

# THE NATIONAL SAMPLE SURVEY

EIGHTH ROUND : JULY 1954—APRIL 1955

NUMBER 30

REPORT ON LAND HOLDINGS (2)  
(OPERATIONAL HOLDINGS IN RURAL INDIA)



सत्यमेव जयते



Issued by

The Cabinet Secretariat : Government of India

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## ACKNOWLEDGEMENT

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# THE NATIONAL SAMPLE SURVEY

EIGHTH ROUND : JULY 1954—APRIL 1955

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## REPORT ON LAND HOLDINGS (2) (OPERATIONAL HOLDINGS IN RURAL INDIA)

*The Report on Land Holdings (2) (Operational Holdings in Rural India) was prepared by the Indian Statistical Institute and is being published in the form in which it was submitted to the Government of India. The views contained in this report are not necessarily those of the Government of India.\**

### CHAPTER ONE

#### INTRODUCTION

1.1. An extensive survey of land holdings sponsored by the Ministry of Food and Agriculture, Government of India, was undertaken by the National Sample Survey (NSS) in its eighth round (July 1954—April 1955), as a part of the World Agricultural Census (1950) instituted by the World Food and Agricultural Organisation (FAO). One of the principal objectives of the survey was to provide estimates of number of holdings according to size-classification and the details of tenancy, livestock population, land utilization etc., required by the FAO programme. The programme aimed at obtaining these data for different countries so as to fill up the lacunae in agricultural statistics, as also to make them internationally comparable. The Planning Commission of the Government of India also desired the survey to cover additional topics of rural economic interest *e.g.*, ownership holdings and land leased out. The present report, however, deals principally with the requirements of FAO.

1.2. The concepts and definitions adopted, and the general plan of the survey were settled at a Conference of the Central and State Statisticians, held in the Indian Statistical Institute (ISI), Calcutta, in March 1954 after detailed discussions between the NSS, the Ministry of Food and Agriculture, the Planning Commission and the Central Statistical Organisation.

1.3. The survey was marked by the participation of the different States for the first time since the inception of NSS. A larger number of villages could, thus, be included in the sample without increasing the investigating staff of the NSS.

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\* The draft Report (No. **D. 30**) was submitted to the Government of India in September 1958.



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1.4. The geographical coverage of the survey extended to the whole of India excluding the Andaman and Nicobar islands and Sikkim. The State of Jammu and Kashmir was included in this round for the first time in the NSS. The survey was conducted in rural as well as urban areas. This report gives the results relating to the rural sector only, the rural sector being defined as the aggregate of households residing in rural areas.

1.5. In the rural sector, a sample of 4456 villages was selected for the enquiry. Of this, about one-third (1424 villages) constituting the Central sample was surveyed by the investigating staff of the Directorate of NSS, Government of India in all the States except West Bengal, where the investigation was carried out by ISI. The remaining sample villages allotted to the State sample were surveyed by the staff recruited from the Revenue and Agricultural Departments of the respective State Governments. The investigators connected with each of the samples, Central and State, were grouped into two parties, each party surveying half of the number of villages in the sample. The detailed instructions relating to the field work prepared by the technical wing of the NSS were discussed in a meeting of the supervisory staff of the Central and State Governments held in the ISI in July 1954.

1.6. The field work for land holdings enquiry was started in August 1954 and it continued up to April 1955. However, the survey in the Ladakh district in Jammu and Kashmir was started only in August 1955 by the State Government and it ended in November 1955.

1.7. The particulars on land holdings were collected by interviewing the sample households. Land records were made use of, wherever possible, in verifying the information so obtained regarding ownership and operation of land. This necessitated revisits to the households to reconcile the discrepant cases. This report is based on the reconciled data so obtained. It may be noted here that land held by non-household agencies was not taken into account.

1.8. The information collected in this enquiry referred to the major crop season in the agricultural year July 1953 to June 1954. The major crop season in a locality was taken to be that season in which the largest area in that locality was brought under cultivation.

1.9. In the 'First Report on Land holdings' (NSS Report No. 10) some information on household ownership holdings and household operational holdings were given, based on only two sub-samples of Central sample. This report restricts itself to some features of operational holdings and 'household operational holdings' in rural India and some of their principal characteristics based on the total sample. The results on operational holdings for different population zones will be discussed separately in another report.

## CHAPTER TWO

### SAMPLING DESIGN, CONCEPTS AND DEFINITIONS

2.1. For the survey in the rural sector, a stratified two-stage sampling procedure was adopted with villages selected as the first-stage sampling units generally with probability proportional to population and with replacement and the households within villages, selected systematically, after suitable stratification as the second-stage sampling units. It was decided to take a sample of 4456 villages, 1424 constituting the Central sample, and the remaining the State sample. In the Central sample, 80 villages were allotted to Jammu and Kashmir and the remaining 1344 villages were allocated to the different States on a joint consideration of the relative agricultural population (excluding agricultural labour) and total area under cereal crops in 1952-53 in the respective States. The allotted number of sample villages in each State was then rounded off to a multiple of 4 so as to form 4 independent sub-samples. The size of the State sample was generally twice that of the Central sample. But this principle was modified in the case of a few States where it was considered necessary to make the size of the State sample either equal to or a higher multiple (3 times or more) of that of the Central sample.

2.2. The number of sample villages allotted to a State was distributed to different Natural Divisions (Population Census 1951) within the State in proportion to agricultural population (excluding agricultural labour) with the restriction that the number of sample villages allotted to any natural division, was a multiple of 4. A set of tehsils within a natural division, more or less homogeneous in regard to net cropped area per head of agricultural population (excluding the agricultural labour), formed the ultimate sampling stratum. The limits for the measure of homogeneity were so fixed as to give more or less equal volume of agricultural population in each stratum. For some tehsils in some Natural Divisions, figures of net cropped area were not available. Separate strata had been formed with such tehsils using geographical area per head of agricultural population as the measure of homogeneity. There were altogether 356 ultimate strata in the whole of rural India and from each stratum 4 sample villages were selected with probability proportional to population (or geographical area in the absence of the population figures) and with replacement so as to form 4 independent sub-samples of the Central sample. The villages constituting the State sample were also drawn from the same strata, the total number from each stratum being the exact multiple (multiple being usually two) of the number of villages drawn for the Central sample in each State.

2.3. The households within the sample villages were then classified into three types on a joint consideration of the amount of land operated (possessed), of

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land owned and the principal means of livelihood. These three types were

1. households owning or operating a specified size or more of land irrespective of their livelihood classes ;
2. households owning and operating land less than the specified size and belonging to the agricultural livelihood classes, namely cultivating owners of land, non-owning cultivators and non-cultivating owners ;
3. households owning and operating land less than the specified size and belonging to non-agricultural livelihood classes and agricultural labour.

The specified size, as mentioned above, was determined from the data collected in the fifth round of NSS and it differed from State to State but came to be more or less the same for operation as well as ownership of land for each State. For convenience, however, the specified size was taken to be the same for ownership as well as operation in a State. For stratification of households, a complete listing of all the households in a sample village was done wherein broad information on whether the households owned more than the specified size or less, operated more than the specified size or less and on the principal means of livelihood of the households was collected.

2.4. From each household type in a sample village, the sample households were selected systematically with a random start and an interval. The sampling interval for each household type was so fixed as to give 20-24 sample households per village, distributed over different household types ensuring adequate representation of each type and making the sample self-weighting for each household type over a stratum or a group of strata.

2.5. Altogether 4431 sample villages were surveyed out of a total of 4456 sample villages. The remaining 25 sample villages, of which 14 belonged to the Central sample and the remaining to the State sample, could not be surveyed. As all the villages of the Central sample in Ladakh district of Jammu and Kashmir could not be surveyed, the estimates given in this report on the basis of the Central sample do not cover this district. Out of 75720 sample households contacted in the land holdings enquiry, 24366 sample households were surveyed by the NSS investigators and the remaining 51354 households by the investigating staff of the different participating States. It may be mentioned that in tabulation of data, repeated households were taken into account as many times as they were selected.

2.6. The concepts and definitions adopted in the survey are as follows.

2.7. *Household* : For general NSS enquiries, a household was defined as a group of persons usually living together and taking their principal meals from a common kitchen for at least 16 days (any 16 days) out of a period of 30 days preceding the date of enquiry. Each individual member residing in a boarding house or hotel and taking meals for 16 days within a period of 30 days preceding the date of enquiry constituted a separate household. Persons living in jails, hospitals, nursing homes, military messing units, relief camps etc. were left out from the scope of the enquiry.

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2.8. In recording the particulars of land owned and operated by a household, lands relating to only usual members were considered. Besides, land relating to usual absentee members (i.e., absent for more than 14 days out of 30 days preceding the date of enquiry), were included provided they did not constitute separate households elsewhere. But members of the household like domestic servants, private tutors etc., deemed as casual (i.e., not usual) members were not considered in preparing the inventory of land. However, in some rare cases, when such casual members did not belong to any other household as usual (absentee) members, their lands were included.

2.9. *Ownership of land* : A person was considered to own a plot of land, if he had the right of permanent heritable possession with or without right to transfer the title. A plot of land might be leased out to another person by the owner of the plot without losing the right of permanent heritable possession.

2.10. *Operational holding* : All lands whether cultivable or not, directed or managed by one or more persons alone or with the assistance of others without any regard to title, location and size constituted an operational holding. It might consist of one or more parcels of land situated in the same village or in different villages provided they came under the management of one distinct technical and economic unit, that is an operational unit. Thus an operational holding included land owned and operated and land leased in by the management of the operational holding. It might be noted that some operational holdings were constituted by land, which were entirely used for non-agricultural purposes.

2.11. *Individual and joint operational holding* : An operational holding managed by persons belonging to only one household was considered to be an individual operational holding and that managed jointly by two or more persons belonging to different households was taken to be a joint operational holding. In case of households having an individual operational holding, all land owned but not leased out as well as land taken on lease by the household relating to that holding were taken into account. When a household operated a holding jointly with other households, the details in respect of all land under the possession of the management were collected from the household. Particulars, even of those plots possessed by co-partner households coming under the joint management were thus included in the inventory. In estimating the number of joint operational holdings and area under them, due consideration was given to the number of households participating in the management of the joint holdings.

2.12. *Household operational holding* : All lands under the possession of a household constituted the household operational holding. The area of the household operational holding was taken to be the sum of the areas of all individual operational holdings managed by the household together with a part of each of the joint operational holdings, the part being determined on the assumption that all the co-partner households in a joint operational holding had equal share of land. Some households, it

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may be noted, might have joint operational holdings only, or individual as well as joint operational holdings; others might have one or more individual operational holdings. Thus the total number of household operational holdings would not necessarily be equal to the number of operational holdings.

2.13. *Land leased in* : The land possessed by the management of operational holding but not owned by it constituted 'land leased in'. The land might be taken on lease with formal contract or without any formal contract, on payment of rent in cash or in kind.

2.14. *Non-occupancy tenancy types* : The area leased in by the management of an operational holding might have been taken under different terms of contract and different modes of payment of rent. The major types of non-occupancy tenancy are

(a) *land rented in with formal lease contract on payment of*

- (i) cash rent
- (ii) fixed crop rent
- (iii) proportionate crop rent

(b) *land rented in without formal contract on payment of*

- (i) cash rent
- (ii) fixed crop rent
- (iii) proportionate crop rent

(c) *other types* : e.g. land possessed (not owned) in lieu of services etc.

CHAPTER THREE

SUMMARY RESULTS

3.1. The relative variation between the number of holdings and their corresponding areas in terms of percentages, shown against different holding sizes is what is depicted in the Table (3.1) and makes an interesting study. The numbers and areas are given not only for operational holdings and household operational holdings, but also for household ownership holdings which comprised all lands owned by the households.

3.2. According to the concepts adopted in the enquiry, each household possessed a 'household ownership holding' and a 'household operational holding'. Again, a household might have one or more operational holdings, individually or jointly operated.

TABLE (3.1) : PERCENTAGE DISTRIBUTIONS OF NUMBER OF HOLDINGS AND AREA OF LAND UNDER THEM BY SIZE OF HOLDING, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	household owner- ship holding <sup>1</sup>		operational holding		household opera- tional holding	
	number	area	number	area	number	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>2</sup>	23.09	—	10.96	—	10.87	—
2. 0.01 — 0.99	24.17	1.37	31.12	1.20	30.68	1.24
3. 1.00 — 2.49	13.98	4.86	14.07	4.38	14.57	4.66
4. 2.50 — 4.99	13.49	10.09	15.08	10.02	15.52	10.65
5. 5.00 — 9.99	12.50	18.40	14.19	18.56	14.28	19.14
6. 10.00 — 24.99	9.17	29.11	10.36	29.22	10.08	29.18
7. 25.00 — 49.99	2.66	18.63	3.12	19.54	3.00	19.30
8. 50.00 and above	0.94	17.54	1.10	17.08	1.00	15.83
9. total	100.00	100.00	100.00	100.00	100.00	100.00
10. estimated number of holdings (000)	63532	—	61780	—	63532	—
11. estimated area (000 acres)	—	305431	—	335711	—	335711

<sup>1</sup> The figures are based on total sample and hence differ from those (based on only two Central sub-samples) given in NSS Report No. 10.

<sup>2</sup> Includes holdings of size less than 0.005 acre.

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3.3. Even though a 'household operational holding' was conceptually different from an operational holding, their distribution over the scale of holding sizes exhibited remarkably similar pattern. It is seen from the table that 23 per cent of ownership holdings were each of size less than 0.005 acre, while for the same size, the number of household operational holdings were only 11 per cent. The difference of 12 per cent may very well mean that these 12 per cent of households (belonging to column 2) took some amount of land on lease for operation and therefore were listed on a higher scale in column (6). It is observed that the estimate of the total area operated exceeded the total area owned by the rural households by 30280 thousand acres. This excess is mainly due to the areas taken on lease by rural households from non-household agencies and the urban households.

3.4. *Operational holding*: In rural India, as is seen from Table (3.2), the number of operational holdings was estimated at 62 million, 11 per cent of which were of size less than 0.005 acre. Of the 336 million acres of operated land, one-fifth was taken on lease by the management of operational holdings. The average size of an operational holding was estimated to be 5.43 acres. Slightly less than three-fourths of all holdings were of size below this average and they together accounted for more than one-sixth of the total area operated. Ignoring the very small holdings (of size less than 0.005 acre) the operational holding was found to be of an average size of 6.10 acres.

TABLE (3.2): ESTIMATED NUMBER OF OPERATIONAL HOLDINGS AND AREA OPERATED, MAJOR CROP SEASON  
1953-1954

number of sample villages : 4431    number of sample households : 75720

item	estimate	percentage
(1)	(2)	(3)
1. number of holdings (000)		
(i) of size less than 0.005 acre	6768	10.96
(ii) of size 0.005 acre or more	55012	89.04
(iii) total	61780	100.00
2. area (000 acres)		
(i) owned and operated	267432	79.66
(ii) leased in and operated	68279	20.34
(iii) total	335711	100.00
3. average size of an operational holding (acres) <sup>1</sup>		
	5.43	(6.10)
4. percentage of operational holdings of size below the average		
	72.76	
5. percentage of total area operated under holdings of size below the average		
	17.35	

<sup>1</sup> Figure in brackets is obtained by omitting holdings of size less than 0.005 acre.

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3.5. Table (3.3) shows that 95 per cent of operational holdings was individually operated, jointly operated holdings being only 5 per cent of the total. The area covered by joint holdings was of the order of 9 per cent of total area operated. The average size of a joint operational holding (9.92 acres) was substantially higher than that of an individual operational holding (5.21 acres).

TABLE (3.3) : ESTIMATED NUMBER OF INDIVIDUAL AND JOINT OPERATIONAL HOLDINGS AND THEIR RESPECTIVE AREAS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431    number of sample households : 75720

item	estimate	percentage
(1)	(2)	(3)
1. number of holdings (000)		
(i) individual	58822	95.21
(ii) joint	2958	4.79
(iii) total	61780	100.00
2. area operated (000 acres)		
(i) individually	306360	91.26
(ii) jointly	29351	8.74
(iii) total	335711	100.00
3. average size (acres) <sup>1</sup>		
(i) individual holding		5.21 (5.88)
(ii) joint holding		9.92 (9.96)

<sup>1</sup> Figures in brackets are obtained by omitting holdings of size less than 0.005 acre.

3.6. Table (3.4) shows that out of 55 million operational holdings of size 0.005 acre or more, 60 per cent were entirely owned and about 17 per cent entirely leased in. 23 per cent of the holdings were of the mixed type i.e., partly owned and partly leased in.

TABLE (3.4) : ESTIMATED NUMBER OF ENTIRELY OWNED AND ENTIRELY LEASED IN OPERATIONAL HOLDINGS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431    number of sample households : 75720

operational holdings	estimate (000)	percentage
(1)	(2)	(3)
1. entirely owned	33093	60.15
2. entirely leased-in	9317	16.94
3. mixed	12602	22.91
4. total <sup>1</sup>	55012	100.00
5. reporting land owned <sup>2</sup>	45695	83.06
6. reporting land leased-in <sup>3</sup>	21919	39.84

<sup>1</sup> Excludes holdings of size less than 0.005-acre.

<sup>2</sup> item 5 = item (1) + item (3).

<sup>3</sup> item 6 = item (2) + item (3).



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3.7. *Non-occupancy tenancy*: From the preceding tables (3.2) and (3.4), it can be seen that 22 million holdings reported 68 million acres of leased-in area. In table (3.5) breakdowns of these figures under different types of non-occupancy are given. A holding, it is to be noted, included leased in land which might have been taken on formal as well as informal contract on payment of rent in cash or in kind.

TABLE (3.5): ESTIMATED NUMBER OF OPERATIONAL HOLDINGS UNDER DIFFERENT NON-OCCUPANCY TENANCY TYPES WITH RELATED AREAS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

non-occupancy tenancy type	estimate		percentage		average area per reporting holding (acres)
	holdings <sup>1</sup> reporting (000)	area leased-in (000 acres)	holdings reporting	area leased-in	
(1)	(2)	(3)	(4)	(5)	(6)
1. formal lease contract on payment of					
(i) cash rent	3325	11221	15.17	16.43	3.37
(ii) fixed crop rent	975	2974	4.45	4.36	3.05
(iii) proportionate crop rent	1553	6226	7.09	9.12	4.01
(iv) sub-total	—	20421	—	29.91	—
2. without formal lease contract on payment of					
(i) cash rent	3023	11260	13.79	16.49	3.72
(ii) fixed crop rent	770	2363	3.51	3.46	3.07
(iii) proportionate crop rent	4568	18730	20.84	27.44	4.10
(iv) sub-total	—	32353	—	47.39	—
3. other types	9278	11699	42.33	17.13	1.26
4. terms not specified	1720	3806	7.85	5.57	2.21
5. all types	21919	68279	100.00	100.00	3.12

<sup>1</sup> Excluding holdings of size less than 0.005 acre.

*Note*: The sum of holdings reporting different types will be greater than number of holdings taken on lease.

3.8. In about 37 per cent of the total area taken on lease, rent was payable in proportionate share of the produce. One-third of the total area taken on lease was on payment of cash rent, half of which was with formal contract and half taken informally. The average area leased in per reporting holding was 4 acres in the case of leasing in on payment of proportionate crop rent irrespective of the nature of contract.

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3.9. *Livestock* : Some particulars regarding livestock are given in Table (3.6).

TABLE (3.6) : ESTIMATED LIVESTOCK NUMBERS OWNED UNDER  
DIFFERENT CATEGORIES AND NUMBERS PER 100  
HOUSEHOLDS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

livestock	estimate (000)	number per 100 households	percentage
(1)	(2)	(3)	(4)
1. bull and bullock	90674	143	57.76
2. cow	66301	104	42.24
3. cattle (1-2)	156975	247	100.00
4. he-buffalo	10959	17	26.44
5. she-buffalo	30482	48	73.56
6. buffalo (4-5)	41441	65	100.00
7. sheep	34527	54	—
8. goat	40116	63	—

3.10. The households in rural India owned 157 million cattle, 41 million buffaloes, 35 million sheep and 40 million goats. The total livestock under the ownership of 100 rural households was 429, 58 per cent of which was cattle.

3.11. *Poultry* : Total poultry owned by rural households was estimated at about 54 million, 70 per cent of which were female birds, as can be seen from Table (3.7)

TABLE (3.7) : ESTIMATED NUMBER OF BIRDS (POULTRY) OWNED  
AND THE NUMBER PER 100 HOUSEHOLDS, MAJOR CROP  
SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

poultry	estimate (000)	percentage	number per 100 households
(1)	(2)	(3)	(4)
1. male birds	16228	30.28	25
2. female birds	37370	69.72	59
3. total	53598	100.00	84

*National Sample Survey*

3.12. *Agricultural Implements* : The estimated number of ploughs, harrows, tractors and oil-engines owned by rural households are given in Table (3.8). It should be noted that since tractors and oil-engines are rather rarely owned by rural households, their estimates are liable to large sampling errors.

TABLE (3.8): ESTIMATED NUMBER OF AGRICULTURAL IMPLEMENTS AND NUMBER PER 100 HOUSEHOLDS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431    number of sample households : 75720

agricultural implements	estimate (000)	number owned per 100 households
(1)	(2)	(3)
1. plough (wooden)	43782	68.91
2. plough (iron)	1822	2.87
3. plough : total	45604	71.78
4. harrow	23160	36.45
5. tractor	21	0.03
6. oil engine	175	0.28

CHAPTER FOUR

OPERATIONAL HOLDINGS

4.1. An operational holding was constituted by all land under the purview of a single management. It might, thus, have cultivable as well as uncultivable land and also land put to non-agricultural uses. The importance of classifying holdings by size need hardly be emphasized in view of its significance in land economics. This chapter is devoted to a discussion of the distribution of land operated and also to assess the extent of joint operation of land in rural India.

4.2. *Number of operational holdings and area operated*: An operational holding might be operated individually or jointly. In preparing the estimates of number of operational holdings and area operated, shown in Table (4.1), due consideration was given to the number of households participating in the management of joint holdings. The Central and State sample estimates are presented separately to give some idea about the reliability of these estimates. The combined estimates obtained from the Central and State samples can be used with more confidence.

TABLE (4.1): DISTRIBUTION OF OPERATIONAL HOLDINGS AND AREA OPERATED BY SIZE OF OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

holding size (acres)	Central sample		State sample		combined	
	number (000)	area (000 acres)	number (000)	area (000 acres)	number (000)	area (000 acres)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	3845	—	8225	—	6768	—
2. 0.01 — 0.99	22474	4198	17706	3947	19224	4038
3. 1.00 — 2.49	8974	15212	8548	14412	8692	14686
4. 2.50 — 4.99	9932	36112	8998	32458	9315	33678
5. 5.00 — 7.49	5862	35769	5201	31871	5415	33158
6. 7.50 — 9.99	3570	30856	3264	28349	3356	29136
7. 10.00 — 14.99	3455	42354	3458	41916	3443	41921
8. 15.00 — 19.99	2064	35747	1866	32096	1925	33283
9. 20.00 — 24.99	1085	24114	1013	22369	1032	22924
10. 25.00 — 29.99	736	20139	709	19156	709	19428
11. 30.00 — 49.99	1170	44729	1240	46851	1215	46151
12. 50.00 and above	709	58921	688	56617	686	57308
13. total	63876	348151	60916	330042	61780	335711
14. average size <sup>2</sup> (acres)		5.45 (5.80)		5.42 (6.26)		5.43 (6.10)
15. number of sample villages	1410		3021		4431	
16. number of sample households	24366		51354		75720	

<sup>1</sup> Operational holdings of size less than 0.005 acre are shown in this class.

<sup>2</sup> Figures in brackets are obtained by omitting holdings of size less than 0.005 acre.

*National Sample Survey*

4.3. The table shows good agreement between the total estimates of Central and State samples. Though the agreement is poor in both the size-classes of holdings below 1 acre, the merged figures of these two size-classes show a fair agreement. Taking the combined figures, out of 61780 thousand operational holdings, 19224 thousand holdings were in the size class 0.01 to 0.99 acre.

4.4. The extent of concentration of land in large holdings can be seen better from the cumulative percentage figures shown in Table (4.2).

TABLE (4.2): CUMULATIVE PERCENTAGE DISTRIBUTIONS BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS AND AREA OPERATED, MAJOR CROP SEASON 1953-1954

holding size (acres)	cumulative percentages					
	Central sample		State sample		combined	
	holdings	area	holdings	area	holdings	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	6.02	—	13.51	—	10.96	—
2. up to 1.00	41.19	1.20	42.58	1.20	2.08	1.20
3. „ 2.50	55.24	5.57	56.61	5.57	56.15	5.58
4. „ 5.00	70.79	15.94	71.39	15.40	71.23	15.60
5. „ 7.50	79.97	26.21	79.93	25.06	79.99	25.48
6. „ 10.00	85.56	35.07	85.29	33.65	85.42	34.16
7. „ 15.00	90.97	47.24	90.97	46.36	90.99	46.64
8. „ 20.00	94.20	57.51	94.03	56.08	94.11	56.55
9. „ 25.00	95.90	64.44	95.69	62.86	95.78	63.38
10. „ 30.00	97.05	70.22	96.85	68.66	96.93	69.17
11. „ 50.00	98.88	83.07	98.88	82.85	98.90	82.92
12. all sizes	100.00	100.00	100.00	100.00	100.00	100.00
13. estimated number of holdings (000)	63876	—	60916	—	61780	—
14. estimated area operated (000 acres)	—	348151	—	330042	—	335711
15. number of sample villages	1410		3021		4431	
16. number of sample households	24366		51354		75720	

<sup>1</sup> Operational holdings of size less than 0.005 acre are shown in this class.

