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भारत सरकार

GOVERNMENT OF INDIA

राष्ट्रीय प्रतिदर्श सर्वेक्षण संगठन

**NATIONAL SAMPLE SURVEY ORGANISATION**

बत्तीसवाँ दौर

**THIRTYSECOND ROUND**

(जुलाई 1977—जून 1978)

(JULY 1977— JUNE 1978)

संख्या-342

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उत्तर पूर्वीय राज्यों में समाकलित परिवार सर्वेक्षण पर टिप्पणियों सहित तालिकाएँ

**TABLES WITH NOTES ON INTEGRATED HOUSEHOLD  
SURVEY IN NORTH EASTERN STATES**

जुलाई 1987

**JULY 1987\***

सांख्यिकी विभाग

**DEPARTMENT OF STATISTICS**

नई दिल्ली

**NEW DELHI**

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NATIONAL SAMPLE SURVEY ORGANISATION  
THIRTYSECOND ROUND : JULY 1977 - JUNE 1978

NUMBER : 342

TABLES WITH NOTES ON INTEGRATED  
HOUSEHOLD SURVEY IN NORTH-EASTERN  
STATES

STATES : ARUNACHAL PRADESH, ASSAM,  
MANIPUR AND MEGHALAYA

C O N T E N T S

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C O N T E N T S

Section One : Introduction

Section Two : Concepts and Definitions

NATIONAL SAMPLE SURVEY ORGANISATION

THIRTYSECOND ROUND : JULY 1977 - JUNE 1978

TABLES WITH NOTES ON INTEGRATED HOUSEHOLD  
SURVEY IN NORTH-EASTERN STATES

STATES : ARUNACHAL PRADESH, ASSAM, MANIPUR  
AND MEGHALAYA

SECTION ONE

INTRODUCTION

1.1 The National Sample Survey Organisation (NSSO) conducted some special enquiries specially suited to the needs of the North Eastern states<sup>1/</sup> during thirtyfirst (July 1976 - June 1977), thirtysecond (July 1977 - June 1978) and thirtythird (July 1978 - June 1979) rounds along with regular all-India enquiries. One such special enquiry conducted in the rural areas of the North Eastern states during the thirtysecond round was to get an idea about some important socio-economic features of the households with emphasis on practice of jhum cultivation and other occupations followed by them.

1.2 The thirtysecond round of NSS was conducted during the period July 1977 to June 1978.

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<sup>1/</sup> During the period of survey, North Eastern Region was comprised of five states viz. Assam, Manipur, Meghalaya, Nagaland and Tripura and two Union Territories viz. Arunachal Pradesh and Mizoram.

1.3 The special enquiry was conducted in the rural areas of Arunachal Pradesh, Meghalaya, Tripura and in two hill districts (North Cachar and Karbi Anglong) of Assam and in five hill districts (East, West, North, South and Tengnoupal) of Manipur. The states and union territories also participated in the survey on an equal matching basis by conducting the survey in a sample of equal size in the respective states and union territories.

1.4 The basic design for the survey was a two-stage stratified one with villages as first-stage units and households as second-stage units. Clusters of villages around some nucleus villages in each stratum were surveyed to reduce the difficulties of journey from one sample village to another in the hill areas of the states. Nucleus villages were selected circular systematically with equal probability in each stratum. A few villages around a nucleus village were grouped to form cluster of villages at the Field Headquarters following some prescribed procedure. Households were selected circular systematically from the sample villages.

1.5 The information were collected in Schedule 16.4 : Integrated Household Survey, from the sample households of the selected villages in rural areas of the states. The information collected in the schedule included among others some general particulars regarding the sample household, household land possessed, engagement of households in jhum and permanent cultivation, availability of agricultural input items for cultivation, labour time spent in different agricultural operations, yield and value of crops produced, mode of disposal of crops produced, some detailed particulars about jhum cultivation, demographic particulars of usual members of household, value of output received from different entrepreneurial activities and income earned by the household from different sources.

1.6 The data for the central sample were collected by Field Operations Division of NSSO in case of Assam (hill districts) and Meghalaya. In Arunachal Pradesh, Tripura<sup>2/</sup> and Manipur (hill districts), the data were collected by the respective State Statistical Bureaux.

1.7 The number of sample villages and sample households actually surveyed for the detailed enquiry in each state are as follows.

north-eastern state	number of sample	
	villages	households
(1)	(2)	(3)
1. Arunachal Pradesh	329 <sup>3/</sup>	1714
2. Assam (hill districts)	48	360
3. Manipur (hill districts)	63	384
4. Meghalaya	158	877

1.8 Fifteen tables have been presented in Appendix II of the Report based on the information collected in schedule 16.4. These tables present distribution of households by household industry group/occupation group/land possessed group separately for scheduled caste, scheduled tribe and other households; percentage of households participated in different types of cultivation (jhum and permanent) and average size of land possessed per household by household group; availability of

<sup>2/</sup> As the filled-in schedules relating to Tripura state were not made available to NSSO, this report excludes that state.

<sup>3/</sup> Central and state samples combined.

agricultural inputs for households; labour time spent in different agricultural operations; average yield of crop per household; mode of disposal of crops produced; average number of jhum plots per household for households practising jhum cultivation; average value of output received from various entrepreneurial activities pursued by the household and average income of the household derived from different sources.

1.9 All tables have been presented by state and relate to information collected for the central sample only except for Arunachal Pradesh for which central and state samples pooled estimates have been given. Section II gives concepts and definitions used in the survey. In Section III some important findings of the survey have been presented. A note on sample design and estimation procedure is given in Appendix I. Appendix II gives the detail statistical tables and Appendix III the facsimile of schedule of investigation.

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SECTION TWO

CONCEPTS AND DEFINITIONS

2.1 Some of the important concepts and definitions followed in the survey are noted below.

2.2 House : Every structure, tent, shelter etc. is a house irrespective of its use.

2.3 Household : A household is a group of persons normally living together and taking food from a common kitchen.

2.4 Household land possessed : The total land possessed by the household is the land owned plus the land leased in minus the land leased out by the household.

2.5 Jhum cultivation : Jhum cultivation which is also commonly termed as shifting cultivation is practised on the hill slopes. In this method of cultivation, a hill slope is cleared of its natural vegetation by cutting and the material so collected is dried and burnt. The ashes so produced are used as manure. Seeds are broadcast or sometimes sown. This method of cultivation is widely practised mostly by the tribal people in the hilly areas of the North Eastern states.

2.6 Permanent cultivation : Permanent cultivation means the usual method of cultivation followed by the cultivators in other parts. In this method of cultivation the same area of land is cultivated year after year. In this survey plantation is included under permanent cultivation.

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SECTION THREE

SOME FINDINGS OF THE SURVEY

3.1 Some important findings of the survey based on detailed results given in Appendix II of the report have been presented in the succeeding paragraphs of this section.

3.2 Engagement in agricultural activities :

The percentages of households engaged in agricultural activities to total number of households for the states under consideration have been presented below in Table (1). Engagement of households in agriculture, hunting, forestry and fishing has been considered as agricultural activities. It can be seen that most of the households in these states are engaged in agricultural activities and it is 96 percent for Assam (hill districts), 95 for Manipur (hill districts), 94 for Arunachal Pradesh and 92 for Meghalaya.

Table (1) : Percentage of households engaged in agricultural activities to total number of households by state  
[ Rural, July '77 - June '78 ]

north-eastern state	number of sample households	percentage of households engaged in agricultural activities
(1)	(2)	(3)
1. Arunachal Pradesh	1714	93.86
2. Assam (hill districts)	360	95.84
3. Manipur (hill districts)	384	94.79
4. Meghalaya	877	92.48

Narayan/

Households reporting occupation as cultivators (owners) and cultivators (tenants) have been considered as engaged in cultivation

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3.3 Engagement in cultivation : The percentages of households having cultivation as their occupation to total number of households for the states have been given below in Table (2). It is observed that 93 percent of the households engaged in cultivation in Manipur (hill districts), 91 percent in Arunachal Pradesh, 87 percent in Assam (hill districts) and 76 percent in Meghalaya.

Table (2) : Percentage of households engaged in cultivation to total number of households by state / Rural, July '77 - June '78

north-eastern state	number of sample households	Percentage of households engaged in cultivation
(1)	(2)	(3)
1. Arunachal Pradesh	1714	90.61
2. Assam (hill districts)	360	87.20
3. Manipur (hill districts)	384	92.71
4. Meghalaya	877	76.41

3.4 Household landpossession : The percentages of households to total number of households by household land possessed for the four states have been shown below in Table (3). It can be seen that the total area of landpossession by the household (including the land under jhum cultivation) is 2 hectares or less for majority of the households. It is <sup>80</sup> in case of 88 percent of households in Manipur (hill districts), 74 percent for Assam (hill districts), 71 percent for Meghalaya and 50 percent for Arunachal Pradesh.

Narayan/

Table (3) : Percentage of households to total number of households by household land possessed and by state [ Rural, July '77 - June '78 ]

north-eastern states	Percentage of households by size class of land possessed (hectares 0.00)				number of sample households
	upto 1.00	1.01 to 2.00	2.01 to 4.00	4.01 & above	
(1)	(2)	(3)	(4)	(5)	(6) (7)
1. Arunachal Pradesh	20.71	29.29	24.56	18.56	688 1714
2. Assam (hill districts)	13.61	60.28	23.33	1.11	167 360
3. Manipur (hill districts)	41.40	46.88	9.90	0.52	130 384
4. Meghalaya	33.87	37.06	26.00	2.84	023 877

3.5 Engagement of households in jhum and permanent cultivation :

The percentages of households doing jhum and permanent cultivation to total number of households for the states have been given in Table (4) below. There are <sup>three</sup> categories of households viz. (a) households doing jhum cultivation only, (b) households doing permanent cultivation only and (c) households doing both jhum and permanent cultivation. It is observed that the percentages of households doing jhum cultivation is more than those of permanent cultivation in case of Arunachal Pradesh and Manipur (hill districts). In Arunachal Pradesh 68 percent of the households engaged in jhum cultivation where as for Manipur (hill districts) it is 52 percent. The percentages of households engaged in permanent cultivation for Assam (hill districts) and Meghalaya are 79 and 63 respectively.

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Table (4) : Percentage of households doing jhum and permanent cultivation to total number of households by state  
Rural, July '77 - June '78

north-eastern states	percentage of households by type of cultivation		number of sample house- holds
	jhum	permanent	
(1)	(2)	(3)	(4)
1. Arunachal Pradesh	68.36	44.84	1714
2. Assam (hill districts)	57.50	78.89	360
3. Manipur (hill districts)	52.32	33.32	384
4. Meghalaya	61.12	63.07	877

3.6 Average size of land possessed, etc. : The average size of land possessed per household, average size of land per household under permanent cultivation and average size of land per household under jhum cultivation for the states have been shown below in Table (5). The average size of land possessed per household is highest in Arunachal Pradesh with 2.84 hectares and lowest in Meghalaya with 1.48 hectares. It is 1.99 hectares for Manipur (hill districts) and 1.61 hectares for Assam (hill districts). The average size of land per household under permanent cultivation is 1.01 hectares in Manipur (hill districts), 0.93 hectares in Assam (hill districts), 0.65 hectares in Meghalaya and 0.60 hectares in Arunachal Pradesh. The average size of land per household under jhum cultivation comes out as 0.97 hectares in Arunachal Pradesh, 0.92 hectares in Manipur (hill districts), 0.60 hectares in Meghalaya and 0.47 hectares in Assam (hill districts).

