

INTEGRATED RURAL DEVELOPMENT (I. R. D.) HISSAR (Haryana)

Part I General survey of villages around Bhuna, Hansi and Bhattu Kalan

II Socio-economic status of rural poor women of villages around Bhuna

III Income and employment status of rural poor around Bhuna

VOLUME III

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Hissar-125004

(March 1978)

PREFACE

The concept of integrated rural development in its true scientific meaning has gained momentum only during the past few years. There is a general consensus that the economic, social and cultural development in the country ultimately hinges on the development in the rural areas. Since, about 80 per cent of the population of the country lives in rural areas and regarded as a productive force, it, therefore, becomes incumbent on the policy makers to draw consumption schedules suiting to the needs of the rural population, otherwise overall economic growth of the country is bound to remain stagnant. Further, there is a general recognition all over the world that the per capita mational income and GNP fail to reflect the realities of life. The real development, therefore, should be related to the social objectives of economic growth, such as, redistribution of income, institutional changes, equalization of distribution of development benefits, etc. These should also be linked up with the nation's programme and should tell about the pattern of resource mobilization, quality of life, social integration, stratification and mobility and participation of the different categories of people in the development process.

Still, agriculture occupies the main key to the rural economy, which is yet to come up, so as to feed the starving midlions and also to provide jobs for the growing hands. The number of landless labourers and marginal farmers, rather than diminishing, has continued to increase. The size of land holdings has become smaller and uneconomic. The socio-economic disparities have been growing. In post-independent India, many efforts have been made to accelerate the pace of rural development. Such efforts have led to the postulation of various conflicting theories and approaches to rural development and, in return, have confounded rather than solved the problem of accelerating rural development. The solution lies in lint and integrated rather than isolated efforts. Effectiveness of a strategy of rural development, therefore, hinges, to a great extent, on the correct identification of constraints and accelerators of development and participation of the rural people.

Thus, it is obvious that the rural development imposes a change in the socio-economic systems. To begin with all the socio-economic barriers and accelerators of rural development within an area need to be diagnosed properly. The available local resources - physical and human both - are the very powerful accelerators of economic development. As such, their scientific appraisal and analysis need

to be done. Based on this analysis, important maladies need to be located and their probable solutions have to be found out. To bring about an all-round development in rural areas, a functional as well as spatial integration of all socio-economic activities, viz., agriculture, animal husbandry, small scale and cottage industries, health, aducation, transport and communication, drinking water, rehabilitation, banking etc. is essential.

Sometimes, the reality in the rural areas may be found to be rather illusive, when concepts and ideas are framed while sitting in ivory tower. It is, therefore, necessary to plan from the gras root level for a balanced growth of all regions and all sections of our population. It has been felt that the plans should be drawn t at the Block level and that, too, through the participation of people of the area. With this idea in view, our first attempt was to prepare an Integrated Resource Inventory for Hissar district, which was issued as Volume I and released in December, 1977. Volume II of the report, released during January, 1978, deals with Block wise Inventory of Resources and Malady-Remedy Analysis. The very purpose of the present report (Volume III) is to have a deep insight into the different socio-economic and other problems of the three agro-climatic regions of the district; to measure the level of employment and income of the rural poor, particularly, small and marginal farmers, landless labourers, rural artisans and women below the poverty line; to find out the point of departure with reference to employment and income of the weaker groups; and to work out the gaps which are to be bridged torough the Integrated Rural Development Project.

Since the main thrust of the Integrated Novel Development is to provide opportunities for gainful on loyment to the rural destitutes, therefore, quite a new approach to planning, administration & field execution has been called for by our Prime Minister, Shri Morarji Desai. But it is feared that, in the absence of proper project planning and implementation, employ ment guarantees may result in colussal wastes of public money and enthusiasm and, like Community Development, larger benefits of the programme will also be appropriated by the verted interests and the rural clites to their advantage by manipulating and maintaining an iniquitous society. Therefore, the proposed programme of IRD should imbibe more flexibility, comprehensiveness, geographic and sectoral integration, widest possible discussion and debate different groups and sub-groups and a constructive initiation of

participatory process in development through mass mobilization and involvement.

The whole process calls for proper resource planning, development of organisational infrastructure to implement the programmes, provision of training to develop skills and local leadership and also strengthening the financial base through closer tie-ups with banks to ensure adequate working capital and term loan requirements. At the same time, it is essential that various groups constituting the village community should be given pride and dignity that they deserve. Before formulating any programme for their upliftment, it is worthwhile to know about their various activities, liking for different trades, aptitudes towards innovations and sociocultural values which can influence the process of development. Keeping these facts in view, a socio-economic survey was conducted. The whole study is divided into three parts: Part I deals with general survey of three clusters of 30 villages each representing three distinct agro-climatic conditions of the district. Part II studies the socio-economic status of rural poor women of 30 villages around Bhuna, and Part III enquires into the levels of employment and income of rural poor of the same 30 villages around The schedule and questionnaire used for collecting different Bhuna. types of information are also given in the appendices.

We hope that this report will be of considerable help to the scientists, planners, administrators, politicians and others striving for the Rural Development.

We express our grateful thanks to Dr. P.S.Lamba, Vice-Chancellor, Haryana Agricultural University, with whose inspiration, encouragement and unstinted support this report has been prepared.

We would be failing in our duty if we do not thank Dr.

M.S. Swaminathan, Director-General, ICAR, and Shri R.N. Azad, Jt.

Secretary (Rural Development), Ministry of Agriculture and Irrigation, Government of India, for providing necessary funds and encouragement for the purpose. The help extended by Shri

I.E. Soares, Officer on Special Duty, Government of India;

Shri L.D. Kataria Secretary, Government of Haryana; Dr. J.C. Sharma, Director of Extension Education, HAU; and Shri Prem Prashant,

Deputy Commissioner, Hissar, is also gratefully acknowledged.

The staff of the Department of Agricultural Economics deserve our appreciation for helping us in the calculation of the data.

Thanks are also due to Shyam Lol Verma, Personal Assistant and Shri N.P. Gautam of the Directorate of Project-cum-Plan Form lation, HAU, who took much pains and interest in stencilling and duplicating the material so nicely.

We are thankful to all those individuals and agencies (a lis appended here) who helped us in one way or the other in preparing this document. If there is any omission, we may be pardoned

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GENERAL SURVEY OF VILLAGES AROUND BHUNA, HANSI AND BHATTU KALAN

In the past, one expected that the heavy investment on development projects would increase agricultural production which is a base for industrial development. It was expected that the benefits of the income growth will percolate down to the rural masses and the sustained progress of the country would result in the eradication of poverty and reduction of unemployment. Reduction of inequalities in income and wealth and a more even distribution of economic power was the ultimate goal. Due to lack of understanding of intricacies of the problem of poverty and poor institutional and structural arrangements for proper implementation of the programmes, the task could not be fulfilled.

Still there are millions of people, ill-fed, ill-clad, and ill-sheltered - the people who have been neglected for centuries under colonial and pre-colonial rules. Their world is too narrow - limited to villages, hamlets, and castes. Their burning problems - food, clothing and shelter—the three basic necessities of life, are not satisfied. It is estimated that about 55 per cent of the rural population still continues to be below the poverty line. Poverty makes a vicious circle of poor health, poor productivity and undernourishment. Rural development would mean the removal of all these evils and improving the quality of life of the people. However, it is highly essential that the involvement and participation of these people in all programmes of rural upliftment is ensured.

Experiences of 25 years of planning and a careful scrutiny of the past programmes have indicated that the whole concept of planning is to be modified and the plans must start from the grass-root level. The new approach

envisages proper identified tion of constraints, assessment of all available resources and measurement of developmental potentiality of an area for which planning is to be done. Before planning any project study of the magnitude of the problems and Measurement of the existing gaps is essential. With this view in mind and to ensure an active involvement and participation of the people in their own programmes for development, a socio-economic and general survey of 90 villages was undertaken.

The main idea behind conducting the socio-economic and general survey of these villages was to identify and to locate the different weaker groups, their economic activities, different social services and facilities given to the people and to spotlight different developmental potentialities of the area. Specifically, the important objectives of the study were as follows:

- (i) To examine the population structure in different areas and to find out the employment pattern, particularly, of weaker groups;
- (ii) to assess various institutional facilities and social amenities of region;
- (iii) to study the land-use, cropping pattern and adoption of agricultural technology; and
- (iv) to examine the density of livestock and poultry population and various feeding practices in different areas.

