	65	66	67
1	2509590	38723	207184	245907	1231	39	298	337	159860	80	11784	11864
2	255009	14279	69460	93747	737	--	456	456	49593	5	10462	10467
3	136993	9524	53584	65182	328	--	415	415	28485	12	12340	12352
4	29667	1657	22478	26135	214	--	337	337	10160	3	9804	9807
5	2628	825	4183	5108	170	--	17604	17604	1223	3	4573	4576
All sizes	306157	67178	338901	426079	2650	39	19110	19149	249321	103	48963	49066

Size class	Rubber				Other non food crops				Total non food crops			
	No. of holdings	Irrig- gated	Unirrig- gated	Total	No. of holdings	Irrig- gated	Unirrig- gated	Total	Irrigated	Unirrigated	Total	
	68	69	70	71	72	73	74	75	76	77	78	
1	49906	21	52922	39613	348504	997	27219	28216	39860	286077	325937	
2	30782	95	55347	55443	53267	1035	13787	14822	15415	149520	164935	
3	45115	129	50093	55222	27232	2084	13144	15228	11819	136580	148399	
4	11588	11	32596	32607	8073	2449	6438	8887	6120	71653	77773	
5	1615	173	25101	25274	719	73	7970	8043	1174	59431	60605	
All sizes	991005	420	207720	208159	479796	6638	63558	75196	74388	703261	777640	

Table IV 6(2) - Irrigated and unirrigated area under different crops (Area in hect)

Size class (hect)	Total holdings										Gross cropped area				Paddy				Pepper				Scheduled Caste							
	No.		Area		Irrigated		Unirrigated		Total		No. of holdings		Irrigated		Unirrigated		Total		No. of holdings		Irrigated		Unirrigated		Total					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
1. 0.02 - 0.99	301960	59031	5987	32043	36030	10954	1892	2098	3990	62386	29	1916	1945																	
2. 1.00 - 1.99	4123	5663	793	4094	6087	1367	605	390	1495	1463	292	292																		
3. 2.00 - 3.99	700	1813	628	1474	2102	379	423	618	1041	293	26	26																		
4. 4.00 - 9.99	89	455	54	437	491	89	54	222	276	99	37	37																		
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-	-																		
All sizes	306880	43762	5462	38048	43510	13089	2974	3828	6602	63951	29	2271	2300																	

No. of holdings	Areca nut				Total spices & condiments				Mango					
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated		Total	
	gated	un-gated	gated	un-gated	gated	un-gated	gated	un-gated	gated	un-gated	gated	un-gated	gated	un-gated
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
101	24	24	67361	216	1325	1541	245	3265	3510	100444	9	1085	1094	
207	133	133	969	22	89	111	22	514	536	1828	4	29	33	
51	102	102	340	5	9	14	5	137	142	327	-	6	6	
-	-	-	-	89	-	1	1	38	38	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	-	-	-	
359	259	259	60759	243	1424	1667	272	3954	4226	102599	13	1120	1133	

(contd.)

(Table IV 6(2) contd.)

Size class (hect)	Jack				Banana				Cashewnut				Total fruits			
	No. of holdings		Total		No. of holdings		Total		No. of holdings		Total		No. of holdings		Total	
	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated
1	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
1. 0.02 - 0.99	49282	4	1007	1011	87531	165	1475	1640	64253	6	2374	2380	184	5941	6125	
2. 1.00 - 1.99	1771	2	49	51	1182	52	67	119	2429	8	470	478	66	615	681	
3. 2.00 - 3.99	152	-	4	4	290	177	15	192	239	-	39	39	177	64	241	
4. 4.00 - 9.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
All sizes	101205	6	1060	1066	89003	394	1557	1951	66921	14	2883	2897	427	6620	7047	
Size class (hect)	Tapioca				Other food crops				Total food crops							
	No. of holdings		Total		No. of holdings		Total		No. of holdings		Total		No. of holdings		Total	
	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated	irri-gated	Unirri-gated
1	45	46	47	48	49	50	51	52	53	54	55					
1. 0.02 - 0.99	119684	374	7929	8303	49575	67	1760	1827	2762	20993	23755					
2. 1.00 - 1.99	1360	8	382	390	823	25	283	308	726	2684	3410					
3. 2.00 - 3.99	220	-	86	86	227	-	98	98	605	1003	1608					
4. 4.00 - 9.99	-	-	-	-	-	-	-	-	54	260	314					
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-					
All sizes	121264	382	8397	8779	50625	92	2141	2233	4147	24940	29087					

(contd..)

Table IV (c.2) contd.

Size class (hect)	Cocoa				Tea				Coffee			
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated	
	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total
1	56	57	58	59	60	61	62	63	64	65	66	67
1. 0.02 - 0.99	233071	1181	3648	9829	139	-	101	101	6801	0	365	365
2. 1.00 - 1.99	2934	51	373	424	483	-	268	268	524	-	145	145
3. 2.00 - 3.99	592	23	137	160	-	-	-	-	265	-	115	115
4. 4.00 - 9.99	89	-	2	2	-	-	-	-	89	-	175	175
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-	-
All sizes	236686	1255	9160	10415	422	-	369	369	7679	0	800	800

Size class (hect)	Rubber				Other non-food crops				Total non-food crops			
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated	
	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total
1	68	69	70	71	72	73	74	75	76	77	78	78
1. 0.02 - 0.99	5340	-	762	762	33050	44	1174	1218	1225	11050	12275	12275
2. 1.00 - 1.99	510	-	536	436	548	16	188	204	67	1410	1477	1477
3. 2.00 - 3.99	99	-	153	153	151	-	66	66	23	471	494	494
4. 4.00 - 9.99	-	-	-	-	-	-	-	-	-	177	177	177
5. 10.00 & above	-	-	-	-	-	-	-	-	-	-	-	-
All sizes	5949	-	1351	1351	33749	60	1428	1488	1315	13108	14423	14423

Table IV 6(3) - Irrigated and unirrigated area under different crops (Area in hect.)