Table (5) : Average size of land possessed per household, average size of land per household under permanent cultivation, and average size of land per household under jhum cultivation by state  
[ Rural, July '77 - June '78 ]

north-eastern state	average size of land possessed per household (hectares 0.00)	average size of land per household under permanent cultivation (hectares 0.00)	average size of land per household under jhum cultivation (hectares 0.00)	number of sample households
(1)	(2)	(3)	(4)	(5)
1. Arunachal Pradesh	2.84	0.60	0.97	1714
2. Assam (hill districts)	1.61	0.93	0.47	360
3. Manipur (hill districts)	1.99	1.01	0.92	384
4. Meghalaya	1.48	0.65	0.60	877

### 3.7 Availability of irrigation facilities

The percentages of households reporting channel and spring as source of irrigation to total number of households having irrigation facilities by type of cultivation for the states have been presented below in Table (6). It can be seen that in case of permanent cultivation, channel and spring together cover the irrigation needs for 100 percent of the households in Assam (hill districts), 93 percent in Arunachal Pradesh, 65 percent in Meghalaya and 56 percent in Manipur (hill districts).

Narayan/

Table (6) : Percentage of households reporting channel and spring as source of irrigation to total number of households having irrigation facilities by type of cultivation and by state [ Rural, July '77-June '78 ]

north-eastern state	percentage of households by type of cultivation and source of irrigation*				number of sample house- holds
	jhum		permanent		
	channel	spring	channel	spring	
(1)	(2)	(3)	(4)	(5)	(6)
1. Arunachal Pradesh	46.31	43.75	54.47	38.83	1714
2. Assam (hill districts) -		100.00	88.54	11.46	360
3. Manipur(hill districts) -		-	43.01	12.90	384
4. Meghalaya		-	37.87	27.18	877

### 3.8 Engagement of household labour in agricultural operation :

The percentages of total man-days of labour put in by the household in agricultural operation by type of labour input (household and hired) for the states have been shown below in Table (7). It is observed that in all the states under consideration agricultural operations are being done by engaging mostly household labour. The contribution of household labour to total labour input is 97 percent in Arunachal Pradesh, 92 percent in Manipur (hill districts), 85 percent in Meghalaya and 81 percent in Assam (hill districts).

Table (7) : Percentage of total man-days of work by type of labour input and by state [ Rural, July '77- June '78 ]

north_eastern state	Percentage of total man-days of work by type of labour input		number of sample house- holds
	household	hired	
(1)	(2)	(3)	(4)
1. Arunachal Pradesh	97.35	2.65	1714
2. Assam (hill districts)	80.90	19.10	360
3. Manipur (hill districts)	92.48	7.52	384
4. Meghalaya	85.24	14.76	877

3.9 Yield of Paddy : The average yield of paddy per reporting household and number of reporting households by type of cultivation for the states have been given below in Table (8). It is observed that majority of the households reported cultivation of paddy. The average yield of paddy per reporting household under jhum cultivation comes out as 2058 kg. in Manipur (hill districts), 1435 kg. in Assam (hill districts), 811 kg. in Arunachal Pradesh and 591 kg. in Meghalaya. In case of permanent cultivation, the average yield of paddy per reporting household is 2910 kg. in Assam (hill districts), 1893 kg. in Manipur (hill districts), 1533 kg. in Meghalaya and 937 kg. in Arunachal Pradesh.

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Table (8) : Average yield of paddy per reporting household and number of reporting households by type of cultivation and by state [ Rural, July '77 -  
~~June~~ ~~July~~ '78 ]

north-eastern state	jhum cultivation		permanent cultivation	
	average yield per reporting h.h. (kg.0.00)	no. of reporting households	average yield per reporting h.h. (kg.0.00)	no. of reporting households
(1)	(2)	(3)	(4)	(5)
1. Arunachal Pradesh	810.92	1014	936.97	550
2. Assam (hill districts)	1434.85	151	2910.33	259
3. Manipur (hill districts)	2057.58	233	1893.13	157
4. Meghalaya	591.48	448	1532.98	455

3.10 Number of plots cultivated under jhum cultivation : The percentages of households practising jhum cultivation by number of plots cultivated for the four states have been presented below in Table (9). It is observed that majority of the households in all the states except Arunachal Pradesh cultivate one plot only under jhum cultivation. The percentage of households cultivating one plot only under jhum cultivation is 81 in Manipur (hill districts), 74 in Meghalaya, 58 in Assam (hill districts) and 16 in Arunachal Pradesh.

Table (9) : Percentage of households practising jhum cultivation by number of plots cultivated and by state  
[ Rural, July '77 - June '78 ]

north-eastern state	percentage of households by number of plots cultivated				
	1	2	3	4	5& above
(1)	(2)	(3)	(4)	(5)	(6)
1. Arunachal Pradesh	16.47	49.15	21.24	8.96	4.18
2. Assam (hill districts)	58.22	24.88	15.96	0.94	-
3. Manipur (hill districts)	81.06	15.61	2.33	1.00	-
4. Meghalaya	74.12	20.13	5.75	-	-

3.11 Value of output received from entrepreneurial activities :

The average annual value of output (in Rs.) per household by type of entrepreneurial activity for the states is given below in Table (10). The annual average value of output per household from all entrepreneurial activities is Rs.3 thousand in Meghalaya of which 97 percent comes from agriculture, Rs.2.8 thousand in Assam (hill districts), Rs. 2.5 thousand in Arunachal Pradesh and Rs. 2.2 thousand in Manipur (hill districts) of which 98, 98 and 97 percent respectively comes from agriculture.

Table (10) : Average value of output (in Rs.) per household by type of entrepreneurial activity and by state  
[ Rural, July '77 - June '78 ]

north-eastern state	average value of output (in Rs.) per household by type of activity			number of sample house- holds
	agriculture	others	total	
(1)	(2)	(3)	(4)	(5)
1. Arunachal Pradesh	2484	59	2543	1714
2. Assam (hill districts)	2719	54	2773	360
3. Manipur (hill districts)	2105	62	2167	384
4. Meghalaya	2869	98	2967	877

3.12 Income earned from various sources :

The average annual income (in Rs.) earned per household by source of income for the states has been shown below in Table (11). It can be observed that agriculture is the main source of income of the households in all the states. The average annual income earned per household is Rs. 3.4 thousand in Meghalaya of which 72 percent comes from agriculture, Rs. 2.8 thousand in Assam (hill districts), Rs. 2.6 thousand in Arunachal Pradesh and Rs. 2.2 thousand in Manipur (hill districts) of which 99, 90 and 88 percent respectively comes from agriculture.

Table (11) : Average income (in Rs.) earned per household by source of income and by state [ Rural, July '77 - June '78 ]

north-eastern state	average income (in Rs.) earned per household by source			number of sample households
	agriculture	others	total	
(1)	(2)	(3)	(4)	(5)
1. Arunachal Pradesh	2340	273	2613	1714
2. Assam (hill districts)	2543	268	2811	360
3. Manipur (hill districts)	1966	266	2232	384
4. Meghalaya	2476	968	3444	877

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APPENDIX - ISAMPLE DESIGN AND ESTIMATION PROCEDURE

1. Basic design : The survey was conducted in the rural sector of the North Eastern states. The sample design was stratified with two stage selection within each stratum. The first and second stage units were villages and households respectively.
2. Stratification : Each state/union territory was divided into a few agro-economic regions by grouping contiguous districts of similar agricultural profile. Strata for sampling were formed within regions. Each district with less than 1.5 million rural population (1971 census) formed a basic stratum by itself except in Arunachal Pradesh where some districts with less than above population were divided into two or more basic strata by grouping contiguous tehsils having similar crop pattern and density of rural population. Districts having more than 1.5 million rural population were divided into a number of basic strata (depending upon the population of each district) by following the same procedure.
3. Allocation : The total sample size of villages for a state was fixed on the basis of number of investigators available in the state and the norm of work-load per investigator. The total number of samples of a state was then allocated to its different strata in proportion to their population content.
4. Sample size : The sample sizes in terms of clusters of villages for the states covered are shown in the table below.

north-eastern state	number of sample clusters
(1)	(2)
1. Arunachal Pradesh	36
2. Assam (hill districts)	16
3. Manipur (hill districts)	16
4. Meghalaya	36

The state sample was of the same size.

5. Selection of villages : In order to reduce the difficulties in journey between villages situated in the hilly areas of North-Eastern region some 'nucleus' villages were selected in each stratum for survey. Those nucleus villages were selected systematically with equal probability. A few villages around a nucleus village were grouped to form a cluster of villages at the Field Headquarters following some prescribed procedure. A cluster in general consisted of 4 villages including the nucleus village.

6. Selection of households : Under the cluster sampling scheme there was no sub-division of large villages and all the households in the sample village were listed. A total of 24 households was selected in each cluster and that number was equally distributed over the villages within a cluster. When the number of households in any village was found to be less than the number to be selected from it then the balance was made up by increasing the quota in other villages in the cluster. Households were selected circularly systematically from the frame prepared in the village listing schedule.

7. Estimation procedure : The estimation procedure followed for schedule 16.4 (Integrated household survey) is noted below. In the following  $\hat{Y}$  stands for the estimate of the state total for the characteristic  $y$  based on the whole sample and whole round.

$$\hat{Y} = \sum_{r=1}^R M_r \sum_{s=1}^{K_r} \sum_{i=1}^{m_{rs}} \sum_{j=1}^{h_{rsi}} Y_{rsij}$$

$P_r$

where  $M_r = \frac{P_r}{p_r}$ ,  $P_r$  is the projected rural population of  $r$ th region and  $p_r$  is the number of sample persons in the rural area of that region (i.e.,  $p_r$  is the sum of household sizes of all the surveyed households),

R is the number of regions in a state,  
K is the number of strata in a region,  
r is the subscript for rth region,  
s is the subscript for sth stratum,  
i is the subscript for ith village,  
j is the subscript for jth household,  
m is the number of surveyed villages  
including de-populated and zero cases,  
and h is the number of surveyed households.

8. Estimates of ratios : An estimate of a ratio of two characteristics is given by the ratio of the estimates of aggregates of the items appearing in the numerator and denominator of the ratio.

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APPENDIX II.