ME THODOLOGY

Three clusters, namely, Bhuna, Hansi and Bhattu Kalon, each consisting of 30 villages and representing three distinct agro-climatic conditions of the district were selected for this study. Bhuna, Hansi and Bhattu Kalon were taken as nucleus villages around which 30 nearest villages

were selected, ranging upto 25 km. from the nucleus village. The map of village clusters surveyed around Bhuna, Hansi and Bhattu Kalon is presented in Figures I, II and III, respectively.

DATA ANALYSIS AND DISCUSSION

Soils

Bhuna represents the first zone. Soils of this area are sandy to loamy sand, well drained and moderately ero-These soils are low in nitrogen, low to medium in phosphorus and medium to high in potassium. Around Hansi, there are two types of areas, i.e., depressional and plain. Soils of the depressional areas are deep, imperfectly drained, dark brown in colour and loam to clay loam in texture. Soils of the plain areas are deep, well drained and sandy loam to loam in texture. Some patches of salt affected soils are also present in this area having high pH and electrical conductivity. These soils are low in nitrogen, medium to high in phosphorus and potassium, and low in zinc. Soils around Bhattu Kalan Lainly comprise of sand dules and plain sandy loan soils. Sand dumus are well-drained, wind eroded and sand to loamy sand. These soils are low in nitrogen, low to medium in phosphorus and medium in potassium, whereas the soils of the plain areas are deeply well drained, sandy loam to loom in texture and are low in nitrogen and medium in phosphorus and potassium.

Area and population

Bhuna cluster stretched an area of 40,605 ha., whereas Hansi and Bhattu Kalan covered 31,735 and 54,406 ha, respectively. The total population of the three clusters, namely, Bhuna, Hansi and Bhattu Kalan accounted for 75,211, 78,579 and 72,984 respectively. Thus, these three clusters combined together occupied nearly one-fifth of the total geographical area as well as about the same proportion of the

Fig. I.

VILLAGE MAP OF BHUNA CLUSTER

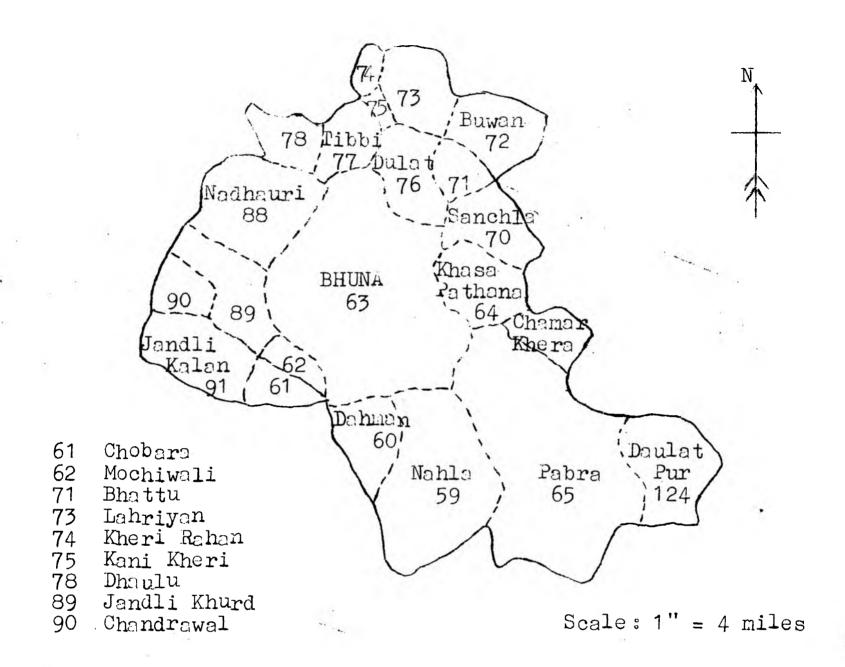


Fig. II.

VILLAGE MAP OF HAMSI CLUSTER

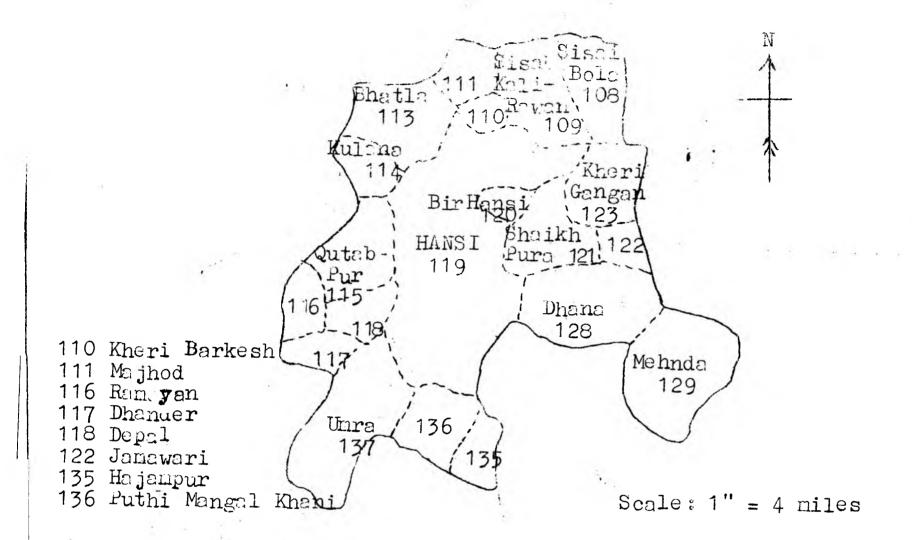
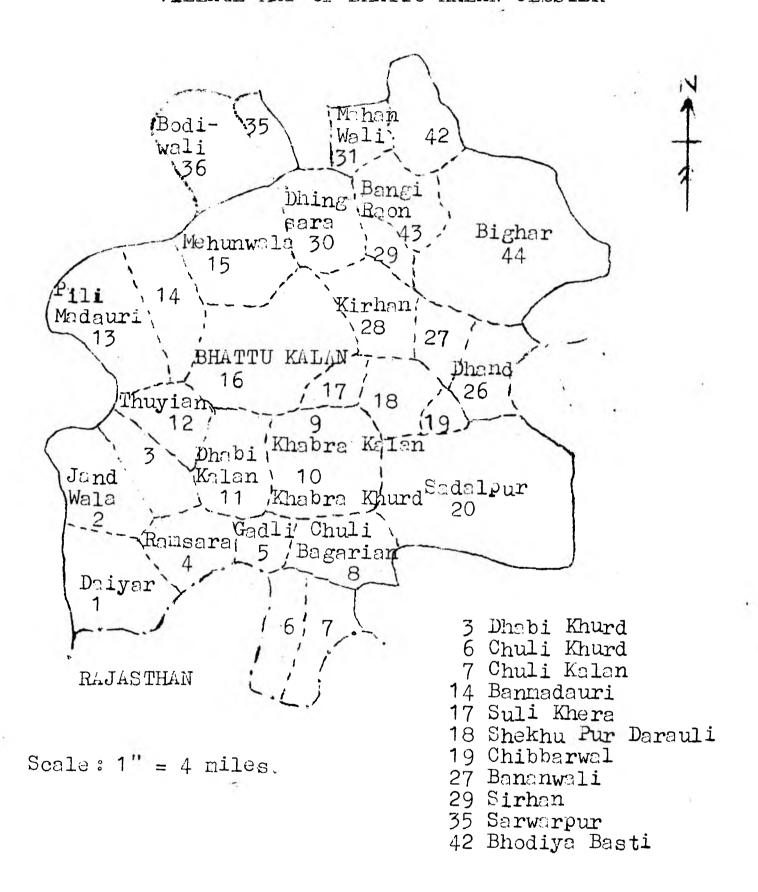


Fig. III.

VILLAGE MAP OF BHATTU KALAN CLUSTER



total population of the district. The average size of the family worked out to be 7.50, 3.16 and 8.02 for Bhuna, Hansi and Bhattu Kalan clusters, respectively. The per capita availability of arable land was 0.49, 0.38 and 0.69 hat respectively. However, in Bhuna and Bhattu Kalan clusters the arable land was more as compared to district average, i.e., 0.46, whereas in Hansi cluster, it was lower. Table 1.1 gives general information about the three clusters under survey.