Size class (hect)	Scheduled tribe															
	Total holdings				Gross cropped area				Paddy				Pepper			
	No.	Area	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total	No. of holdings	Irrigated	Unirrigated	Total	No. of holdings	Irrigated	Unirrigated	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1. 0.02 - 0.99	29071	8844	730	8116	8846	2796	432	1120	1552	12347	11	757	768			
2. 1.00 - 1.99	5624	7757	88	5895	5983	1047	87	1629	1716	3167	-	465	465			
3. 2.00 - 3.99	1618	4284	393	3684	4077	786	393	1509	1902	1102	-	162	162			
4. 4.00 - 9.99	494	2753	215	2661	2876	307	215	1117	1332	333	-	150	150			
5. 10.00 & above	188	2952	43	3233	3276	120	43	1408	1451	188	-	50	50			
All sizes	36995	26590	1469	23589	25058	4656	1170	6783	7953	17137	11	1584	1595			

No. of holdings	Total spices & condiments													
	Cardamom				Arecaanut				Total spices & condiments				Mango	
	Irrigated	Unirrigated	Total	No. of holdings	Irrigated	Unirrigated	Total	Irrigated	Unirrigated	Total	No. of holdings	Irrigated	Unirrigated	Total
15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
48	-	1	1	8941	90	104	194	101	862	963	11911	0	215	215
136	-	9	9	2417	-	92	92	-	566	566	3597	-	69	69
53	-	5	5	917	-	24	24	-	191	191	1067	-	36	36
-	-	-	-	315	-	14	14	-	164	164	382	-	10	10
-	-	-	-	188	-	8	8	-	58	58	188	-	41	41
237	-	15	15	12778	90	242	332	101	1841	1942	17145	0	371	371

(contd..)

(Table IV 6(3) contd.)

No. of holdings	Jack				Banana				Cashewnut				Total fruits			
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated	
	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total
30	31	32	33	34	35	36	37	38	39	40	41	42	43	44		
14343	-	328	328	9096	42	392	434	8521	0	774	774	42	1709	1751		
3818	-	206	206	2461	1	68	69	2172	-	286	286	1	629	630		
1042	-	69	69	788	-	49	49	468	-	334	334	-	488	488		
382	-	35	35	274	-	4	4	73	-	9	9	-	58	58		
188	-	43	43	135	-	5	5	-	-	-	-	-	89	89		
19773	-	681	681	12754	43	518	561	11234	0	1403	1403	43	2973	3016		

No. of holdings	Tapioca				Other food crops				Total food crops				Coconut			
	Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated		Irrigated		Unirrigated	
	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total	No. of holdings	Total
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59		
9326	3	1003	1006	4934	1	486	487	579	5180	5759	16299	151	885	1036		
1551	-	196	196	1844	-	321	321	88	3341	3429	4047	-	603	603		
688	-	76	76	427	-	138	138	393	2402	2795	1206	-	191	191		
128	-	9	9	148	-	107	107	215	1455	1670	441	-	71	71		
67	-	82	82	113	-	342	342	43	1979	2022	188	-	16	16		
11760	3	1366	1369	7466	1	1394	1395	1318	14357	15675	22181	151	1766	1917		

(Table IV 6(3) contd.)

No. of holdings	Tea			Coffee			Rubber			Total	
	No. of holdings	Irrigated	Unirrigated	No. of holdings	Irrigated	Unirrigated	No. of holdings	Irrigated	Unirrigated		
											Total
60	61	62	63	64	65	66	67	68	69	70	71
61	-	24	24	8476	-	1304	1304	1652	-	399	399
-	-	-	-	3103	-	1226	1226	1055	-	511	511
-	-	-	-	1180	-	837	837	257	-	162	162
-	-	-	-	494	-	782	782	128	-	283	283
-	-	-	-	188	-	1010	1010	-	-	-	-
61	-	24	24	13441	-	5159	5159	3092	-	1355	1355

No. of holdings	Other non-food crops			Total non-food crops		
	No. of holdings	Irrigated	Unirrigated	No. of holdings	Irrigated	Unirrigated
72	73	74	75	76	77	78
3289	-	324	324	151	2936	3087
1230	-	214	214	-	2554	2554
284	-	92	92	-	1282	1282
98	-	70	70	-	1206	1206
75	-	228	228	-	1254	1254
4976	-	928	928	151	9232	9383

Sl. No.	Page number	Survey subdivision number	Geographical area	Crop 10		Crop 11		Crop 12		Crop 13		Crop 14		Crop 15		Other crops			Remarks		
				I	U	I	U	I	U	I	U	I	U	I	U	In terms of number	In terms of area				
1	2	3	4	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	

I = Irrigated
U = Unirrigated

Name & Signature of
Revenue Inspector

Name & Signature of
Village Assistant

989 (D)