Detailed tables

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (1) : Percentage distribution of households by household industry and household group

State : Arunachal Pradesh		no. of sample villages : 329		
i n d u s t r y	household group			total
	sche- duled caste	sche- duled tribe	others	
(1)	(2)	(3)	(4)	(5)
1. production of cereals and other pulses	53.33	97.56	53.00	92.63
2. production of fibres, sugar cane, oil seeds, roots, vegetables, fruits, pan etc.	-	-	-	-
3. plantations	-	-	-	-
4. livestock production	-	-	1.09	0.12
5. agricultural services	-	-	-	-
6. hunting, forestry and logging	-	-	10.38	1.11
7. fishing	-	-	-	-
8. mining and quarrying	-	-	0.55	0.06
9. manufacturing	5.56	0.13	1.64	0.35
10. electricity, gas and water supply	-	0.07	0.55	0.12
11. construction	11.11	0.40	12.02	1.75
12. wholesale trade	-	-	-	-
13. retail trade and restaurants & hotels	-	0.26	1.64	0.41
14. transport, storage & communication	-	0.20	2.19	0.41
15. financing, insurance, real estate and business services	-	-	-	-
16. public administration and defence services	-	0.79	6.01	1.34
17. educational, scientific and research services	-	0.26	2.19	0.47
18. medical and health services	-	-	4.37	0.47
19. repair services	-	-	-	-
20. other services	-	0.13	1.64	0.29
21. activities not adequately defined	-	0.20	2.73	0.47
22. all industries	100.00	100.00	100.00	100.00
23. number of sample households	18	1513	183	1714

Table (2) : Percentage distribution of households by household occupation and household group

State : Arunachal Pradesh

no. of sample villages : 329

occupation	household group			total
	sche- duled caste	sche- duled tribe	others	
(1)	(2)	(3)	(4)	(5)
1. physicians and surgeons	-	0.07	1.09	0.17
2. nursing & other medical & health technicians	-	0.07	2.19	0.29
3. teachers	-	0.33	2.19	0.52
4. other professional, technical & related workers	-	0.13	3.83	0.52
5. administrative, executive & managerial workers	-	0.07	0.55	0.12
6. village officials	-	-	-	-
7. clerical and related workers	5.56	0.20	6.01	0.38
8. merchants and shopkeepers, wholesale and retail trade	-	0.13	1.09	0.23
9. salesmen, shop assistants & related workers	-	-	0.55	0.06
10. money lenders and pawn brokers	-	-	-	-
11. other sales workers	-	0.07	-	0.06
12. barbers and launders	-	-	-	-
13. other service workers	-	0.40	3.28	0.70
14. farm plantation, dairy and other managers & supervisors	-	-	-	-
15. cultivators (owners)	77.77	96.55	42.61	90.61
16. cultivators (tenants)	-	-	-	-
17. agricultural labourers	-	0.07	5.46	0.64
18. plantation labourers & related workers	-	-	0.55	0.06
19. other farm workers	-	-	-	-
20. forestry workers	-	-	2.19	0.23
21. other farmers, hunters & related workers	-	-	-	-
22. fishermen and related workers	-	-	-	-
23. miners, quarrymen, well drillers and related workers	-	-	-	-
24. spinners, weavers, knitters & dyers	-	-	-	-
25. bricklayers, plasterers, rubber insulators, glaziers etc.	-	-	0.55	0.06
26. hut builders & thatchers	-	-	-	-
27. well diggers & other construction workers	-	-	-	-
28. drivers of animals and vehicles	-	0.13	-	0.12
29. other production and related workers	16.67	0.06	22.40	3.33
30. not classified by occupation	-	0.13	-	0.12
31. occupation code not recorded	-	0.79	5.46	1.28
32. all occupations	100.00	100.00	100.00	100.00
number of sample households	18	1513	103	1714

National Sample Survey, 32nd Round, July 1977-June 1978

Table (5) : Percentage distribution of households by household land possessed (in hectares 0.00) and household group

State : Arunachal Pradesh		no. of sample villages : 329			
size class of land possessed (hectares 0.00)	household group				
	scheduled caste	scheduled tribe	others	total	
(1)	(2)	(3)	(4)	(5)	
1. 0.00	5.56	0.86	9.84	1.87	
2. 0.01 - 0.20	-	1.12	0.55	1.05	
3. 0.21 - 0.40	-	2.64	-	2.33	
4. 0.41 - 1.00	5.56	16.92	4.37	15.46	
5. 1.01 - 2.00	22.22	29.62	27.32	29.29	
6. 2.01 - 3.00	5.56	20.16	4.37	18.32	
7. 3.01 - 4.00	5.56	6.81	1.64	6.24	
8. 4.01 - 8.00	33.32	12.69	1.64	11.73	
9. 8.01 & above	5.56	7.53	1.09	6.83	
10. not recorded	16.66	1.65	49.18	6.88	
11. total	100.00	100.00	100.00	100.00	
number of sample households	18	1513	183	1714	

JR.

National Sample Survey, 32nd Round, July 1977-June 1978

Table (4) : Percentage of households doing jhum and permanent cultivation to total number of households by household group/

State : Arunachal Pradesh                      no. of sample villages : 329

household group	number of sample households	percentage of households by type of cultivation	
		jhum	permanent
(1)	(2)	(3)	(4)
1. scheduled caste	18	0.12	0.93
2. scheduled tribe	1513	68.18	39.59
3. others	183	0.06	4.32
4. total	1714	68.36	44.84

Table (5) : Average size of land possessed per household, average size of land per household under permanent cultivation, average size of land per household under jhum cultivation by household group/

State : Arunachal Pradesh                      no. of sample villages : 329

household group	average size of land possessed per household (hectares 0.00)	average size of land per household under permanent cultivation (hectares 0.00)	average size of land per household under jhum cultivation (hectares 0.00)
1. scheduled caste	1.64	1.26	-
2. scheduled tribe	3.10	0.59	1.10
3. others	0.85	0.63	0.01
4. total	2.84	0.60	0.97

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National Sample Survey, 32nd Round, July 1977-June 1978

Table (6) : Percentage distribution of households reporting availability of irrigation facilities by source of irrigation and type of cultivation.

State : Arunachal Pradesh

no. of sample villages : 329

source of irrigation	type of cultivation	
	jhum	permanent
(1)	(2)	(3)
1. channel	45.31	54.47
2. spring	43.75	38.83
3. tank	9.38	32.86
4. well	-	0.20
5. tube-well	-	0.61
6. other sources	12.56	2.03
7. all	100.00	100.00

Table (7) : Percentage distribution of households by extent of use of improved seed and type of cultivation

State : Arunachal Pradesh

no. of sample villages : 329

extent of use of improved seed	type of cultivation	
	jhum	permanent
(1)	(2)	(3)
1. entire area	1.02	9.90
2. half or more area	0.69	1.95
3. less than half area	0.85	1.43
4. not used	97.44	86.72
5. total	100.00	100.00

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National Sample Survey, 32nd Round, July 1977-June 1978

Table (8) : Percentage distribution of households using green manure and cowdung by extent of use and type of cultivation.

State : Arunachal Pradesh no. of sample villages : 329

extent of use	type of cultivation			
	jhum		permanent	
	green manure	cow dung	green manure	cow dung
(1)	(2)	(3)	(4)	(5)
1. entire area	1.45	1.62	22.01	21.09
2. half or more area	8.28	8.02	13.93	13.41
3. less than half area	0.09	0.09	0.39	6.25
4. not used	90.18	90.27	63.67	59.25
5. total	100.00	100.00	100.00	100.00

Table (9) : Percentage distribution of total man-days of work by type of labour input and type of operation.

State : Arunachal Pradesh no. of sample villages : 329

type of labour input	type of operation					
	pre-sewing operation	sewing	weeding	harvesting	others	all
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. household	96.60	97.06	98.39	96.90	93.43	97.35
2. hired	3.40	2.94	1.61	3.10	6.57	2.65
3. total	100.00	100.00	100.00	100.00	100.00	100.00

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Table (10) . Average yield of crop per household, per reporting household and number of reporting households by type of crop and type of cultivation

State : Arunachal Pradesh

no. of sample villages : 329

crop	jhum cultivation			permanent cultivation		
	average yield of crop per h.h. (kg. 0:00)	average yield of crop per reporting h.h. (kg. 0:00)	number of reporting h.h.	average yield of crop per h.h. (kg. 0:00)	average yield of crop per reporting h.h. (kg. 0:00)	number of reporting h.h.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	479.74	810.92	1014	300.66	936.97	550
2. wheat	2.35	149.44	27	13.57	178.90	130
3. maize	214.41	349.34	1052	38.92	276.80	241
4. other cereals	246.80	461.80	916	92.70	693.83	229
5. gram	-	-	-	0.34	146.25	4
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	0.18	60.00	5	-	-	-
9. other pulses	3.63	40.42	154	3.41	92.87	63
10. rape seed	-	-	-	-	-	-
11. mustard	0.71	174.28	7	14.79	338.02	75
12. ground nut	-	-	-	-	-	-
13. other oil seeds	2.84	173.54	28	0.36	156.00	4
14. potatoes	22.40	208.62	184	7.36	95.53	132
15. other vegetables	55.70	246.05	388	9.83	111.60	151
16. oranges	0.01	16.00	1	-	-	-
17. pine apples	0.19	106.67	3	-	-	-
18. other fruits	0.16	39.29	7	0.01	20.00	1
19. ginger	5.93	37.67	270	0.21	21.47	17
20. chilli	10.33	45.52	389	8.92	70.47	217
21. turmeric	0.06	6.86	14	0.21	40.89	9
22. sugar cane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	-	-	-	-	-	-
27. tobacco	1.59	42.50	64	0.14	48.20	5
28. tea	-	-	-	0.08	6.22	23
29. tapioca	23.33	233.88	171	2.16	412.22	9
30. sweet potato	30.18	230.94	224	11.19	684.82	28
31. arum & other roots	72.14	276.63	447	9.78	670.80	25
32. any other crop	22.44	349.72	110	0.15	126.00	2

Table (11) : Percentage distribution of households reporting production of different crops under jhum cultivation by manner of disposal

State : Arunachal Pradesh

no. of sample villages: 329

crop	no. of reporting households	manner of disposal				total
		for consumption	for sale or barter	for debt repayment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	1014	99.90	0.10	-	-	100.00
2. wheat	27	100.00	-	-	-	100.00
3. maize	1052	100.00	-	-	-	100.00
4. other cereals	916	100.00	-	-	-	100.00
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	5	100.00	-	-	-	100.00
9. other pulses	154	92.86	7.14	-	-	100.00
10. rape seed	-	-	-	-	-	-
11. mustard	7	42.86	57.14	-	-	100.00
12. groundnut	-	-	-	-	-	-
13. other oil seeds	28	100.00	-	-	-	100.00
14. potato	184	100.00	-	-	-	100.00
15. other vegetables	388	99.74	0.26	-	-	100.00
16. oranges	1	100.00	-	-	-	100.00
17. pine apples	3	66.67	33.33	-	-	100.00
18. other fruits	7	100.00	-	-	-	100.00
19. ginger	270	95.19	4.81	-	-	100.00
20. chilli	389	93.83	6.17	-	-	100.00
21. turmeric	14	100.00	-	-	-	100.00
22. sugar cane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	-	-	-	-	-	-
27. tobacco	64	100.00	-	-	-	100.00
28. tea	-	-	-	-	-	-
29. tapioca	171	100.00	-	-	-	100.00
30. sweet potato	224	98.21	1.79	-	-	100.00
31. arum & other roots	447	99.78	0.22	-	-	100.00
any other crop	110	100.00	-	-	-	100.00