4.5. From the combined estimates, it will be seen that, about 11 per cent of the total number of holdings were of size less than 0.005 acre. 42 per cent of holdings up to size 1 acre held only 1 per cent of total land. 71 per cent of the holdings were below 5 acres each and these together held about 16 per cent of total land. At the other extreme, 1 per cent of holdings with sizes 50 acres or over held 17 per cent of total land.

*Report on Land Holdings (2)*

4.6. *Extent of joint operation* : Table (4.3) shows the extent of joint operation in the rural areas.

TABLE (4.3) : PERCENTAGES OF INDIVIDUAL AND JOINT OPERATIONAL HOLDINGS AND THEIR SHARES OF AREA BY SIZE OF OPERATIONAL HOLDING, MAJOR CROP SEASON : 1953-1954

number of sample villages : 4431

number of sample households : 75720

	holding size (acres)	total holdings (000)	percentage of holdings		total area operated (000 acres)	percentage of area operated	
			indivi- dual	joint		indivi- dually	jointly
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.00 <sup>1</sup>	6768	99.84	0.16	—	—	—
2.	0.01— 0.99	19224	96.79	3.21	4038	94.87	5.13
3.	1.00— 2.49	8692	94.73	5.27	14686	94.76	5.24
4.	2.50— 4.99	9315	94.76	5.24	33678	94.75	5.25
5.	5.00— 7.49	5415	94.05	5.95	33158	93.96	6.04
6.	7.50— 9.99	3356	92.94	7.06	29136	92.88	7.12
7.	10.00—14.99	3443	92.04	7.96	41921	91.97	8.03
8.	15.00—19.99	1925	90.03	9.97	33283	89.93	10.07
9.	20.00—24.99	1032	91.76	8.24	22924	91.78	8.22
10.	25.00—29.99	709	90.97	9.03	19428	90.89	9.11
11.	30.00—49.99	1215	89.71	10.29	46151	89.76	10.24
12.	50.00 and above	686	87.61	12.39	57308	87.03	12.97
13.	total	61780	95.21	4.79	335711	91.26	8.74

<sup>1</sup> Operational holdings of size less than 0.005 acre are shown in this class.

4.7. About 5 per cent of holdings in rural India were operated jointly and these held about 9 per cent of the total operated area. Among 6768 thousand holdings of size less than 0.005 acre, almost all holdings were individually operated. The proportions of joint holdings showed an upward trend with the increase in size of holdings. Proportions of areas also increased correspondingly.

4.8. Tables (1) to (7) in Appendix III show further details in regard to operational holdings.

CHAPTER FIVE

LAND TAKEN ON LEASE

5.1. In addition to possession of land through ownership, lands were taken on lease by the management of the holding. An operational holding might thus include area owned as well as area taken on lease.

5.2. An operational holding was constituted by plots of land, all of which might be owned by the management of the holding or all of which might have been taken on lease or some might be owned by the management and some taken on lease. An operational holding could thus be purely owned or purely leased in or of a mixed type (i.e., partly owned and partly leased in). These are the three mutually exclusive classes into which the aggregate of operational holdings has been categorised. Table (5.1) gives the estimated number of operational holdings excluding those of size less than 0.005 acre by the types mentioned. The figures are given separately for each of the samples.

TABLE (5.1): ESTIMATED NUMBER OF OPERATIONAL HOLDINGS UNDER DIFFERENT TYPES AND AREA TAKEN ON LEASE, MAJOR CROP SEASON 1953-1954

item	Central sample	State sample	combined
(1)	(2)	(3)	(4)
1. number of holdings <sup>1</sup> (000)			
(i) entirely owned	31799	33874	33093
(ii) entirely leased in	12257	7971	9317
(iii) mixed	15975	10846	12602
(iv) total	60031	52691	55012
(v) reporting land owned <sup>2</sup>	47774	44720	45695
(vi) reporting land leased in <sup>3</sup>	28232	18817	21919
2. area operated (000 acres)			
(i) owned	266312	268445	267432
(ii) leased in	81839	61597	68279
(iii) total	348151	330042	335711
3. number of sample villages	1410	3021	4431
4. number of sample households	24366	51354	75720

<sup>1</sup> Holdings of size less than 0.005 acre are excluded.

<sup>2</sup> Item 1(v) = item 1(i) + item 1(iii).

<sup>3</sup> Item 1(vi) = item 1(ii) + item 1(iii).

5.3. The table reveals a good agreement between the two samples in the case of the estimates of area owned and operated and the number of entirely owned holdings. The estimates of number of entirely leased in holdings and area leased in are to be used with caution in view of the large divergence between the estimates provided by the two agencies. The estimates based on both the samples taken

*Report on Land Holdings (2)*

together show that out of 55012 thousand operational holdings, three-fifths were entirely owned and only 9317 thousand were entirely taken on lease. Each of the 12602 thousand holdings was partly owned and partly leased in. 45695 thousand operational holdings, being the sum of entirely owned and partially owned holdings, reported owned areas and they had 267432 thousand acres of owned land, as can be seen from the table against the item 'area operated—owned'. Similarly, 21919 thousand holdings comprising the sum of entirely leased in and partially leased-in holdings constituted the total estimated number of leased-in holdings. The area taken on lease by these 21919 thousand holdings was 68279 thousand acres given in the table against the item 'area operated—leased in'. A separate breakdown of area for the 'mixed' type of holdings could not for various reasons be computed. About four-fifths of the total area operated were owned and one-fifth taken on lease.

5.4. The estimated number of holdings belonging to different types, distributed over various size classes of holdings is shown in Table (5.2).

TABLE (5.2): ESTIMATED NUMBER OF OPERATIONAL HOLDINGS  
UNDER DIFFERENT TYPES BY SIZE OF OPERATIONAL  
HOLDING, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	number of operational holdings (000)			
	total	entirely owned	entirely leased-in	mixed
(1)	(2)	(3)	(4)	(5)
1. 0.01— 0.99	19224	11723	6006	1495
2. 1.00— 2.49	8692	5229	1074	2389
3. 2.50— 4.99	9315	5424	944	2947
4. 5.00— 7.49	5415	3212	484	1719
5. 7.50— 9.99	3356	2030	225	1101
6. 10.00—14.99	3443	2125	231	1087
7. 15.00—19.99	1925	1159	143	623
8. 20.00—24.99	1032	638	62	332
9. 25.00—29.99	709	437	29	243
10. 30.00—49.99	1215	714	91	410
11. 50.00 and above	686	402	28	256
12. total	55012	33093	9317	12602
13. average size of operational holding (acres)	6.10	6.07	2.57	8.79

Note : 1. Holdings of size less than 0.005 acre are excluded.

2. The average size of holding under each type is the weighted mean  $\frac{\sum f_i x_i}{\sum f_i}$ , where  $x_i$  is the mid-point of the  $i$ th size-class and  $f_i$  is the number of holdings reporting under that type. Adjustments have been made in the marginal totals ( $\sum f_i x_i$ ) of each type after adjusting the total area operated.



*National Sample Survey*

5.5. It can be seen from the distribution that the number of entirely owned holdings and the entirely leased-in holdings were maximum in the size class 0.01—0.99 acre. The largest number of mixed holdings were, however, in the size class 2.50—4.99 acres. The average size of the entirely owned holdings was 6.07 acres, almost the same as that of an average operational holding (6.10 acres). The entirely leased-in holding was of an average size of only 2.57 acres. The mixed holding was, on the average, substantially of a larger size than any of the two types.

5.6. Table (5.3) gives the percentages of the estimated number of holdings under three types below specified sizes of operational holdings.

TABLE (5.3): CUMULATIVE PERCENTAGES OF ESTIMATED NUMBER  
OF OPERATIONAL HOLDINGS UNDER EACH TYPE BY SPECIFIED  
SIZE LIMITS OF OPERATIONAL HOLDINGS, MAJOR  
CROP SEASON 1953-1954

number of sample villages : 4431                      number of sample households : 75720

holding size (acres)			cumulative percentage of operational holdings				
			total	entirely owned	entirely leased in	mixed	
(1)	(2)	(3)	(4)	(5)			
1.	up to	1.00	34.94	35.43	64.47	11.86	
2.	„	2.50	50.75	51.23	76.00	30.81	
3.	„	5.00	67.68	67.62	86.13	54.20	
4.	„	7.50	77.52	77.33	91.32	67.84	
5.	„	10.00	83.62	83.46	93.93	76.58	
6.	„	15.00	89.88	89.88	96.21	85.22	
7.	„	20.00	93.38	93.38	97.74	90.16	
8.	„	25.00	95.26	95.31	98.41	92.79	
9.	„	30.00	96.55	96.63	98.72	94.72	
10.	„	50.00	98.76	98.79	99.70	97.97	
11.	all sizes		100.00	100.00	100.00	100.00	
12.	estimated number of operational holdings (000)		55012	33093	9317	12602	

*Note* : Holdings of size less than 0.005 acre are excluded.

5.7. It is seen that the distribution of the entirely owned holdings resembles the pattern of the distribution of the total operational holdings according to size. Considering the holdings of size less than 2.50 acres, it is seen that while more than three-fourths of the entirely leased-in holdings were covered by this size, only a little more than half of the entirely owned holdings were less than this size.

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5.8. Table (5.4) gives the proportion of the different types of holdings among the total holdings for each size-class.

TABLE (5.4) : PERCENTAGE OF OPERATIONAL HOLDINGS UNDER EACH TYPE TO TOTAL NUMBER OF OPERATIONAL HOLDINGS FOR EACH SIZE CLASS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

	holding size (acres)	total holdings (000)	percentage of holdings		
			entirely owned	entirely leased in	mixed
	(1)	(2)	(3)	(4)	(5)
1.	0.01— 0.99	19224	60.98	31.24	7.78
2.	1.00— 2.49	8692	60.16	12.36	27.48
3.	2.50— 4.99	9315	58.23	10.13	31.64
4.	5.00— 7.49	5415	59.32	8.94	31.74
5.	7.50— 9.99	3356	60.49	6.70	32.81
6.	10.00—14.99	3443	61.72	6.71	31.57
7.	15.00—19.99	1925	60.21	7.43	32.36
8.	20.00—24.99	1032	61.82	6.01	32.17
9.	25.00—29.99	709	61.64	4.09	34.27
10.	30.00—49.99	1215	58.77	7.49	33.74
11.	50.00 and above	686	58.60	4.08	37.32
12.	total	55012	60.15	16.94	22.91

5.9. It is interesting to note that whatever be the size-class of operational holdings, roughly 60 per cent of the holdings in that specified class was entirely owned. Among holdings of size 2.50 acres to 50 acres, in each of the size-classes, the mixed holdings accounted for more or less one-third of the total holdings.

5.10. In the previous paragraphs, some important features relating to the three types of operational holdings have been discussed. It is, nevertheless, important to examine and study the distribution of the areas of these holdings under the categories 'leased-in areas' and 'owned areas' over different sizes. It may be recalled here that the number of holdings reporting area leased in will be the total of number of the entirely leased-in holdings and the mixed holdings. Similarly, the number of holdings reporting area owned is comprised of the entirely owned holdings and the mixed holdings.

*National Sample Survey*

5.11. The pattern of distribution of the area owned and the area leased in can be traced from the Table (5.5). It should be noted that the figures given in this table exclude holdings of size less than 0.005 acre.

TABLE (5.5) : CUMULATIVE PERCENTAGE DISTRIBUTIONS OF OPERATIONAL HOLDINGS REPORTING AREAS 'OWNED' AND 'LEASED IN' AND OF AREAS OWNED AND LEASED IN BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	cumulative percentages					
	holdings			area operated		
	total	report- ing area owned	report- ing area leased in	total	owned	leased in
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. up to 1.00	34.94	28.92	34.22	1.20	1.09	1.69
2. „ 2.50	50.75	45.60	50.02	5.58	5.12	7.42
3. „ 5.00	67.68	63.92	67.78	15.60	14.56	19.77
4. „ 7.50	77.52	74.71	77.83	25.48	24.23	30.45
5. „ 10.00	83.62	81.56	83.88	34.16	32.91	39.11
6. „ 15.00	89.88	88.59	89.89	46.64	45.68	50.45
7. „ 20.00	93.38	92.49	93.38	56.55	55.59	60.34
8. „ 25.00	95.26	94.61	95.18	63.38	62.61	66.44
9. „ 30.00	96.55	96.10	96.42	69.17	68.62	71.37
10. „ 50.00	98.76	98.56	98.71	82.92	82.39	85.03
11. all sizes	100.00	100.00	100.00	100.00	100.00	100.00
12. estimated number of operational holdings (000)	55012	45695	21919	—	—	—
13. estimated area operated (000 acres)	—	—	—	335711	267432	68279

*Note :* Holdings of size less than 0.005 acre are excluded.

5.12. The distribution of area owned was more or less similar to that of total area operated. A smaller number of holdings in higher size classes, contributed relatively larger shares of area owned as well as of area leased in. For instance, if the holdings of size 25 acres or more are considered, it will be seen that 5 per cent of the holdings reporting leased-in area claimed about one-third of the total area leased in. More detailed information is given in Table (10) in Appendix III.

5.13. The extent of the area leased in as well as the proportion of holdings leasing in such areas are given in Table (5.6) for each size class.

*Report on Land Holdings (2)*

TABLE (5.6) : PERCENTAGE OF NUMBER OF OPERATIONAL HOLDINGS REPORTING AREAS 'OWNED' AND 'LEASED IN' TO THE TOTAL NUMBER OF OPERATIONAL HOLDINGS AND PERCENTAGE OF THE AREAS OWNED AND LEASED IN TO THE TOTAL OPERATED AREA ACCORDING TO SIZE CLASSES OF OPERATIONAL HOLDINGS, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

	holding size (acres)	total holdings (000)	percentage of holdings reporting area		total area operated (000 acres)	percentage of area	
			owned	leased in		owned	leased in
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.01— 0.99	19224	68.76	39.02	4038	71.55	28.45
2.	1.00— 2.49	8692	87.64	39.84	14686	73.36	26.64
3.	2.50— 4.99	9315	89.87	41.77	33678	74.95	25.05
4.	5.00— 7.49	5415	91.06	40.68	33158	78.01	21.99
5.	7.50— 9.99	3356	93.30	39.51	29136	79.71	20.29
6.	10.00—14.99	3443	93.29	38.28	41921	81.53	18.47
7.	15.00—19.99	1925	92.57	39.79	33283	79.70	20.30
8.	20.00—24.99	1032	93.99	38.18	22924	81.84	18.16
9.	25.00—29.99	709	95.91	38.36	19428	82.67	17.33
10.	30.00—49.99	1215	92.51	41.23	46151	79.78	20.22
11.	50.00 and above	686	95.92	41.40	57308	82.16	17.84
12.	total	55012	83.06	39.84	335711	79.66	20.34

5.14. It is seen that the percentage of holdings reporting area leased in to the total number of holdings in a size class did not show wide variation between different size classes. This table suggests a tendency of small holdings leasing in proportionately more land than bigger holdings. More detailed tables are given in Appendix III, Tables (8) to (11).

5.15. *Non-occupancy tenancy* : In the case of leased-in land belonging to the same operational holding, the terms of lease might differ from plot to plot. For instance, land might be rented in with formal lease contract, the rent being paid in cash or in kind. Again, the management might deliver to the lessor the rent in terms of a share of the produce (i.e., the crop rent). The crop rent might be fixed or proportional. Apart from these, other types of non-occupancy tenancy also existed e.g., service tenure holder who in lieu of his service was granted some plots of land on lease. In this survey, information on different non-occupancy tenancy was obtained for each of the leased-in plots in an operational holding.

5.16. A holding might be coming under more than one form or system of non-occupancy tenancy enumerated above. Hence the aggregate of the number of holdings reporting different types of tenancy shown in Table (5.7) can be seen to be greater than the number of holdings reporting leased-in area. Table (5.7) also shows the area leased in under different types.

*National Sample Survey*

TABLE (5.7) : ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING DIFFERENT  
NON-OCCUPANCY TENANCY TYPES AND AREA UNDER EACH TYPE, MAJOR  
CROP SEASON 1953-1954

item	Central sample		State sample		combined	
	holdings report- ing (000)	area leased- in (000 acres)	holdings report- ing (000)	area leased- in (000 acres)	holdings report- ing (000)	area leased- in (000 acres)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. non-occupancy tenancy type						
1.1 formal lease contract and on payment of :						
(i) cash rent	4070	13039	2926	10218	3325	11221
(ii) fixed crop rent	1213	3463	894	2802	975	2974
(iii) proportionate crop rent	2417	7654	1149	5596	1553	6226
(iv) sub-total	—	24156	—	18616	—	20421
1.2. without formal lease contract and on payment of :						
(i) cash rent	3668	13379	2697	10326	3023	11260
(ii) fixed crop rent	876	2551	705	2291	770	2363
(iii) proportionate crop rent	5909	23167	3890	16497	4568	18730
(iv) sub-total	—	39097	—	29114	—	32353
1.3. other types	13236	16654	7366	9132	9278	11699
1.4. terms not specified	1463	1932	1859	4735	1720	3806
1.5. all types	28232	81839	18818	61597	21919	68279
2. number of sample villages	1410		3021		4431	
3. number of sample households	24366		51354		75720	

Note : 1. Holdings of size less than 0.005 acre are excluded.

2. The sum of the number of operational holdings reporting different non-occupancy tenancy types is greater than the number of operational holdings reporting area leased in. But, sum of the areas taken on lease on different contracts is equal to the total area leased in.

5.17. The agreement between the samples, Central and State, regarding estimates of number of holdings and area under each type is not satisfactory. The type of leasing in on the basis of proportionate crop rent was prevalent in 24956 thousand acres out of a total of 68279 thousand acres of leased-in area. Of the areas leased in on formal contract, more than half was taken on payment of cash rent. As much as 47 per cent of the total area leased in was rented in without formal lease contract. The system of realising the rent in terms of fixed amount of crop, it appears, was not much in favour.

TABLE (5.8) : CUMULATIVE PERCENTAGE DISTRIBUTIONS BY SPECIFIED SIZE LIMITS OF THE NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA LEASED IN UNDER DIFFERENT TYPES OF NON-OCCUPANCY TENANCY AND OF AREA UNDER EACH TYPE, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	rented in with formal contract paying								rented in without formal contract paying						rented in on 'other' terms		rented in on terms not specified	
	leased-in		cash rent		fixed crop rent		proportionate crop rent		cash rent		fixed crop rent		proportionate crop rent		hold- ings report- ing	area	hold- ings report- ing	area
	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. up to 1.00	34.22	1.69	22.76	1.92	10.77	1.42	8.04	0.85	32.19	1.18	7.93	0.97	12.50	1.16	51.50	3.60	28.77	1.21
2. " 2.50	50.02	7.42	41.86	7.57	37.43	11.91	31.35	7.31	44.72	4.43	31.44	9.85	32.33	6.49	63.41	10.42	42.43	6.31
3. " 5.00	67.78	19.77	63.10	20.50	64.82	32.15	58.02	21.38	61.40	12.49	61.30	30.50	57.67	20.04	74.94	20.30	62.32	17.24
4. " 7.50	77.83	30.45	74.66	30.62	79.49	49.03	71.28	31.53	70.23	19.78	76.49	45.10	71.73	31.87	82.30	29.75	75.88	31.22
5. " 10.00	83.88	39.11	80.83	39.11	88.31	62.75	78.88	41.26	77.14	26.92	85.45	54.88	79.76	40.95	86.70	37.32	82.86	39.71
6. " 15.00	89.89	50.45	87.96	50.65	93.44	71.66	86.41	53.27	85.08	37.63	92.33	67.87	87.47	52.23	91.70	49.03	88.96	51.19
7. " 20.00	93.38	60.34	92.41	61.81	95.59	77.58	90.79	61.90	89.61	46.94	95.45	74.68	91.98	62.18	94.69	61.40	92.04	58.28
8. " 25.00	95.18	66.44	94.21	67.17	97.33	83.23	92.46	65.67	92.39	55.00	96.88	77.94	94.45	69.10	96.10	66.32	94.37	66.21
9. " 30.00	96.42	71.37	95.71	72.60	98.36	87.67	94.26	71.21	94.01	59.91	97.53	80.86	95.85	73.73	97.19	70.99	95.94	72.65
10. " 50.00	98.71	85.03	98.35	84.67	99.59	95.23	97.81	85.30	97.52	75.45	99.35	94.66	98.65	87.69	99.04	85.99	98.26	83.95
11. all sizes	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
12. estimated number of holdings report- ing (000)	—	3325	—	975	—	1553	—	3023	—	770	—	4568	—	9278	—	1720	—	—
13. estimated area (000 acres)	—	68279	—	11221	—	2974	—	6226	—	11260	—	2363	—	18730	—	11699	—	3806

Note : Holdings of size less than 0.005 acre are excluded.

TABLE (5.9) : PERCENTAGE OF TOTAL NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA LEASED IN UNDER DIFFERENT TYPES OF NON-OCCUPANCY TENANCY AND PERCENTAGE OF TOTAL AREA UNDER EACH TYPE FOR EACH SIZE LEVEL OF OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	holdings reporting area leased in (000)	percentage of holdings reporting land rented in									area leased-in (000 acres)	percentage of area rented in							
		with formal contract paying			without formal contract paying			on other terms	terms not specified	with formal contract paying			without formal contract paying			on other terms	terms not specified		
(1)	(2)	cash rent	fixed crop rent	proportionate crop rent	cash rent	fixed crop rent	proportionate crop rent			(9)	(10)	(11)	cash rent	fixed crop rent	proportionate crop rent			cash rent	fixed crop rent
1. 0.01— 0.99	7501	10.09	1.40	1.67	12.97	0.81	7.61	63.68	6.60	1149	18.80	3.66	4.61	11.58	2.00	18.80	36.55	4.00	
2. 1.00— 2.49	3463	18.34	7.51	10.45	10.94	5.23	26.16	31.91	6.79	3913	16.20	7.97	10.27	9.35	5.37	25.51	20.37	4.96	
3. 2.50— 4.99	3891	18.14	6.86	10.64	12.95	5.91	29.74	27.50	8.79	8436	17.19	7.14	10.38	10.76	5.78	30.12	13.70	4.93	
4. 5.00— 7.49	2203	17.43	6.49	9.35	12.12	5.31	29.14	31.00	10.58	7292	15.58	6.88	8.67	11.26	4.73	30.41	15.17	7.30	
5. 7.50— 9.99	1326	15.46	6.49	8.90	15.76	5.20	27.68	30.77	9.05	5911	16.12	6.90	10.25	13.60	3.91	28.77	14.99	5.46	
6. 10.00—14.99	1318	17.98	3.79	8.88	18.21	4.02	26.71	35.20	7.97	7742	16.73	3.42	9.66	15.58	3.97	27.30	17.70	5.64	
7. 15.00—19.99	766	19.32	2.74	8.88	17.89	3.13	26.89	36.16	6.92	6755	18.53	2.61	7.95	15.51	2.38	27.58	21.44	4.00	
8. 20.00—24.99	394	15.23	4.31	6.60	21.32	2.79	28.68	33.25	10.15	4162	14.44	4.04	5.65	21.79	1.85	31.13	13.84	7.26	
9. 25.00—29.99	272	18.38	3.68	10.29	18.01	1.84	23.53	37.13	9.93	3366	18.09	3.92	10.25	16.43	2.05	25.76	16.22	7.28	
10. 30.00—49.99	501	17.56	2.40	10.98	21.16	2.79	25.55	34.33	7.98	9332	14.52	2.41	9.40	18.75	3.49	28.01	18.81	4.61	
11. 50.00 and above	284	19.37	1.41	11.97	26.41	1.76	21.83	31.69	10.56	10221	16.83	1.39	8.95	27.04	1.23	22.54	16.04	5.98	
12. total	21919	15.17	4.45	7.09	13.79	3.51	20.84	42.33	7.85	68279	16.43	4.36	9.12	16.49	3.46	27.44	17.13	5.57	

Note : The sum of the figures in columns (3) to (10) against each size class will be greater than or equal to 100.00.

*Report on Land Holdings (2)*

5.18. The percentage distribution of the holdings and their areas under different types of non-occupancy tenancy arranged in a cumulative form reveals certain features. Thus in Table (5.8) it can be seen that the reporting holdings under different types followed different trends. The distribution of area leased in on payment of cash rent with formal contract was similar to that of the total area leased in (column 3). As regards area leased in on the basis of proportionate crop rent, the distribution was more or less the same whether the area was rented with formal contract or without.

5.19. More than half of the holdings taken on lease on "other terms" (e.g., in exchange of services etc.) and about one-third of the holdings leased in informally on payment of cash rent were of size less than an acre.

5.20. An idea about the contribution from different types of non-occupancy tenancy to total area leased in for each of the size classes of operational holdings can be had from Table (5.9).