Table 1.1 : General information about Bhuna, Hansi and Bhattu Kalan clusters

Sr.	Particulars -	Clu	- Total		
No.	TO L'I GOTTAL'S	Bhuna	Hansi	Bhattu Kalan	100611
1.	Total geographi- cal area (ha)	40605	31735	54406	126746
2.	Total households	10022	9624	9099	28745
3.	Total population	75211	78579	72984	226774
4.	Total cultivated land	36614	28 1 .24	50286	115024
5.	Average size of the family	7.50	8.16	8.02	7.88
6.	Per Capita arable land	0.49	0.38	0.69	0.51

In Bhuna cluster, out of 10022 households nearly 91 per cent were cultivators and the rest about 9 per cent landless labourers. Small and marginal farmers constituted nearly 15 and 24 per cent of the total cultivators, respectively. In Hansi cluster only about 60 per cent out of 9,624 households were cultivators and the remaining about 40 per cent landless labourers. Small and marginal farmers accounted for about 31 and 21 per cent of the total cultivators, respectively. In Bhattu Kalan,

out of 9099 households 33 per cent were cultivators and the rest 17 per cent landless labourers. In this cluster, small and marginal farment constituted about 22 and 28 per cent of the total cultivates respectively. Thus, the population of marker groups comprising the small, marginal farmers and landless labourers in Bhuna, Hansi and Bhatta Kilan clusters worked out around 44, 71 and 59 per cent of the total population, respectively. In table 1.2 details of total households, cultivators and landless labourers in each of these three clusters are presented. (See also Fig. IV).

Table 1.2 Distribution of formers and landless labourers in different clusters

	Parettarlare	Cli	asters		- Total
	Particulars	Bhunc	Hansi	Bhattu Kala	n rour
ă,	Total households	10022	9624	9099	28745
	Number of culti- vators	9109 (90 . 89)	5792 (60.18)	7552 (83.00)	22453 (78.11)
	Small farmers	1340 (14.71)	1803 (31.13)	1698 (22.48)	4841 (21.56)
	Marginal farmers	2178 (23.91)	1241 (21.43)	2114 (27.99)	55 3 3 (24.64)
	Landless labour- ers	913 (9 . 11)	3832 (39.82)	1547 (17. 00)	6292 (21.89)

Figures in parentheses show the percentage of small and marginal farmers to total cultivators and percentage of landless labourers to total households.

Since one of the important objectives of this survey was to measure the level of employment of the rural poor, an attempt was made to find out the same with regard to cultivators, landless labourers and rural artisans and the data in this respect are given in table 1.3. It was found that in Bhuna, Hansi and Bhattu Kalan clusters, about 42, 26 and 52 per cent of the total households respectively were fully employed and the rest were employed partially. Out of the total cultivators, nearly

Fig. IV. DISTRIBUTION OF FARMERS AND LANDLESS LABOURERS IN DIFFERENT CLUSTERS

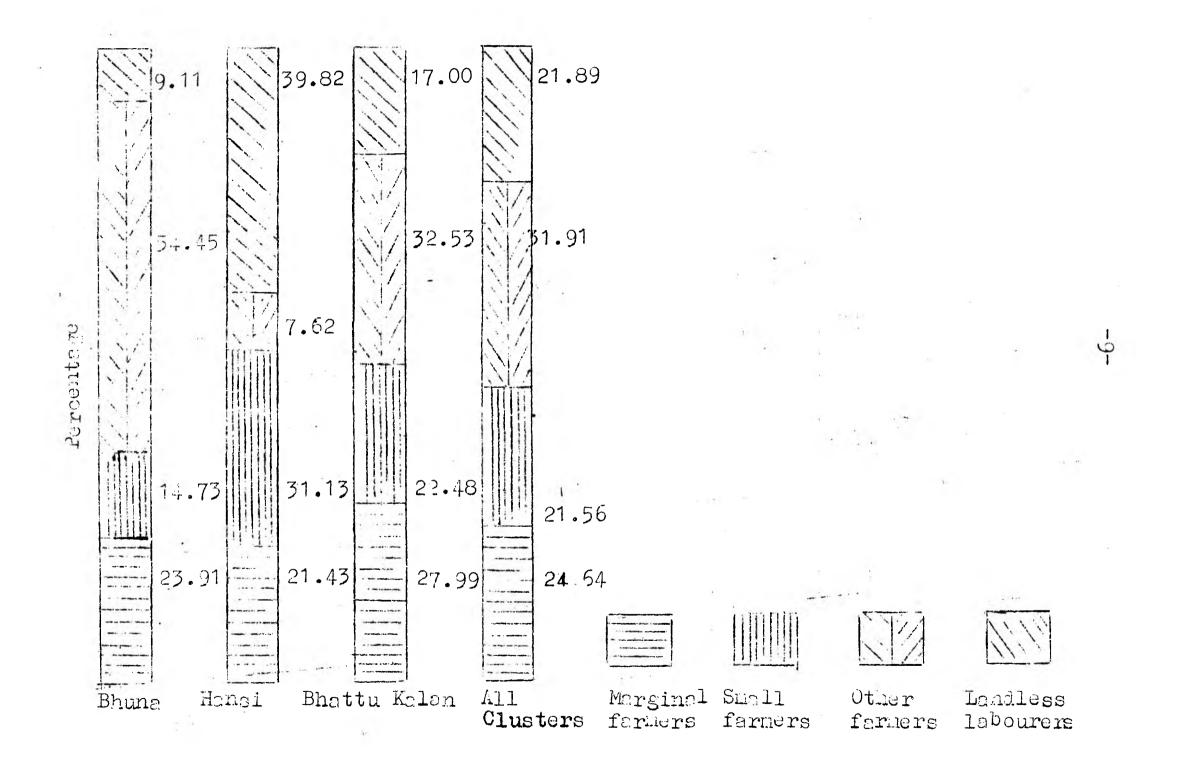
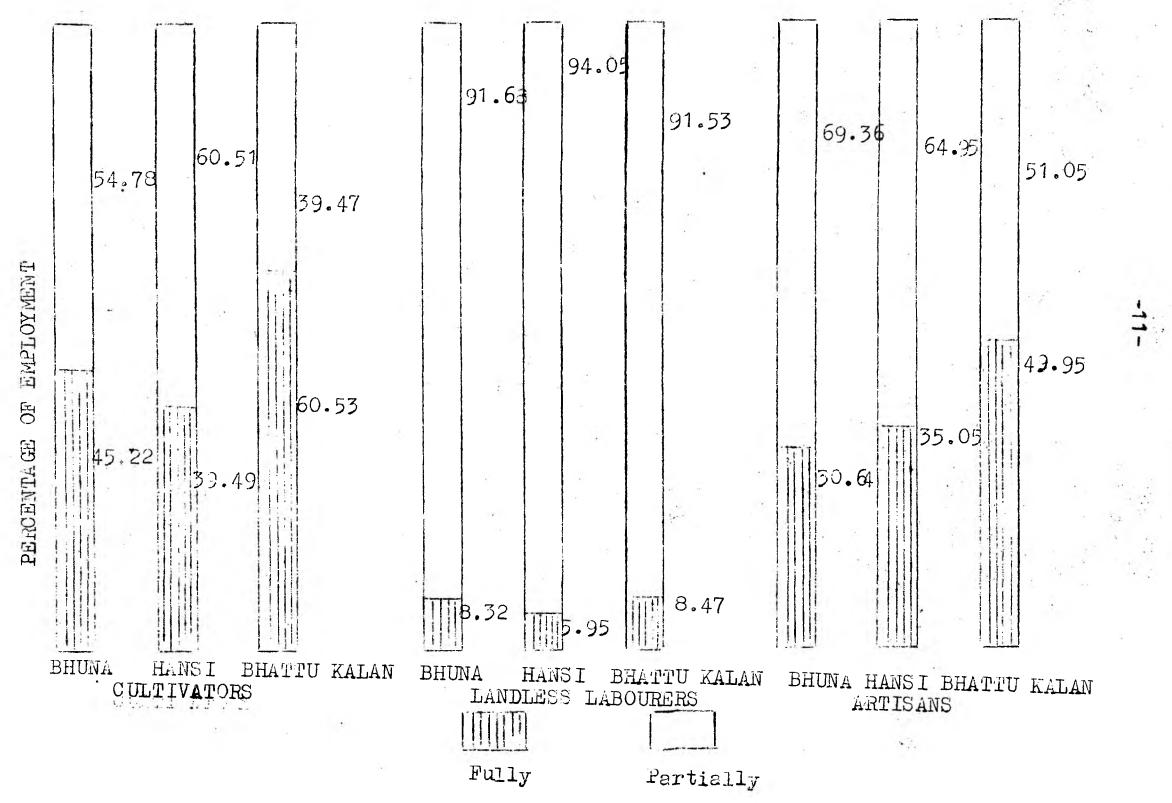