Table (12) : Percentage distribution of households reporting production of different crops under permanent cultivation by manner of disposal

State : Arunachal Pradesh

no. of sample villages : 329

c r o p	no. of reporting households	manner of disposal				total
		for consumption	for sale or barter	for debt repayment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	550	94.37	4.18	-	1.45	100.00
2. wheat	130	89.23	9.23	-	1.54	100.00
3. maize	241	97.93	2.07	-	-	100.00
4. other cereals	229	99.56	0.44	-	-	100.00
5. gram	4	100.00	-	-	-	100.00
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	53	100.00	-	-	-	100.00
10. rape seed	-	-	-	-	-	-
11. mustard	75	12.00	88.00	-	-	100.00
12. groundnut	-	-	-	-	-	-
13. other oil seeds	4	75.00	25.00	-	-	100.00
14. potato	132	93.94	6.06	-	-	100.00
15. other vegetables	151	99.34	0.66	-	-	100.00
16. oranges	-	-	-	-	-	-
17. pine apples	-	-	-	-	-	-
18. other fruits	1	100.00	-	-	-	100.00
19. ginger	17	100.00	-	-	-	100.00
20. chilli	217	81.11	18.89	-	-	100.00
21. turmeric	9	100.00	-	-	-	100.00
22. sugarcane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
mesta	-	-	-	-	-	-
cotton	-	-	-	-	-	-
tobacco	5	60.00	40.00	-	-	100.00
tea	25	100.00	-	-	-	100.00
tapioca	9	88.89	11.11	-	-	100.00
sweet potato	28	100.00	-	-	-	100.00
arum & other roots	25	100.00	-	-	-	100.00
any other crop	2	100.00	-	-	-	100.00

National Sample Survey, 32nd Round, July 1977-June 1978

Table (13) : Percentage distribution of households practising jhum cultivation by household group and number of plots cultivated.

State : Arunachal Pradesh                      no. of sample villages : 329

household group	percentage of h.h. by no. of plots cultivated					total
	1	2	3	4	5 & above	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. scheduled caste	100.00	-	-	-	-	100.00
2. scheduled tribe	16.26	49.27	21.30	8.98	4.19	100.00
3. others	100.00	-	-	-	-	100.00
4. total	16.47	49.15	21.24	8.96	4.18	100.00

Table (14) : Average value of output (in ₹.) per household and number of reporting households by industry group

State : Arunachal Pradesh                      no. of sample villages : 329

industry group	number of reporting households	average value of output (in ₹.) per household
(1)	(2)	(3)
1. agriculture	1504	2484
2. mining	1	0
3. manufacture	10	4
4. construction	5	8
5. trade	7	8
6. transport	4	2
7. service	28	37

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (15) : Average income (in Rs.) earned per household and number of reporting households by source of income

State : Arunachal Pradesh

no. of sample villages : 329

source of income	average income (Rs.) (in thousands)	number of reporting households
(1)	(2)	(3)
1. agricultural production	1777	1504
2. other agriculture	563	1052
3. other enterprises	24	41
4. wage income	138	145
5. other income	111	175
6. total income	2613	1566

Table (1) : National Sample Survey, 32<sup>nd</sup> Round, July 1977-June 1978  
 Percentage distribution of households by household  
 industry and household group

State : Assam (hill districts)

no. of sample villages: 48

industry	household group			
	schedu- led caste	schedu- tribe	others	total
(1)	(2)	(3)	(4)	(5)
1. production of cereals and other pulses	100.00	98.24	85.08	95.84
2. production of fibres, sugarcane, oil seeds, roots, vegetables, fruits, pan etc.	-	-	-	-
3. plantations	-	-	-	-
4. livestock production	-	-	-	-
5. agricultural services	-	-	-	-
6. hunting, forestry and logging	-	-	-	-
7. fishing	-	-	-	-
8. mining and quarrying	-	-	-	-
9. manufacturing	-	-	-	-
10. electricity, gas and water supply	-	-	-	-
11. construction	-	-	-	-
12. wholesale trade	-	-	-	-
13. retail trade and restaurants & hotels	-	-	5.97	1.11
14. transport, storage & communication	-	-	4.48	0.83
15. financing, insurance, real estate and business services	-	-	-	-
16. public administration and defence services	-	0.35	-	0.28
17. educational, scientific and research services	-	1.06	1.49	1.11
18. medical and health services	-	-	-	-
19. repair services	-	-	-	-
20. other services	-	0.35	2.98	0.83
21. activities not adequately defined	-	-	-	-
22. all industries	100.00	100.00	100.00	100.00
number of sample households	9	1284	67	360

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (2) : Percentage distribution of households by household occupation and household group

State : Assam (hill districts)

no. of sample villages:48

o c c u p a t i o n	household group			total
	sche- duled caste	sche- duled tribe	others	
(1)	(2)	(3)	(4)	(5)
1. physicians and surgeons	-	-	-	-
2. nursing & other medical & health technicians	-	-	-	-
3. teachers	-	0.35	1.49	0.56
4. other professional, technical & related workers	-	0.70	-	0.56
5. administrative, executive & managerial workers	-	-	-	-
6. village officials	-	-	-	-
7. clerical and related workers	-	0.35	-	0.28
8. merchants and shopkeepers, wholesale and retail trade	-	0.35	4.48	1.11
9. salesmen, shop assistants & related workers	-	-	-	-
10. money lenders and pawn brokers	-	-	-	-
11. other sales workers	-	-	-	-
12. barbers and launders	-	-	-	-
13. other service workers	-	-	1.49	0.28
14. farm plantation, dairy and other managers & supervisors	-	0.70	17.91	3.89
15. cultivators (owners)	77.78	95.09	59.23	87.20
16. cultivators (tenants)	-	-	-	-
17. agricultural labourers	22.22	0.70	10.45	3.06
18. plantation labourers & related workers	-	-	-	-
19. other farm workers	-	-	-	-
20. forestry workers	-	-	-	-
21. other farmers, hunters & related workers	-	-	-	-
22. fishermen and related workers	-	-	-	-
23. miners, quarrymen, well drillers and related workers	-	-	-	-
24. spinners, weavers, knitters & dyers	-	-	-	-
25. bricklayers, plasterers, rubber insulators, glaziers etc.	-	-	-	-
26. hut builders & thatchers	-	-	-	-
27. well diggers & other construction workers	-	-	-	-
28. drivers of animals and vehicles	-	-	-	-
29. other production and related workers	-	-	1.49	0.28
30. not classifiable by occupation	-	-	5.97	1.11
31. occupation code not recorded	-	1.76	1.49	1.67
32. all occupations	100.00	100.00	100.00	100.00
number of sample households	9	284	67	360

National Sample Survey, 32nd round, July 1977-June 1978

Table (3) : Percentage distribution of households by household land possessed (in hectares 0.00) and household group

size class of land possessed (hectares 0.00)		household group			total
		scheduled caste	scheduled tribe	others	
(1)	(2)	(3)	(4)	(5)	
1.	0.00	-	-	-	-
2.	0.01 - 0.20	11.11	0.70	19.40	4.44
3.	0.21 - 0.40	-	2.46	4.48	2.78
4.	0.41 - 1.00	-	7.39	2.99	6.39
5.	1.01 - 2.00	66.67	61.28	55.22	60.28
6.	2.01 - 3.00	22.22	20.07	10.45	18.33
7.	3.01 - 4.00	-	5.63	2.99	5.00
8.	4.01 - 8.00	-	1.41	-	1.11
9.	8.01 & above	-	-	-	-
10.	not recorded	-	1.06	4.47	1.67
11.	t o t a l	100.00	100.00	100.00	100.00
	number of sample households	9	284	67	360

National Sample Survey, 32nd Round, July 1977-June 1978

Table (4) : Percentage of households doing jhum and permanent cultivation to total number of households by household group/

State : Assam (hill districts) no. of sample villages : 48

household group	number of sample households	percentage of households by type of cultivation	
		jhum	permanent
(1)	(2)	(3)	(4)
1. scheduled caste	9	-	-
2. scheduled tribe	284	56.94	63.33
3. others	67	0.56	15.56
4. total	360	57.50	78.89

Table (5) : Average size of land possessed per household, average size of land per household under permanent cultivation, average size of land per household under jhum cultivation by household group/

State : Assam (hill districts) no. of sample villages : 48

household group	average size of land possessed per household (hectares 0.00)	average size of land per household under permanent cultivation (hectares 0.00)	average size of land per household under jhum cultivation (hectares 0.00)
(1)	(2)	(3)	(4)
1. scheduled caste	1.47	1.07	0.00
2. scheduled tribe	1.74	0.57	0.60
3. others	1.09	0.91	0.00
4. total	1.61	0.93	0.47

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (6) : Percentage distribution of households reporting availability of irrigation facilities by source of irrigation and type of cultivation

State : Assam (hill districts) no. of sample villages : 48

source of irrigation	type of cultivation	
	jhum	permanent
(1)	(2)	(3)
1. channel	-	88.54
2. spring	100.00	11.46
3. tank	-	-
4. well	-	-
5. tube-well	-	-
6. other sources	-	-
7. total	100.00	100.00

Table (7) : Percentage distribution of households by extent of use of improved seed and type of cultivation

State : Assam (hill districts) no. of sample villages : 48

extent of use of improved seed	type of cultivation	
	jhum	permanent
(1)	(2)	(3)
1. entire area	-	-
2. half or more area	-	-
3. less than half area	-	-
4. not used	100.00	100.00
5. total	100.00	100.00



National Sample Survey, 32nd Round, July 1977 - June 1978

Table (8) : Percentage distribution of households using green manure and cow dung by extent of use and type of cultivation

State : Assam (hill districts) no. of sample villages : 48

extent of use	type of cultivation			
	jhum		permanent	
	green manure	cow-dung	green manure	cow dung
(1)	(2)	(3)	(4)	(5)
1. entire area	14.98	20.77	21.48	51.06
2. half or more area	2.89	0.97	3.17	1.05
3. less than half area	-	12.08	-	6.34
4. not used	82.13	66.18	75.35	41.55
5. total	100.00	100.00	100.00	100.00

Table (9) : Percentage distribution of total man-days of work by type of labour input and type of operation

State : Assam (hill districts) no. of sample villages : 48

type of labour input	type of operation					
	pre-sowing operation	sowing	weeding	harvesting	others	all, incl.
	(2)	(3)	(4)	(5)	(6)	(7)
1. household	82.53	83.13	73.74	81.26	-	80.90
2. hired	17.47	16.87	26.26	18.74	-	19.10
3. total	100.00	100.00	100.00	100.00	-	100.00