5.21. It is seen that in small holdings of size less than an acre a substantial portion of the area leased in was on "other terms". For holdings of size an acre or more, it is seen that more than one-fifth but less than one-third of operational holdings, renting in land without formal lease contract on payment of proportionate crop rent accounted for nearly the same fraction of total leased-in area. The proportion of area leased in with formal contract on cash rent basis did not vary much with the size of holdings, while in the case of areas taken on lease informally, on cash rent basis the proportion fluctuated with the suggestion of an increasing trend.

5.22. Detailed tables on area leased in under different types of non-occupancy are given in the Appendix III (Tables 12 to 15).



CHAPTER SIX

HOUSEHOLD OPERATIONAL HOLDINGS

6.1. All cultivable as well as uncultivable land under the possession of a household constituted a household operational holding. The land possessed by a household included land owned (but not leased out) and that taken on lease. Area of land coming under a household operational holding was built up from the data collected in the detailed enquiry of all the operational holdings managed by the household alone or with the assistance of other households. A household might have individual or joint operational holdings or both. The area of the household operational holding was taken to be the sum of the areas of all individual operational holdings, together with a part of the area of each of the joint operational holdings determined on the assumption that all participating households had equal share of land. Thus, if a household had individual operational holdings only, the area of the household operational holding would be exactly equal to the land possessed by the household. There is some approximation in the allocation of area to different participating households under this assumption. But since the number of joint operational holdings was very small (being only 5 per cent), household operational holdings would not give an unrealistic picture of land possessed by the households.

6.2. *Distribution of the number of households and area operated*: Table (6.1) gives the estimated number of households and area operated by size level of house-

TABLE (6.1): ESTIMATED NUMBER OF HOUSEHOLDS AND AREA OPERATED BY THEM BY SIZE-CLASS OF HOUSEHOLD OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

size of household operational holding (acres)	Central sample		State sample		combined	
	house-holds (000)	area (000 acres)	house-holds (000)	area (000 acres)	house-holds (000)	area (000 acres)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	3848	—	8369	—	6903	—
2. 0.01— 0.99	22378	4288	18138	4145	19486	4204
3. 1.00— 2.49	9468	16178	9125	15368	9253	15649
4. 2.50— 4.99	10390	37743	9569	34635	9856	35724
5. 5.00— 7.49	5956	36175	5436	33239	5605	34190
6. 7.50— 9.99	3598	31114	3419	29644	3469	30091
7. 10.00—14.99	3517	43002	3503	42493	3497	42525
8. 15.00—19.99	2105	36552	1786	30732	1887	32648
9. 20.00—24.99	1048	23406	1014	22463	1022	22722
10. 25.00—29.99	714	19443	699	19081	700	19138
11. 30.00—49.99	1184	44758	1227	46201	1209	45665
12. 50.00 and above	657	55492	633	52041	645	53155
13. total	64863	348151	62918	330042	63532	335711
14. average size of household operational holding (acres) <sup>2</sup>	5.37 (5.71)		5.25 (6.05)		5.28 (5.93)	
15. number of sample villages	1410		3021		4431	
16. number of sample households	24366		51354		75720	

<sup>1</sup> Households operating land less than 0.005 acre are shown in this class.

<sup>2</sup> Figures in brackets are obtained by omitting the households operating land less than 0.005 acre.

*Report on Land Holdings (2)*

hold operational holding separately for Central sample, State sample and Central and State samples combined.

6.3. The table reveals good agreement between the estimates of Central and State samples except in first two size classes. The combined estimates show that, of a total number of 63532 thousand households in rural India, 19486 thousand operated holdings of size 0.01 to 0.99 acre. There were only 645 thousand households possessing holdings of size 50 acres or more.

6.4. The average size of a household operational holding was 5.28 acres which, however, increased to 5.93 acres when holdings of small size (less than 0.005 acre) were excluded.

6.5. The concentration of land in the possession of a minority of households having large holdings can be better seen from Table (6.2) which shows the percentage of households operating land below specified sizes of household operational holding and the cumulative percentage of area operated by them.

TABLE (6.2): CUMULATIVE PERCENTAGE DISTRIBUTIONS OF HOUSEHOLDS AND AREA OPERATED BY SPECIFIED SIZE LIMITS OF HOUSEHOLD OPERATIONAL HOLDINGS, MAJOR CROP SEASON 1953-1954

size of household operational holding (acres)	cumulative percentage					
	Central sample		State sample		combined	
	house-holds	area	house-holds	area	house-holds	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	5.93	—	13.30	—	10.87	—
2. up to 1.00	40.43	1.23	42.12	1.26	41.55	1.24
3. „ 2.50	55.03	5.88	56.63	5.92	56.12	5.90
4. „ 5.00	71.05	16.72	71.84	16.41	71.64	16.55
5. „ 7.50	80.23	27.11	80.48	26.48	80.46	26.73
6. „ 10.00	85.78	36.05	85.91	35.46	85.92	35.69
7. „ 15.00	91.20	48.41	91.48	48.34	91.42	48.37
8. „ 20.00	94.44	58.91	94.32	57.65	94.39	58.10
9. „ 25.00	96.06	65.63	95.93	64.46	96.00	64.87
10. „ 30.00	97.16	71.21	97.04	70.24	97.10	70.57
11. „ 50.00	98.98	84.07	98.99	84.24	99.00	84.17
12. all sizes	100.00	100.00	100.00	100.00	100.00	100.00
13. estimated number of households (000)	64863	—	62918	—	63532	—
14. estimated area operated (000 acres)	—	348151	—	330042	—	335711
15. number of sample villages	1410		3021		4431	
16. number of sample households	24366		51354		75720	

<sup>1</sup> Households operating land less than 0.005 acre are shown in this class.

*National Sample Survey*

6.6. It will be seen from the table that 11 per cent of households in rural India were possessing small holdings each of size less than 0.005 acre. About 72 per cent of households with holdings of size less than 5 acres, together claimed only one-sixth of the total operated area, though more or less the same share of total operated area was under the possession of only 1 per cent of households with large holdings (of size 50 acres or more).

6.7. Tables (16) to (18) in Appendix III give the distribution with more breakdowns of size.

6.8. *Household size* : A group of persons usually living together and taking their principal meals from a common kitchen for any 16 days during the period of 30 days preceding the date of enquiry formed a household, each person being considered as a member of the household. It should be noted that the members of a household might include persons like domestic servant, private tutor, etc. The household size has been built up in accordance with this definition of the members of a household.

6.9. The variation in the size of a household with the size of household operational holding can be examined from Table (6.3).

TABLE (6.3) : AVERAGE HOUSEHOLD SIZE BY SIZE CLASS OF HOUSEHOLD OPERATIONAL HOLDING

size of household operational holding <sup>1</sup> (acres)	Central sample		State sample		combined	
	number of households (000)	household size	number of households (000)	household size	number of households (000)	household size
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>2</sup>	3848	3.49	8369	3.99	6903	3.91
2. 0.01— 0.99	22378	4.00	18138	4.23	19486	4.14
3. 1.00— 2.49	9468	4.63	9125	4.91	9253	4.81
4. 2.50— 4.99	10390	5.18	9569	5.27	9856	5.24
5. 5.00— 7.49	5956	5.65	5436	5.82	5605	5.76
6. 7.50— 9.99	3598	6.11	3419	6.17	3469	6.16
7. 10.00—14.99	3517	6.32	3503	6.35	3497	6.34
8. 15.00—19.99	2105	6.87	1786	6.69	1887	6.76
9. 20.00—24.99	1048	7.10	1014	6.74	1022	6.86
10. 25.00—29.99	714	7.10	699	7.14	700	7.15
11. 30.00—49.99	1184	7.05	1227	7.30	1209	7.23
12. 50.00 and above	657	8.56	633	8.24	645	8.30
13. total	64863	4.92	62918	5.06	63532	5.01
14. number of sample villages	1410		3021		4431	
15. number of sample households	24366		51354		75720	

<sup>1</sup> Reference period : major crop season 1953-1954.

<sup>2</sup> Households operating land less than 0.005 are shown in this class.

*Report on Land Holdings (2)*

6.10. The agreement between the Central sample and State sample estimates of average household size was fairly good, though the average household size based upon the villages of the State sample was generally found to be slightly higher than the corresponding estimate from the Central sample. In rural India, as is seen from the combined estimate, the household size ranged from 3.91 for households operating less than 0.005 acre to 8.30 for households operating 50 acres or more. The household size shows an increasing trend with the increase in the size of household operational holding. Table (19) in Appendix III shows the average household size in further breakdowns of the size of household operational holdings.

CHAPTER SEVEN

LIVESTOCK AND POULTRY

7.1. Besides information on land, particulars on livestock and poultry owned by rural households during the middle of the major crop season of the agricultural year July 1953—June 1954 were also collected. In this chapter, are discussed the distributions of the estimated number of livestock and poultry by size of household operational holding.

7.2. Estimated numbers of livestock owned by the households in rural India with a few breakdowns, have been given in Table (7.1). The agreement between

TABLE (7.1): ESTIMATED NUMBERS OF LIVESTOCK UNDER DIFFERENT CATEGORIES AND THE NUMBERS PER 100 HOUSEHOLDS, MAJOR CROP SEASON 1953-1954

item	number (000)			percen- tage <sup>1</sup>	number per 100 house- holds <sup>1</sup>
	Central sample	State sample	combined		
(1)	(2)	(3)	(4)	(5)	(6)
1. cattle : <i>male</i>					
(i) bull (breeding)	4319	3562	3807	2.42	5.99
(ii) bull and bullock (working)	72059	67725	69099	44.02	108.76
(iii) others	16814	14539	17768	11.32	27.97
(iv) sub-total	93192	85826	90674	57.76	142.72
<i>female</i>					
(v) cow (in milk)	21568	21832	21730	13.84	34.20
(vi) others	49784	41902	44571	28.40	70.16
(vii) sub-total	71352	63734	66301	42.24	104.36
(viii) total [(iv) and (vii)]	164544	149560	156975	100.00	247.08
2. buffalo : <i>male</i>					
(i) he-buffalo (breeding)	3001	1977	2381	5.75	3.75
(ii) he-buffalo (working)	8437	8129	8236	19.87	12.96
(iii) others	384	320	342	0.82	0.54
(iv) sub-total	11822	10426	10959	26.44	17.25
<i>female</i>					
(v) she-buffalo (in milk)	12859	13504	13702	33.06	21.57
(vi) others	17762	16289	16780	40.50	26.41
(vii) sub-total	30621	29793	30482	73.56	47.98
(viii) total [(iv) and (vii)]	42443	40219	41441	100.00	65.23
3. sheep	30058	36745	34527	—	54.35
4. goat	38913	40590	40116	—	63.14
5. estimated number of households (000)	64863	62918	63532		
6. number of sample villages	1410	3021	4431		
7. number of sample households	24366	51354	75720		

<sup>1</sup> Based upon figures of Central and State samples combined.

TABLE (7.2) : ESTIMATED NUMBERS OF LIVESTOCK OWNED PER 100 HOUSEHOLDS UNDER DIFFERENT CATEGORIES BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	number of house- holds (000)	number of livestock per 100 households												
		cattle						buffalo					sheep	goat
		bull (breed- ing)	bull and bullock (work- ing)	bull and bullock (others)	cow (in milk)	cow (others)	total	he- buffalo (breed- ing)	he- buffalo (work- ing)	she- buffalo (in milk)	she- buffalo (others)	total <sup>1</sup>		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
1. 0.00 <sup>2</sup>	6903	1.33	10.36	11.60	10.91	23.42	57.62	1.07	2.07	7.30	8.43	19.04	55.73	41.95
2. 0.01 — 0.99	19486	2.47	20.13	8.23	12.12	24.12	67.07	0.98	2.64	6.06	7.77	17.58	20.36	39.50
3. 1.00 — 2.49	9253	4.51	95.10	19.96	24.20	53.54	197.31	1.91	12.74	15.21	19.80	50.04	42.20	52.86
4. 2.50 — 4.99	9856	7.05	142.24	28.93	37.34	76.15	291.71	3.81	17.10	24.15	27.87	73.32	42.54	60.17
5. 5.00 — 7.49	5605	8.81	173.29	40.16	51.95	101.30	375.51	6.87	21.94	32.72	36.82	98.86	75.29	78.43
6. 7.50 — 9.99	3469	9.14	195.13	53.39	56.96	115.83	430.45	5.94	27.30	36.70	41.57	112.94	94.96	98.59
7. 10.00—14.99	3497	10.69	224.76	54.42	65.37	132.26	487.50	7.52	25.08	45.18	57.36	136.15	79.15	105.80
8. 15.00—19.99	1887	12.14	259.25	61.63	76.84	151.56	561.42	9.38	23.85	51.30	62.43	148.81	94.81	95.92
9. 20.00—24.99	1022	20.74	276.03	78.67	91.29	180.53	647.26	11.35	29.35	56.16	76.61	174.85	121.23	121.92
10. 25.00—29.99	700	15.86	310.00	83.57	95.57	201.86	706.86	14.86	27.86	63.00	80.71	187.71	140.57	148.00
11. 30.00—49.99	1209	15.88	348.97	100.83	120.10	246.32	832.10	13.40	33.33	76.76	96.53	223.33	202.81	138.79
12. 50.00 and above	645	29.92	495.81	137.83	157.98	368.68	1190.22	23.41	48.53	97.98	139.38	312.56	289.61	219.69
13. total	63532	5.99	108.76	27.97	34.20	70.16	247.08	3.75	12.96	21.57	26.41	65.23	54.35	63.14

<sup>1</sup> He-buffaloes (others) have been included in the calculation of the average number of buffaloes owned by the households.

<sup>2</sup> Households operating land less than 0.005 acre are shown in this class.

*National Sample Survey*

the Central and State sample estimates of the broad categories of livestock was fairly good.

7.3. It will be seen that the cattle formed the most important part of the total livestock. Among 156975 thousand cattle, 58 per cent were male and the rest female. About 14 per cent of the total cattle were milch cows and 44 per cent were working bulls and bullocks. Slightly more than one-fourth of the buffaloes was male; one-third of the buffaloes was she-buffaloes in milk. Proportionately, there were a larger number of females amongst buffaloes than amongst the cattle. For every 100 households there were 247 cattle, 65 buffaloes, 54 sheep and 63 goats.

7.4. The average numbers of livestock owned per 100 rural households are shown by size of household operational holding in Table (7.2). The number increased with increasing holding size, and was specially so in the case of working bulls and bullocks.

7.5. *Poultry*: Table (7.3) gives the estimated poultry stock owned by rural households in India for Central sample, State sample and Central and State samples combined.

TABLE (7.3): ESTIMATED NUMBER OF BIRDS (POULTRY) AND THE NUMBERS PER 100 HOUSEHOLDS, MAJOR CROP SEASON 1953-1954

item	number (000)			percent- age <sup>1</sup>	number per 100 house- holds <sup>1</sup>
	Central sample	State sample	combined		
(1)	(2)	(3)	(4)	(5)	(6)
<i>poultry</i>					
1. male birds	16571	15694	16228	30.28	25.54
2. female birds	39132	36174	37370	69.72	58.82
3. total	55703	51868	53598	100.00	84.36
4. estimated number of households (000)	64863	62918	63532		
5. number of sample villages	1410	3021	4431		
6. number of sample households	24366	51354	75720		

<sup>1</sup> Based on figures of Central and State samples combined.

7.6. Fair agreement is noticed between Central sample and State sample estimates. The combined estimate shows that in rural India there were 53598 thousand birds (poultry) out of which 30 per cent were male and 70 per cent female. On an average, 100 households owned 84 birds only, out of which 25 were male and 59 were female.

7.7. Table (7.4) gives the estimated number of birds by sex owned per 100 households by size of household operational holding.

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TABLE (7.4) : ESTIMATED NUMBER OF BIRDS (POULTRY) BY SEX OWNED PER 100 HOUSEHOLDS BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

	size of household operational holding (acres)	estimated number of households (000)	number of birds (poultry) per 100 households		
			male	female	total
	(1)	(2)	(3)	(4)	(5)
1.	0.00 <sup>1</sup>	6903	9.01	35.36	44.37
2.	0.01 — 0.99	19486	17.01	41.49	58.50
3.	1.00 — 2.49	9253	24.86	55.55	80.41
4.	2.50 — 4.99	9856	36.58	74.52	111.10
5.	5.00 — 7.49	5605	36.15	80.96	117.11
6.	7.50 — 9.99	3469	34.16	83.74	117.90
7.	10.00—14.99	3497	35.63	81.18	116.81
8.	15.00—19.99	1887	33.23	75.94	109.17
9.	20.00—24.99	1022	54.79	75.25	130.04
10.	25.00—29.99	700	33.43	79.43	112.86
11.	30.00—49.99	1209	24.81	65.51	90.32
12.	50.00 and above	645	32.56	81.55	114.11
13.	total	63532	25.54	58.82	84.36

<sup>1</sup> Households operating land less than 0.005 acre are shown in this class.

7.8. It will be noticed that households operating holdings of larger sizes owned on an average more birds than those operating smaller holdings. Detailed information on livestock numbers and poultry stock can be had from Tables (20) to (27) in Appendix III.

7.9. *Comparison with data in 1956 Livestock Census*: Livestock numbers are collected quinquennially by complete enumeration. The last census on livestock and poultry was carried out in 1956. While comparing the results obtained from the land holdings enquiry with the figures in the census, the following points should be borne in mind.

1. The livestock census was conducted in March—April 1956 for all the States and Union territories (the reference date being 15th April 1956) except Orissa, West Bengal and Manipur where the census was held later in 1957. The reference period for collection of information on livestock in the land holdings enquiry was the middle of the major crop season 1953-54.

2. In the census, data related to the livestock and poultry possessed by households as well as non-household establishments. On the other hand, in the present enquiry, it related to livestock and poultry owned by households only.



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3. The classifications used in the case of different categories of livestock for the purposes of the census and the present survey were not identical.

Any comparative study, therefore, of the survey result with the census figures is subject to the above limitations. The numbers of livestock under the broad categories i.e., cattle, buffaloes, sheep and goat as estimated from this enquiry were 156975, 41441, 34527, 40116 thousand respectively; the figures for these categories in the census data were 153060, 42711, 38123, 53048 thousand respectively. The estimated poultry stock from the land holdings enquiry was 53598 thousand, the corresponding census figure being 89180 thousand.

## CHAPTER EIGHT

### AGRICULTURAL IMPLEMENTS

8.1. Various implements, generally used by the Indian agriculturist, were also included in the subject coverage of the survey. The data on various agricultural implements owned by rural households during the middle of the major crop season of the agricultural year : July 1953—June 1954 were obtained. Only a few selected implements viz., ploughs (wooden and iron), harrows, tractors and oil engines have been considered in this section.

8.2. *Number of agricultural implements*: The households in rural India, it can be seen from Table (8.1), owned 45604 thousand ploughs, wooden ploughs accounting for a major portion. The harrows owned by the households were estimated at 23160 thousand. That tractors and oil-engines were less used in rural India, is seen from the table. The estimates provided by the two agencies show fairly good agreement in the case of ploughs but as regards harrows, the agreement was not satisfactory. It may be noted that since tractors and oil-engines are rather rare, it is likely, that the sampling errors of these estimates would be high.

TABLE (8.1) : ESTIMATED NUMBER OF AGRICULTURAL IMPLEMENTS AND NUMBERS PER 100 HOUSEHOLDS, MAJOR CROP SEASON 1953-1954

item	number (000)			number per 100 households <sup>1</sup>
	Central sample	State sample	combined	
(1)	(2)	(3)	(4)	(5)
<i>agricultural implements</i>				
1. plough (wooden)	47595	41867	43782	68.91
2. plough (iron)	1867	1802	1822	2.87
3. harrow	29936	19892	23160	36.45
4. tractor	24	17	21	0.03
5. oil-engine	240	141	175	0.28
6. estimated number of households (000)	64863	62918	63532	
7. number of sample villages	1410	3021	4431	
8. number of sample households	24366	51354	75720	

<sup>1</sup> Based on figures of Central and State samples combined.

8.3. Various agricultural implements owned by an average hundred households in rural India were estimated at 69 wooden ploughs, 3 iron ploughs and 36

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harrows. But the average number of tractors and oil-engines owned was negligibly small namely, 0.03 and 0.28 which means 3 tractors and 28 oil-engines per ten thousand households.

8.4. *Average number of some selected agricultural implements owned by 100 households*: Table (8.2) gives the average number of ploughs (wooden), ploughs (iron) and harrows owned per 100 households.

TABLE (8.2): ESTIMATED NUMBER OF PLOUGHS AND HARROWS OWNED  
PER 100 HOUSEHOLDS BY SIZE OF HOUSEHOLD OPERATIONAL  
HOLDING, MAJOR CROP SEASON 1953-1954

number of sample villages : 4431

number of sample households : 75720

	size of household operational holding (acres)	estimated number of households (000)	number of agricultural imple- ments per 100 households		
			plough (wooden)	plough (iron)	harrow
	(1)	(2)	(3)	(4)	(5)
1.	0.00 <sup>1</sup>	6903	5.23	0.38	2.94
2.	0.01 — 0.99	19486	13.66	0.33	5.83
3.	1.00 — 2.49	9253	72.27	1.53	27.60
4.	2.50 — 4.99	9856	97.64	2.46	43.49
5.	5.00 — 7.49	5605	113.01	3.28	54.56
6.	7.50 — 9.99	3469	125.02	4.15	64.89
7.	10.00 — 14.99	3497	130.60	6.38	78.10
8.	15.00 — 19.99	1887	148.54	9.22	97.19
9.	20.00 — 24.99	1022	155.68	10.27	110.27
10.	25.00 — 29.99	700	160.71	14.14	121.43
11.	30.00 — 49.99	1209	173.70	18.20	144.83
12.	50.00 and above	645	246.98	30.70	213.80
13.	total	63532	68.91	2.87	36.45

<sup>1</sup> Includes households operating land less than 0.005 acre.

8.5. It is seen that with the increase in the size of household operational holding, the number of these agricultural implements owned per 100 households also increased. On an average, hundred rural households each operating land less than 0.005 acre owned 5 wooden ploughs, and 3 harrows. But hundred households, each operating 50 acres or more, on an average owned 247 wooden ploughs, 31 iron ploughs and 214 harrows. Considering the aggregate of ploughs, both wooden and iron, it was noticed that proportionately more iron ploughs were owned by households operating holdings of higher size classes.

8.6. Detailed tables showing the distribution of these implements are given in Appendix III, Tables (28) and (29).

CHAPTER NINE

DISTRIBUTION OF AREA UNDER CROPS BY SIZE OF HOLDINGS

9.1. An operational holding might have plots used for purposes, agricultural or non-agricultural. Particulars regarding the various utilisations were collected plot by plot for an operational holding. This information relating to the plots generally covered all the crop seasons in the agricultural year July 1953 to June 1954. If, however, a plot was operated by the management of an operational holding only in one crop season of the agricultural year, the data on utilisation of that plot were collected only for that season. In view of the special importance of principal crops in the rural economy, utilisation of land with regard only to these crops (rice, jowar, bajra, maize, wheat, barley, gram, sugarcane, cotton, jute and groundnut) are considered in this chapter. A crop might be grown either singly or in intermixture with other crops. The figures presented here, generally related to the pure crops, i.e., crops grown singly. Contributions from the mixed crops also were included in these figures in those cases, where the practice was to apportion the area under mixed crops to its components at the village level.

9.2. The number of operational holdings reporting different crops and the area under each crop are given in Table (9.1) separately for the Central sample and

TABLE (9.1): ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND AREA UNDER EACH CROP, 1953-1954

item	Central sample		State sample		combined	
	number of holdings reporting (000)	area (000 acres)	number of holdings reporting (000)	area (000 acres)	number of holdings reporting (000)	area (000 acres)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
<i>crops<sup>1</sup></i>						
1. rice	26003	71322	23989	69384	24651	69835
2. jowar	8138	33136	9279	36287	8887	35286
3. bajra	6862	24922	7258	30793	7132	28899
4. maize	10451	11342	7922	8814	8747	9673
5. wheat	9750	19684	10052	18472	9937	18848
6. barley	5894	5740	5718	6484	5761	6212
7. gram	6837	11835	7047	13519	6970	12979
8. sugarcane	4419	2826	3880	2766	4066	2780
9. cotton	3801	16493	3154	16447	3361	16458
10. jute	1619	1442	1640	1304	1611	1336
11. groundnut	3743	9540	3445	9765	3543	9719
12. number of operational holdings (000)	63876	—	60916	—	61780	—
13. area operated (000 acres)	—	348151	—	330042	—	335711
14. number of sample villages	1410		3021		4431	
15. number of sample households	24366		51354		75720	

<sup>1</sup> The estimates of number of holdings reporting different crops and the corresponding areas under them mainly relate to 'pure' crops.

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the State sample to facilitate comparison of the estimates provided by the two agencies. The combined estimates based on the total sample are also given.

9.3. It is seen from Table (9.1) that of the crops considered here, fairly good agreement between the two sample estimates is noticed in all the crops except maize and bajra.

9.4. An idea about the distribution of holdings reporting each of the specified crops and area under each of them can be had from the percentage figures given in Table (9.2).