Table 1.3 Employment pattern in Bhuna, Hansi and Bhattu Kalan clusters

Sr.	Perticulars				Clı	usters					-			
No.			nuna	ma±.1	731.7	Hansi	M 1 1		tu Kalar			Total		
		a dist	Parti y-ally	- Total	Fully employ		- Total	envloa	Parti-	Total		Parti- I	Cotal	
		od	ormio	y-	ed	omaloy	7-	ed	employ-	-	employ-	envloa-		
			ed			ed			ed			ed		
1 .	Cultivoto	4119 (45.22)	4990)(54.78	9109)(100.0	2287 0)(39.49	3505 9)(60.51	57 9 2)(100.0	4571 3)(60.5	2981 3)(39.47	7552 7)(100	10 97 7 48.2(00.	7 . 1 1147 6 19)(51 .51	5 22453)(100.0	O) .
2.	behaless labourers	76	837) (91 ₂ 68 ,	913	228	3604	3832	131	1416	1547	435		6292	
j.	Total households	4195 (41.86)	5827)(58.14)	10022)(100.0	2515 0)(2 6. 13	7109 5)(73 . 87	9624)(100.0	4702 0)(51.6 8	4397 3)(48.32	90 <i>3</i> 9 (1)0	11412 00)(39.7	173 3 3 0)(60 . 30	28745)(100.00))
4 .	Artisans	235 (30.64)	532)(69.36)	767)(100, 0	225 0)(35. 05	417 (64.95)	642 5)(100.0	281 0)(48.9 <u>'</u>	29 3 5)(51.05	574 5)(100.	731 .00)(40.7	1061 9)(59.21	1792)(100.00))
(ຄ)	Carpenters	75	151	226	89	151	240	71	85	156	225	387	612	
(b)	Borbers	47	103	155	51	88	139	85	67	152	183	262	445	
(c)	Cobblers	66	202	268	5	55	. 60	20	40	60	91	117	208	
(d)	Blacksmiths	14	. 48	62	36	48	84	30	25	55	80	121	201	
(e)	Potters	30	20	50	40	63	108	70	68	138	140	156	296	
(f)	Water Suppli		7	6		_	4.4	-	~	4 -			_	
	(Kahar)	3	3	6	4	7	11	5	8	13	12	18	30	

Figures in parentheses show the percentage to their respective totals.

EMPLOYMENT PATTERN IN BHUNA, HANSI AND BHATTU KALAN CLUSTERS



45, 39 and 61 per cent, respectively in Bhuna, Hansi and Bhattu Kalan clusters were reported to be employed The landless households were found to be in fully. very poor condition in respect of employment, as only about 8, 6 and 8 per cent of the total landless laboure in Bhuna, Hansi and Bhattu Kalan clusters, respectively were employed fully. On an average, about 93 per cent of the total landless labourer households in all the clusters were either under-employed or unemployed. case of rural artisans, the condition was slightly In all, about 42 per cent of the artisans were better. fully employed. However, in Bhuna, only 31 per cent of then were fully employed as compared to 35 per cent in Hansi and 49 per cent in Bhattu Kalan clusters. Artisans mainly comprised carpenters, blacksmiths, barbers, potters, cobblers and water suppliers (Kahar:). The details of each are given in Fig. . V.

As regards institutional facilities in these three clusters, enquiries were made and the details thereof are contained in table 1.4. The enquiries covered village institutions and organisations, educational, medical and health, veterinary, and credit and banking facilities available in the area. It was reported that almost all the villages in the three clusters had primary schools. However, three villages around Hansi and one village around Bhattu Kalan were lacking in this regard. The maximum distance between a village and the nearest primary school was 2 km in Hansi cluster. The number of middle schools in Bhuna, Hansi and Bhattu Kalan clusters was 16, 10 and 12, respectively. mum distance between a village and the nearest middle school was 5 km, in Bhuna and Hansi, whereas, in Bhattu Kalan, it was 8 km. There were five high schools in each cluster and the maximum distance between a village and the nearest high school was 12 km. in Bhuna, 5 km. in Hansi and 11 km. in Bhattu Kalan cluster. For higher education, there was no college in Bhuna and Bhattu Kalan

Table 1.4 : Institutional facilities in Bhuna, Hansi and Bhattu Kalan clusters

Ins	stitutional				usters			Total number of	
	cilities	Bhu	na	Ha	nsi		ı Kalan	various institu	
		Number	Maximum distance (km.)	Number	Maximum distance (km.)	Number	Maxinun distance (km.)	tions (total:col.2,4&	6)
	1	2	3	4	5	6	7	8	
. Ė	DUCATIONAL	in the property of the state of the same o					to and the state of the state o		
1	. Primary school	30	-	27	2	29	1	86	-
2	P. Middle school	16	5	10	5	12	8	;† 3 8	
3	. High school	ol 5	12	5	5	5	11	15	
4	. (a) Colle	ze –	39	1	12	-	28	1	
	(b) Traini Centre	~~	. 20	°4.	12	<u> </u>	28	5 ⁻	
, <u>V</u>	ILLAGE INST	ITUTIONS	3						
2	. Panchayat P. Co-op. Soc S. Youth Club		_ 4 _	31 26 5	- 5 -	30 25 4	7 -3	91 78 11	
N	EDICAL INST		5					1	
-	PriLary He Centre and	ealth	-						
	Dispensary		10	5	11	6	15	19	
2	. Vety.hospi	tal 3	14	4	12	2	15	9	
3	. A.I. Centr	re 2	14	2	12	1	15	5	
. <u>C</u>	REDIT/BANKIN Primary Ag Co-op.Soci	gril.	LITIES					·	
	Mini-Bank	19	, 5	15	12	22	5	56	
	. Central Co	1	23	1 -	12	1	13	3	
	. Primary La Dev.Bank . Com.,Bank	and _ 4	27 14	1 9	12 12	1	28 13	1 14	

clusters, but in Hansi cluster, there was a college located near Hansi at a distance of about 4 km. on Hansi-Delhi road. The maximum distance between a village of these clusters and the nearest college was reported to be 39 km. in Bhuna, 12 km. in Hansi and 28 km. in Bhattu Kalan. I collitize for technical training in different trades and crafts were available only in Hansi where there were four training centres. In Bhuna cluster, there was one training centre for women only, whereas, in Bhattu Kalan, there was no such facility at all

Almost all the villages in the three clusters had their own Panchayats. The number of cooperative societies was 27, 26 and 25 in Bhuna, Hansi and Bhattu Kalan clusters. Youth organisations in these areas were There were two Youth Clubs reported to be very few. in Bhuna, five in Hansi and four in Bhattu Kalan clusters. Enquiries about public health and medical facilities available to these villages were also made. In Bhuna and Hansi, there were two Primary Health Centres in each, whereas in Bhattu Kalan only one. The total number of medical institutions including Primary Health Centres and Rural/Ayurvedic Dispensaries, was 8 in Bhuna, 5 in Hansi and 6 in Bhattu Kalan. A Civil Hospital was located at Hansi, but the other two clusters did not have. The maximum distance between a village and the nearest medical aid centre was ten km. in Bhuna, eleven in Hansi and fifteen in Bhattu Kalan clusters. Veterinary aid centres in all the three clusters were inadequate as their number was three in Bhuna, four in Hansi and only two in Bhattu Kalan. Sometimes, a livestock owner had to travel as far as 14 km. in Bhuna. 12 km in Hansi and 15 km. in Bhattu Kalan. However, in each of the three clusters, there was one veterinary hospital. With regard to artificial insenination facilities, there were only two centres in each of Bhuna and Hansi clusters, and only one in Bhattu Kalan cluster.

With regard to credit and banking facilities for the villagers, there were 19 mini-banks in Bhuna, 15 in Hansi and 22 in Bhattu Kalan clusters. Some of the villagers in Honsi cluster had to cover a distance of about 12 kg. to approach their mini-bank. In each of these three clusters, there was one branch of the central cooperative bank. In Bhuna cluster, a few villages were located as for as 23 km. away from the central cooperative bank. Primary Land Development Bank was found only in Hansi cluster. In other two clusters, namely, Bhuna and Bhattu Kalan, it was situated at a distance of 27 and 28 km., respectively. There were four commercial banks in Bhuna, nine in Hansi and only one in Bhattu Kalan clusters. In this way, the area around Bhattu Kalan was least served with banking institutions. However, the maximum distance between a village and the nearest commercial bank was 12 to 14 kin in the three clusters.