National Sample Survey, 32nd Round, July 1977-June 1978

Table (10) : Average yield of crop per household, per reporting household and number of reporting households by type of crop and type of cultivation

State : Assam (hill districts)

no. of sample villages: 48

c r o p	jhum cultivation			permanent cultivation		
	average yield of crop per h.h. (kg. 0.00)	average yield of crop per reporting h.h. (kg. 0.00)	number of reporting h.h.	average yield of crop per reporting h.h. (kg. 0.00)	average yield of crop per reporting h.h. (kg. 0.00)	number of reporting h.h.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	601.84	1434.85	151	2093.82	2910.33	259
2. wheat	-	-	-	195.08	3192.23	22
3. maize	-	-	-	-	-	-
4. other cereals	0.28	50.00	2	0.14	52.00	1
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	0.39	34.75	4	-	-	-
10. rape seed	-	-	-	-	-	-
11. mustard	0.09	8.00	4	-	-	-
12. ground nut	0.22	80.00	1	-	-	-
13. other oil seeds	14.06	95.49	53	3.68	120.45	11
14. potatoes	0.85	43.71	7	1.26	41.36	11
15. other vegetables	1.88	48.36	14	0.60	71.67	3
16. oranges	0.04	8.00	2	-	-	-
17. pine apples	-	-	-	-	-	-
18. other fruits	-	-	-	-	-	-
19. ginger	-	-	-	-	-	-
20. chilli	6.61	74.38	32	0.08	5.80	5
21. turmeric	-	-	-	-	-	-
22. sugar cane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	6.19	247.78	9	-	-	-
27. tobacco	-	-	-	-	-	-
28. tea	-	-	-	-	-	-
29. tapioca	-	-	-	-	-	-
30. sweet potato	-	-	-	-	-	-
31. arum & other roots	-	-	-	-	-	-
32. any other crop	0.26	18.80	5	0.99	20.88	17

Table (11) : Percentage distribution of households reporting production of different crops under jhum cultivation by manner of disposal

State : Assam (hill districts)

no. of sample villages: 48

c r o p	number of reporting households	manner of disposal				total
		for consumption	for sale or barter	for debt re-payment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	151	97.35	2.65	-	-	100.00
2. wheat	-	-	-	-	-	-
3. maize	-	-	-	-	-	-
4. other cereals	2	100.00	-	-	-	100.00
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	4	75.00	25.00	-	-	100.00
0. rape seed	-	-	-	-	-	-
1. mustard	4	25.00	75.00	-	-	100.00
2. groundnut	1	100.00	-	-	-	100.00
3. other oil seeds	53	77.36	22.64	-	-	100.00
4. potato	7	71.43	28.57	-	-	100.00
5. other vegetables	14	85.71	14.29	-	-	100.00
. oranges	2	100.00	-	-	-	100.00
pine apples	-	-	-	-	-	-
8. other fruits	-	-	-	-	-	-
ginger	-	-	-	-	-	-
chilli	32	9.38	99.62	-	-	100.00
turmeric	-	-	-	-	-	-
sugar cane	-	-	-	-	-	-
jute	-	-	-	-	-	-
hemp	-	-	-	-	-	-
mesta	-	-	-	-	-	-
cotton	9	-	100.00	-	-	100.00
tobacco	-	-	-	-	-	-
tea	-	-	-	-	-	-
<del>tapioca</del> tapioca	-	-	-	-	-	-
sweet potato	-	-	-	-	-	-
arum & other roots	-	-	-	-	-	-
any other crops	5	60.00	40.00	-	-	100.00

## National Sample Survey, 32nd Round, July 1977 - June 1978

Table (12) : Percentage distribution of households reporting production of different crops under permanent cultivation by manner of disposal

State : Assam (hill districts)		no. of sample villages : 48				
c r o p	number of reporting households	manner of disposal				total
		for consumption	for sale or barter	for debt repayment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	259	64.09	35.91	-	-	100.00
2. wheat	22	100.00	-	-	-	100.00
3. maize	-	-	-	-	-	-
4. other cereals	1	100.00	-	-	-	100.00
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	-	-	-	-	-	-
10. rape seed	-	-	-	-	-	-
11. mustard	-	-	-	-	-	-
12. ground nut	-	-	-	-	-	-
13. other oil seeds	11	9.09	90.91	-	-	100.00
14. potato	11	45.45	54.55	-	-	100.00
15. other vegetables	3	66.67	33.33	-	-	100.00
16. oranges	-	-	-	-	-	-
17. pine apples	-	-	-	-	-	-
18. other fruits	-	-	-	-	-	-
19. ginger	-	-	-	-	-	-
20. chilli	5	100.00	-	-	-	100.00
21. turmeric	-	-	-	-	-	-
22. sugarcane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	-	-	-	-	-	-
27. tobacco	-	-	-	-	-	-
28. tea	-	-	-	-	-	-
29. tapioca	-	-	-	-	-	-
30. sweet potato	-	-	-	-	-	-
31. arum & other roots	-	-	-	-	-	-
32. any other crop	17	41.18	58.82	-	-	100.00

Table (13) : Percentage distribution of households practising jhum cultivation by household group and number of plots cultivated.

State : Assam (hill districts) no. of sample villages: 48

household group	percentage of h.h. by no. of plots cultivated					
	1	2	3	4	5 & above	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. scheduled caste	-	-	-	-	-	-
2. scheduled tribe	57.82	25.12	16.11	0.95	-	100.00
3. others	100.00	-	-	-	-	100.00
4. total	58.22	24.88	15.96	0.94	-	100.00

Table (14) : Average value of output <sup>(in Rs.)</sup> per household and number of reporting households by industry group

State : Assam (hill districts) no. of sample villages: 48

industry group	number of reporting households	average value of output (in Rs.) per household
(1)	(2)	(3)
1. agriculture	340	2719
2. mining	-	-
3. manufacture	-	-
4. constuction	-	-
5. trade	1	28
6. transport	-	-
7. services	2	26

National Sample Survey, 32nd Round, July 1977 - June 1978

Table (15) : Average income (in Rs.) earned per household and number of reporting households by source of income

State : Assam ( hill districts)		no. of sample villages : 48	
source of income	average income (Rs.) earned per household	number of reporting households	
(1)	(2)	(3)	
1. agricultural production	2410	329	
2. other agriculture	133	242	
3. other enterprises	53	7	
4. wage income	181	24	
5. other income	34	20	
6. total income	2811	354	

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National Sample Survey, 42nd Round, July 1977 - June 1978

Table (1) : Percentage distribution of households by household industry and household group

State : Manipur (hill districts)		no. of sample villages : 63		
i n d u s t r y	household group			total
	scheduled caste	scheduled tribe	others	
(1)	(2)	(3)	(4)	(5)
1. production of cereals and other pulses	-	95.14	78.57	94.53
2. production of fibres, sugarcane, oil seeds, roots, vegetables, fruits, pan etc.	-	0.27	-	0.26
3. plantations	-	-	-	-
4. livestock production	-	-	-	-
5. agricultural services	-	-	-	-
6. hunting, forestry and logging	-	-	-	-
7. fishing	-	-	-	-
8. mining and quarrying	-	0.27	-	0.26
9. manufacturing	-	-	-	-
10. electricity, gas and water supply	-	-	-	-
11. construction	-	-	-	-
12. wholesale trade	-	-	-	-
13. retail trade and restaurants & hotels	-	0.27	-	0.26
14. transport, storage & communication	-	-	-	-
15. financing, insurance, real estate and business services	-	-	-	-
16. public administration and defence services	-	1.62	21.43	2.35
17. educational, scientific and research services	-	1.08	-	1.04
18. medical and health services	-	-	-	-
19. repair services	-	-	-	-
20. other services	-	0.27	-	0.26
21. activities not adequately defined	-	1.08	-	1.04
22. all industries	-	100.00	100.00	100.00
number of sample households	-	370	14	384

National Sample Survey, 32nd Round, July 1977 - June 1978

Table (2) : Percentage distribution of households by household occupation and household group

State : Manipur (hill districts)	no. of sample villages	household group			tot
		o c c u p a t i o n			
		sche- duled caste	sche- duled tribe	others	
(1)	(2)	(3)	(4)	(5)	
1. physicians and surgeons	-	-	-	-	
2. nursing & other medical & health technicians	-	-	-	-	
3. teachers	-	-	-	-	
4. other professional, technical & related/ administrative, executive & managerial workers	-	1.89	21.43	2.61	
5. village officials	-	-	-	-	
6. clerical and related workers	-	0.81	-	0.78	
7. merchants and shopkeepers, wholesale and retail trade	-	-	-	-	
8. salesmen, shop assistants & related workers	-	0.27	-	0.26	
9. money lenders and pawn brokers	-	-	-	-	
10. other sales workers	-	-	-	-	
11. barbers and launders	-	-	-	-	
12. other service workers	-	0.54	-	0.52	
13. farm plantation, dairy and other <del>managers and supervisors</del>	-	0.81	-	0.78	
14. cultivators (owners)	-	93.25	57.14	91.93	
15. cultivators (tenants)	-	-	21.43	0.78	
16. agricultural labourers	-	0.54	-	0.52	
17. plantation labourers & related workers	-	-	-	-	
18. other farm workers	-	0.27	-	0.26	
19. forestry workers	-	-	-	-	
20. other farmers, hunters & related workers	-	0.27	-	0.26	
21. fishermen and related workers	-	-	-	-	
22. miners, quarrymen, well drillers and related workers	-	-	-	-	
23. spinners, weavers, knitters, dyers	-	-	-	-	
24. bricklayers, plasterers, rubber insulators, glaziers etc.	-	-	-	-	
25. hut builders & other construction workers	-	-	-	-	
26. well diggers & other construction workers	-	-	-	-	
27. drivers of animals and vehicles	-	-	-	-	
28. other production and related workers	-	-	-	-	
29. not classifiable by occupation	-	-	-	-	
30. occupation code not recorded	-	1.35	-	1.30	
31. all occupations	-	100.00	100.00	100.00	
number of sample households	-	370	14	384	



## National Sample Survey, 2nd Round, July 1977-June 1978

Table (3) : Percentage distribution of households by household land possessed (in hectares 0.00) and household group

State : Manipur (hill districts)                      no. of sample villages : 63

	size class of land possessed (hectares 0.00)	household group			total
		scheduled caste	scheduled tribe	others	
	(1)	(2)	(3)	(4)	(5)
1.	0.00	-	-	-	-
2.	0.01 - 0.20	-	2.43	7.14	2.60
3.	0.21 - 0.40	-	8.38	-	8.07
4.	0.41 - 1.00	-	30.00	50.00	30.73
5.	1.01 - 2.00	-	48.11	14.29	46.88
6.	2.01 - 3.00	-	7.03	7.14	7.03
7.	3.01 - 4.00	-	2.70	7.14	2.87
8.	4.01 - 8.00	-	0.54	-	0.52
9.	8.01 & above	-	-	-	-
10.	not recorded	-	0.81	14.29	1.30
11.	t o t a l	-	100.00	100.00	100.00
	number of sample households	-	370	14	384

National Sample Survey, 32nd Round, July 1977-June 1978.