TABLE (9.2): CUMULATIVE PERCENTAGE DISTRIBUTIONS OF THE NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS, 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	total holdings	total area operated	rice		jowar		bajra		wheat	
			holdings reporting	area	holdings reporting	area	holdings reporting	area	holdings reporting	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. 0.00	10.96	—	—	—	—	—	—	—	—	—
2. up to 1.00	42.08	1.20	13.11	2.02	3.92	0.32	3.92	0.37	7.17	1.08
3. „ 2.50	56.15	5.58	35.58	11.01	15.07	2.32	15.08	2.67	23.01	5.77
4. „ 5.00	71.23	15.60	61.23	31.01	32.45	7.61	32.82	8.85	45.09	17.68
5. „ 7.50	79.99	25.48	75.23	47.51	46.30	14.32	46.39	15.30	59.26	28.82
6. „ 10.00	85.42	34.16	83.15	59.35	57.11	22.07	57.09	22.79	68.76	39.03
7. „ 15.00	90.99	46.64	90.28	72.90	70.68	34.57	70.70	35.99	79.68	52.52
8. „ 20.00	94.11	56.55	94.01	81.39	79.21	45.31	79.31	46.81	86.30	63.55
9. „ 25.00	95.78	63.38	95.81	86.19	84.43	53.26	84.50	54.92	89.82	70.22
10. „ 30.00	96.93	69.17	97.08	89.47	88.51	60.70	88.13	61.64	92.46	75.96
11. „ 50.00	98.90	82.92	98.99	95.19	95.91	79.73	95.34	79.03	97.37	87.75
12. all sizes	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
13. estimated number of holdings (000)	61780	—	24651	—	8887	—	7132	—	9937	—
14. estimated area (000 acres)	—	335711	—	69835	—	35286	—	28899	—	18848

*Note:* The estimates of number of holdings reporting different crops and the corresponding areas under them mainly relate to 'pure' crops.

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TABLE (9.2) (Contd.): CUMULATIVE PERCENTAGE DISTRIBUTIONS OF THE NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS, 1953-1954

number of sample villages : 4431											number of sample households : 75720										
holding size (acres)	total holdings	total area operated	maize		barley		gram		sugarcane												
			holdings reporting	area	holdings reporting	area	holdings reporting	area	holdings reporting	area											
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)											
1.	0.00	10.96	—	—	—	—	—	—	—	—											
2.	up to 1.00	42.08	1.20	14.61	3.70	12.45	3.16	5.12	0.77	5.48	1.34										
3.	" 2.50	56.15	5.58	31.71	13.91	33.23	13.65	18.14	4.32	22.42	8.46										
4.	" 5.00	71.23	15.60	54.38	34.04	57.62	31.37	39.05	13.60	48.18	25.40										
5.	" 7.50	79.99	25.48	68.78	50.00	71.73	46.00	53.24	22.39	65.42	43.38										
6.	" 10.00	85.42	34.16	77.69	62.10	79.32	56.21	63.84	31.20	75.43	54.75										
7.	" 15.00	90.99	46.64	87.08	76.34	88.83	70.96	76.40	45.32	85.71	68.96										
8.	" 20.00	94.11	56.55	92.40	84.87	93.48	79.73	83.90	57.38	91.54	79.50										
9.	" 25.00	95.78	63.38	94.66	88.43	95.53	84.64	88.28	64.46	94.49	86.19										
10.	" 30.00	96.93	69.17	96.36	92.14	96.97	88.94	91.45	71.33	96.38	90.36										
11.	" 50.00	98.90	82.92	98.90	96.93	98.91	95.00	96.71	85.12	99.11	96.51										
12.	all sizes	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00										
13.	estimated number of holdings (000)	61780	—	8747	—	5761	—	6970	—	4066	—										
14.	estimated area (000 acres)	—	335711	—	9673	—	6212	—	12979	—	2780										

Note: The estimates of number of holdings reporting different crops and the corresponding areas under them mainly relate to 'pure' crops.

TABLE (9.2) (Contd.): CUMULATIVE PERCENTAGE DISTRIBUTIONS OF THE NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS, 1953-1954

number of sample villages : 4431											number of sample households : 75720										
holding size (acres)	total holdings	total area operated	cotton		jute		groundnut														
			holdings reporting	area	holdings reporting	area	holdings reporting	area													
(1)	(2)	(3)	(20)	(21)	(22)	(23)	(24)	(25)													
1.	0.00	10.96	—	—	—	—	—	—													
2.	up to 1.00	42.08	1.20	0.98	0.07	6.90	1.80	2.82	0.39												
3.	" 2.50	56.15	5.58	5.41	0.88	23.48	9.88	12.64	2.96												
4.	" 5.00	71.23	15.60	15.59	3.71	52.15	32.48	29.01	9.36												
5.	" 7.50	79.99	25.48	28.35	7.68	69.21	52.54	43.38	17.16												
6.	" 10.00	85.42	34.16	38.79	12.27	77.09	61.00	54.25	24.91												
7.	" 15.00	90.99	46.64	55.63	22.81	86.96	75.45	67.21	37.17												
8.	" 20.00	94.11	56.55	67.68	32.94	91.86	82.64	76.16	47.37												
9.	" 25.00	95.78	63.38	75.42	42.65	94.53	87.06	81.80	55.51												
10.	" 30.00	96.93	69.17	81.82	51.95	96.27	88.78	86.54	62.98												
11.	" 50.00	98.90	82.92	93.45	74.06	98.63	92.67	95.09	81.92												
12.	all sizes	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00												
13.	estimated number of holdings (000)	61780	—	3361	—	1611	—	3543	—												
14.	estimated area (000 acres)	—	335711	—	16458	—	1336	—	9719												

Note: The estimates of number of holdings reporting different crops and the corresponding areas under them mainly relate to 'pure' crops.

9.5. Three-fourths of the holdings reporting rice and which accounted for slightly less than half (48 per cent) of the total area under rice were of size less than 7.50 acres. One-tenth of the holdings reporting rice were of size 15 acres or more and they together claimed 27 per cent of total area under rice. The two crops, jowar and bajra, it will be seen, were distributed in a like manner over the size classes both in respect of the number of holdings as well as of area. Four-fifths of holdings reporting wheat were of size less than 15 acres and these together had about 53 per cent of total area under wheat. A comparison of the cumulative percentages of area under each of the cash crops indicate relatively larger concentration of area under jute and also under sugarcane in small holdings. Below 5 acres, for example, one-fourth of the area under sugarcane and one-third of the area under jute were covered. Against these, only 4 per cent of area under cotton and 9 per cent of area under groundnut were observed.

9.6. *Percentage of area under crops* : For each size-class of operational holding, areas under different crops expressed as percentages of the corresponding total area operated are shown in Table (9.3).

9.7. Food crops, it can be seen from the table, accounted for 54 per cent of the total operated area in rural India. Rice was the major crop claiming slightly more than one-fifth of total operated area. With increase in size of holding, the proportion of area under rice shows a decreasing trend. Similar decreasing trend is noticed for maize as well as barley. The proportions of area in each of jowar and bajra, on the other hand, show an increasing trend.

9.8. Among the cash crops, considered here, cotton was by far the most important, claiming 5 per cent of the total operated area. Its proportion gradually increased with the size of holding. The four cash crops together accounted for 9 per cent of the total operated area. The principal food and cash crops considered here accounted for 63 per cent of the total operated area. It is interesting to note that this proportion was 64 per cent in holdings of size less than an acre; it increased to a maximum of 77 per cent in the case of holdings of size an acre or more but less than 5 acres and then gradually decreased to 48 per cent in the case of holdings of size 50 acres or more.

9.9. Tables (30) to (32) in Appendix III show the distributions of crop acreages by finer breakdowns of size of holdings.

TABLE (9.3): PERCENTAGE OF AREA UNDER EACH CROP FOR EACH SIZE CLASS OF OPERATIONAL HOLDING, 1953-1954

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	total area oper- ated (000 acres)	percentage of area under													
		rice	jowar	bajra	wheat	maize	barley	gram	sub- total cols. (3) to (9)	sugar- cane	cotton	jute	ground- nut	sub- total cols. (11) to (14)	total col.(10) + col.(15)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
1. 0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2. 0.01 — 0.99	4038	34.97	2.80	2.63	5.03	8.87	4.85	2.53	61.68	0.91	0.30	0.59	0.94	2.75	64.43
3. 1.00 — 2.49	14686	42.75	4.80	4.51	6.02	6.73	4.44	3.14	72.39	1.35	0.90	0.74	1.70	4.69	77.08
4. 2.50 — 4.99	33678	41.47	5.54	5.30	6.67	5.78	3.27	3.57	71.60	1.40	1.38	0.90	1.85	5.53	77.13
5. 5.00 — 7.49	33158	34.74	7.14	5.62	6.33	4.66	2.74	3.44	64.67	1.51	1.97	0.81	2.29	6.58	71.25
6. 7.50 — 9.99	29136	28.37	9.38	7.43	6.61	4.02	2.18	3.92	61.91	1.08	2.59	0.39	2.58	6.64	68.55
7. 10.00—14.99	41921	22.58	10.52	9.11	6.07	3.28	2.19	4.37	58.12	0.94	4.14	0.46	2.84	8.38	66.50
8. 15.00—19.99	33283	17.81	11.39	9.40	6.25	2.48	1.64	4.70	53.67	0.88	5.01	0.29	2.98	9.16	62.83
9. 20.00—24.99	22924	14.63	12.24	10.23	5.48	1.50	1.33	4.01	49.42	0.81	6.97	0.26	3.45	11.49	60.91
10. 25.00—29.99	19428	11.80	13.52	9.99	5.57	1.85	1.37	4.59	48.69	0.60	7.88	0.12	3.74	12.34	61.03
11. 30.00—49.99	46151	8.66	14.55	10.89	4.81	1.01	0.81	3.88	44.61	0.37	7.88	0.11	3.99	12.35	56.96
12. 50.00 and above	57308	5.86	12.48	10.58	4.03	0.52	0.54	3.37	37.38	0.17	7.45	0.17	3.07	10.86	48.23
13. total	335711	20.80	10.51	8.61	5.61	2.88	1.85	3.87	54.13	0.83	4.90	0.40	2.90	9.03	63.16



APPENDIX I

AGRICULTURAL HOLDINGS

1.1. An operational holding, as defined in Chapter Two para 2.10 of this report, might consist of plots put to agricultural uses or to non-agricultural uses or both. It is of importance to get the number of agricultural holdings and the extent of area under agricultural holdings in rural India.

1.2. Operational holdings were classified as non-agricultural or agricultural, depending upon the utilisation of the plots belonging to the operational holdings. An operational holding was considered to be non-agricultural when all the plots under it were put to purely non-agricultural uses namely housesites, buildings and huts, temples and mosques etc., tanks, ponds and other water areas, brick fields etc. All operational holdings other than non-agricultural ones were treated as agricultural. Thus an agricultural holding might have plots, all or some of which were put to agricultural uses. In other words, an operational holding either fully or partially utilised for agricultural purposes or use was called an agricultural holding, while an operational holding used entirely for non-agricultural purposes was classed as non-agricultural holding.

TABLE (1): ESTIMATED NUMBER OF AGRICULTURAL HOLDINGS AND AREA UNDER THEM BY SIZE OF OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

1. India		2. Rural sector					
holding size (acres)	Central sample		State sample		combined		
	number (000)	area (000 acres)	number (000)	area (000 acres)	number (000)	area (000 acres)	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1. 0.01 — 0.99	9930	3785	8126	3457	8744	3576	
2. 1.00 — 2.49	8948	15177	8448	14242	8616	14560	
3. 2.50 — 4.99	9913	36028	8906	32145	9250	33440	
4. 5.00 — 7.49	5843	35642	5186	31786	5398	33057	
5. 7.50 — 9.99	3566	30821	3261	28323	3353	29108	
6. 10.00—14.99	3453	42339	3450	41818	3438	41864	
7. 15.00—19.99	2064	35747	1860	31985	1920	33205	
8. 20.00—24.99	1085	24114	1010	22313	1029	22863	
9. 25.00—29.99	735	20119	709	19156	709	19416	
10. 30.00—49.99	1170	44729	1238	46752	1213	46085	
11. 50.00 and above	708	57950	682	56250	684	56819	
12. total	47415	346451	42876	328227	44354	333993	
13. average size of agricultural hold- ings (acres)		7.31		7.66		7.53	
14. number of sample villages		1410		3021		4431	
15. number of sample households		24366		51354		75720	

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TABLE (2): PERCENTAGE DISTRIBUTION OF NUMBER OF AGRICULTURAL HOLDINGS AND OF AREA UNDER THEM BY SIZE OF OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

1. India		2. Rural sector					
holding size (acres)	Central sample		State sample		combined		
	agricultural holdings	area	agricultural holdings	area	agricultural holdings	area	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1. 0.01 — 0.99	20.94	1.09	18.95	1.05	19.72	1.07	
2. 1.00 — 2.49	18.87	4.38	19.70	4.34	19.42	4.36	
3. 2.50 — 4.99	20.91	10.40	20.77	9.79	20.86	10.01	
4. 5.00 — 7.49	12.32	10.29	12.10	9.68	12.17	9.90	
5. 7.50 — 9.99	7.52	8.90	7.61	8.63	7.56	8.72	
6. 10.00—14.99	7.28	12.22	8.05	12.74	7.75	12.53	
7. 15.00—19.99	4.35	10.32	4.34	9.74	4.33	9.94	
8. 20.00—24.99	2.29	6.96	2.36	6.80	2.32	6.85	
9. 25.00—29.99	1.55	5.81	1.65	5.84	1.60	5.81	
10. 30.00—49.99	2.47	12.91	2.89	14.25	2.74	13.80	
11. 50.00 and above	1.50	16.72	1.58	17.14	1.53	17.01	
12. total	100.00	100.00	100.00	100.00	100.00	100.00	
13. estimated number of agricultural holding (000)	47415	—	42876	—	44354	—	
14. estimated area under agricultural holdings (000 acres)	—	346451	—	328227	—	333993	
15. number of sample villages	1410		3021		4431		
16. number of sample households	24366		51354		75720		

2.1. Tables (1) to (3) show the distributions of agricultural holdings and area under them by size of operational holdings, the percentage distribution and also the cumulative percentages of number of agricultural holdings and area under them below specified sizes. Table (4) shows the proportion of agricultural holdings and non-agricultural holdings and corresponding areas among the total operational holdings and area operated respectively for different size classes of operational holding. Figures are given for Central sample, State sample and Central and State samples combined.

2.2. It can be seen from the tables that the estimates of area under agricultural holdings obtained from the Central sample and State sample showed good agreement. The combined estimates show that in rural India there were 44354 thousand agricultural holdings commanding 333993 thousand acres of land, the average size of an agricultural holding being 7.53 acres. 8744 thousand holdings, each of size less than an acre, constituting 20 per cent of agricultural holdings accounted for 3576 thousand acres (i.e., 1 per cent) only of the total area under agricultural holdings. A little more than one-fifth of the total agricultural holdings was of size

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2.50 acres or more but less than 5.00 acres, together claiming one-tenth of the total area under agricultural holdings.

2.3. The combined estimates in Table (3) show that sixty per cent of agricultural holdings were of size less than 5 acres and their share amounted to 15 per cent of total area under agricultural holdings, while 17 per cent of total area was accounted for by 1.5 per cent of total agricultural holdings, each of size 50 acres or more.

TABLE (3): PERCENTAGE OF NUMBER OF AGRICULTURAL HOLDINGS BELOW SPECIFIED SIZE OF OPERATIONAL HOLDING AND CUMULATIVE PERCENTAGE OF AREA UNDER THEM, MAJOR CROP SEASON 1953-1954

1. India			2. Rural sector			
holding size (acres)	Central sample		State sample		combined	
	agricul- tural holdings	area	agricul- tural holdings	area	agricul- tural holdings	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. up to 1.00	20.94	1.09	18.95	1.05	19.72	1.07
2. " 2.50	39.81	5.47	38.65	5.39	39.14	5.43
3. " 5.00	60.72	15.87	59.42	15.18	60.00	15.44
4. " 7.50	73.04	26.16	71.52	24.86	72.17	25.34
5. " 10.00	80.56	35.06	79.13	33.49	79.73	34.06
6. " 15.00	87.84	47.28	87.18	46.23	87.48	46.59
7. " 20.00	92.19	57.60	91.52	55.97	91.81	56.53
8. " 25.00	94.48	64.56	93.88	62.77	94.13	63.38
9. " 30.00	96.03	70.37	95.53	68.61	95.73	69.19
10. " 50.00	98.50	83.28	98.42	82.86	98.47	82.99
11. all sizes	100.00	100.00	100.00	100.00	100.00	100.00
12. estimated number of agricultural holdings (000)	47415	—	42875	—	44354	—
13. estimated area under agricultural hold- ings (000 acres)	—	346451	—	328227	—	333993
14. number of sample villages	1410		3021		4431	
15. number of sample households	24366		51354		75720	

2.4. It is seen from the combined estimate in Table (4) that in rural India 28 per cent of the total holdings were non-agricultural in character and they had only 0.5 per cent of the total area operated. 72 per cent of total holdings were agricultural holdings accounting for almost the whole of total area operated. Holdings of size 0.005 acre were all non-agricultural. About 55 per cent of holdings of size less than an acre but more than 0.01 acre were non-agricultural ones having 11 per cent of total operated area under holdings of that size. Above an acre, more than 99 per cent of the total operational holdings in respective size classes were agricultural ones accounting for almost the same percentage of area in those size classes.

TABLE (4) : PERCENTAGE OF AGRICULTURAL AND NON-AGRICULTURAL HOLDINGS TO TOTAL NUMBER OF OPERATIONAL HOLDINGS AND THEIR PERCENTAGE SHARES OF TOTAL AREA OPERATED FOR EACH SIZE OF OPERATIONAL HOLDING, MAJOR CROP SEASON 1953-1954

1. India

2. Rural sector

holding size (acres)	Central sample						State sample						combined					
	total number of operational holdings (000)	percentage of operational holdings		total area operated (000 acres)	percentage of area operated		total number of operational holdings (000)	percentage of operational holdings		total area operated (000 acres)	percentage of area operated		total number of operational holdings (000)	percentage of operational holdings		total area operated (000 acres)	percentage of area operated	
		agri-cultural	non-agri-cultural		agri-cultural	non-agri-cultural		agri-cultural	non-agri-cultural		agri-cultural	non-agri-cultural		agri-cultural	non-agri-cultural		agri-cultural	non-agri-cultural
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. 0.00 <sup>1</sup>	3845	—	100.00	—	—	—	8225	—	100.00	—	—	—	6768	—	100.00	—	—	—
2. 0.01—0.99	22474	44.18	55.82	4198	90.16	9.84	17706	45.89	54.11	3947	87.59	12.41	19224	45.48	54.52	4038	88.56	11.44
3. 1.00—2.49	8974	99.71	0.29	15212	99.77	0.23	8548	98.83	1.17	14412	98.82	1.18	8692	99.13	0.87	14686	99.14	0.86
4. 2.50—4.99	9932	99.81	0.19	36112	99.77	0.23	8998	98.98	1.02	32458	99.04	0.96	9315	99.30	0.70	33678	99.29	0.71
5. 5.00—7.49	5862	99.68	0.32	35769	99.64	0.36	5201	99.71	0.29	31871	99.73	0.27	5415	99.69	0.31	33158	99.70	0.30
6. 7.50—9.99	3570	99.89	0.11	30856	99.89	0.11	3264	99.91	0.09	28349	99.91	0.09	3356	99.91	0.09	29136	99.90	0.10
7. 10.00—14.99	3455	99.94	0.06	42354	99.96	0.04	3458	99.77	0.23	41916	99.77	0.23	3443	99.85	0.15	41921	99.86	0.14
8. 15.00—19.99	2064	100.00	—	35747	100.00	—	1866	99.68	0.32	32096	99.65	0.35	1925	99.74	0.26	33283	99.77	0.23
9. 20.00—24.99	1085	100.00	—	24114	100.00	—	1013	99.70	0.30	22369	99.75	0.25	1032	99.71	0.29	22924	99.73	0.27
10. 25.00—29.99	736	99.86	0.14	20139	99.90	0.10	709	100.00	—	19156	100.00	—	709	100.00	0.00	19428	99.94	0.06
11. 30.00—49.99	1170	100.00	—	44729	100.00	—	1240	99.84	0.16	46851	99.79	0.21	1215	99.84	0.16	46151	99.86	0.14
12. 50.00 and above	709	99.86	0.14	58921	98.35	1.65	688	99.13	0.87	56617	99.35	0.65	686	99.71	0.29	57308	99.15	0.85
13. total	63876	74.23	25.77	348151	99.51	0.49	60916	70.39	29.61	330042	99.45	0.55	61780	71.79	28.21	335711	99.49	0.51
14. number of sample villages				1410						3021						4431		
15. number of sample households				24366						51354						75720		

<sup>1</sup> Operational holdings of size less than 0.005 acre are shown in this size class.

## APPENDIX II

### ESTIMATION PROCEDURE

1. In this survey, a stratified multi-stage sampling design was adopted, with villages as the first-stage units and households as second-stage units. Within a stratum, villages were selected with probability proportional to population and with replacement. Households in a selected village were stratified into three types and a sample of households was chosen from each household type separately, following the procedure of systematic sampling with a given random start and interval. The interval for a particular household type was so chosen as to make the inflation factor constant for all the sample villages in a single stratum or in a group of adjoining strata.

2. For a particular household type let  $x_{ij}$  be the value of any character  $x$  of the  $j^{\text{th}}$  household in the  $i^{\text{th}}$  village within the stratum. Then an unbiased stratum estimate of the character  $x$  for the particular household type from the  $i^{\text{th}}$  village is

$$\frac{1}{p_i} \frac{N_i}{n_i} \sum_{j=1}^{n_i} x_{ij}$$

where  $p_i$  is the probability of selection of the  $i^{\text{th}}$  village in the stratum,  $N_i$  is the total number of households and  $n_i$  is the number of sample households, of the particular type in the  $i^{\text{th}}$  village.

2.1. The interval of the systematic selection of households of a particular type in the  $i^{\text{th}}$  village is  $\frac{N_i}{n_i}$  and this interval was so chosen as to make  $\frac{1}{p_i} \frac{N_i}{n_i} = M$ , a constant for the particular type of households for all sample villages in the stratum or in a group of strata. Thus there were three inflation factors, one for each type of households in a stratum or a group of strata. If  $M_1$ ,  $M_2$  and  $M_3$  are the inflation factors for the three types of households and  $x_{ij}^{(1)}$ ,  $x_{ij}^{(2)}$  and  $x_{ij}^{(3)}$  are the values of the character  $x$  for the  $j^{\text{th}}$  household of the three types respectively in the  $i^{\text{th}}$  village, then the stratum estimate obtained from the  $i^{\text{th}}$  village is

$$M_1 \sum_j x_{ij}^{(1)} + M_2 \sum_j x_{ij}^{(2)} + M_3 \sum_j x_{ij}^{(3)}$$

where summations extend over the respective sample households.

3. So, for any character, for a sub-sample, the State estimate was built up by adding the estimates over all strata in the State and Zonal estimate, in turn, was obtained by adding the estimates of all the States in the population zone. All-India estimate was built up by summing the Zonal estimates.

4. The combined estimates for the Central sample, State sample and Central and State samples, taken together, were obtained by taking the arithmetic mean of the respective sub-sample estimates at State level.

APPENDIX III  
STATISTICAL TABLES

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TABLE 0: DISTRIBUTION OF SAMPLE HOUSEHOLDS BY  
SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector

	size of household operational holding (acres)	Central sample	State sample	total
	(1)	(2)	(3)	(4)
1.	0.00 <sup>1</sup>	1143	4748	5891
2.	0.01 — 0.04	3080	4093	7173
3.	0.05 — 0.09	613	1192	1805
4.	0.10 — 0.49	1211	2575	3786
5.	0.50 — 0.99	1072	2167	3239
6.	1.00 — 1.49	991	2151	3142
7.	1.50 — 2.49	1818	3470	5288
8.	2.50 — 4.99	3136	6590	9726
9.	5.00 — 7.49	2040	4504	6544
10.	7.50 — 9.99	1377	2988	4365
11.	10.00—14.99	2549	5620	8169
12.	15.00—19.99	1471	2992	4463
13.	20.00—24.99	1086	2281	3367
14.	25.00—29.99	731	1617	2348
15.	30.00—39.99	841	1866	2707
16.	40.00—49.99	427	983	1410
17.	50.00—74.99	492	932	1424
18.	75.00—99.99	148	299	447
19.	100.00—249.99	120	265	385
20.	250.00—499.99	13	18	31
21.	500.00 and above	7	3	10
22.	total	24366	51354	75720

<sup>1</sup> Includes households operating land less than 0.005 acre.