Land utiliztion

Eand utilization pattern of an area indicates the extent to which available agricultural resources are harnessed for the benefit of agriculturists. As such, the land utilization pattern of the three clusters has been shown in table 1.5. It was observed that nearly 90, 89 and 93 per cent of the total geographical area was under plough in Bhuna, Hansi and Bhattu Kalan clusters respectively. Practically, there was no culturable waste or area under the forest in the three clusters which may be seen through Fig. VI. Net irrigated area as percentage to net area sown was about 75, 91 and 46 in Bhuna, Hansi and Bhattu Kalan clusters, respectively. As such, the cropping intensity was nearly 133, 141 and 122 per cent for Bhuna, Hansi and Bhattu Kalan clusters.

Table 1.5 : Land utilization pattern in Bhuna, Hansi and Bhattu Kalan clusters (1975-76)

					*
Sr. No.	Particulors	Bhun (ha)	L <u>usters</u> Hansi (ha.)	Bhattu Kalan (ha.)	fotal (hg.)
	igi da				
1.	Total geographi- cal area	40605	31735	54406	126746
2.	Unculturable waste	7 1 8 (1.77)	457 (1.44)	312 (0.57)	1487 (1.17)
3.	Land put to non-agricultural use	, ,		3803 (6.99)	10068 (7.94)
4.	Fallow land	85 (0.21)	77 (0.24)	105 (0 . 19)	267 (0.21)
5.	Net area sown	36614 (90.17)	28124 (88.62)	50286 (92.43)	115024 (90.75)
	(i) Irrigated	27614 (75.42)*	25531 (30.78)	23117 (45.97)	76262 (66.30)
ű)	(ii) Unirrigated	9000 (24.58)*	259 3 (9.22)	27169 (54.03)	38762 (33.40)
6.	Àrea sown more than once	12035	11489	11184	347 08
7.	Cropping intensity	132.849	% 140 . 85%	122.24%	130.17%

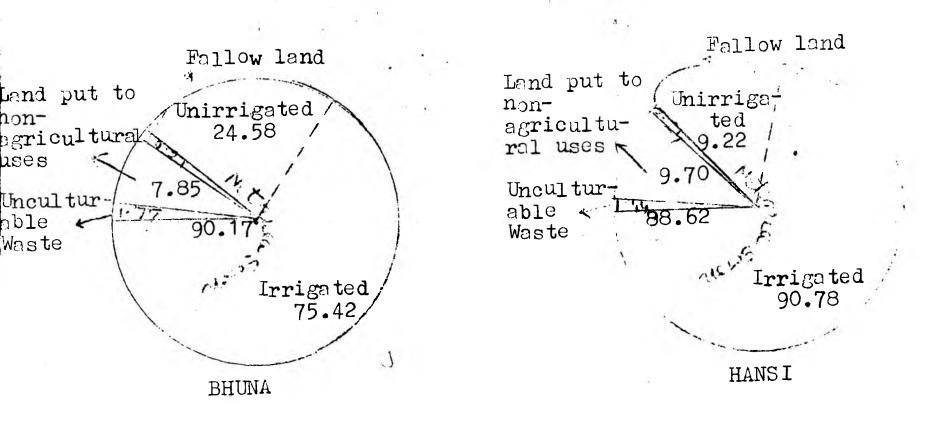
Figures in parenthesis show the percentage to total geographical area

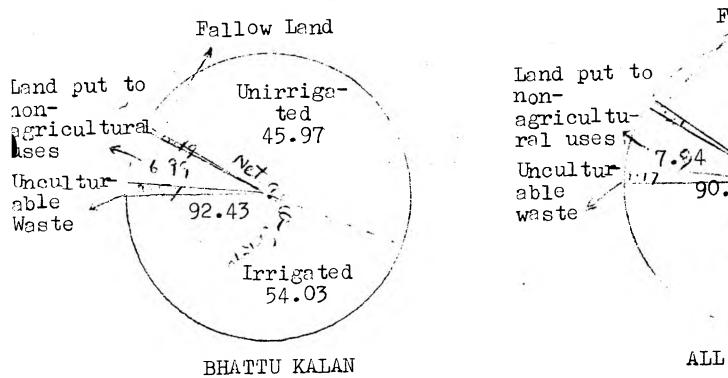
^{*}Figures in parentheses show the percentage to net area sown.

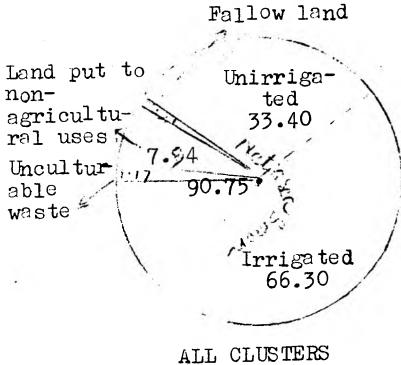
Fig. VI.

LAND UTILIZATION PATTERN OF BHUNA, HANSI AND BHATTU KALAN CLUSTERS

(Percentage to total geographical area)







Cropping pattern

In Bhuna cluster, the maximum area was under bajrs, followed by grow, cotton, wheat and guer. In Honsi, wheat occupied the maximum free followed by gram, cotton, bajra and guar; whereas, in Bhattu Kelen the maximum area was under bejre followed by gram, cotton, guar and wheat. In table 1.6, the cropping pattern of the three clusters has been shown in detail. (See also Fig. VII). Other crops which were grown on very limited area were sorghum, sugarcane, berseem, vegetables, oilseed and barley. Cultivation of vegetables was confined mainly around Hansi and Bhuna. In Bhattu Kalan, area under vegetables was almost negligible. A few orchards covering about 287 and 260 hectares of land were located around Hansi and Bhuna clusters; but, in Bhattu Kalan, fruit trees were rarely seen. Orchards mainly contained citruses ber and guava. Among vegetables tomatoes, cauliflower cabbage onion, chillies, ladies finger, brinjal and cucurbits were grown in limited areas.

Area under high-yielding varieties

About the adoption of high-yielding variety seeds of different crops in the three clusters, information was collected and the results are contained in table 1.7. Growing of hybrid bajra was reported to be on about 13, 11 and 11 per cent of the total area under crop in Bhuna, Hansi and Bhattu Kalan clusters, respectively. In case of cotton about 60 per cent of the total area under the crop was under American cotton in Bhuna cluster; while, in Hansi and Bhattu Kalan, it was about 50 and 37 per cent, respectively. The remaining area under the crop was reported to be under desi cotton Gran and sugarcane were the two crops grown in almost all the area under the crop with high-yielding varieties

Table 1.6 ° Cropping pattern in Bhuna, Hansi and Bhattu Kalan clusters

(area in ha.)

	And the second s			1 11 1101 1
Name of the	Bhuna	Cluster Hansi	s Bhattu Kalar	Total
Kharif		÷		
Eajra . (Desi and H.Y.V.)	9904 (21.82)	5183 (13.99)	17868 (30.04)	32955 (23.22)
Cotton	88 3 2 (19.46)	6060 (16 .3 5)	10304 (17.32)	25196 (17.55)
Guar	3019 (6.65)	1051 (2.84)	6596 (11.09)	10666 (7.50)
Jowar	2570 (5.66)	2348 (6.34)	734 (1.23)	5652 (3.98)
Sugarcane	1071 (2.36)	854 (2 . 30)	23 (0.04)	1948 (1.36)
Others	347 (0.76)	305 (0.82)	379 (0.64)	1031 (0.72)
Vegetables	(0.06)	684 (1.85)	24 (0.04)	735 (0.52)
Rice	94 (0.21)	238 (0.64)	18 (0.03)	350 (0.25)
Maize	152 (0.33)	76 (0.21)	(0.001)	229 (0.15)
Oilseeds	(0.01)	(0.02)	1 (0.001)	13 (0.008)
				cont

-20-

(Table 1.6 contd...)