Table (4) : Percentage of households doing jhum and permanent cultivation to total number of households by household group

State : Manipur (hill districts)

no. of sample villages : 63

household group	number of sample households	percentage of households by type of cultivation	
		jhum	permanent
(1)	(2)	(3)	(4)
1. scheduled caste	-	-	-
2. scheduled tribe	370	51.02	32.02
3. others	14	1.30	1.30
4. total	384	52.32	33.32

Table (5) : Average size of land possessed per household, average size of land per household under permanent cultivation, average size of land per household under jhum cultivation by household group/

State : Manipur (hill districts)

no. of sample villages : 63

household group	average size of land possessed per household (hectares 0.00)	average size of land per household under permanent cultivation (hectares 0.00)	average size of land per household under jhum cultivation (hectares 0.00)
1. scheduled caste	-	-	-
2. scheduled tribe	1.97	1.04	0.90
3. others	2.01	0.86	1.05
4. total	1.99	1.01	0.92

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## National Sample Survey, 32nd Round, July 1977-June 1978

Table (6) : Percentage distribution of households reporting availability of irrigation facilities by source of irrigation and type of cultivation

State : Manipur (hill districts)		no. of sample villages : 63	
source of irrigation	type of cultivation		
	j h u m	permanent	
(1)	(2)	(3)	
1. channel	-	43.01	
2. spring	-	12.90	
3. tank	-	-	
4. well	-	-	
5. tube-well	-	-	
6. other sources	-	44.09	
7. a l l	=	100.00	

Table (7) : Percentage distribution of households by extent of use of improved seed and type of cultivation

State : Manipur (hill districts)		no. of sample villages : 63	
extent of use of improved seed	type of cultivation		
	j h u m	permanent	
(1)	(2)	(3)	
1. entire area	-	-	
2. half or more area	0.41	(1-18) 1.18	
3. less than half area	0.41	-	
4. not used	99.18	98.82	
5. t o t a l	100.00	100.00	

National Sample Survey, 32nd Round, July 1977-June 1978

Table (8) : Percentage distribution of households using green manure and cowdung by extent of use and type of cultivation

State : Manipur (hill districts)      no. of sample villages : 63

extent of use	type of cultivation			
	j u m		permanent	
	green manure	cow dung	green manure	cow dung
(1)	(2)	(3)	(4)	(5)
1. entire area	0.41	0.41	-	-
2. half or more area	-	5.35	8.82	11.76
3. less than half area	-	-	-	5.88
4. not used	99.59	94.24	91.18	82.36
5. total	100.00	100.00	100.00	100.00

Table (9) : Percentage distribution of total man-days of work by type of labour input and type of operation

State : Manipur (hill districts)      no. of sample villages : 63

type of labour input	type of operation					
	pre-sowing operation	sowing	weeding	harvesting	others	all
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. household	93.10	89.82	96.80	85.48	-	92.48
2. hired	6.90	10.18	3.20	14.52	-	7.52
3. total	100.00	100.00	100.00	100.00	-	100.00

National Sample Survey, 32nd Round, July 1977-June 1978  
 Table (10) : Average yield of crop per household, per reporting household and number of reporting households by type of crop and type of cultivation

State : Manipur (hill districts)      no. of sample villages : 63

c r o p	jhum cultivation			permanent cultivation		
	average yield of crop per h.h. (kg.0.00)	average yield of crepper of reporting h.h. (kg.0.00)	number of reporting h.h.	average yield of crop per h.h. (kg.0.00)	average yield of crop per reporting h.h. (kg.0.00)	number of reporting h.h.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	1972.91	2057.58	233	1748.36	1893.13	157
2. wheat	3.46	210.00	4	171.53	3845.00	8
3. maize	0.29	35.00	2	55.32	626.93	15
4. other cereals	8.72	706.67	3	4.41	750.00	1
5. gram	0.62	150.00	1	2.82	480.00	1
6. <del>rong</del>	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	-	-	-	-	-	-
10. rape seed	-	-	-	-	-	-
11. mustard	-	-	-	3.24	110.00	5
12. ground nut	-	-	-	-	-	-
13. other oil seeds	-	-	-	-	-	-
14. potatoes	-	-	-	1.29	110.00	2
15. other vegetables	-	-	-	-	-	-
16. oranges	10.53	640.00	4	-	-	-
17. pine apples	-	-	-	1.88	24.62	13
18. other fruits	2.96	720.00	1	-	-	-
19. ginger	40.66	898.18	11	1.88	320.00	1
20. chilli	2.54	29.43	21	-	-	-
21. turmeric	-	-	-	-	-	-
22. sugar cane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	0.62	75.00	2	-	-	-
27. tobacco	-	-	-	-	-	-
28. tea	-	-	-	-	-	-
29. tapioca	-	-	-	-	-	-
30. sweet potato	-	-	-	-	-	-
31. <del>any</del> & other roots	1.98	160.00	3	-	-	-
32. any other crop	-	-	-	-	-	-

Table (11) : Percentage distribution of households reporting production of different crops under jhum cultivation by manner of disposal

State : Manipur (hill districts)		no. of sample villages :				
c r o p	number of reporting households	manner of disposal				total
		for consumption	for sale or barter	for debt repayment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	233	100.00	-	-	-	100.00
2. wheat	4	75.00	25.00	-	-	100.00
3. maize	2	100.00	-	-	-	100.00
4. other cereals	3	100.00	-	-	-	100.00
5. gram	1	100.00	-	-	-	100.00
6. moong	-	-	-	-	-	<del>100.00</del>
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	-	-	-	-	-	-
10. rape seed	-	-	-	-	-	-
11. mustard	-	-	-	-	-	-
12. ground nut	-	-	-	-	-	-
13. other oil seeds	-	-	-	-	-	-
14. potatoes	-	-	-	-	-	-
15. other vegetables	-	-	-	-	-	-
16. oranges	4	25.00	75.00	-	-	100.00
17. pineapples	-	-	-	-	-	-
18. other fruits	1	-	100.00	-	-	100.00
19. ginger	11	18.18	81.82	-	-	100.00
20. chilli	21	14.29	85.71	-	-	100.00
21. turmeric	-	-	-	-	-	-
22. sugar cane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	2	50.00	50.00	-	-	100.00
27. tobacco	-	-	-	-	-	-
28. tea	-	-	-	-	-	-
29. tapioca	-	-	-	-	-	-
30. sweet potato	-	-	-	-	-	-
31. arum and other roots	3	33.33	66.67	-	-	100.00
32. any other crops	-	-	-	-	-	-

## National Sample Survey, 32nd Round, July 1977 - June 1978

Table (12) : Percentage distribution of households reporting production of different crops under permanent cultivation by manner of disposal

State : Manipur (hill districts)		no. of sample villages : 63				
C r o p	number of reporting households	manner of disposal				total
		for consumption	for sale or barter	for debt repayment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	157	82.80	1.91	-	15.29	100.00
2. wheat	8	87.50	12.50	-	-	100.00
3. maize	15	40.00	60.00	-	-	100.00
4. other cereals	1	-	100.00	-	-	100.00
5. gram	1	100.00	-	-	-	100.00
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	-	-	-	-	-	-
10. rape seed	-	-	-	-	-	-
11. mustard	5	-	100.00	-	-	100.00
12. ground nut	-	-	-	-	-	-
13. other oil seeds	-	-	-	-	-	-
14. potatoes	2	100.00	-	-	-	100.00
15. other vegetables	-	-	-	-	-	-
16. oranges	-	-	-	-	-	-
17. pine apples	13	84.62	15.38	-	-	100.00
18. other fruits	-	-	-	-	-	-
19. ginger	1	100.00	-	-	-	100.00
20. chilli	-	-	-	-	-	-
21. turmeric	-	-	-	-	-	-
22. sugarcane	-	-	-	-	-	-
23. jute	-	-	-	-	-	-
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	-	-	-	-	-	-
27. tobacco	-	-	-	-	-	-
28. tea	-	-	-	-	-	-
29. tapioca	-	-	-	-	-	-
30. sweet potato	-	-	-	-	-	-
31. arum and other roots	-	-	-	-	-	-
32. any other crops	-	-	-	-	-	-

## National Sample Survey, 32nd Round, July 1977-June 1978.

Table (13) : Percentage distribution of households practising jhum cultivation by household group and number of plots cultivated.

State : Manipur (hill districts)                      no. of sample villages : 63

household group	percentage of h.h. by no. of plots cultivated					
	1	2	3	4	5 & above	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. scheduled caste	-	-	-	-	-	-
2. scheduled tribe	80.68	15.93	2.37	1.02	-	100.00
3. others	100.00	-	-	-	-	100.00
4. total	81.06	15.61	2.33	1.00	-	100.00

Table (14) : Average value of output <sup>(in Rs.)</sup> per household and number of reporting households by industry group

State : Manipur (hill districts)                      no. of sample villages : 63

industry group	number of reporting households	average value of output (Rs.) per household
(1)	(2)	(3)
1. agriculture	375	2105
2. mining	-	-
3. manufacture	47	17.
4. construction	1	0
5. trade	1	13
6. transport	-	-
7. service	3	32



National Sample Survey, 32nd Round, July 1977 - June 1978

Table (15) : Average income (in Rs.) earned per household and number of reporting households by source of income

State : Manipur (hill districts)      no. of sample households : 63

source of income	average income (Rs.) earned per household	number of reporting households
(1)	(2)	(3)
1. agricultural production	1736	373
2. other agriculture	230	214
3. other enterprises	29	47
4. wage income	158	14
5. other income	79	77
6. total income	2232	384

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (1) : Percentage distribution of households by household industry and household group

State : Meghalaya		no. of sample villages : 158		
i n d u s t r y	household group			total
	scheduled caste	scheduled tribe	others	
(1)	(2)	(3)	(4)	(5)
1. production of cereals and other pulses	50.00	86.47	59.46	85.18
2. production of fibres, sugarcane, oil seeds, roots, vegetables, fruits, and pan etc.	-	3.83	-	3.85
3. plantations	-	2.15	-	2.06
4. livestock production	-	-	-	-
5. agricultural services	-	0.72	-	0.68
6. hunting, forestry and logging	-	0.36	-	0.34
7. fishing	-	0.60	-	0.57
8. mining and quarrying	-	-	-	-
9. manufacturing	25.00	1.91	8.11	2.28
10. electricity, gas and water supply	-	-	-	-
11. construction	-	0.96	5.41	1.14
12. wholesale trade	-	-	2.70	0.21
13. retail trade and restaurants & hotels	-	0.60	24.32	1.60
14. transport, storage & communication	25.00	-	-	0.11
15. financing, insurance, real estate and business services	-	-	-	-
16. public administration and defence services	-	0.72	-	0.68
17. educational, scientific and research services	-	1.08	-	1.03
18. medical and health services	-	0.12	-	0.11
19. repair services	-	-	-	-
20. other services	-	-	-	-
21. activities not adequately defined	-	0.48	-	0.40
22. all industries	100.00	100.00	100.00	100.00
number of sample households	4	836	37	877