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TABLE 1: ESTIMATED NUMBER OF OPERATIONAL HOLDINGS AND AREA OPERATED  
BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India

2. Rural sector

	holding size (acres)	Central sample		State sample		combined	
		holdings (000)	area (000 acres)	holdings (000)	area (000 acres)	holdings (000)	area (000 acres)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.00 <sup>1</sup>	3845	—	8225	—	6768	—
2.	0.01 — 0.04	12132	222	7861	166	9204	179
3.	0.05 — 0.09	2244	148	2035	135	2091	136
4.	0.10 — 0.49	4348	1123	4254	1084	4293	1102
5.	0.50 — 0.99	3750	2705	3556	2562	3636	2621
6.	1.00 — 1.49	3367	4091	3264	3985	3298	4019
7.	1.50 — 2.49	5607	11121	5284	10427	5394	10667
8.	2.50 — 4.99	9932	36112	8998	32458	9315	33678
9.	5.00 — 7.49	5862	35769	5201	31871	5415	33158
10.	7.50 — 9.99	3570	30856	3264	28349	3356	29136
11.	10.00 — 14.99	3455	42354	3458	41916	3443	41921
12.	15.00 — 19.99	2064	35747	1866	32096	1925	33283
13.	20.00 — 24.99	1085	24114	1013	22369	1032	22924
14.	25.00 — 29.99	736	20139	709	19156	709	19428
15.	30.00 — 39.99	747	25873	811	27766	788	27115
16.	40.00 — 49.99	423	18856	429	19085	427	19036
17.	50.00 — 74.99	438	26305	421	25101	424	25490
18.	75.00 — 99.99	150	12458	136	11518	139	11801
19.	100.00—249.99	107	14245	118	16282	112	15733
20.	250.00—499.99	10	2915	11	2916	9	2914
21.	500.00 and above	4	2998	2	800	2	1370
22.	total	63876	348151	60916	330042	61780	335711
23.	average size of operational hold- ing (acres) <sup>2</sup>	5.45 (5.80)		5.42 (6.26)		5.43 (6.10)	
24.	number of sample villages	1410		3021		4431	
25.	number of sample households	24366		51354		75720	

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.

<sup>2</sup> Figures in brackets are obtained by omitting the operational holdings of size less than 0.005 acre.

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TABLE 2: PERCENTAGE DISTRIBUTION OF ESTIMATED NUMBER OF OPERATIONAL HOLDINGS AND OF AREA OPERATED BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India

2. Rural sector

	holding size (acres)	Central sample		State sample		combined	
		holdings	area	holdings	area	holdings	area
		(1)	(2)	(3)	(4)	(5)	(6)
1.	0.00 <sup>1</sup>	6.02	—	13.51	—	10.96	—
2.	0.01 — 0.04	18.98	0.06	12.91	0.05	14.90	0.05
3.	0.05 — 0.09	3.51	0.04	3.34	0.04	3.38	0.04
4.	0.10 — 0.49	6.81	0.32	6.98	0.33	6.95	0.33
5.	0.50 — 0.99	5.87	0.78	5.84	0.78	5.89	0.78
6.	1.00 — 1.49	5.27	1.18	5.36	1.21	5.34	1.20
7.	1.50 — 2.49	8.78	3.19	8.67	3.16	8.73	3.18
8.	2.50 — 4.99	15.55	10.37	14.78	9.83	15.08	10.02
9.	5.00 — 7.49	9.18	10.27	8.54	9.66	8.76	9.88
10.	7.50 — 9.99	5.59	8.86	5.36	8.59	5.43	8.68
11.	10.00 — 14.99	5.41	12.17	5.68	12.71	5.57	12.48
12.	15.00 — 19.99	3.23	10.27	3.06	9.72	3.12	9.91
13.	20.00 — 24.99	1.70	6.93	1.66	6.78	1.67	6.83
14.	25.00 — 29.99	1.15	5.78	1.16	5.80	1.15	5.79
15.	30.00 — 39.99	1.17	7.43	1.33	8.41	1.28	8.08
16.	40.00 — 49.99	0.66	5.42	0.70	5.78	0.69	5.67
17.	50.00 — 74.99	0.69	7.56	0.69	7.61	0.69	7.59
18.	75.00 — 99.99	0.23	3.58	0.22	3.49	0.22	3.52
19.	100.00—249.99	0.17	4.09	0.19	4.93	0.18	4.69
20.	250.00—499.99	0.02	0.84	0.02	0.88	0.01	0.87
21.	500.00 and above	0.01	0.86	0.00	0.24	0.00	0.41
22.	total	100.00	100.00	100.00	100.00	100.00	100.00
23.	estimated number of operational holdings (000)	63876	—	60916	—	61780	—
24.	estimated area operated (000 acres)	—	348151	—	330042	—	335711
25.	number of sample villages	1410		3021		4431	
26.	number of sample households	24366		51354		75720	

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.

*National Sample Survey*

TABLE 3: CUMULATIVE PERCENTAGE DISTRIBUTION BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS AND OF AREA OPERATED

(Reference period : major crop season, July 1953-June 1954)

1. India		2. Rural sector					
holding size (acres)	(1)	cumulative percentages					
		Central sample		State sample		combined	
		holdings	area	holdings	area	holdings	area
		(2)	(3)	(4)	(5)	(6)	(7)
1.	0.00 <sup>1</sup>	6.02	—	13.51	—	10.96	—
2.	up to 0.05	25.00	0.06	26.42	0.05	25.86	0.05
3.	„ 0.10	28.51	0.10	29.76	0.09	29.24	0.09
4.	„ 0.50	35.32	0.42	36.74	0.42	36.19	0.42
5.	„ 1.00	41.19	1.20	42.58	1.20	42.08	1.20
6.	„ 1.50	46.46	2.38	47.94	2.41	47.42	2.40
7.	„ 2.50	55.24	5.57	56.61	5.57	56.15	5.58
8.	„ 5.00	70.79	15.94	71.39	15.40	71.23	15.60
9.	„ 7.50	79.97	26.21	79.93	25.06	79.99	25.48
10.	„ 10.00	85.56	35.07	85.29	33.65	85.42	34.16
11.	„ 15.00	90.97	47.24	90.97	46.36	90.99	46.64
12.	„ 20.00	94.20	57.51	94.03	56.08	94.11	56.55
13.	„ 25.00	95.90	64.44	95.69	62.86	95.78	63.38
14.	„ 30.00	97.05	70.22	96.85	68.66	96.93	69.17
15.	„ 40.00	98.22	77.65	98.18	77.07	98.21	77.25
16.	„ 50.00	98.88	83.07	98.88	82.85	98.90	82.92
17.	„ 75.00	99.57	90.63	99.57	90.46	99.59	90.51
18.	„ 100.00	99.80	94.21	99.79	93.95	99.81	94.03
19.	„ 250.00	99.97	98.30	99.98	98.88	99.99	98.72
20.	„ 500.00	99.99	99.14	100.00	99.76	100.00	99.59
21.	all sizes	100.00	100.00	100.00	100.00	100.00	100.00
22.	estimated number of operational holdings (000)	63876	—	60916	—	61780	—
23.	estimated area operated (000 acres)	—	348151	—	330042	—	335711
24.	number of sample villages	1410		3021		4431	
25.	number of sample households	24366		51354		75720	

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.

*Report on Land Holdings (2)*

TABLE 4: ESTIMATED NUMBER OF INDIVIDUAL AND JOINT OPERATIONAL HOLDINGS AND THEIR SHARE OF AREA OPERATED BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India		2. Rural sector			3. Central and State samples combined		
number of sample villages : 4431					number of sample households : 75720		
holding size (acres)	holdings (000)			area operated (000 acres)			
	indivi- dual	joint	total	indivi- dually	jointly	total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1. 0.00 <sup>1</sup>	6757	11	6768	—	—	—	
2. 0.01 — 0.04	9100	104	9204	178	1	179	
3. 0.05 — 0.09	2017	74	2091	130	6	136	
4. 0.10 — 0.49	4045	248	4293	1042	60	1102	
5. 0.50 — 0.99	3445	191	3636	2481	140	2621	
6. 1.00 — 1.49	3118	180	3298	3801	218	4019	
7. 1.50 — 2.49	5116	278	5394	10115	552	10667	
8. 2.50 — 4.99	8827	488	9315	31910	1768	33678	
9. 5.00 — 7.49	5093	322	5415	31155	2003	33158	
10. 7.50 — 9.99	3119	237	3356	27062	2074	29136	
11. 10.00 — 14.99	3169	274	3443	38553	3368	41921	
12. 15.00 — 19.99	1733	192	1925	29933	3350	33283	
13. 20.00 — 24.99	947	85	1032	21039	1885	22924	
14. 25.00 — 29.99	645	64	709	17659	1769	19428	
15. 30.00 — 39.99	708	80	788	24358	2757	27115	
16. 40.00 — 49.99	382	45	427	17068	1968	19036	
17. 50.00 — 74.99	374	50	424	22461	3029	25490	
18. 75.00 — 99.99	119	20	139	10005	1796	11801	
19. 100.00—249.99	98	14	112	13788	1945	15733	
20. 250.00—499.99	8	1	9	2252	662	2914	
21. 500.00 and above	2	—	2	1370	—	1370	
22. total	58822	2958	61780	306360	29351	335711	
23. average size of operational holding (acres) <sup>2</sup>	—	—	—	5.21 (5.88)	9.92 (9.96)	5.43 (6.10)	

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.

<sup>2</sup> Figures in brackets are obtained by omitting operational holdings of size less than 0.005 acre.

*National Sample Survey*

TABLE 5: PERCENTAGE DISTRIBUTION OF ESTIMATED NUMBER OF INDIVIDUAL AND JOINT OPERATIONAL HOLDINGS AND OF RESPECTIVE AREAS BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India		2. Rural sector			3. Central and State samples combined		
number of sample villages : 4431					number of sample households : 75720		
holding size (acres)	holdings			area operated			
	indivi- dual	joint	total	indivi- dual	jointly	total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1. 0.00 <sup>1</sup>	11.49	0.37	10.96	—	—	—	
2. 0.01 — 0.04	15.46	3.52	14.90	0.06	0.00	0.05	
3. 0.05 — 0.09	3.43	2.50	3.38	0.04	0.02	0.04	
4. 0.10 — 0.49	6.88	8.38	6.95	0.34	0.20	0.33	
5. 0.50 — 0.99	5.86	6.46	5.89	0.81	0.48	0.78	
6. 1.00 — 1.49	5.30	6.09	5.34	1.24	0.74	1.20	
7. 1.50 — 2.49	8.70	9.40	8.73	3.30	1.88	3.18	
8. 2.50 — 4.99	15.00	16.51	15.08	10.42	6.02	10.03	
9. 5.00 — 7.49	8.66	10.89	8.76	10.17	6.82	9.88	
10. 7.50 — 9.99	5.30	8.01	5.43	8.83	7.07	8.67	
11. 10.00 — 14.99	5.39	9.26	5.57	12.58	11.48	12.49	
12. 15.00 — 19.99	2.95	6.49	3.12	9.77	11.41	9.91	
13. 20.00 — 24.99	1.61	2.87	1.67	6.87	6.42	6.82	
14. 25.00 — 29.99	1.10	2.16	1.15	5.76	6.03	5.79	
15. 30.00 — 39.99	1.20	2.70	1.28	7.95	9.39	8.08	
16. 40.00 — 49.99	0.65	1.52	0.69	5.57	6.71	5.67	
17. 50.00 — 74.99	0.64	1.69	0.69	7.33	10.32	7.59	
18. 75.00 — 99.99	0.20	0.68	0.22	3.27	6.12	3.52	
19. 100.00—249.99	0.17	0.47	0.18	4.50	6.63	4.69	
20. 250.00—499.99	0.01	0.03	0.01	0.74	2.26	0.87	
21. 500.00 and above	0.00	—	0.00	0.45	—	0.41	
22. total	100.00	100.00	100.00	100.00	100.00	100.00	
23. estimated number of operational holdings (000)	58822	2958	61780	—	—	—	
24. estimated area operated (000 acres)	—	—	—	306360	29351	335711	

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.



*National Sample Survey*

TABLE 7: PERCENTAGE OF INDIVIDUAL AND JOINT OPERATIONAL HOLDINGS AND THEIR SHARES OF AREA OPERATED IN EACH SIZE CLASS OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India		2. Rural sector		3. Central and State samples combined		
number of sample villages : 4431				number of sample households : 75720		
holding size (acres)	total holdings (000)	percentage of holdings		total area operated (000 acres)	percentage of area operated	
		indivi- dual	joint		indivi- dually	jointly
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	6768	99.84	0.16	—	—	—
2. 0.01 — 0.04	9204	98.87	1.13	179	99.44	0.56
3. 0.05 — 0.09	2091	96.46	3.54	136	95.59	4.41
4. 0.10 — 0.49	4293	94.22	5.78	1102	94.56	5.44
5. 0.50 — 0.99	3636	94.75	5.25	2621	94.66	5.34
6. 1.00 — 1.49	3298	94.54	5.46	4019	94.58	5.42
7. 1.50 — 2.49	5394	94.85	5.15	10667	94.83	5.17
8. 2.50 — 4.99	9315	94.76	5.24	33678	94.75	5.25
9. 5.00 — 7.49	5415	94.05	5.95	33158	93.96	6.04
10. 7.50 — 9.99	3356	92.94	7.06	29136	92.88	7.12
11. 10.00— 14.99	3443	92.04	7.96	41921	91.97	8.03
12. 15.00— 19.99	1925	90.03	9.97	33283	89.93	10.07
13. 20.00— 24.99	1032	91.76	8.24	22924	91.78	8.22
14. 25.00— 29.99	709	90.97	9.03	19428	90.89	9.11
15. 30.00— 39.99	788	89.85	10.15	27115	89.83	10.17
16. 40.00 — 49.99	427	89.46	10.54	19036	89.66	10.34
17. 50.00 — 74.99	424	88.21	11.79	25490	88.12	11.88
18. 75.00 — 99.99	139	85.61	14.39	11801	84.78	15.22
19. 100.00—249.99	112	87.50	12.50	15733	87.64	12.36
20. 250.00—499.99	9	88.89	11.11	2914	77.28	22.72
21. 500.00 and above	2	100.00	0.00	1370	100.00	0.00
22. total	61780	95.21	4.79	335711	91.26	8.74

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.





*National Sample Survey*

TABLE 9: PERCENTAGE DISTRIBUTION OF ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING LAND OWNED AND LAND LEASED IN AND OF AREAS OWNED AND LEASED IN BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

	holding size (acres)	holdings			area operated		
		total	reporting area owned	reporting area leased in	total	owned	leased in
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.01 — 0.04	16.73	11.44	18.52	0.05	0.04	0.11
2.	0.05 — 0.09	3.80	3.38	2.78	0.04	0.04	0.05
3.	0.10 — 0.49	7.80	7.38	6.60	0.33	0.30	0.46
4.	0.50 — 0.99	6.61	6.72	6.32	0.78	0.71	1.07
5.	1.00 — 1.49	6.00	6.20	5.93	1.20	1.09	1.63
6.	1.50 — 2.49	9.81	10.48	9.87	3.18	2.94	4.10
7.	2.50 — 4.99	16.93	18.32	17.76	10.02	9.44	12.35
8.	5.00 — 7.49	9.84	10.79	10.05	9.88	9.67	10.68
9.	7.50 — 9.99	6.10	6.85	6.05	8.68	8.68	8.66
10.	10.00 — 14.99	6.26	7.03	6.01	12.48	12.77	11.34
11.	15.00 — 19.99	3.50	3.90	3.49	9.91	9.91	9.89
12.	20.00 — 24.99	1.88	2.12	1.80	6.83	7.02	6.10
13.	25.00 — 29.99	1.29	1.49	1.24	5.79	6.01	4.93
14.	30.00 — 39.99	1.43	1.59	1.45	8.08	8.19	7.62
15.	40.00 — 49.99	0.78	0.87	0.84	5.67	5.58	6.04
16.	50.00 — 74.99	0.77	0.89	0.79	7.59	7.75	6.98
17.	75.00 — 99.99	0.25	0.30	0.28	3.52	3.52	3.48
18.	100.00—249.99	0.20	0.23	0.20	4.69	5.01	3.43
19.	250.00—499.99	0.02	0.02	0.02	0.87	1.00	0.37
20.	500.00 and above	0.00	0.00	0.00	0.41	0.33	0.71
21.	total	100.00	100.00	100.00	100.00	100.00	100.00
22.	estimated number of operational holdings (000)	55012	45695	21919	—	—	—
23.	estimated area operated (000 acres)	—	—	—	335711	267432	68279

*Note :* Operational holdings of size less than 0.005 acre are not included in this table.

*Report on Land Holdings (2)*

TABLE 10: CUMULATIVE PERCENTAGE DISTRIBUTIONS BY SPECIFIED SIZE LIMITS  
OF OPERATIONAL HOLDINGS REPORTING LAND OWNED AND LAND LEASED  
IN AND OF AREAS OWNED AND LEASED IN

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
number of sample villages : 4431 number of sample households : 75720

holding size (acres)	cumulative percentages					
	holdings			area operated		
	total	reporting area owned	reporting area leased in	total	owned	leased in
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. up to 0.05 <sup>1</sup>	16.73	11.44	18.52	0.05	0.04	0.11
2. „ 0.10	20.53	14.82	21.30	0.09	0.08	0.16
3. „ 0.50	28.33	22.20	27.90	0.42	0.38	0.62
4. „ 1.00	34.94	28.92	34.22	1.20	1.09	1.69
5. „ 1.50	40.94	35.12	40.15	2.40	2.18	3.32
6. „ 2.50	50.75	45.60	50.02	5.58	5.12	7.42
7. „ 5.00	67.68	63.92	67.78	15.60	14.56	19.77
8. „ 7.50	77.52	74.71	77.83	25.48	24.23	30.45
9. „ 10.00	83.62	81.56	83.88	34.16	32.91	39.11
10. „ 15.00	89.88	88.59	89.89	46.64	45.68	50.45
11. „ 20.00	93.38	92.49	93.38	56.55	55.59	60.34
12. „ 25.00	95.26	94.61	95.18	63.38	62.61	66.44
13. „ 30.00	96.55	96.10	96.42	69.17	68.62	71.37
14. „ 40.00	97.98	97.69	97.87	77.25	76.81	78.99
15. „ 50.00	98.76	98.56	98.71	82.92	82.39	85.03
16. „ 75.00	99.53	99.45	99.50	90.51	90.14	92.01
17. „ 100.00	99.78	99.75	99.78	94.03	93.68	95.49
18. „ 250.00	99.98	99.98	99.98	98.72	98.67	98.92
19. „ 500.00	100.00	100.00	100.00	99.59	99.67	99.29
20. all sizes	100.00	100.00	100.00	100.00	100.00	100.00
21. estimated number of operational holdings (000)	55012	45695	21919	—	—	—
22. estimated area operated (000 acres)	—	—	—	335711	267432	68279

<sup>1</sup> Excludes operational holdings of size less than 0.005 acre.

*National Sample Survey*

TABLE 11: PERCENTAGE OF OPERATIONAL HOLDINGS REPORTING LAND OWNED AND LAND LEASED IN AND PERCENTAGE SHARES OF AREAS OWNED AND LEASED IN FOR EACH SIZE CLASS OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

	holding size (acres)	total hold- ings (000)	percentage of holdings reporting area		total area operated (000 acres)	percentage of area	
			owned	leased in		owned	leased in
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.00 <sup>1</sup>	6768	—	—	—	—	—
2.	0.01 — 0.04	9204	56.83	44.09	179	59.78	40.22
3.	0.05 — 0.09	2091	73.94	29.17	136	74.26	25.74
4.	0.10 — 0.49	4293	78.55	33.71	1102	71.60	28.40
5.	0.50 — 0.99	3636	84.41	38.12	2621	72.19	27.81
6.	1.00 — 1.49	3298	85.84	39.39	4019	72.26	27.74
7.	1.50 — 2.49	5394	88.75	40.12	10667	73.77	26.23
8.	2.50 — 4.99	9315	89.87	41.77	33678	74.95	25.05
9.	5.00 — 7.49	5415	91.06	40.68	33158	78.01	21.99
10.	7.50 — 9.99	3356	93.30	39.51	29136	79.71	20.29
11.	10.00 — 14.99	3443	93.29	38.28	41921	81.53	18.47
12.	15.00 — 19.99	1925	92.57	39.79	33283	79.70	20.30
13.	20.00 — 24.99	1032	93.99	38.18	22924	81.84	18.16
14.	25.00 — 29.99	709	95.91	38.36	19428	82.67	17.33
15.	30.00 — 39.99	788	92.39	40.23	27115	80.80	19.20
16.	40.00 — 49.99	427	92.74	43.09	19036	78.33	21.67
17.	50.00 — 74.99	424	95.52	41.04	25490	81.31	18.69
18.	75.00 — 99.99	139	97.84	44.60	11801	79.86	20.14
19.	100.00—249.99	112	94.64	38.39	15733	85.10	14.90
20.	250.00—499.99	9	100.00	44.44	2914	91.35	8.65
21.	500.00 and above	2	100.00	50.00	1370	64.67	35.33
22.	total excluding those of size less than 0.005 acre	55012	83.06	39.84	335711	79.66	20.34
23.	total	61780	—	—	335711	79.66	20.34

<sup>1</sup> Includes operational holdings of size less than 0.005 acre.

Note : column (3) + column (4) ≥ 100.00  
 column (6) + column (7) = 100.00

TABLE 12 : ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT TYPES OF NON-OCCUPANCY TENANCY AND AREA UNDER EACH TYPE BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India

2. Rural sector

3. Central and State samples combined

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	leased in		rented in with formal contract paying						rented in without formal contract paying						rented in on other terms		rented in on terms not specified	
	number of operational holdings reporting (000)	area (000 acres)	cash rent		fixed crop rent		proportionate crop rent		cash rent		fixed crop rent		proportionate crop rent		hold-ings (000)	area (000)	hold-ings (000)	area (000)
			hold-ings report-ing (000)	area (000 acres)	hold-ings report-ing (000)	area (000 acres)	hold-ings report-ing (000)	area (000 acres)	hold-ings report-ing (000)	area (000 acres)	hold-ings report-ing (000)	area (000 acres)						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. 0.01 — 0.04	4058	72	192	5	12	0	3	0	485	7	7	0	44	1	3040	57	295	2
2. 0.05 — 0.09	610	35	60	3	2	0	3	0	124	6	—	—	15	1	372	24	47	1
3. 0.10 — 0.49	1447	313	244	62	32	7	39	10	168	27	16	4	213	54	800	136	69	13
4. 0.50 — 0.99	1386	729	261	146	59	35	80	43	196	93	38	19	299	160	565	203	84	30
5. 1.00 — 1.49	1299	1115	254	219	72	61	108	94	157	111	67	58	335	284	450	251	75	37
6. 1.50 — 2.49	2164	2798	381	415	188	251	254	308	222	255	114	152	571	714	655	546	160	157
7. 2.50 — 4.99	3891	8436	706	1450	267	602	414	876	504	908	230	488	1157	2540	1070	1156	342	416
8. 5.00 — 7.49	2203	7292	384	1136	143	502	206	632	267	821	117	345	642	2218	683	1106	233	532
9. 7.50 — 9.99	1326	5911	205	953	86	408	118	606	209	804	69	231	367	1700	408	886	120	323
10. 10.00 — 14.99	1318	7742	237	1295	50	265	117	748	240	1206	53	307	352	2114	464	1370	105	437
11. 15.00 — 19.99	766	6755	148	1252	21	176	68	537	137	1048	24	161	206	1863	277	1448	53	270
12. 20.00 — 24.99	394	4162	60	601	17	168	26	235	84	907	11	77	113	1296	131	576	40	302
13. 25.00 — 29.99	272	3366	50	609	10	132	28	345	49	553	5	69	64	867	101	546	27	245
14. 30.00 — 39.99	317	5206	51	743	8	114	31	516	68	1066	8	163	80	1502	107	881	30	221
15. 40.00 — 49.99	184	4126	37	612	4	111	24	361	38	684	6	163	48	1112	65	874	10	209
16. 50.00 — 74.99	174	4764	32	712	4	71	25	625	46	1079	2	33	39	1305	55	634	20	305
17. 75.00 — 99.99	62	2377	14	532	0	15	6	91	16	575	2	54	12	541	17	403	6	166
18. 100.00 — 249.99	43	2344	8	455	0	56	3	199	10	509	1	36	11	453	16	496	4	140
19. 250.00 — 499.99	4	252	1	21	—	—	—	—	2	117	0	3	0	5	2	106	—	—
20. 500.00 and above	1	484	—	—	—	—	—	—	1	484	—	—	—	—	—	—	—	—
21. total	21919	68279	3325	11221	975	2974	1553	6226	3023	11260	770	2363	4568	18730	9278	11699	1720	3806
22. average area per reporting holding (acres)	—	3.12	—	3.37	—	3.05	—	4.01	—	3.72	—	3.07	—	4.10	—	1.26	—	2.21