Name of the		Cluste	ers	- Total
crop	Bhuna	Mausi	Bhattu Kalar	i rotar
• *	,			
Rabi		i.		9
Gran	9030 (20.02)	6863 (18.51)	16239 (27.30)	32192 (22.68)
Wheat	6070 (13.37)	9448 (25.49)	5627 (9.46)	21145 (14.90)
Mustard	2471 (5.44)	1024 (2.76)	1013 (1.70)	4508 (3.18)
Barley	232 (0.51)	617 (1.66)	225 (0.38)	1074 (0.76)
Vegetables	4 7 2 (1 . 05)	606 (1.64)	(0.008)	1083 (0.76)
Berseen	488 (1.08)	398 (1.07)	134 (0.23)	1020 (0.71)
Methi	142 (0.31)	484 (1.31)	239 (0.40)	865 (0.60)
Others	260 (0.57)	287 (0.77)	17 (0.04)	564 (0.39)
Orchards	101 (0.22)	. 284 (0.77)	(0.01)	392 (0.28)
Lucern	47 (0.11)	243 (0.66)	24 (0.04)	314 (0.21)
Grand Total (Kharif and Rabi crops)	45397 (100.00)	37059 (100.00)	59478 (100.00)	141934 (100,00)

Figures in parentheses show the percentage to total cropped area.

Fig. VII.

CROPPING PATTERN OF BHUNA, HANSI AND BHATTU KALAN CLUSTERS

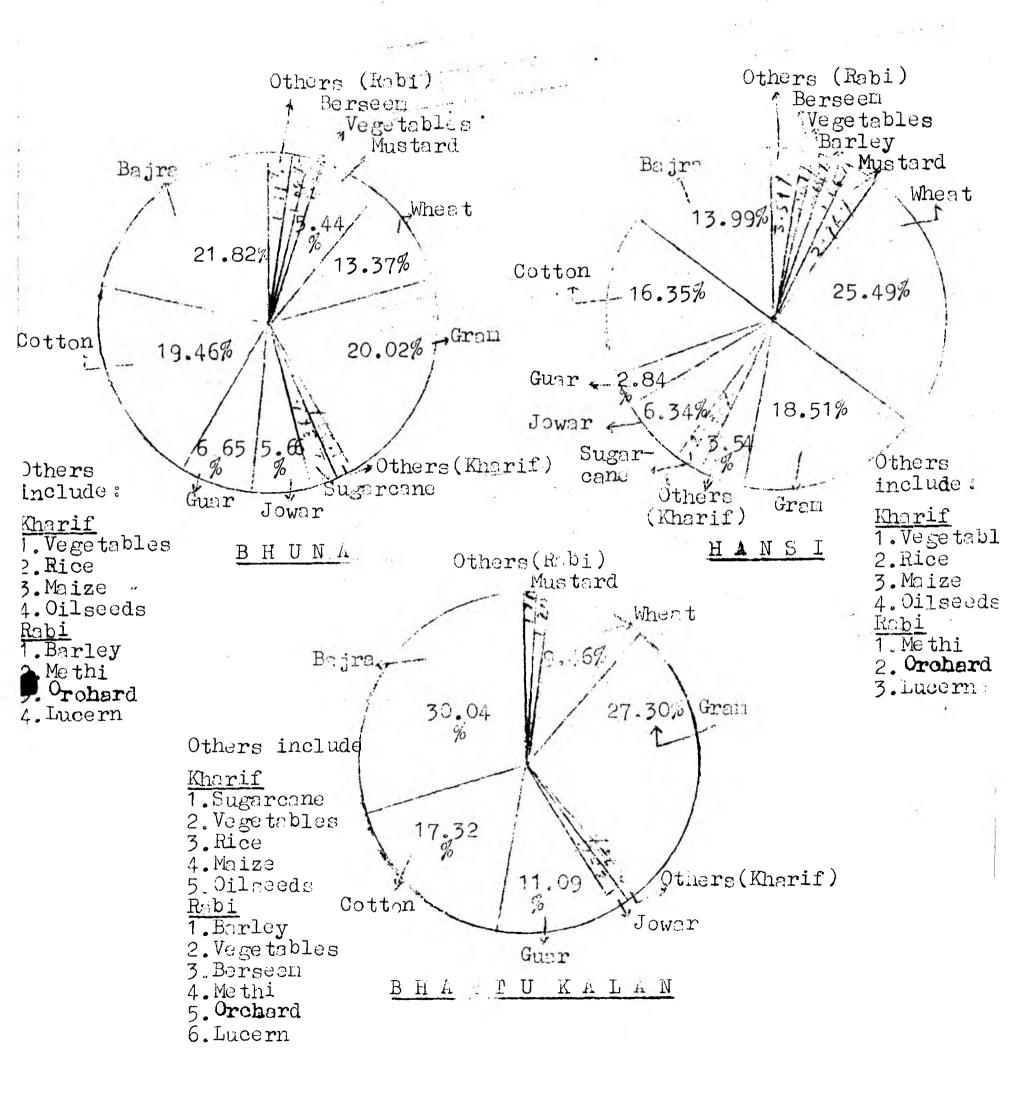


Table 1.7 : Area under high-yielding varieties in Bhuna, Hansi and Bhattu Kalan clusters.

	15			
Name of the crop	Bhung	Clusters Hansi	Bhattu Kalan	-
Baira				
a) H Y.V.	1301 (13.14)	555 (10.71)	2006 (11.23)	
b) Desi	8603 (86.86)	· 4628 (89.29)	15862 (33.77)	
Total	3904	513 3	17868	
Cotton a) H.Y.V. (American) b) Desi	5335 (60.41) 3497 (39.59)	3046 (50.26) 3014 (49.74)	3776 (36.65) 6528 (63.35)	
Total	88 3 2	6060	10304	
Rice a) H.Y.V. b) Desi	29 (30 . 85) 65	227 (95.38) 11	- 18	
- Photosian	(69.15)	(4.62)	(100.00)	
Total	94	238	18	

contd....

"(Table 1.7 contd....)

Name of the		Clusters	
crop	Bhuna	Hansi	Blinttu Kalan
Maize			
a) H.Y.V	. (9.21)	'5 (6.53)	****
b) Desi	138 (90.79)	71 (93.42)	1 (100.00)
Total	152	76	1 1
Whea t			
a) H.Y.V.*	4299 (70.82)	6478 (68.56)	4496 (79.90)
b) Desi	1771 (29.18)	2970 (31.44)	1131 (20.10)
Total	6070	9448	562 7
Gram (HYV)	9090 (100.00)	6863 (100.00)	162 3 9 (100.00)
Sugarcane (HYV)	1071 (100.00)	854 (100.00)	23 (100.00)

Figures in parentheses show the percentage to total area under the crop.

In case of wheat, the area under improved varieties was nearly 71 per cent in Bhuma, 69 in Hansi and 80 per cent in Bhattu Kalan cluster. High-yielding varieties of rice occupied about 95 per cent of the . total area under the crop around Hansi and about 31 per cent around Bhuma. Around Bhattu Kalan, only 18 hectares were under rice, all sown with desi varieties. Cimilar was the case with maize, as only one hectare area was under desi maize. However, around Bhuma and Hansi, about 9 per cent and 7 per cent of the total area under the crop were sown with hybrid or composite maize varieties, respectively. Fig. VIII shows a comparative situation in the three clusters.

Adoption of improved agricultural implements and machines in a particular area is one of the indicators of the level of development of that area. Hence, information about various implements and machines in these three clusters was collected, which is contained in table 1.8. Improved implements and machines which were found in these areas included bullock and tractor-drawn harrows, leveller tractor, mould-board plough, thresher and druny, cultivator, seed-cum-fertilizer drill and trofley. Information about bullock-carts (dunlos and ordinary), chaff-cutter (power-driven and handdriven), cane-crusher, wooden plough, tube-well, rahat, oil-engines, cotton ginning machines was also gathered. For comparing the intensive use of various implements and machines, their number per thousand hectares of cultivated land was worked out. The number of harrows was 5.08, 7.32 and 2.70 in Bhune, Hansi and Bhattu Kalan clusters, respectively.