National Sample Survey, 32nd Round, July 1977 - June 1978

Table (2) : Percentage distribution of households by household occupation and household group

State : Meghalaya

no. of sample villages : 158

o c c u p a t i o n	household group			total
	sche- duled caste	sche- duled tribe	others	
(1)	(2)	(3)	(4)	(5)
1. physicians and surgeons	-	-	-	-
2. nursing & other medical & health technicians	-	0.12	-	0.11
3. teachers	-	0.72	-	0.68
4. other professional, technical & related workers	-	0.72	-	0.68
5. administrative, executive & managerial workers	-	-	-	-
6. village officials	-	0.12	-	0.11
7. clerical and related workers	-	0.24	5.41	0.46
8. merchants and shopkeepers, wholesale and retail trade	-	0.36	8.11	0.68
9. salesmen, shop assistants & related workers	-	-	-	-
10. money lenders and pawn brokers	-	-	-	-
11. other sales workers	-	-	5.41	0.23
12. barbers and launders	-	-	-	-
13. other service workers	-	0.60	13.51	1.14
14. farm plantation, dairy and other managers & supervisors	-	-	-	-
15. cultivators (owners)	25.00	78.54	18.91	76.18
16. cultivators (tenants)	-	0.24	-	0.23
17. agricultural labourers	25.00	91.93	35.13	111.06
18. plantation labourers & related workers	-	1.19	-	1.14
19. other farm workers	-	0.36	-	0.34
20. forestry workers	-	0.12	-	0.11
21. other farmers, hunters & related workers	-	2.03	5.41	2.17
22. fisherman and related workers	-	0.72	-	0.68
23. miners, quarrymen, well drillers and related workers	-	-	-	-
24. spinners, weavers, knitters, dyers	-	-	-	-
25. bricklayers, plasterers, rubber insulators, glaziers etc.	-	-	-	-
26. hut builders & thatchers	-	-	-	-
27. well diggers & other construction workers	-	-	-	-
28. drivers of animals & vehicles	-	-	-	-
29. other production and related workers	50.00	2.39	8.11	2.06
30. not classifiable by occupation	-	0.36	-	0.30
31. occupation code not recorded	-	0.36	-	0.34
32. all occupation	100.00	100.00	100.00	100.00
number of sample households	4	83	37	124

National Sample Survey, 32nd Round, July 1977-June 1978

Table (3) : Percentage distribution of households by household land possessed (in hectares 0.00) and household group

State : Meghalaya

no. of sample villages : 158

	size class of land possessed (hectares 0.00)	household group			total
		scheduled caste	scheduled tribe	others	
	(1)	(2)	(3)	(4)	(5)
1.	0.00	-	0.48	-	0.46
2.	0.01 - 0.20	50.00	9.33	51.35	11.29
3.	0.21 - 0.40	-	3.23	18.92	3.88
4.	0.41 - 1.00	25.00	18.66	8.11	18.24
5.	1.01 - 2.00	-	38.16	16.22	37.06
6.	2.01 - 3.00	-	20.21	5.40	19.50
7.	3.01 - 4.00	-	6.82	-	6.50
8.	4.01 - 8.00	25.00	2.51	-	2.50
9.	8.01 & above	-	0.36	-	0.34
10.	not recorded	-	0.24	-	0.23
11.	t o t a l	100.00	100.00	100.00	100.00
	number of sample households	4	836	37	877

National Sample Survey, 32nd Round, July 1977 - June 1978

Table (4) : Percentage of households doing jhum and permanent cultivation to total number of households by household group

State : Meghalaya

no. of sample villages : 158

household group	number of sample households	percentage of households by type of cultivation	
		jhum	permanent
(1)	(2)	(3)	(4)
1. scheduled caste	4		0.23
2. scheduled tribe	836	60.32	61.24
3. others	37	0.80	1.60
4. total	877	61.12	63.07

Table (5) : Average size of land possessed per household, average size of land per household under permanent cultivation, average size of land per household under jhum cultivation by household group

State : Meghalaya

no. of sample villages : 158

household group	average size of land possessed per household (hectares 0.00)	average size of land per household under permanent cultivation (hectares 0.00)	average size of land per household under jhum cultivation (hectares 0.00)
1. scheduled caste	0.01	0.01	-
2. scheduled tribe	1.55	0.68	0.65
3. others	0.02	0.02	0.00
4. total	1.48	0.65	0.60



National Sample Survey, 32nd Round, July 1977-June 1978

Table (8) : Percentage distribution of households using green manure and cowdung by extent of use and type of cultivation

State : Meghalaya

no. of sample villages : 158

extent of use	type of cultivation			
	jhum		permanent	
	green manure	cowdung	green manure	cowdung
(1)	(2)	(3)	(4)	(5)
1. entire area	-	-	0.72	5.42
2. half or more area	1.49	2.43	3.80	5.97
3. less than half area	-	0.37	0.36	13.75
4. not used	98.51	97.20	95.12	74.86
5. total	100.00	100.00	100.00	100.00

Table (9) : Percentage distribution of total man days of work by type of labour input and type of operation

State : Meghalaya

no. of sample villages : 158

type of labour input	type of operation					
	pre-sowing operation	sowing	weeding	harvesting	others	all
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. household	87.28	85.97	<del>83.53</del> 84.33	83.40	83.18	85.24
2. hired	12.72	14.03	15.67	16.60	16.82	14.76
3. total	100.00	100.00	100.00	100.00	100.00	100.00

Narayan/

Table (10) : Average yield of crop per household, per reporting household and number of reporting households by type of crop and type of cultivation

State : Meghalaya

No. of sample villages : 158

crop	jhum cultivation			permanent cultivation		
	average yield of crop per h.h. (kg.0.00)	average yield of crop per reporting h.h. (kg.0.00)	number of reporting h.h.	average yield of crop per h.h. (kg.0.00)	average yield of crop per reporting h.h. (kg.0.00)	number of reporting h.h.
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	494.37	591.48	448	1281.31	1532.98	455
2. wheat	-	-	-	-	-	-
3. maize	133.77	181.98	394	33.40	163.42	113
4. other cereals	69.97	134.42	279	24.23	1914.29	7
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	-	-	-	6.32	166.43	21
10. rape seed	-	-	-	-	-	-
11. mustard	-	-	-	9.99	112.49	49
12. ground nut	-	-	-	-	-	-
13. other oil seeds	1.66	20.25	44	0.15	40.00	2
14. potatoes	233.01	2191.05	57	149.04	1616.00	51
15. other vegetables	14.56	49.41	158	2.53	29.77	47
16. oranges	-	-	-	-	-	-
17. pine apples	-	-	-	-	-	-
18. other fruits	-	-	-	-	-	-
19. ginger	211.24	569.52	202	23.58	869.33	15
20. chilli	30.10	61.34	263	5.34	57.44	9
21. turmeric	48.34	327.97	79	-	-	-
22. sugar cane	1.27	113.33	6	0.07	40.00	1
23. jute	2.09	70.13	16	8.16	125.44	36
24. hemp	1.87	1000.00	1	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	14.19	76.09	100	-	-	-
27. tobacco	0.03	5.00	3	6.71	56.43	7
28. tea	-	-	-	-	-	-
29. tapioca	98.89	389.73	136	0.43	240.00	1
30. sweet potato	10.26	137.56	40	14.21	413.68	19
31. arum & other roots	54.80	188.29	156	46.53	989.62	26
32. any other crop	2.93	50.58	31	45.60	754.09	33



National Sample Survey, 32nd Round, July 1977 - June 1978

Table (11) : Percentage distribution of households reporting production of different crops under jhum cultivation by manner of disposal

State : M. Jhalaya		no. of sample villages : 158				
c r o p	number of report- ing house- holds	manner of disposal				total
		for consump- tion	for sale or barter	for debt repay- ment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	448	96.27	3.51	0.22	-	100.00
2. wheat	-	-	-	-	-	-
3. maize	394	79.90	18.86	-	1.24	100.00
4. other cereals	279	94.41	5.59	-	-	100.00
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	-	-	-	-	-	-
10. rape seed	-	-	-	-	-	-
11. mustard	-	-	-	-	-	-
12. groundnut	-	-	-	-	-	-
13. other oil seeds	44	100.00	95.35	-	-	100.00
14. potatoes	57	12.07	87.93	-	-	100.00
15. other vegetables	158	80.00	20.00	-	-	100.00
16. oranges	-	-	-	-	-	-
17. pineapples	-	-	100.00	-	-	100.00
18. other fruits	-	-	100.00	-	-	100.00
19. ginger	202	2.86	91.90	-	5.24	100.00
20. chilli	267	46.02	53.63	-	0.35	100.00
21. turmeric	79	12.50	87.50	-	-	100.00
22. sugar cane	6	-	100.00	-	-	100.00
23. jute	16	-	100.00	-	-	100.00
24. hemp	1	-	100.00	-	-	100.00
25. mesta	-	-	-	-	-	-
26. cotton	100	2.91	97.09	-	-	100.00
27. tobacco	3	33.33	66.67	-	-	100.00
28. tea	-	-	-	-	-	-
29. tapioca	136	78.49	21.51	-	-	100.00
30. sweet potatoes	40	58.54	41.46	-	-	100.00
31. arum & other roots	156	62.15	35.86	-	1.99	100.00
32. any other crop	31	15.15	84.85	-	-	100.00

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (12) : Percentage distribution of households reporting production of different crops under permanent cultivation by manner of disposal

State : Meghalaya		no. of sample villages : 158				
c r o p	number of reporting households	number of disposal				
		for consumption	for sale or barter	for debt repayment	others	
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. paddy	455	85.11	12.36	0.56	1.97	100.00
2. wheat	-	-	-	-	-	-
3. maize	113	76.84	22.11	-	1.05	100.00
4. other cereals	7	-	-	-	100.00	100.00
5. gram	-	-	-	-	-	-
6. moong	-	-	-	-	-	-
7. tur	-	-	-	-	-	-
8. urd	-	-	-	-	-	-
9. other pulses	21	-	100.00	-	-	100.00
10. rape seed	-	-	-	-	-	-
11. mustard	49	100.00	96.00	-	2.00	100.00
12. ground nut	-	-	-	-	-	-
13. other oil seeds	2	-	100.00	-	-	100.00
14. potatoes	51	7.27	54.55	-	38.18	100.00
15. other vegetables	47	61.21	29.47	-	6.32	100.00
16. oranges	-	-	-	-	-	-
17. pine apples	-	-	-	-	-	-
18. other fruits	-	6.06	78.79	-	15.15	100.00
19. ginger	15	-	13.33	-	86.67	100.00
20. chilli	9	90.00	10.00	-	-	100.00
21. turmeric	-	-	-	-	-	-
22. sugar cane	1	-	100.00	-	-	100.00
23. jute	36	3.57	92.86	-	3.57	100.00
24. hemp	-	-	-	-	-	-
25. mesta	-	-	-	-	-	-
26. cotton	-	-	-	-	-	-
27. tobacco	7	14.29	85.71	-	-	100.00
28. tea	-	-	-	-	-	-
29. tapioca	1	20.00	80.00	-	-	100.00
30. sweet potatoes	19	33.33	66.67	-	-	100.00
31. arum & other roots	26	43.18	9.09	-	47.73	100.00
32. any other crop	33	8.55	91.45	-	-	100.00

National Sample Survey, July 1977 - June 1978

Table (13) : Percentage distribution of households practising jhum cultivation by household group and number of plots cultivated.