TABLE 13 : PERCENTAGE DISTRIBUTION OF ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT TYPES OF NON-OCCUPANCY TENANCY AND OF AREA UNDER EACH TYPE BY SIZE OF OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India number of sample villages : 4431		2. Rural sector								3. Central and State samples combined number of sample households : 75720									
holding size (acres)	leased in		rented in with formal contract paying						rented in without formal contract paying										
	hold- ings report- ing	area	cash rent		fixed crop rent		proportionate crop rent		cash rent		fixed crop rent		proportionate crop rent		rented in on other terms		rented in on terms not specified		
			hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area	hold- ings report- ing	area			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	
1.	0.01 — 0.04	18.52	0.11	5.77	0.04	1.23	0.00	0.19	0.00	16.05	0.06	0.91	0.00	0.96	0.01	32.78	0.49	17.15	0.05
2.	0.05 — 0.09	2.78	0.05	1.80	0.03	0.21	0.00	0.19	0.00	4.10	0.05	—	—	0.33	0.01	4.01	0.21	2.73	0.03
3.	0.10 — 0.49	6.60	0.46	7.34	0.55	3.28	0.24	2.51	0.16	5.56	0.24	2.08	0.17	4.66	0.29	8.62	1.16	4.01	0.34
4.	0.50 — 0.99	6.32	1.07	7.85	1.30	6.05	1.18	5.15	0.69	6.48	0.83	4.94	0.80	6.55	0.85	6.09	1.74	4.88	0.79
5.	1.00 — 1.49	5.93	1.63	7.64	1.95	7.38	2.05	6.95	1.51	5.19	0.99	8.70	2.45	7.33	1.52	4.85	2.15	4.36	0.97
6.	1.50 — 2.49	9.87	4.10	11.46	3.70	19.28	8.44	16.36	4.95	7.34	2.26	14.81	6.43	12.50	3.81	7.06	4.67	9.30	4.13
7.	2.50 — 4.99	17.76	12.35	21.24	12.93	27.39	20.24	26.67	14.07	16.68	8.06	29.86	20.65	25.34	13.55	11.53	9.88	19.89	10.93
8.	5.00 — 7.49	10.05	10.68	11.56	10.12	14.67	16.88	13.26	10.15	8.83	7.29	15.19	14.60	14.06	11.83	7.36	9.45	13.56	13.98
9.	7.50 — 9.99	6.05	8.66	6.17	8.49	8.82	13.72	7.60	9.73	6.91	7.14	8.96	9.78	8.03	9.08	4.40	7.57	6.98	8.49
10.	10.00 — 14.99	6.01	11.34	7.13	11.54	5.13	8.91	7.53	12.01	7.94	10.71	6.88	12.99	7.71	11.28	5.00	11.71	6.10	11.48
11.	15.00 — 19.99	3.49	9.89	4.45	11.16	2.15	5.92	4.38	8.63	4.53	9.39	3.12	6.81	4.51	9.95	2.99	12.37	3.08	7.09
12.	20.00 — 24.99	1.80	6.10	1.80	5.36	1.74	5.65	1.67	3.77	2.78	8.06	1.43	3.26	2.47	6.92	1.41	4.92	2.33	7.93
13.	25.00 — 29.99	1.24	4.93	1.50	5.43	1.03	4.44	1.80	5.54	1.62	4.91	0.65	2.92	1.40	4.63	1.09	4.67	1.57	6.44
14.	30.00 — 39.99	1.45	7.62	1.53	6.62	0.82	3.83	2.00	8.29	2.25	9.47	1.04	6.90	1.75	8.02	1.15	7.53	1.74	5.81
15.	40.00 — 49.99	0.84	6.04	1.11	5.45	0.41	3.73	1.55	5.80	1.26	6.07	0.78	6.90	1.05	5.94	0.70	7.47	0.58	5.49
16.	50.00 — 74.99	0.79	6.98	0.96	6.35	0.41	2.39	1.61	10.04	1.52	9.58	0.26	1.40	0.85	6.97	0.59	5.42	1.16	8.01
17.	75.00 — 99.99	0.28	3.48	0.42	4.74	0.00	0.50	0.39	1.46	0.53	5.11	0.26	2.29	0.26	2.89	0.18	3.44	0.35	4.36
18.	100.00 — 249.99	0.20	3.43	0.24	4.05	0.00	1.88	0.19	3.20	0.33	4.52	0.13	1.52	0.24	2.42	0.17	4.24	0.23	3.68
19.	250.00 — 499.99	0.02	0.37	0.03	0.19	—	—	—	—	0.07	1.04	0.00	0.13	0.00	0.03	0.02	0.91	—	—
20.	500.00 and above	0.00	0.71	—	—	—	—	—	—	0.03	4.30	—	—	—	—	—	—	—	—
21.	total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
22.	estimated number of holdings reporting (000)	21919	—	3325	—	975	—	1553	—	3023	—	770	—	4568	—	9278	—	1720	—
23.	estimated area (000 acres)	—	68279	—	11221	—	2974	—	6226	—	11260	—	2363	—	18730	—	11699	—	3806

TABLE 14 : CUMULATIVE PERCENTAGE DISTRIBUTIONS BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT TYPES OF NON-OCCUPANCY TENANCY AND OF AREA UNDER EACH TYPE

(Reference period : major crop season, July 1953-June 1954)

1. India

2. Rural sector

3. Central and State samples combined

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	leased in		rented in with formal contract paying						rented in without formal contract paying						rented in on other terms		rented in on terms not specified	
	hold-ings report-ing	area	cash rent		fixed crop rent		proportionate crop rent		cash rent		fixed crop rent		proportionate crop rent		hold-ings report-ing	area	hold-ings report-ing	area
			hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. up to 0.05	18.52	0.11	5.77	0.04	1.23	0.00	0.19	0.00	16.05	0.06	0.91	0.00	0.96	0.01	32.78	0.49	17.15	0.05
2. " 0.10	21.30	0.16	7.57	0.07	1.44	0.00	0.38	0.00	20.15	0.11	0.91	0.00	1.29	0.02	36.79	0.70	19.88	0.08
3. " 0.50	27.90	0.62	14.91	0.62	4.72	0.24	2.89	0.16	25.71	0.35	2.99	0.17	5.95	0.31	45.41	1.86	23.89	0.42
4. " 1.00	34.22	1.69	22.76	1.92	10.77	1.42	8.04	0.85	32.19	1.18	7.93	0.97	12.50	1.16	51.50	3.60	28.77	1.21
5. " 1.50	40.15	3.32	30.40	3.87	18.15	3.47	14.99	2.36	37.38	2.17	16.63	3.42	19.83	2.68	56.35	5.75	33.13	2.18
6. " 2.50	50.02	7.42	41.86	7.57	37.43	11.91	31.35	7.31	44.72	4.43	31.44	9.85	32.33	6.49	63.41	10.42	42.43	6.31
7. " 5.00	67.78	19.77	63.10	20.50	64.82	32.15	58.02	21.38	61.40	12.49	61.30	30.50	57.67	20.04	74.94	20.30	62.32	17.24
8. " 7.50	77.83	30.45	74.66	30.62	79.49	49.03	71.28	31.53	70.23	19.78	76.49	45.10	71.73	31.87	82.30	29.75	75.88	31.22
9. " 10.00	83.88	39.11	80.83	39.11	88.31	62.75	78.88	41.26	77.14	26.92	85.45	54.88	79.76	40.95	86.70	37.32	82.86	39.71
10. " 15.00	89.89	50.45	87.96	50.65	93.44	71.66	86.41	53.27	85.08	37.63	92.33	67.87	87.47	52.23	91.70	49.03	88.96	51.19
11. " 20.00	93.38	60.34	92.41	61.81	95.59	77.58	90.79	61.90	89.61	46.94	95.45	74.68	91.98	62.18	94.69	61.40	92.04	58.28
12. " 25.00	95.18	66.44	94.21	67.17	97.33	83.23	92.46	65.67	92.39	55.00	96.88	77.94	94.45	69.10	96.10	66.32	94.37	66.21
13. " 30.00	96.42	71.37	95.71	72.60	98.36	87.67	94.26	71.21	94.01	59.91	97.53	80.86	95.85	73.73	97.19	70.99	95.94	72.65
14. " 40.00	97.87	78.99	97.24	79.22	99.18	91.50	96.26	79.50	96.26	69.38	98.57	87.76	97.60	81.75	98.34	78.52	97.68	78.46
15. " 50.00	98.71	85.03	98.35	84.67	99.59	95.23	97.81	85.30	97.52	75.45	99.35	94.66	98.65	87.69	99.04	85.99	98.26	83.95
16. " 75.00	99.50	92.01	99.31	91.02	100.00	97.62	99.42	95.34	99.04	85.03	99.61	96.06	99.50	94.66	99.63	91.41	99.42	91.96
17. " 100.00	99.78	95.49	99.73	95.76	100.00	98.12	99.81	96.80	99.57	90.14	99.87	98.35	99.76	97.55	99.81	94.85	99.77	96.32
18. " 250.00	99.98	98.92	99.97	99.81	100.00	100.00	100.00	100.00	99.90	94.66	100.00	99.87	100.00	99.97	99.98	99.09	100.00	100.00
19. " 500.00	100.00	99.29	100.00	100.00	—	—	—	—	99.97	95.70	100.00	100.00	100.00	100.00	100.00	100.00	—	—
20. all sizes	100.00	100.00	—	—	—	—	—	—	100.00	100.00	—	—	—	—	—	—	—	—
21. estimated number of holdings reporting (000)	21919	—	3325	—	975	—	1553	—	3023	—	770	—	4568	—	9278	—	1720	—
22. estimated area (000 acres)	—	68279	—	11221	—	2974	—	6226	—	11260	—	2363	—	18730	—	11699	—	3806

TABLE 15: PERCENTAGE OF TOTAL NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA LEASED IN UNDER DIFFERENT TYPES OF NON-OCCUPANCY TENANCY AND PERCENTAGE OF AREA UNDER EACH TYPE FOR EACH SIZE CLASS OF OPERATIONAL HOLDING

(Reference period: major crop season, July 1953-June 1954)

1. India

2. Rural sector

3. Central and State samples combined

number of sample villages : 4431

number of sample households : 75720

holding size (acres)	holdings report- ing area leased in (000)	percentage of holdings reporting land rented in									percentage of area rented in							
		with formal contract paying			without formal contract paying			on other terms	on terms not speci- fied	area leased in (000 acres)	with formal contract paying			without formal contract paying			on other terms	on terms not speci- fied
		cash rent	fixed crop rent	pro- portio- nate crop rent	cash rent	fixed crop rent	pro- portio- nate crop rent				cash rent	fixed crop rent	pro- portio- nate crop rent	cash rent	fixed crop rent	pro- portio- nate crop rent		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
1. 0.01 — 0.04	4058	4.73	0.30	0.07	11.95	0.17	1.08	74.91	7.27	72	6.94	0.00	0.00	9.72	0.00	1.39	79.17	2.78
2. 0.05 — 0.09	610	9.84	0.33	0.49	20.33	—	2.46	60.98	7.70	35	8.57	0.00	0.00	17.14	—	2.86	68.57	2.86
3. 0.10 — 0.49	1447	16.86	2.21	2.70	11.61	1.11	14.72	55.29	4.77	313	19.81	2.24	3.19	8.63	1.28	17.25	43.45	4.15
4. 0.50 — 0.99	1386	18.83	4.26	5.77	14.14	2.74	21.57	40.76	6.06	729	20.03	4.80	5.90	12.76	2.61	21.94	27.84	4.12
5. 1.00 — 1.49	1299	19.55	5.54	8.31	12.09	5.16	25.79	34.64	5.77	1115	19.64	5.47	8.43	9.96	5.20	25.47	22.51	3.32
6. 1.50 — 2.49	2164	17.61	8.69	11.74	10.26	5.27	26.39	30.27	7.39	2798	14.83	8.97	11.01	9.11	5.43	25.53	19.51	5.61
7. 2.50 — 4.99	3891	18.14	6.86	10.64	12.95	5.91	29.74	27.50	8.79	8436	17.19	7.14	10.38	10.76	5.78	30.12	13.70	4.93
8. 5.00 — 7.49	2203	17.43	6.49	9.35	12.12	5.31	29.14	31.00	10.58	7292	15.58	6.88	8.67	11.26	4.73	30.41	15.17	7.30
9. 7.50 — 9.99	1326	15.46	6.49	8.90	15.76	5.20	27.68	30.77	9.05	5911	16.12	6.90	10.25	13.60	3.91	28.77	14.99	5.46
10. 10.00 — 14.99	1318	17.98	3.79	8.88	18.21	4.02	26.71	35.20	7.97	7742	16.73	3.42	9.66	15.58	3.97	27.30	17.70	5.64
11. 15.00 — 19.99	766	19.32	2.74	8.88	17.89	3.13	26.89	36.16	6.92	6755	18.53	2.61	7.95	15.51	2.38	27.58	21.44	4.00
12. 20.00 — 24.99	394	15.23	4.31	6.60	21.32	2.79	28.68	33.25	10.15	4162	14.44	4.04	5.65	21.79	1.85	31.13	13.84	7.26
13. 25.00 — 29.99	272	18.38	3.68	10.29	18.01	1.84	23.53	37.13	9.93	3366	18.09	3.92	10.25	16.43	2.05	25.76	16.22	7.28
14. 30.00 — 39.99	317	16.09	2.52	9.78	21.45	2.52	25.24	33.75	9.46	5206	14.27	2.19	9.91	20.48	3.13	28.85	16.92	4.25
15. 40.00 — 49.99	184	20.11	2.17	13.04	20.65	3.26	26.09	35.33	5.43	4126	14.83	2.69	8.75	16.58	3.95	26.95	21.18	5.07
16. 50.00 — 74.99	174	18.39	2.30	14.37	26.44	1.15	22.41	31.61	11.49	4764	14.95	1.49	13.12	22.65	0.69	27.39	13.31	6.40
17. 75.00 — 99.99	62	22.58	0.00	9.68	25.81	3.23	19.35	27.42	9.68	2377	22.38	0.63	3.83	24.20	2.27	22.76	16.95	6.98
18. 100.00 — 249.99	43	18.60	0.00	6.98	23.26	2.33	25.58	37.21	9.30	2344	19.41	2.39	8.49	21.71	1.54	19.33	21.16	5.97
19. 250.00 — 499.99	4	25.00	—	—	50.00	0.00	0.00	50.00	—	252	8.33	—	—	46.43	1.19	1.98	42.07	—
20. 500.00 and above	1	—	—	—	100.00	—	—	—	—	484	—	—	—	100.00	—	—	—	—
21. total	21919	15.17	4.45	7.09	13.79	3.51	20.84	42.33	7.85	68279	16.43	4.36	9.12	16.49	3.46	27.44	17.13	5.57

Report on Land Holdings (2)

TABLE 16: ESTIMATED NUMBER OF HOUSEHOLDS AND AREA OPERATED BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India

2. Rural sector

size of household operational holding (acres)	Central sample		State sample		combined	
	house-holds (000)	area (000 acres)	house-holds (000)	area (000 acres)	house-holds (000)	area (000 acres)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	3848	—	8369	—	6903	—
2. 0.01 — 0.04	11983	238	7856	158	9155	181
3. 0.05 — 0.09	2177	154	2067	133	2092	139
4. 0.10 — 0.49	4363	1142	4456	1157	4433	1157
5. 0.50 — 0.99	3855	2754	3759	2697	3806	2727
6. 1.00 — 1.49	3437	4184	3502	4287	3487	4254
7. 1.50 — 2.49	6031	11994	5623	11081	5766	11395
8. 2.50 — 4.99	10390	37743	9569	34635	9856	35724
9. 5.00 — 7.49	5956	36175	5436	33239	5605	34190
10. 7.50 — 9.99	3598	31114	3419	29644	3469	30091
11. 10.00 — 14.99	3517	43002	3503	42493	3497	42525
12. 15.00 — 19.99	2105	36552	1786	30732	1887	32648
13. 20.00 — 24.99	1048	23406	1014	22463	1022	22722
14. 25.00 — 29.99	714	19443	699	19081	700	19138
15. 30.00 — 39.99	766	26201	807	27586	789	27064
16. 40.00 — 49.99	418	18557	420	18615	420	18601
17. 50.00 — 74.99	424	25460	389	23224	402	23947
18. 75.00 — 99.99	120	10245	118	10010	121	10105
19. 100.00 — 249.99	98	13377	118	15944	111	15233
20. 250.00 — 499.99	10	2960	7	2064	9	2348
21. 500.00 and above	5	3450	1	799	2	1522
22. total	64863	348151	62918	330042	63532	335711
23. average size of household operational holding (acres) <sup>2</sup>	5.37 (5.71)		5.25 (6.05)		5.28 (5.93)	
24. number of sample villages	1410		3021		4431	
25. number of sample households	24366		51354		75720	

<sup>1</sup> Includes households operating land less than 0.005 acre.

<sup>2</sup> Figures in brackets are obtained by omitting the households operating land less than 0.005 acre.



*National Sample Survey*

TABLE 17: PERCENTAGE DISTRIBUTION OF ESTIMATED NUMBER OF HOUSEHOLDS  
AND OF AREA OPERATED BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India		2. Rural sector					
size of household operational holding (acres)	Central sample		State sample		combined		
	house- holds	area	house- holds	area	house- holds	area	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1. 0.00 <sup>1</sup>	5.93	—	13.30	—	10.87	—	
2. 0.01 — 0.04	18.47	0.07	12.49	0.05	14.42	0.05	
3. 0.05 — 0.09	3.36	0.04	3.28	0.04	3.29	0.04	
4. 0.10 — 0.49	6.73	0.33	7.08	0.35	6.98	0.34	
5. 0.50 — 0.99	5.94	0.79	5.97	0.82	5.99	0.81	
6. 1.00 — 1.49	5.30	1.20	5.57	1.30	5.49	1.27	
7. 1.50 — 2.49	9.30	3.45	8.94	3.36	9.08	3.39	
8. 2.50 — 4.99	16.02	10.84	15.21	10.49	15.52	10.65	
9. 5.00 — 7.49	9.18	10.39	8.64	10.07	8.82	10.18	
10. 7.50 — 9.99	5.55	8.94	5.43	8.98	5.46	8.96	
11. 10.00 — 14.99	5.42	12.36	5.57	12.88	5.50	12.68	
12. 15.00 — 19.99	3.24	10.50	2.84	9.31	2.97	9.73	
13. 20.00 — 24.99	1.62	6.72	1.61	6.81	1.61	6.77	
14. 25.00 — 29.99	1.10	5.58	1.11	5.78	1.10	5.70	
15. 30.00 — 39.99	1.18	7.53	1.28	8.36	1.24	8.06	
16. 40.00 — 49.99	0.64	5.33	0.67	5.64	0.66	5.54	
17. 50.00 — 74.99	0.65	7.31	0.62	7.04	0.63	7.13	
18. 75.00 — 99.99	0.19	2.94	0.19	3.03	0.19	3.01	
19. 100.00—249.99	0.15	3.84	0.19	4.83	0.17	4.54	
20. 250.00—499.99	0.02	0.85	0.01	0.62	0.01	0.70	
21. 500.00 and above	0.01	0.99	0.00	0.24	0.00	0.45	
22. total	100.00	100.00	100.00	100.00	100.00	100.00	
23. estimated number of households (000)	64863	—	62918	—	63532	—	
24. estimated area operated (000 acres)	—	348151	—	330042	—	335711	
25. number of sample villages	1410	—	3021	—	4431	—	
26. number of sample households	24366	—	51354	—	75720	—	

<sup>1</sup> Includes households operating land less than 0.005 acre.

Report on Land Holdings (2)

TABLE 18 : CUMULATIVE PERCENTAGE DISTRIBUTIONS OF HOUSEHOLDS AND AREA OPERATED BY SPECIFIED SIZE LIMITS OF HOUSEHOLD OPERATIONAL HOLDINGS

(Reference period : major crop season, July 1953-June 1954)

1. India

2. Rural sector

size of household operational holding (acres)	Central sample		State sample		combined	
	house-holds	area	house-holds	area	house-holds	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	5.93	—	13.30	—	10.87	—
2. up to 0.05	24.40	0.07	25.79	0.05	25.29	0.05
3. „ 0.10	27.76	0.11	29.07	0.09	28.58	0.09
4. „ 0.50	34.49	0.44	36.15	0.44	35.56	0.43
5. „ 1.00	40.43	1.23	42.12	1.26	41.55	1.24
6. „ 1.50	45.73	2.43	47.69	2.56	47.04	2.51
7. „ 2.50	55.03	5.88	56.63	5.92	56.12	5.90
8. „ 5.00	71.05	16.72	71.84	16.41	71.64	16.55
9. „ 7.50	80.23	27.11	80.48	26.48	80.46	26.73
10. „ 10.00	85.78	36.05	85.91	35.46	85.92	35.69
11. „ 15.00	91.20	48.41	91.48	48.34	91.42	48.37
12. „ 20.00	94.44	58.91	94.32	57.65	94.39	58.10
13. „ 25.00	96.06	65.63	95.93	64.46	96.00	64.87
14. „ 30.00	97.16	71.21	97.04	70.24	97.10	70.57
15. „ 40.00	98.34	78.74	98.32	78.60	98.34	78.63
16. „ 50.00	98.98	84.07	98.99	84.24	99.00	84.17
17. „ 75.00	99.63	91.38	99.61	91.28	99.63	91.30
18. „ 100.00	99.82	94.32	99.80	94.31	99.82	94.31
19. „ 250.00	99.97	98.16	99.99	99.14	99.99	98.85
20. „ 500.00	99.99	99.01	100.00	99.76	100.00	99.55
21. all sizes	100.00	100.00	100.00	100.00	100.00	100.00
22. estimated number of households (000)	64863	—	62918	—	63532	—
23. estimated area operated (000 acres)	—	348151	—	330042	—	335711
24. number of sample villages	1410		3021		4431	
25. number of sample households	24366		51354		75720	

<sup>1</sup> Includes households operating land less than 0.005 acre.

*National Sample Survey*

TABLE 19: ESTIMATED HOUSEHOLD SIZE BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953–June 1954)

1. India

2. Rural sector

	Central sample			State sample		combined	
	size of household operational holding (acres)	number of households (000)	household size	number of households (000)	household size	number of households (000)	household size
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.00 <sup>1</sup>	3848	3.49	8369	3.99	6903	3.91
2.	0.01 — 0.04	11983	3.68	7856	3.85	9155	3.76
3.	0.05 — 0.09	2177	4.02	2067	4.36	2092	4.25
4.	0.10 — 0.49	4363	4.37	4456	4.52	4433	4.47
5.	0.50 — 0.99	3855	4.56	3759	4.63	3806	4.61
6.	1.00 — 1.49	3437	4.49	3502	4.80	3487	4.69
7.	1.50 — 2.49	6031	4.71	5623	4.98	5766	4.88
8.	2.50 — 4.99	10390	5.18	9569	5.27	9856	5.24
9.	5.00 — 7.49	5956	5.65	5436	5.82	5605	5.76
10.	7.50 — 9.99	3598	6.11	3419	6.17	3469	6.16
11.	10.00 — 14.99	3517	6.32	3503	6.35	3497	6.34
12.	15.00 — 19.99	2105	6.87	1786	6.69	1887	6.76
13.	20.00 — 24.99	1048	7.10	1014	6.74	1022	6.86
14.	25.00 — 29.99	714	7.10	699	7.14	700	7.15
15.	30.00 — 39.99	766	7.05	807	7.15	789	7.15
16.	40.00 — 49.99	418	7.05	420	7.61	420	7.40
17.	50.00 — 74.99	424	8.36	389	7.93	402	8.05
18.	75.00 — 99.99	120	8.41	118	8.88	121	8.55
19.	100.00—249.99	98	9.43	118	8.40	111	8.78
20.	250.00—499.99	10	8.70	7	12.00	9	9.33
21.	500.00 and above	5	11.40	1	10.00	2	11.50
22.	total	64863	4.92	62918	5.06	63532	5.01
23.	number of sample villages	1410		3021		4431	
24.	number of sample households	24366		51354		75720	

<sup>1</sup> Includes households operating land less than 0.005 acre.

*Report on Land Holdings (2)*

TABLE 20 : ESTIMATED NUMBER OF CATTLE OWNED, UNDER DIFFERENT CATEGORIES  
BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

size of household operational holding (acres)	number of cattle (000)							total cattle	
	male				female				
	bulls (breed- ing)	working bulls and bullocks	others	total	cows in milk	others	total		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
1.	0.00 <sup>1</sup>	92	715	801	1608	753	1617	2370	3978
2.	0.01 — 0.04	119	502	512	1133	737	1418	2155	3288
3.	0.05 — 0.09	45	211	204	460	259	527	786	1246
4.	0.10 — 0.49	117	1139	423	1679	669	1313	1982	3661
5.	0.50 — 0.99	200	2071	464	2735	696	1442	2138	4873
6.	1.00 — 1.49	116	2828	631	3575	720	1623	2343	5918
7.	1.50 — 2.49	301	5972	1216	7489	1519	3331	4850	12339
8.	2.50 — 4.99	695	14019	2851	17565	3680	7505	11185	28750
9.	5.00 — 7.49	494	9713	2251	12458	2912	5678	8590	21048
10.	7.50 — 9.99	317	6769	1852	8938	1976	4018	5994	14932
11.	10.00 — 14.99	374	7860	1903	10137	2286	4625	6911	17048
12.	5.00 — 19.99	229	4892	1163	6284	1450	2860	4310	10594
13.	20.00 — 24.99	212	2821	804	3837	933	1845	2778	6615
14.	25.00 — 29.99	111	2170	585	2866	669	1413	2082	4948
15.	30.00 — 39.99	107	2609	825	3541	905	1842	2747	6288
16.	40.00 — 49.99	85	1610	394	2089	547	1136	1683	3772
17.	50.00 — 74.99	84	1661	465	2210	551	1201	1752	3962
18.	75.00 — 99.99	32	582	174	788	190	443	633	1421
19.	100.00—249.99	62	854	215	1131	251	656	907	2038
20.	250.00—499.99	15	83	33	131	21	64	85	216
21.	500.00 and above	—	18	2	20	6	14	20	40
22.	total	3807	69099	17768	90674	21730	44571	66301	156975

<sup>1</sup> Households operating land less than 0.005 acre are included in this class.