Levellers were maximum, i.e., 7.37 per thousand hectares in Bhuma, followed by Hansi (3.84) and Bhattu Kalan (2.23). Use of tracturs was more in Hansi, followed by Bhuma and Bhattu Kalan. Their number per thousand hectares of cultivated area was 6.54, 4.51 and 1.95, respectively. On the other hand, use of mould-board plough

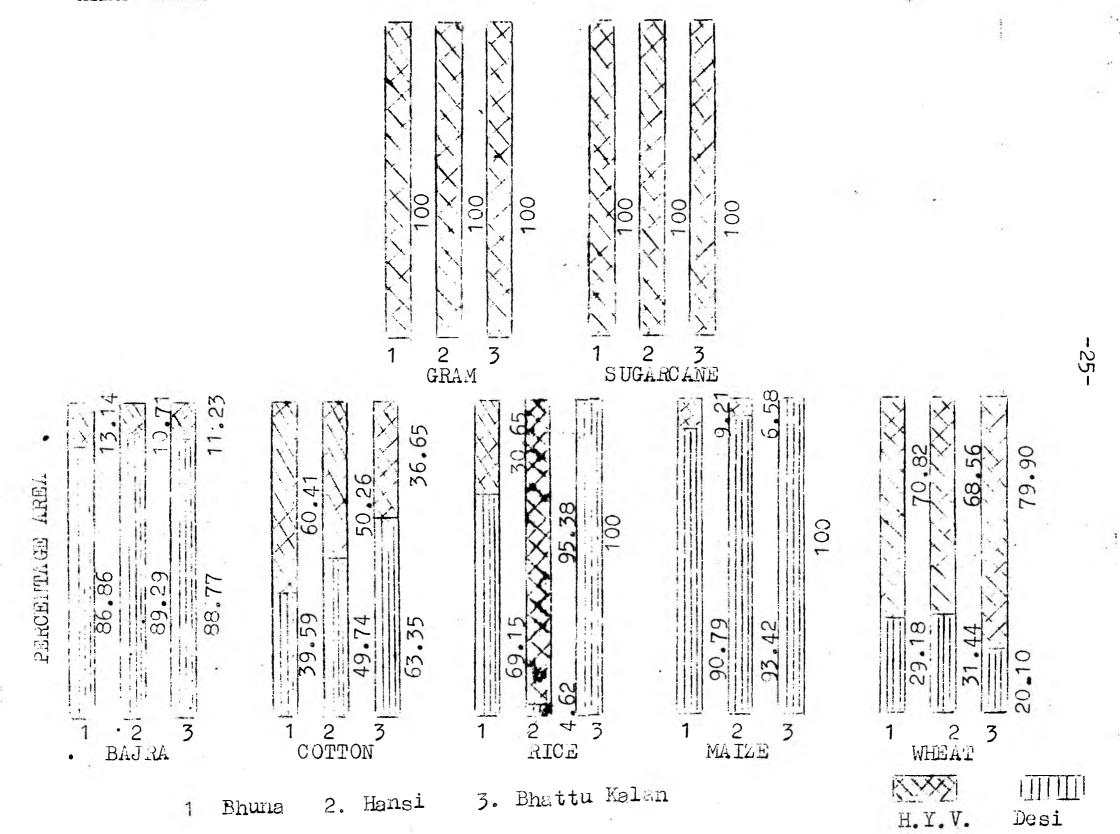


Table 1.8 : Implements and Lachinery in Bhuma, Hansi and Bhattu Kalan clusters

1	Implements and	Bhuna	Clusters Hansi		- Total
	machinery	DITUITE	110,110,1	DIE OU TEATELL	
(a)	Luproved		_		
	Harrows	186 (5.08)	206 (7•32)	136 (2.70)	528 (4.5 9)
	Leveller	270 (7. 37)	108 (3.84)	112 (2.23)	490 (4.26)
-	Tractor	165 (4.51)	184 (6.54)	98 (1.95)	447 (3.89)
	Mould-Board Plough	1 40 (1.09)	53 (1.88)	353 (7.02)	446 (3.88)
	Thresher and Druny	68 (1.86)	202 (7.18)	59 (1.17)	429 (3.73)
	Trolley	87 (2.38)	86 (3.06)	92 (1.83)	265 (2.30)
	Cultivator	124 (3.39)	52 (1.85)	84 (1.67)	260 (2.26)
	Seed-cum- Fertilizer drill	10 (0,27)	25 (0.89)	6 (0.12)	41 (0.36)
(b)	Others			,	
	Carts (rubber tyres)	81	79	617	777
	Carts (ordinary)	6686	3080	1258	11024
	Power-driven chaff cutter	105	222	135	462
	Hand-driven chaff cutter	6007	3648	2372	12027
	Cane crusher	125	156	. 51	332
	Plough (wooden)	8547	1454	1867	11868
	Tube-well	333	622	1	856
	Cotton-ginning machine	19	6	11	36
	Rahat	187	.13	22	222
	Oil Engines	23	53	27	102
 Tota	al cultivated area (ha)	36614	28124	50286	115024

Figures in parentheses give the number of implements/machin per thousand hectares of cultivated area.

around Bhattu Kalan was maximum, having, on an average, 7.02 mould-board ploughs per thousand hectares of cultivated area, whereas, in case of Bhuna and Hansi, this figure was 1.09 and 1.88, respectively. This was because the soils around Bhattu Kalan are comparatively light. Use of thresher and drumny was observed maximum around Hansi as, on an average, there were 7.18 threshers/drumny per thousand hectares of cultivated land in this area, compared to 1.86 around Bhuna and 1.70 around Bhattu Kalan. Similarly, seed-cum-fertilizer drills were more around Hansi, followed by Bhune and Bhattu Kalan clusters. Use of cultivators for tillage was maximum in Bhuna, followed by Hansi and Bhattu Kalan clusters. The number of tubewells, oil-engines, cane crushers etc. was also maximum around Hansi. Details of all these implements and machines in the three clusters are given in table 1.8 and Fig. IX.

On the whole, it was observed that the use of incroved agricultural implements and machines was maximum around Hansi, followed by Bhuna and Bhattu Kalan. This was because of comparatively better irrigation facilities, plain topography and suitable soil-type available in the area.

Livestock and poultry

Animal husbandry is the second important secor of rural economy in this area. Particularly for the weaker sections of the rural community, this may be the mainstay of life, providing adequate employment and income to the families. Hence, the number and type of animals and poultry birds kept by the rural people have a direct bearing on the family employment and income. As such, number of different types of livestock and poultry birds kept in these villages was calculated and the same is reflected in table 1.9. Common animals reared in these areas were buffaloes, cattle, sheep, goats, camels, and poultry birds. It was observed that the number of cattle per thousand of human population in