State : Meghalaya no. of sample villages : 158

household group	percentage of h.h. by no. of plots cultivated					
	1	2	3	4	5 & above	total
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. scheduled caste	-	-	-	-	-	-
2. scheduled tribe	74.22	19.14	6.64	-	-	100.00
3. others	73.69	24.56	1.75	-	-	100.00
4. total	74.12	20.13	5.75	-	-	100.00

Table (14) : Average value of output (Rs.) per household and number of reporting households by industry group.

State : Meghalaya no. of sample villages : 158

industry group	number of reporting households	average value of output (Rs.) per household
	(2)	(3)
1. agriculture	822	2869
2. mining	-	-
3. manufacture	12	33
4. construction	3	10
5. trade	20	34
6. transport	-	-
7. services	3	21

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National Sample Survey, 32nd Round, July 1977 - June 1978

Table (15) : Average income (in Rs.) earned per household and number of reporting households by source of income

State : Meghalaya

no. of sample villages : 158

source of income	average income (in Rs.) earned per household	number of reporting households
(1)	(2)	(3)
1. agricultural production	1982	760
2. other agriculture	494	823
3. other enterprises	102	41
4. wage income	840	338
5. other income	26	27
6. total income	3444	833

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APPENDIX III

FACSIMILE OF SCHEDULE OF INVESTIGATION

GOVERNMENT OF INDIA NATIONAL SAMPLE SURVEY : 1977-78  
Schedule 16.4: Integrated household Schedule

RURAL

THIRTYSECOND ROUND

[ 1 ] identification of sample household			
1. serial number		10. district	
2. zone-state-region		11. tehsil	
3. stratum		12. name of village	
4. sub-sample		13. house number	
5. sample village		14. name of head :	
6. sub-round		15. name of informant :	
7. sample household no.		16. informant's relation to head (code) 1/	
8. household type (code)			
9. state = -----			
[ 2 ] household characteristics			
1. household size		8. household group code 2_/	
2. household industry occupation code		9. name of tribe :	
3. household land possessed (in hectares 0.00)		10. tribe code	
4. whether household does jhum cultivation (yes-1, no-2)		11. household monthly per capita expenditure (Rs. 0.00)	
5. whether household does permanent cultivation (yes-1, no-2)		12. migration code 3/	
6. area under permanent cultivation (hectares 0.00) 1976-77		13. reason for migration 4/	
7. area under jhum cultivation (hectares 0.00) 1977		14. place from where migrated code 5_/	
[ 3 ] particulars of field work			
i t e m	investigator	Assistant Superintendent	Superintendent
(1)	(2)	(3)	(4)
1. name			
2. dates of :			
(i) survey/inspection			
(ii) receipt	x		
(iii) scrutiny	x		
(iv) despatch			
3. no. of additional sheets attached		x	x
4. signature			

\* delete whichever is inapplicable

[4] agricultural inputs for cultivation			
srl. no.	i t e m	cultivation type	
		jhum	perma- nent
(1)	(2)	(3)	(4)
1.	<u>irrigation facilities</u>		
1.1	whether required (yes-1, no-2)		
1.2	if yes, whether available (yes-1, no-2)		
1.3	if available, source : (channel 1, channel & others-2, spring-3, spring & others-4, tank-5, well-6, tube-well-7, others-8)		
2.	<u>ordinary seed</u>		
2.1	extent of use (entire area-2, half or more-2, less than half-3, nil-4)		
2.2	source (Govt. source-1, village community-2, own holding-3, neighbours-4, commercial establishments-5, others-6)		
3.	<u>improved seed</u>		
3.1	whether used (yes-1, no-2)		
3.2	if used, extent of use (entire area-1, half or more-2, less than half -3)		
3.3	source code (same as 2.2)		
3.4	if not used, reason (no-knowledge-1, not interested-2, not certain about benefits-3, short supply-4, not available-5, lack of funds-6, others-7)		
4.	green manure use code (same as 2.1)		
5.	cow dung use code (same as 2.1)		
6.	<u>chemical fertiliser</u>		
6.1	whether used (yes-1, no-2) if used, extent code (same as 3.2)		
6.2	if used, extent code (same as 3.2)		
6.3	source (agri. depot-1, co-opratives-2, village community-3, dealers authorised by the Govt.-4, other commercial establishments-5, others-6)		
6.4	if not used, reason (same as 3.4)		
7.	<u>pesticide etc.</u>		
7.1	use code (used-1, not-used-2, not required-3)		
7.2	if used, type (specify)		
7.3	source (Govt. depot-1, co-operative-2, others-3)		
7.4	if not used, reason (same as 3.4)		







**[9] details of jhum plots currently cultivated by the household**

1. plot number	1	2	3	4	5
2. how many years the plot is being cultivated in the current cycle					
3. how many more years the plot will be cultivated during the current cycle					rd\
4. total number of years the plot is to be cultivated					
5. the number of years the plot remained uncultivated before it was taken up for cultivation in the current cycle					
6. how many years the plot is to be kept uncultivated if it is cultivated again					
7. area of the plot in hectares (0,000)					

**[10] usual crop combination in different years of cultivation of jhum plots**

combination of crops usually cultivated in a jhum plot (record crop code/description in box space)

	(1)	(2)	(3)	(4)
1. in first year (a)	<input type="text"/>	+ <input type="text"/>	+ <input type="text"/>	+ <input type="text"/>
(b)	<input type="text"/>	+ <input type="text"/>	+ <input type="text"/>	+ <input type="text"/>
2. in second year (a)	<input type="text"/>	+ <input type="text"/>	+ <input type="text"/>	+ <input type="text"/>
(b)	<input type="text"/>	+ <input type="text"/>	+ <input type="text"/>	+ <input type="text"/>
3. in third year (a)	<input type="text"/>	+ <input type="text"/>	+ <input type="text"/>	+ <input type="text"/>
(b)	<input type="text"/>	+ <input type="text"/>	+ <input type="text"/>	+ <input type="text"/>

**[11] particulars of loans outstanding on date of survey**

i t e m		l o a n   n u m b e r				
srl.no.	description	1	2	3	4	5
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	form of loan (a)					
2.	source (b)					
3.	purpose (c)					
4.	amount (Rs.)					



## [14] value of output during the reference year

name of industry	value (Rs.)	name of industry	value (Rs.)
1. agricultural production		9.	
2. forestry, logging, hunting, trapping and game propagation		10.	
3. livestock production		11. other manufacture	
4. other agriculture		12. manufacture total	
5. agriculture total		13. construction total	
6.		14. value of purchase (trade)	
7. other mining		15. value of sale (trade)	
8. mining total		16. sale-purchase (trade)	
		17. transport total	
		18. services total	
		19. grand total	

## [15] disbursement towards materials and labour charges for household enterprises, other than agricultural production during reference year.

name of industry	value of materials used (Rs.)	services purchased (Rs.)	repair & maintenance charges (Rs.)	other expenses (Rs.)	total of cols 2 to 5 (Rs.)	hired labour charges (Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1. forestry, logging, hunting, trapping & game propagation						
2. livestock production						
3. other agriculture						
4.						
5. other mining						
6. mining total						
7.						
8.						
9. other manufactures						
10. manufacture total						
11. construction total						
12. trade total						
13. transport total						
14. services total						
15. grand total						

<p><b>[16]</b> summary statement of income during reference period</p>	<p><b>[17]</b> expenses towards interest, rent, tax, etc. during reference period</p>		
i t e m	income (Rs.)	i t e m	expendi- ture (Rs.)
(1)	(2)	(1)	(2)
1. agricultural production		1. interest paid	
2. other agriculture			
3. other enterprises		2. rent paid	
4. wage income			
5. other income		3. tax, licence etc. paid	
6. total income			

**[18]** births during the last 365 days ended on .....

serial number	m o t h e r			c h i l d			date of birth			place of birth <sup>12/</sup>	whether reported for registration (yes-1, no -2)
	serial number as in block <sup>[13]</sup>	age of mother in years	order of birth	status code <sup>[11]</sup>	serial number as in block <sup>[13]</sup>	sex : male-1, female-2	day	month	year		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

**[19]** deaths during the last 365 days ended on .....

serial number	n a m e	relation to head	sex : male -1 female-2	age at death (years)	age(weeks) if '0' in col. 5.	marital status <sup>6/</sup>	whether reported for registration (yes-1, no-2)	date of death			place of death <sup>13/</sup>
								day	month	year	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

Code List

1. informant's relation to head : self-1; other household member-2; others-3.
2. household group code : scheduled caste-1; scheduled tribe-2; others - 3.
3. migration code : period since migrated - less than 1 year-1, 1 year to less than 2 years-2, 2 years to less than 3 years-3, 3 years to less than 5 years-4, 5 years and above-5; never migrated - 6.
4. reason for migration : for jhum cultivation-1; for permanent cultivation-2; for other occupations-3; for other purposes-4.  
place from where migrated code : from a neighbouring country-1; from within the country : from a village/town within 15 k.m. of a neighbouring country-2; from any other village/town of the same state/ union territory-3; from any other village-4; from any other town-5; others - 6.
6. marital status : never married-1; married-2; widowed; divorced and separated-3.
7. education standard : illiterate-1; literate but below primary-2; primary-3; middle-4; secondary-5; graduate and above in - (i) agriculture-6; (ii) engineering and technology-7; (iii) medicine-8; other subjects - 9.
8. reason for leaving previous place : moved from border areas due to difficulties consequent to partition-1; for better economic prospects-2; on marriage-3; migrated with earning member/s of the household - 4; other reasons - 5.
9. activity prior to leaving : jhum cultivation -1; permanent cultivation-2; other agriculture-3; wage paid labourer in agriculture-4; self employment in non-agriculture-5; wage paid employment in non-agriculture -6; seeking job-7; student - 8; others - 9.
10. particulars of previous residence : located in a neighbouring country-1; a of village/town bordering within 15 k.m./a neighbouring country-2; from other hill areas of the country-3; other areas of the country (in the plains)-4; any other area - 5.
11. status code : born alive and still alive-1; born alive since dead-2; born dead-3.
12. place of birth : normal residence of parents-1; normal residence of mother's father-2; hospital-3; others - 4.
13. place of death : household - 1; hospital - 2; others - 3.