*National Sample Survey*

TABLE 21 : PERCENTAGE DISTRIBUTION OF THE ESTIMATED NUMBER OF CATTLE OWNED, UNDER DIFFERENT CATEGORIES BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

size of household operational holding (acres)	percentage of cattle							
	male				female			total cattle
	bulls breeding	bulls and bullocks working	others	total	cows in milk	others	total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. 0.00 <sup>1</sup>	2.42	1.03	4.51	1.77	3.47	3.63	3.58	2.53
2. 0.01 — 0.04	3.13	0.73	2.88	1.25	3.39	3.18	3.25	2.10
3. 0.05 — 0.09	1.18	0.31	1.15	0.51	1.19	1.18	1.19	0.79
4. 0.10 — 0.49	3.07	1.65	2.38	1.85	3.08	2.95	2.99	2.33
5. 0.50 — 0.99	5.25	3.00	2.61	3.02	3.20	3.24	3.22	3.10
6. 1.00 — 1.49	3.05	4.09	3.55	3.94	3.31	3.64	3.53	3.77
7. 1.50 — 2.49	7.91	8.64	6.84	8.26	6.99	7.47	7.32	7.86
8. 2.50 — 4.99	18.25	20.29	16.05	19.37	16.94	16.85	16.87	18.32
9. 5.00 — 7.49	12.97	14.06	12.67	13.74	13.40	12.74	12.96	13.41
10. 7.50 — 9.99	8.33	9.80	10.42	9.86	9.09	9.01	9.04	9.51
11. 10.00 — 14.99	9.82	11.37	10.71	11.18	10.52	10.38	10.42	10.86
12. 15.00 — 19.99	6.02	7.08	6.55	6.93	6.67	6.42	6.50	6.75
13. 20.00 — 24.99	5.57	4.08	4.52	4.23	4.29	4.14	4.19	4.21
14. 25.00 — 29.99	2.92	3.14	3.29	3.16	3.08	3.17	3.14	3.15
15. 30.00 — 39.99	2.81	3.77	4.64	3.91	4.16	4.13	4.14	4.01
16. 40.00 — 49.99	2.23	2.33	2.22	2.30	2.52	2.55	2.54	2.40
17. 50.00 — 74.99	2.21	2.40	2.62	2.44	2.54	2.69	2.64	2.52
18. 75.00 — 99.99	0.84	0.84	0.98	0.87	0.87	0.99	0.95	0.91
19. 100.00—249.99	1.63	1.24	1.21	1.25	1.16	1.47	1.37	1.30
20. 250.00—499.99	0.39	0.12	0.19	0.14	0.10	0.14	0.13	0.14
21. 500.00 and above	—	0.03	0.01	0.02	0.03	0.03	0.03	0.03
22. total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
23. estimated number of cattle (000)	3807	69099	17768	90674	21730	44571	66301	156975

<sup>1</sup> Households operating less than 0.005 acre are included in this class.

Note : '—' indicates no entry.

Report on Land Holdings (2)

TABLE 22 : CUMULATIVE PERCENTAGE DISTRIBUTION OF CATTLE OWNED, UNDER DIFFERENT CATEGORIES BY SPECIFIED SIZE LIMITS OF HOUSEHOLD OPERATIONAL HOLDINGS

(Reference period : major crop season, July 1953-June 1954)

1. India number of sample villages : 4431  
 2. Rural sector  
 3. Central and State samples combined number of sample households : 75720

size of household operational holding (acres)	cumulative percentage of cattle							total cattle
	male				female			
	bulls breeding	bulls and bullocks working	others	total	cows in milk	others	total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. 0.00 <sup>1</sup>	2.42	1.03	4.51	1.77	3.47	3.63	3.58	2.53
2. up to 0.05	5.55	1.76	7.39	3.02	6.86	6.81	6.83	4.63
3. „ 0.10	6.73	2.07	8.54	3.53	8.05	7.99	8.02	5.42
4. „ 0.50	9.80	3.72	10.92	5.38	11.13	10.94	11.01	7.75
5. „ 1.00	15.05	6.72	13.53	8.40	14.33	14.18	14.23	10.85
6. „ 1.50	18.10	10.81	17.08	12.34	17.64	17.82	17.76	14.62
7. „ 2.50	26.01	19.45	23.92	20.60	24.63	25.29	25.08	22.48
8. „ 5.00	44.26	39.74	39.97	39.97	41.57	42.14	41.95	40.80
9. „ 7.50	57.23	53.80	52.64	53.71	54.97	54.88	54.91	54.21
10. „ 10.00	65.56	63.60	63.06	63.57	64.06	63.89	63.95	63.72
11. „ 15.00	75.38	74.97	73.77	74.75	74.58	74.27	74.37	74.58
12. „ 20.00	81.40	82.05	80.32	81.68	81.25	80.69	80.87	81.33
13. „ 25.00	86.97	86.13	84.84	85.91	85.54	84.83	85.06	85.54
14. „ 30.00	89.89	89.27	88.13	89.07	88.62	88.00	88.20	88.69
15. „ 40.00	92.70	93.04	92.77	92.98	92.78	92.13	92.34	92.70
16. „ 50.00	94.93	95.37	94.99	95.28	95.30	94.68	94.88	95.10
17. „ 75.00	97.14	97.77	97.61	97.72	97.84	97.37	97.52	97.62
18. „ 100.00	97.98	98.61	98.59	98.59	98.71	98.36	98.47	98.53
19. „ 250.00	99.61	99.85	99.80	99.84	99.87	99.83	99.84	99.83
20. „ 500.00	100.00	99.97	99.99	99.98	99.97	99.97	99.97	99.97
21. all sizes	—	100.00	100.00	100.00	100.00	100.00	100.00	100.00
22. estimated number of cattle (000)	3897	69099	17768	90674	21730	44571	66301	156975

<sup>1</sup> Includes households operating land less than 0.005 acre.

*National Sample Survey*

TABLE 23 : ESTIMATED NUMBER OF BUFFALOES, SHEEP AND GOAT OWNED BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

size of household operational holding (acres)	number (000)										
	buffaloes								sheep	goat	
	male				female						
	breed- ing	work- ing	others	total	in milk	others	total	total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
1.	0.00 <sup>1</sup>	74	143	11	228	504	582	1086	1314	3847	2896
2.	0.01 — 0.04	79	111	11	201	478	604	1082	1283	2080	3125
3.	0.05 — 0.09	22	48	4	74	159	188	347	421	151	757
4.	0.10 — 0.49	37	133	5	175	208	314	522	697	984	1904
5.	0.50 — 0.99	52	222	6	280	336	409	745	1025	753	1910
6.	1.00 — 1.49	47	364	11	422	423	589	1012	1434	1304	1783
7.	1.50 — 2.49	130	815	24	969	984	1243	2227	3196	2601	3108
8.	2.50 — 4.99	376	1685	38	2099	2380	2747	5127	7226	4193	5930
9.	5.00 — 7.49	385	1230	28	1643	1834	2064	3898	5541	4220	4396
10.	7.50 — 9.99	206	947	50	1203	1273	1442	2715	3918	3294	3420
11.	10.00 — 14.99	263	877	35	1175	1580	2006	3586	4761	2768	3700
12.	15.00 — 19.99	177	450	35	662	968	1178	2146	2808	1789	1810
13.	20.00 — 24.99	116	300	14	430	574	783	1357	1787	1239	1246
14.	25.00 — 29.99	104	195	9	308	441	565	1006	1314	984	1036
15.	30.00 — 39.99	88	261	26	375	557	689	1246	1621	1569	961
16.	40.00 — 49.99	74	142	14	230	371	478	849	1079	883	717
17.	50.00 — 74.99	81	154	10	245	330	449	779	1024	1004	685
18.	75.00 — 99.99	24	59	4	87	105	164	269	356	429	299
19.	100.00—249.99	41	90	5	136	182	266	448	584	386	367
20.	250.00—499.99	5	6	1	12	11	13	24	36	49	60
21.	500.00 and above	—	4	1	5	4	7	11	16	0	6
22.	total	2381	8236	342	10959	13702	16780	30482	41441	34527	40116

<sup>1</sup> Households operating less than 0.005 acre are included in this class.

Note : '—' indicates no entry ; '0' indicates less than 500.

Report on Land Holdings (2)

TABLE 24: PERCENTAGE DISTRIBUTION OF THE ESTIMATED NUMBER OF BUFFALOES, SHEEP AND GOAT OWNED BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period: major crop season, July 1953-June 1954)

1. India  
number of sample villages: 4431

2. Rural sector

3. Central and State samples combined  
number of sample households: 75720

size of household operational holding (acres)	percentage									
	buffaloes									
	male				female			total	sheep	goat
	breed- ing	work- ing	others	total	in milk	others	total			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. 0.00 <sup>1</sup>	3.11	1.74	3.22	2.08	3.68	3.47	3.56	3.17	11.14	7.22
2. 0.01 — 0.04	3.32	1.35	3.22	1.83	3.49	3.60	3.55	3.10	6.02	7.79
3. 0.05 — 0.09	0.92	0.58	1.17	0.68	1.16	1.12	1.14	1.02	0.44	1.89
4. 0.10 — 0.49	1.56	1.61	1.46	1.60	1.52	1.87	1.71	1.68	2.85	4.75
5. 0.50 — 0.99	2.18	2.70	1.75	2.55	2.45	2.44	2.44	2.47	2.18	4.76
6. 1.00 — 1.49	1.97	4.42	3.22	3.85	3.09	3.51	3.32	3.46	3.78	4.44
7. 1.50 — 2.49	5.46	9.90	7.02	8.84	7.18	7.41	7.31	7.71	7.53	7.73
8. 2.50 — 4.99	15.79	20.46	11.12	19.16	17.37	16.36	16.81	17.44	12.14	14.77
9. 5.00 — 7.49	16.17	14.93	8.19	14.99	13.38	12.30	12.79	13.37	12.23	10.96
10. 7.50 — 9.99	8.65	11.50	14.63	10.98	9.29	8.59	8.91	9.45	9.54	8.53
11. 10.00 — 14.99	11.05	10.65	10.23	10.72	11.53	11.94	11.76	11.49	8.02	9.22
12. 15.00 — 19.99	7.43	5.46	10.23	6.04	7.06	7.02	7.04	6.78	5.18	4.51
13. 20.00 — 24.99	4.87	3.64	4.09	3.92	4.19	4.67	4.45	4.31	3.59	3.11
14. 25.00 — 29.99	4.37	2.37	2.63	2.81	3.22	3.37	3.30	3.17	2.85	2.58
15. 30.00 — 39.99	3.70	3.17	7.60	3.42	4.06	4.11	4.09	3.91	4.54	2.40
16. 40.00 — 49.99	3.11	1.72	4.09	2.10	2.71	2.85	2.79	2.60	2.56	1.79
17. 50.00 — 74.99	3.40	1.87	2.92	2.24	2.41	2.68	2.56	2.47	2.91	1.71
18. 75.00 — 99.99	1.01	0.72	1.17	0.79	0.77	0.98	0.88	0.86	1.24	0.75
19. 100.00—249.99	1.72	1.09	1.46	1.24	1.33	1.59	1.47	1.41	1.12	0.91
20. 250.00—499.99	0.21	0.07	0.29	0.11	0.08	0.08	0.08	0.09	0.14	0.15
21. 500.00 and above	—	0.05	0.29	0.05	0.03	0.04	0.04	0.04	0.00	0.01
22. total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
23. estimated number (000)	2381	8236	342	10959	13702	16780	30482	41441	34527	40116

<sup>1</sup> Households operating less than 0.005 acre are included in this class.

Note: '—' indicates no entry.





Report on Land Holdings (2)

TABLE 26 : ESTIMATED NUMBER OF BIRDS (POULTRY) OWNED AND THEIR PERCENTAGE DISTRIBUTIONS BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India  
number of sample villages : 4431

2. Rural sector

3. Central and State samples combined  
number of sample households : 75720

	size of household operational holding (acres)	number of birds (poultry) (000)			percentage		
		male	female	total	male	female	total
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	0.00 <sup>1</sup>	622	2441	3063	3.83	6.53	5.71
2.	0.01 — 0.04	961	2448	3409	5.92	6.55	6.36
3.	0.05 — 0.09	398	872	1270	2.45	2.33	2.37
4.	0.10 — 0.49	1036	2442	3478	6.38	6.53	6.49
5.	0.50 — 0.99	918	2324	3242	5.66	6.22	6.05
6.	1.00 — 1.49	735	1673	2408	4.53	4.48	4.49
7.	1.50 — 2.49	1565	3467	5032	9.65	9.28	9.39
8.	2.50 — 4.99	3605	7345	10950	22.22	19.66	20.44
9.	5.00 — 7.49	2026	4538	6564	12.49	12.14	12.25
10.	7.50 — 9.99	1185	2905	4090	7.30	7.78	7.63
11.	10.00 — 14.99	1246	2839	4085	7.68	7.60	7.62
12.	15.00 — 19.99	627	1433	2060	3.86	3.83	3.84
13.	20.00 — 24.99	560	769	1329	3.45	2.06	2.40
14.	25.00 — 29.99	234	556	790	1.44	1.49	1.47
15.	30.00 — 39.99	192	500	692	1.18	1.34	1.29
16.	40.00 — 49.99	108	292	400	0.67	0.78	0.75
17.	50.00 — 74.99	128	325	453	0.79	0.87	0.85
18.	75.00 — 99.99	36	84	120	0.22	0.22	0.22
19.	100.00—249.99	44	110	154	0.27	0.29	0.29
20.	250.00—499.99	2	6	8	0.01	0.02	0.01
21.	500.00 and above	0	1	1	0.00	0.00	0.00
22.	total	16228	37370	53598	100.00	100.00	100.00

<sup>1</sup> Households operating less than 0.005 acre are included in this class.

Note : '0' indicates less than 500.

*National Sample Survey*

TABLE 27 : CUMULATIVE PERCENTAGE DISTRIBUTION OF  
NUMBER OF BIRDS (POULTRY) OWNED, BY SPECIFIED  
SIZE LIMITS OF HOUSEHOLD OPERATIONAL  
HOLDINGS

(Reference period: major crop season, July 1953-June 1954)

1. India      2. Rural sector      3. Central and State samples combined  
number of sample villages : 4431      number of sample households : 75720

size of household operational holding (acres)		cumulative percentage of number of birds (poultry)		
		male	female	total
(1)		(2)	(3)	(4)
1.	0.00 <sup>1</sup>	3.83	6.53	5.71
2.	up to 0.05	9.75	13.08	12.07
3.	„ 0.10	12.20	15.41	14.44
4.	„ 0.50	18.58	21.94	20.93
5.	„ 1.00	24.24	28.16	26.98
6.	„ 1.50	28.77	32.64	31.47
7.	„ 2.50	38.42	41.92	40.86
8.	„ 5.00	60.64	61.58	61.30
9.	„ 7.50	73.13	73.72	73.55
10.	„ 10.00	80.43	81.50	81.18
11.	„ 15.00	88.11	89.10	88.80
12.	„ 20.00	91.97	92.93	92.64
13.	„ 25.00	95.42	94.99	95.12
14.	„ 30.00	96.86	96.48	96.59
15.	„ 40.00	98.04	97.82	97.88
16.	„ 50.00	98.71	98.60	98.63
17.	„ 75.00	99.50	99.47	99.48
18.	„ 100.00	99.72	99.69	99.70
19.	„ 250.00	99.99	99.98	99.99
20.	„ 500.00	100.00	100.00	100.00
21.	all sizes	100.00	100.00	100.00
22.	estimated number (000)	16228	37370	53598

<sup>1</sup> Households operating less than 0.005 acre are included in this class.

*Report on Land Holdings (2)*

TABLE 28 : ESTIMATED NUMBER OF PLOUGHS AND HARROWS OWNED BY HOUSEHOLDS  
AND THEIR PERCENTAGE DISTRIBUTIONS BY SIZE OF HOUSEHOLD OPERATIONAL HOLDING

(Reference period : major crop season, July 1953-June 1954)

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

size of household operational holding (acres)	number (000)			percentage		
	plough (wooden)	plough (iron)	harrow	plough (wooden)	plough (iron)	harrow
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. 0.00 <sup>1</sup>	361	26	203	0.82	1.43	0.88
2. 0.01 — 0.04 <sup>1</sup>	242	11	176	0.55	0.60	0.76
3. 0.05 — 0.09	128	8	39	0.29	0.44	0.17
4. 0.10 — 0.49	724	19	275	1.65	1.04	1.19
5. 0.50 — 0.99	1567	27	646	3.58	1.48	2.79
6. 1.00 — 1.49	2201	48	796	5.03	2.64	3.44
7. 1.50 — 2.49	4486	94	1758	10.25	5.16	7.59
8. 2.50 — 4.99	9623	242	4286	21.97	13.28	18.51
9. 5.00 — 7.49	6334	184	3058	14.47	10.10	13.20
10. 7.50 — 9.99	4337	144	2251	9.91	7.91	9.72
11. 10.00 — 14.99	4567	223	2731	10.43	12.24	11.79
12. 15.00 — 19.99	2803	174	1834	6.40	9.55	7.92
13. 20.00 — 24.99	1591	105	1127	3.63	5.76	4.87
14. 25.00 — 29.99	1125	99	850	2.57	5.43	3.67
15. 30.00 — 39.99	1338	136	1063	3.06	7.47	4.59
16. 40.00 — 49.99	762	84	688	1.74	4.61	2.97
17. 50.00 — 74.99	831	98	733	1.90	5.38	3.16
18. 75.00 — 99.99	288	39	295	0.66	2.14	1.27
19. 100.00—249.99	414	56	316	0.95	3.07	1.36
20. 250.00—499.99	48	5	31	0.11	0.27	0.13
21. 500.00 and above	12	0	4	0.03	0.00	0.02
22. total	43782	1822	23160	100.00	100.00	100.00

<sup>1</sup> Households operating less than 0.005 acre are included in this class.

*National Sample Survey*

TABLE 29 : CUMULATIVE PERCENTAGE DISTRIBUTIONS OF  
THE NUMBER OF PLOUGHS AND HARROWS OWNED BY  
SPECIFIED SIZE LIMITS OF HOUSEHOLD  
OPERATIONAL HOLDINGS

(Reference period : major crop season, July 1953-June 1954)

1. India    2. Rural sector    3. Central and State samples combined  
number of sample villages : 4431    number of sample households : 75720

size of household operational holding (acres)	cumulative percentages		
	plough (wooden)	plough (iron)	harrow
(1)	(2)	(3)	(4)
1. 0.001	0.82	1.43	0.88
2. up to 0.05	1.37	2.03	1.64
3. ,, 0.10	1.66	2.47	1.81
4. ,, 0.50	3.31	3.51	3.00
5. ,, 1.00	6.89	4.99	5.79
6. ,, 1.50	11.92	7.63	9.23
7. ,, 2.50	22.17	12.79	16.82
8. ,, 5.00	44.14	26.07	35.33
9. ,, 7.50	58.61	36.17	48.53
10. ,, 10.00	68.52	44.08	58.25
11. ,, 15.00	78.95	56.32	70.04
12. ,, 20.00	85.35	65.87	77.96
13. ,, 25.00	88.98	71.63	82.83
14. ,, 30.00	91.55	77.06	86.50
15. ,, 40.00	94.61	84.53	91.09
16. ,, 50.00	96.35	89.14	94.06
17. ,, 75.00	98.25	94.52	97.22
18. ,, 100.00	98.91	96.66	98.49
19. ,, 250.00	99.86	99.73	99.85
20. ,, 500.00	99.97	100.00	99.98
21. all sizes	100.00	100.00	100.00

<sup>1</sup> Households operating land less than 0.005 acre are included in this class.

*Report on Land Holdings (2)*

TABLE 30 : PERCENTAGE DISTRIBUTIONS OF ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SIZE OF OPERATIONAL HOLDING, 1953-1954

1. India 2. Rural sector 3. Central and State samples combined  
 number of sample villages : 4431 number of sample households : 75720

size of operational holding <sup>1</sup> (acres)	total hold-ings	total area opera-ted	rice		jowar		bajra		wheat	
			hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. 0.00 <sup>2</sup>	10.96	—	—	—	—	—	—	—	—	—
2. 0.01 — 0.04	14.90	0.05	0.06	0.00	0.09	0.00	0.07	0.00	0.06	0.00
3. 0.05 — 0.09	3.38	0.04	0.28	0.01	0.15	0.00	0.08	0.00	0.14	0.01
4. 0.10 — 0.49	6.95	0.33	4.81	0.44	1.29	0.07	1.12	0.07	2.58	0.30
5. 0.50 — 0.99	5.89	0.78	7.96	1.57	2.39	0.25	2.65	0.30	4.39	0.77
6. 1.00 — 1.49	5.34	1.20	8.18	2.41	3.44	0.51	3.52	0.56	5.12	1.20
7. 1.50 — 2.49	8.73	3.18	14.29	6.58	7.71	1.49	7.64	1.74	10.74	3.49
8. 2.50 — 4.99	15.08	10.02	25.65	20.00	17.38	5.29	17.74	6.18	22.08	11.91
9. 5.00 — 7.49	8.76	9.88	14.00	16.50	13.85	6.71	13.57	6.45	14.17	11.14
10. 7.50 — 9.99	5.43	8.68	7.92	11.84	10.81	7.75	10.70	7.49	9.50	10.21
11. 10.00 — 14.99	5.57	12.48	7.13	13.55	13.57	12.50	13.61	13.20	10.92	13.49
12. 15.00 — 19.99	3.12	9.91	3.73	8.49	8.53	10.74	8.61	10.82	6.62	11.03
13. 20.00 — 24.99	1.67	6.83	1.80	4.80	5.22	7.95	5.19	8.11	3.52	6.67
14. 25.00 — 29.99	1.15	5.79	1.27	3.28	4.08	7.44	3.63	6.72	2.64	5.74
15. 30.00 — 39.99	1.28	8.08	1.26	3.79	4.74	10.82	4.60	10.11	3.16	7.48
16. 40.00 — 49.99	0.69	5.67	0.65	1.93	2.66	8.21	2.61	7.28	1.75	4.31
17. 50.00 — 74.99	0.69	7.59	0.64	2.37	2.61	10.16	2.90	11.21	1.63	5.46
18. 75.00 — 99.99	0.22	3.52	0.20	0.93	0.82	4.95	0.94	3.87	0.55	2.88
19. 100.00—249.99	0.18	4.69	0.15	1.32	0.60	4.48	0.76	5.27	0.42	3.23
20. 250.00—499.99	0.01	0.87	0.02	0.18	0.06	0.62	0.06	0.59	0.03	0.68
21. 500.00 and above	0.00	0.41	0.00	0.01	0.00	0.06	0.00	0.03	—	—
22. total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
23. estimated number of holdings (000)	61780	—	24651	—	8887	—	7132	—	9937	—
24. estimated area (000 acres)	—	335711	—	69835	—	35286	—	28899	—	18848

<sup>1</sup> Reference period : major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note : The estimates of number of operational holdings reporting different crops and area under crops relate mainly to 'pure' crops.

*National Sample Survey*

TABLE 30 (Contd.): PERCENTAGE DISTRIBUTIONS OF ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SIZE OF OPERATIONAL HOLDING, 1953-1954

1. India		2. Rural sector				3. Central and State samples combined			
number of sample villages : 4431						number of sample households : 75720			
size of operational holding <sup>1</sup> (acres)	total holdings	total area operated	maize		barley		gram		
			holdings reporting	area	holdings reporting	area	holdings reporting	area	
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	
1.	0.00 <sup>2</sup>	10.96	—	—	—	—	—	—	—
2.	0.01 — 0.04	14.90	0.05	0.26	0.00	0.03	0.00	0.07	0.00
3.	0.05 — 0.09	3.38	9.04	1.08	0.04	0.21	0.02	0.01	0.00
4.	0.10 — 0.49	6.95	0.33	6.87	1.21	4.64	0.74	1.44	0.15
5.	0.50 — 0.99	5.89	0.78	6.40	2.45	7.57	2.40	3.60	0.62
6.	1.00 — 1.49	5.34	1.20	6.39	3.19	7.71	3.33	4.32	0.92
7.	1.50 — 2.49	8.73	3.18	10.71	7.02	13.07	7.16	8.70	2.63
8.	2.50 — 4.99	15.08	10.02	22.67	20.13	24.39	17.72	20.91	9.28
9.	5.00 — 7.49	8.76	9.88	14.40	15.96	14.11	14.63	14.19	8.79
10.	7.50 — 9.99	5.43	8.68	8.91	12.10	7.59	10.21	10.60	8.81
11.	10.00 — 14.99	5.57	12.48	9.39	14.24	9.51	14.75	12.56	14.12
12.	15.00 — 19.99	3.12	9.91	5.32	8.53	4.65	8.77	7.50	12.06
13.	20.00 — 24.99	1.67	6.83	2.26	3.56	2.05	4.91	4.38	7.08
14.	25.00 — 29.99	1.15	5.79	1.70	3.71	1.44	4.30	3.17	6.87
15.	30.00 — 39.99	1.28	8.08	1.64	3.18	1.37	3.85	3.47	8.95
16.	40.00 — 49.99	0.69	5.67	0.90	1.61	0.57	2.21	1.79	4.84
17.	50.00 — 74.99	0.69	7.59	0.69	1.46	0.76	2.83	2.02	6.55
18.	75.00 — 99.99	0.22	3.52	0.21	0.90	0.19	0.87	0.69	4.10
19.	100.00—249.99	0.18	4.69	0.18	0.57	0.14	1.30	0.57	3.61
20.	250.00—499.99	0.01	0.87	0.02	0.13	—	—	0.01	0.62
21.	500.00 and above	0.00	0.41	—	0.01	—	—	—	—
22.	total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
23.	estimated number of holdings (000)	61780	—	8747	—	5761	—	6970	—
24.	estimated area (000 acres)	—	335711	—	9673	—	6212	—	12979

<sup>1</sup>Reference period : major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note : The estimates of number of operational holdings reporting different crops and area under crops relate mainly to 'pure' crops.

Report on Land Holdings (2)

TABLE (30) (Contd.): PERCENTAGE DISTRIBUTIONS OF ESTIMATED NUMBER OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SIZE OF OPERATIONAL HOLDING, 1953-1954

1. India  
number of sample villages : 4431

2. Rural sector

3. Central and State samples combined  
number of sample households : 75720

size of operational holding <sup>1</sup> (acres)	total holdings	total area operated	sugarcane		cotton		jute		groundnut	
			holdings reporting	area	holdings reporting	area	holdings reporting	area	holdings reporting	area
(1)	(2)	(3)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)
1. 0.00 <sup>2</sup>	10.96	—	—	—	—	—	—	—	—	—
2. 0.01 — 0.04	14.90	0.05	—	—	0.03	0.00	0.00	0.00	0.00	0.00
3. 0.05 — 0.09	3.38	0.04	0.07	0.00	—	—	0.19	0.00	—	—
4. 0.10 — 0.49	6.95	0.33	1.08	0.22	0.15	0.00	2.92	0.45	0.82	0.07
5. 0.50 — 0.99	5.89	0.78	4.33	1.12	0.80	0.07	3.79	1.35	2.00	0.32
6. 1.00 — 1.49	5.34	1.20	5.31	1.98	1.10	0.12	5.03	1.87	2.99	0.63
7. 1.50 — 2.49	8.73	3.18	11.63	5.14	3.33	0.69	11.55	6.21	6.83	1.94
8. 2.50 — 4.99	15.08	10.02	25.76	16.94	10.18	2.83	28.67	22.60	16.37	6.40
9. 5.00 — 7.49	8.76	9.88	17.24	17.98	12.76	3.97	17.06	20.06	14.37	7.80
10. 7.50 — 9.99	5.43	8.68	10.01	11.37	10.44	4.59	7.88	8.46	10.87	7.75
11. 10.00 — 14.99	5.57	12.48	10.28	14.21	16.84	10.54	9.87	14.45	12.96	12.26
12. 15.00 — 19.99	3.12	9.91	5.83	10.54	12.05	10.13	4.90	7.19	8.95	10.20
13. 20.00 — 24.99	1.67	6.83	2.95	6.69	7.74	9.71	2.67	4.42	5.64	8.14
14. 25.00 — 29.99	1.15	5.79	1.89	4.17	6.40	9.30	1.74	1.72	4.74	7.47
15. 30.00 — 39.99	1.28	8.08	1.99	4.39	6.96	12.15	1.55	2.77	5.50	11.71
16. 40.00 — 49.99	0.69	5.67	0.74	1.76	4.67	9.96	0.81	1.12	3.05	7.23
17. 50.00 — 74.99	0.69	7.59	0.64	2.27	4.20	12.03	0.87	0.82	3.16	9.53
18. 75.00 — 99.99	0.22	3.52	0.10	0.36	1.31	6.12	0.25	0.07	1.02	4.10
19. 100.00—249.99	0.18	4.69	0.15	0.50	0.98	6.77	0.25	2.47	0.73	3.96
20. 250.00—499.99	0.01	0.87	0.00	0.36	0.06	0.44	0.00	3.97	0.00	0.45
21. 500.00 and above	0.00	0.41	—	—	0.00	0.58	—	—	0.00	0.04
22. total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
23. estimated number of holdings (000)	61780	—	4066	—	3361	—	1611	—	3543	—
24. estimated area (000 acres)	—	335711	—	2780	—	16458	—	1336	—	9719

<sup>1</sup> Reference period : major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note : The estimates of number of operational holdings reporting different crops and area under crops relate mainly to 'pure' crops.



*National Sample Survey*

TABLE 31 : CUMULATIVE PERCENTAGE DISTRIBUTIONS OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS, 1953-1954

1. India		2. Rural sector				3. Central and State sample combined					
number of sample villages : 4431						number of sample households : 75720					
size of operational holding <sup>1</sup> (acres)	total hold-ings	total area opera-ted	rice		jowar		bajra		wheat		
			hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area	hold-ings report-ing	area	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	
1.	0.00 <sup>2</sup>	10.96	—	—	—	—	—	—	—	—	—
2.	up to 0.05	25.86	0.05	0.06	0.00	0.09	0.00	0.07	0.00	0.06	0.00
3.	„ 0.10	29.24	0.09	0.34	0.01	0.24	0.00	0.15	0.00	0.20	0.01
4.	„ 0.50	36.19	0.42	5.15	0.45	1.53	0.07	1.27	0.07	2.78	0.31
5.	„ 1.00	42.08	1.20	13.11	2.02	3.92	0.32	3.92	0.37	7.17	1.08
6.	„ 1.50	47.42	2.40	21.29	4.43	7.36	0.83	7.44	0.93	12.29	2.28
7.	„ 2.50	56.15	5.58	35.58	11.01	15.07	2.32	15.08	2.67	23.01	5.77
8.	„ 5.00	71.23	15.60	61.23	31.01	32.45	7.61	32.82	8.85	45.09	17.68
9.	„ 7.50	79.99	25.48	75.23	47.51	46.30	14.32	46.39	15.30	59.26	28.82
10.	„ 10.00	85.42	34.16	83.15	59.35	57.11	22.07	57.09	22.79	68.76	39.03
11.	„ 15.00	90.99	46.64	90.28	72.90	70.68	34.57	70.70	35.99	79.68	52.52
12.	„ 20.00	94.11	56.55	94.01	81.39	79.21	45.31	79.31	46.81	86.30	63.55
13.	„ 25.00	95.78	63.38	95.81	86.19	84.43	53.26	84.50	54.92	89.82	70.22
14.	„ 30.00	96.93	69.17	97.08	89.47	88.51	60.70	88.13	61.64	92.46	75.96
15.	„ 40.00	98.21	77.25	98.34	93.26	93.25	71.52	92.73	71.75	95.62	83.44
16.	„ 50.00	98.90	82.92	98.99	95.19	95.91	79.73	95.34	79.03	97.37	87.75
17.	„ 75.00	99.59	90.51	99.63	97.56	98.52	89.89	98.24	90.24	99.00	93.21
18.	„ 100.00	99.81	94.03	99.83	98.49	99.34	94.84	99.18	94.11	99.55	96.09
19.	„ 250.00	99.99	98.72	99.98	99.81	99.94	99.32	99.94	99.38	99.97	99.32
20.	„ 500.00	100.00	99.59	100.00	99.99	100.00	99.94	100.00	99.97	100.00	100.00
21.	all sizes	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	—	—
22.	estimated number of holdings (000)	61780	—	24651	—	8887	—	7132	—	9937	—
23.	estimated area (000 acres)	—	335711	—	69835	—	35286	—	28899	—	18848

<sup>1</sup> Reference period: major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note: The estimates of number of operational holdings reporting different crops and area under crops relate mainly to 'pure' crops.

Report on Land Holdings (2)

TABLE (31) (Contd.): CUMULATIVE PERCENTAGE DISTRIBUTIONS OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS : 1953-1954

1. India		2. Rural sector				3. Central and State sample combined			
number of sample villages : 4431						number of sample households : 75720			
size of operational holding <sup>1</sup> (acres)	total holdings	total area operated	maize		barley		gram		
			holdings reporting	area	holdings reporting	area	holdings reporting	area	
(1)	(2)	(3)	(12)	(13)	(14)	(15)	(16)	(17)	
1. 0.00 <sup>2</sup>	10.96	—	—	—	—	—	—	—	
2. up to 0.05	25.86	0.05	0.26	0.00	0.03	0.00	0.07	0.00	
3. „ 0.10	29.24	0.09	1.34	0.04	0.24	0.02	0.08	0.00	
4. „ 0.50	36.19	0.42	8.21	1.25	4.88	0.76	1.52	0.15	
5. „ 1.00	42.08	1.20	14.61	3.70	12.45	3.16	5.12	0.77	
6. „ 1.50	47.42	2.40	21.00	6.89	20.16	6.49	9.44	1.69	
7. „ 2.50	56.15	5.58	31.71	13.91	33.23	13.65	18.14	4.32	
8. „ 5.00	71.23	15.60	54.38	34.04	57.62	31.37	39.05	13.60	
9. „ 7.50	79.99	25.48	68.78	50.00	71.73	46.00	53.24	22.39	
10. „ 10.00	85.42	34.16	77.69	62.10	79.32	56.21	63.84	31.20	
11. „ 15.00	90.99	46.64	87.08	76.34	88.83	70.96	76.40	45.32	
12. „ 20.00	94.11	56.55	92.40	84.87	93.48	79.73	83.90	57.38	
13. „ 25.00	95.78	63.38	94.66	88.43	95.53	84.64	88.28	64.46	
14. „ 30.00	96.93	69.17	96.36	92.14	96.97	88.94	91.45	71.33	
15. „ 40.00	98.21	77.25	98.00	95.32	98.34	92.79	94.92	80.28	
16. „ 50.00	98.90	82.92	98.90	96.93	98.91	95.00	96.71	85.12	
17. „ 75.00	99.59	90.51	99.59	98.39	99.67	97.83	98.73	91.67	
18. „ 100.00	99.81	94.03	99.80	99.29	99.86	98.70	99.42	95.77	
19. „ 250.00	99.99	98.72	99.98	99.86	100.00	100.00	99.99	99.38	
20. „ 500.00	100.00	99.59	100.00	99.99	—	—	100.00	100.00	
21. all sizes	100.00	100.00	—	100.00	—	—	—	—	
22. estimated number of holding (000)	61780	—	8747	—	5761	—	6970	—	
23. estimated area (000 acres)	—	335711	—	9673	—	6212	—	12979	

<sup>1</sup> Reference period : major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note : The estimates of number of operational holdings reporting different crops and area under crops relate mainly to 'pure' crops.

*National Sample Survey*

TABLE 31 (Contd.): CUMULATIVE PERCENTAGE DISTRIBUTIONS OF OPERATIONAL HOLDINGS REPORTING AREA UNDER DIFFERENT CROPS AND OF AREA UNDER EACH CROP BY SPECIFIED SIZE LIMITS OF OPERATIONAL HOLDINGS, 1953-1954

1. India		2. Rural sector				3. Central and State samples combined					
number of sample villages : 4431						number of sample households : 75720					
size of operational holding <sup>1</sup> (acres)	total holdings	total area operated	sugarcane		cotton		jute		groundnut		
			holdings reporting	area	holdings reporting	area	holdings reporting	area	holdings reporting	area	
(1)	(2)	(3)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	
1.	0.00 <sup>2</sup>	10.96	—	—	—	—	—	—	—	—	
2.	up to 0.05	25.86	0.05	—	—	0.03	0.00	0.00	0.00	0.00	0.00
3.	„ 0.10	29.24	0.09	0.07	0.00	0.03	0.00	0.19	0.00	0.00	0.00
4.	„ 0.50	36.19	0.42	1.15	0.22	0.18	0.00	3.11	0.45	0.82	0.07
5.	„ 1.00	42.08	1.20	5.48	1.34	0.98	0.07	6.90	1.80	2.82	0.39
6.	„ 1.50	47.42	2.40	10.79	3.32	2.08	0.19	11.93	3.67	5.81	1.02
7.	„ 2.50	56.15	5.58	22.42	8.46	5.41	0.88	23.48	9.88	12.64	2.96
8.	„ 5.00	71.23	15.60	48.18	25.40	15.59	3.71	52.15	32.48	29.01	9.36
9.	„ 7.50	79.99	25.48	65.42	43.38	28.35	7.68	69.21	52.54	43.38	17.16
10.	„ 10.00	85.42	34.16	75.43	54.75	38.79	12.27	77.09	61.00	54.25	24.91
11.	„ 15.00	90.99	46.64	85.71	68.96	55.63	22.81	86.96	75.45	67.21	37.17
12.	„ 20.00	94.11	56.55	91.54	79.50	67.68	32.94	91.86	82.64	76.16	47.37
13.	„ 25.00	95.78	63.38	94.49	86.19	75.42	42.65	94.53	87.06	81.80	55.51
14.	„ 30.00	96.93	69.17	96.38	90.36	81.82	51.95	96.27	88.78	86.54	62.98
15.	„ 40.00	98.21	77.25	98.37	94.75	88.78	64.10	97.82	91.55	92.04	74.69
16.	„ 50.00	98.90	82.92	99.11	96.51	93.45	74.06	98.63	92.67	95.09	81.92
17.	„ 75.00	99.59	90.51	99.75	98.78	97.65	86.09	99.50	93.49	98.25	91.45
18.	„ 100.00	99.81	94.03	99.85	99.14	98.96	92.21	99.75	93.56	99.27	95.55
19.	„ 250.00	99.99	98.72	100.00	99.64	99.94	98.98	100.00	96.03	100.00	99.51
20.	„ 500.00	100.00	99.59	100.00	100.00	100.00	99.42	100.00	100.00	100.00	99.96
21.	all sizes	100.00	100.00	—	—	100.00	100.00	—	—	100.00	100.00
22.	estimated number of holdings (000)	61780	—	4066	—	3361	—	1611	—	3543	—
23.	estimated area (000 acres)	—	335711	—	2780	—	16458	—	1336	—	9719

<sup>1</sup> Reference period : major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note : The estimates of number of operational holdings reporting different crops and area under crops relate mainly to 'pure' crops.

Report on Land Holdings (2)

TABLE 32 : PERCENTAGES OF TOTAL AREA OPERATED UNDER DIFFERENT CROPS IN EACH SIZE OF OPERATIONAL HOLDING, 1953-1954

1. India		2. Rural sector		3. Central and State samples combined								
number of sample villages : 4431				number of sample households : 75720								
size of operational holding <sup>1</sup> (acres)	total area operated (000 acres)	percentage of area under										
		rice	jowar	bajra	wheat	maize	barley	gram	sugar-cane	cotton	jute	ground-nut
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. 0.00 <sup>2</sup>	—	—	—	—	—	—	—	—	—	—	—	—
2. 0.01 — 0.04	179	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00
3. 0.05 — 0.09	136	2.94	0.00	0.00	0.74	2.94	0.74	0.00	0.00	—	0.00	—
4. 0.10 — 0.49	1102	28.13	2.36	1.81	5.17	10.62	4.17	1.81	0.54	0.00	0.54	0.64
5. 0.50 — 0.99	2621	41.89	3.32	3.28	5.53	9.04	5.68	3.13	1.18	0.46	0.69	1.18
6. 1.00 — 1.49	4019	41.88	4.50	4.01	5.62	7.69	5.15	2.99	1.37	0.47	0.62	1.52
7. 1.50 — 2.49	10667	43.08	4.91	4.71	6.17	6.37	4.17	3.20	1.34	1.06	0.78	1.77
8. 2.50 — 4.99	33678	41.47	5.54	5.30	6.67	5.78	3.27	3.57	1.40	1.38	0.90	1.85
9. 5.00 — 7.49	33158	34.74	7.14	5.62	6.33	4.66	2.74	3.44	1.51	1.97	0.81	2.29
10. 7.50 — 9.99	29136	28.37	9.38	7.43	6.61	4.02	2.18	3.92	1.08	2.59	0.39	2.58
11. 10.00 — 14.99	41921	22.58	10.52	9.11	6.07	3.28	2.19	4.37	0.94	4.14	0.46	2.84
12. 15.00 — 19.99	33283	17.81	11.39	9.40	6.25	2.48	1.64	4.70	0.88	5.01	0.29	2.98
13. 20.00 — 24.99	22924	14.63	12.24	10.23	5.48	1.50	1.33	4.01	0.81	6.97	0.26	3.45
14. 25.00 — 29.99	19428	11.80	13.52	9.99	5.57	1.85	1.37	4.59	0.60	7.88	0.12	3.74
15. 30.00 — 39.99	27115	9.77	14.08	10.77	5.20	1.14	0.88	4.28	0.45	7.38	0.14	4.20
16. 40.00 — 49.99	19036	7.08	15.22	11.05	4.27	0.82	0.72	3.30	0.26	8.61	0.08	3.69
17. 50.00 — 74.99	25490	6.48	14.06	12.71	4.04	0.55	0.69	3.33	0.25	7.77	0.04	3.63
18. 75.00 — 99.99	11801	5.50	14.79	9.47	4.59	0.74	0.46	4.51	0.08	8.53	0.01	3.37
19. 100.00—249.99	15733	5.86	10.06	9.67	3.87	0.35	0.51	2.97	0.09	7.09	0.21	2.45
20. 250.00—499.99	2914	4.43	7.48	5.83	4.39	0.45	—	2.78	0.34	2.47	1.82	1.51
21. 500.00 and above	1370	0.44	1.61	0.73	—	0.07	—	—	—	6.93	—	0.29
22. total	335711	20.80	10.51	8.61	5.61	2.88	1.85	3.87	0.83	4.90	0.40	2.90

<sup>1</sup> Reference period : major crop season, July 1953-June 1954

<sup>2</sup> Includes operational holdings of size less than 0.005 acre.

Note : The estimates of area under different crops relate mainly to 'pure' crops.

APPENDIX IV

FACSIMILE OF THE SCHEDULES OF INVESTIGATION

CENTRAL\*  
STATE

ORIGINAL\*  
DUPLICATE

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1954-55

Household Schedule 6 : Land holdings and their particulars

(RURAL)

(Reference period : July 1953-June 1954)

(Eighth Round)

[1] identification particulars of sample village and household															
0. serial number		6. State .....		13. household size											
1. zone-State-natural division		7. district .....		14. livelihood class											
2. stratum		8. tehsil/taluk/thana .....		15. religion code											
3. village (s.u. I)		9. village .....		16. group code											
4. household (s.u.II)		10. hamlet .....		17. caste code											
5. household type		11. head of h.h. ....		18. informant's relation to head											
		12. informant .....		19. total no. of operational units											
[2] investigator				[3] inspector				[4] field scrutiny							
1. name .....				1. name .....				1. date: (i) receipt..... (ii) scrutiny.....							
2. roll no .....				2. date: (i) inspection .....				2. name of scrutiniser .....							
3. date (i) survey .....				(ii) scrutiny .....				3. signature .....							
(ii) despatch .....				(iii) despatch .....				4. scrutiny notes attached .....							
4. signature .....				3. signature .....				5. date of despatch .....							
[5] summary of the size of operational holdings (July 1953-June 1954)															
serial no.	items	reference			operational holdings (area in acres 00.00)									total size** (acres 00.00) of household operational holding (c)	
		block	column	line	unit no. 1; if joint, no. of participating households.....			unit no. ....; if joint, no. of participating households.....			unit no. ....; if joint, no. of participating households.....				
					(a)**	(b)**	(c)	(a)**	(b)**	(c)	(a)**	(b)**	(c)		
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
	1. owned	9	8	24											
	2. leased in	9	9	24											
	3. total	x	x	x											
[5.1] size of ownership holding of household. (July 1953-June 1954)							[6] no. of household members by sex, age and economic status as on date of survey.....								
items	reference		proportionate area (acres 00.00)			economic status	male-1		female-2		total-3				
	bl.	cols.	(a)	(b)	(c)		up to 14 years	others	total	up to 14 years	others	total			
													(1)	(2)	(3)
(0)	(1)	(2)	(3)	(4)	(5)	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. owned: individually	8	(11)-(13)													
2. ,, : jointly (within h.h.)	8	(14)-(16)				1. earner									
3. ,, : ,, (with other h.h.)	8	(17)-(19)				2. earning dependent									
4. total	-	-				3. non-earning dependent									
5. leased out	8	(26)-(28)				4. total									
[7] household members with their demographic particulars as on date of survey.....															
serial no.	name of member of household	relation to head	owning land yes-1, no-2	age last birth day (years)	code nos.				principal occupation						
					sex	marital status	economic status	industrial status	description		code no.				
									industry	occupation	indus- try	occu- pation			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)			
1.															
2.															
3.															
4.															
5.															
6.															
7.															
8.															
9.															

\* delete whichever is inapplicable.

\*\* not to be filled by investigator.





Report on Land Holdings (2)

Sch. 6-4

[9] particulars of plots operated individually/jointly during major crop season (code... ) in agricultural year July 1953-June 1954

operational unit no. .... if jointly operated, total no. of participating households.....

serial no.	identity of plot			total area of plot (acres 00.00)			area operated (acres 00.00)		if irrigated *	tenure* code			character of land							
	name of village in block capital	location code	survey no.	(a)	(b)	(c)	owned (c)	leased in (c)		code	area (acres 00.00)	land system	ownership right	non-occupancy tenancy type	level*	no. of times cropped		value per acre (Rs. 00.0)		
									rent or revenue per year							yield per year	land			
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
1.																				
2.																				
3.																				
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10.																				
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12.																				
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14.																				
15.																				
16.																				
17.																				
18.																				
19.																				
20.																				
21.																				
22.																				
23.																				
24.	total	x	x				x						x	x	x	x	x	x	x	x

[9.1.] summary of land under different irrigation and tenure codes. (acres 00.00) : (not to be filled by investigator)

irrigation type and aspects of land tenure	code-1	code-2	code-3	code-4	code-5	code-6	code-7
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. irrigation type					x	x	x
2. land system					x	x	x
3. ownership right							x
4. non-occupancy tenancy type							

\*\*1. irrigated : (col. 10) canal-1; tank-2; well-3; others-4.  
 2. land system : (col. 12) permanently settled estate system-1; temporarily settled estate system-2; ryotwari system-3; other systems-4.  
 3. ownership right : (col. 13) proprietor :-with right to transfer title-1, without right to transfer title-2; tenure holder :-with right to transfer title-3, without right to transfer title-4; permanent heritable occupancy tenant :-with right to transfer title-5, without right to transfer title-6.  
 4. non-occupancy tenancy type: (col. 14) rented in with formal lease contract :-cash rent-1, fixed crop rent-2, proportionate crop rent-3; rented in without formal lease contract :-cash rent-4, fixed crop rent-5, proportionate crop rent-6; other types-7.  
 5. level ; (col. 15). high-1; medium-2; low-3.









Report on Land Holdings (2)

8-6.Sch

[13] inventory of implements owned (during major season) : July 1953-June 1954					[14] inventory of livestock owned (during major season) July 1953-June 1954							
srl. no.	items	no. owned	if ever hired (yes-1 no-2)		srl. no.	items	no. owned by age groups			total no. owned	if ever hired (yes-1 no-2)	
			in	out			below 1 year	1-3 years	above 3 years		in	out
(0)	(1)	(2)	(3)	(4)	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	plough (wooden)				1.	bull (breeding)						
2.	plough (iron)				2.	bull & bullock (working)						
3.	harrow				3.	bull & bullock (others)						
4.	cart				4.	sub-total-1 : (1-3)	x	x	x	x	x	x
5.	persian wheel				5.	cow (i : milk)						
6.	other irrigation appliances				6.	cow (dry)						
7.	cane crusher (power operated)				7.	he-buffalo (breeding)						
8.	.. (not power operated)				8.	he-buffalo (working)						
9.	oil crusher (power operated)				9.	she-buffalo (in milk)						
10.	.. (not power operated)				10.	she-buffalo (dry)						
11.	tractor				11.	sub-total-2 : (5-8)	x	x	x	x	x	x
12.	oil engine				12.	sheep						
13.	electric motor				13.	goat						
x	others (specify)	x	x	x	14.	sub-total-3 : (10-11)	x	x	x	x	x	x
14.					15.	other animals (specify)	x	x	x	x	x	x
15.					16.							
16.					17.							

  

[14.1] inventory of poultry owned (during major season) : July 1953-June 1954		
1. male stock.....	2. female stock.....	3. total stock.....

  

[15] some selected technological ratios							
[15.1] seed requirement and grain to straw ratio of important cereals			[15.2] yield of oil and cake from different oil seeds			[15.3] recovery ratio of "gur" from cane and different types of juice	
type of cereal	weight of seed per acre (seers 00)	ratio of grain to straw (00.00)	type of oil seeds.	yield in seers (00) per md. of seeds		cane or types of juice	weight of gur in seers (00) per md. of juice or cane
				oil	cake		
(0)	(1)	(2)	(0)	(1)	(2)	(0)	(1)
1. paddy			1. groundnut			1. sugarcane	
2. wheat			2. sesamum			2. sugarcane juice	
3. barley			3. linseed			3. palmyra juice	
4. jowar			4. rape & mustard			4. date palm juice	
5. bajra			5. castor seed			[15.4] yield of of milk (ars. 00) per day	
6. ragi			6. cotton seed			1. cow (in milk)	
7. maize						2. buffalo (in milk)	
						3. goat (in milk)	

  

[15.5] percentage (00) recovery (weight to weight):			
1. clean rice from dry paddy.....	2. lint from seed cotton.....	3. kernel from groundnut shell.....	4. kernel from castor shell.....

  

[15.6] yield of different products in seers (00) per maund of milk					
cow milk :	1. curd (dahi) .....	2. butter .....	3. ghee .....		
buffalo milk :	4. curd (dahi) .....	5. butter .....	6. ghee .....		