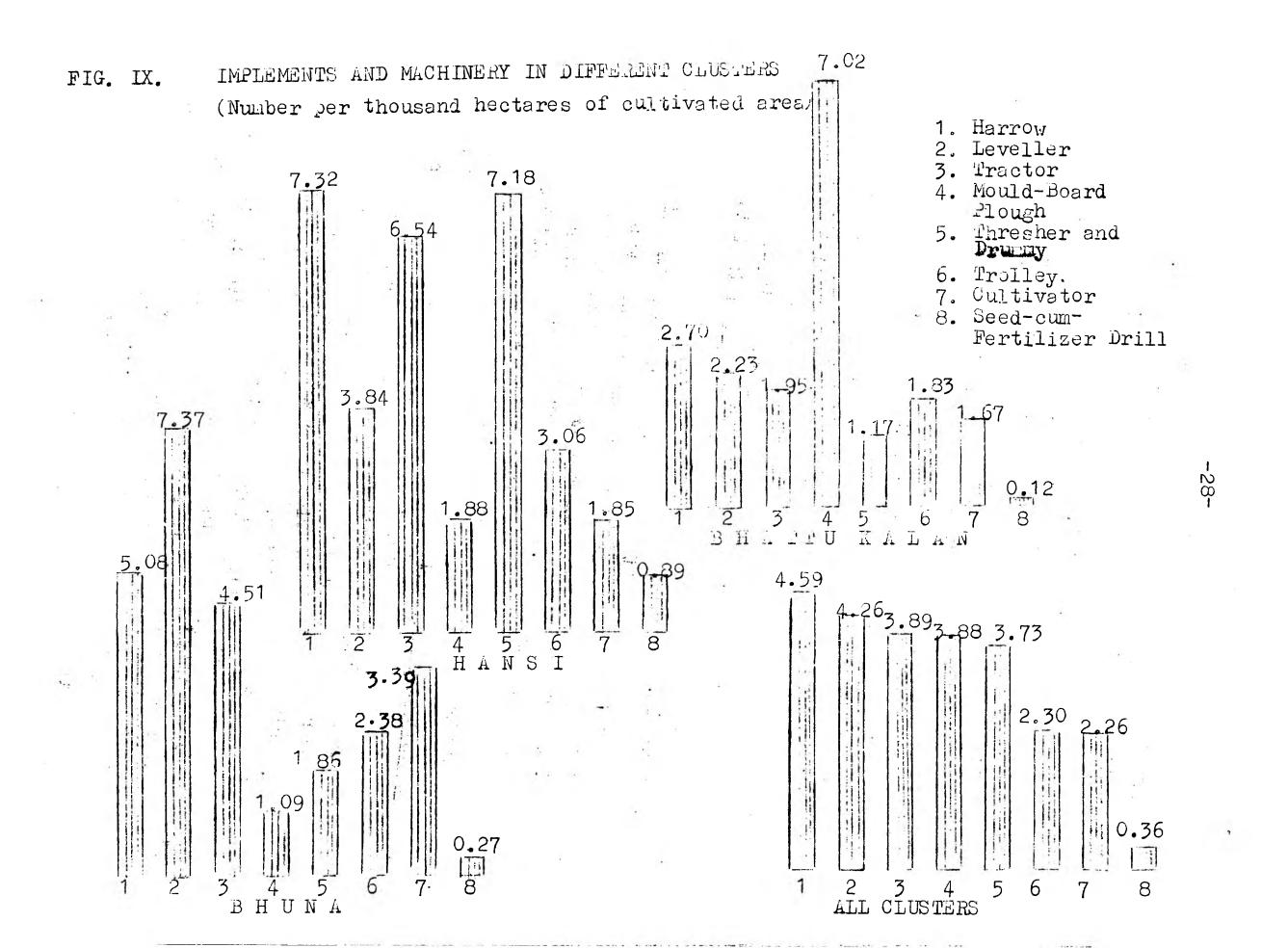


Table 1.9: Livestock and poultry population of Bhuna, Hansi and Bhattu Kalan clusters

 Livestock and	lpoultry	Bhuna	Clust Hansi		Total
 Cattle Buffaloes Goats Sheep Camels Donkeys Pigs Poultry		20078 (266) 21713 (283) 3640 (48) 7720 (102) 704 (9) 765 (10) 887 (11) 2370 (31)	17583 (240) 17212 (235) 2090 (28) 4495 (61) 40 (0.54) 790 (10) 1086 (14) 1443 (19)	12799 (162) 10390 (138) 6288 (80) 6802 (86) 5067 (64) 365 (4) 160 (2) 1031 (13)	50460 (222) 49815 (219) 12018 (52) 18917 (83) 5811 (25) 1920 (8) 2133 (9) 4844 (21)

Figures in parentheses show the number per thousand of human population.

in Bhuna. Hansi and Bhattu Kalan clusters was 266, 240 and 162, respectively. Similarly, in case of buffaloes, Bhuna ranked first having 288 buffaloes per thousand of population, followed by Hansi (235) and Bhattu Kalan (138). Number of goats per thousand of population was maximum (80) in Bhattu Kalan, followed by Bhuna (48) and Hansi (28). In case of sheep, too, Bhuna cluster topped, having 102 sheep per thousand of population as compared to 86 in Bhattu Kalan and 61 in Hansi.

Number of poultry birds per thousand of population was 31 in Bhuna as against 19 in Hansi and 13 in Bhattu Kalan. Population of camel was considerably much more in Bhattu Kalan, followed by Bhuna having light soils and using the camel as the main source of farm power. In Hansi, they were found very few. Number of pigs and donkeys in the three clusters was very less showing an average figure of 9 and 8, respectively per thousand of population. Details of each are given in Fig. X.

Feeds and fodder fed to livestock

Productivity of domestic animals and birds undoubtedly depends on their genetic character, but the quality as well as quantity of feeds and fodders fed to them has a direct bearing on their production. To have a look into the feeding practices of livestock in these areas, information was gathered, a detailed account of which is given in tables 1.10 and 1.11.

As regards feeding of the concentrate to the domestic animals, it was observed that most of the grains which were produced at home or in the locality, were commonly fed. A good number of concentrates constituted the feed-mix. According to the order of preference, guar and gram ranked first, followed by cotton-seed, bajra, gur, barley, oil, methi and mustard. Use of wheat, maize and ghee was also reported, but was not very common. Almost, in all the three clusters, the feeding practices of concentrates were similar with a slight change, as can be seen in Fig. XI.

LIVESTOCK AND POULTRY POPULATION IN DIFFERENT CLUSTER. (Number per thousand of human population)

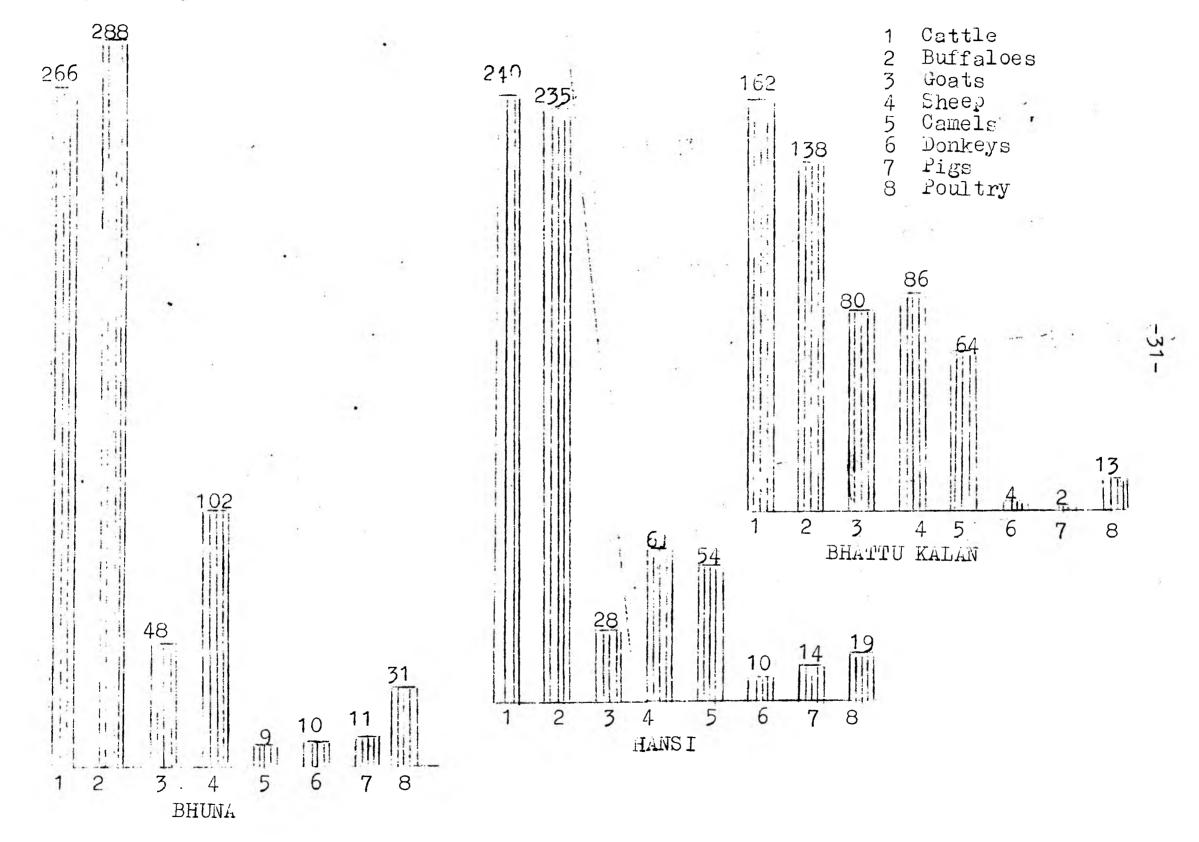


Table 1.10 : Concentrates fed to livestock of Bhuna, Hansi and Bhattu Kalan clusters

(Number of village

				edition).	t. Of ATTING
	Particulars -	C	lusters		- Total
-	rarucutars	Bhuna	Hansi	Bhattu Kalan	
Α.	Concentrates			•	
	Guar	30	30	3 0	90
	Barley	21	19	15	55
	Gram	3 0	30	30	90
	Cotton	28	30	28	86
	Gur	16	22	27	65
	Taramira	18	. 5	14	37
	Maize	5	2	2	9
	Mustard	17	10	17	44
	Bajra	21	23	30	79
	Wheat	7	4	4	15
	Methi	19	14	12	45
	Ghee	4	3	1	8
	Oil	18	8	25	51
В.	By-products			7	
	Mustard cake	27	29	27	83
	Cotton Seed cake	e 21	25	25	71
	Rice Polish	1	14		15
	Wheat bran	24	26	21	71
	Gran chokar	19	4	12	31
	Groundnut cake	6	25	3	34

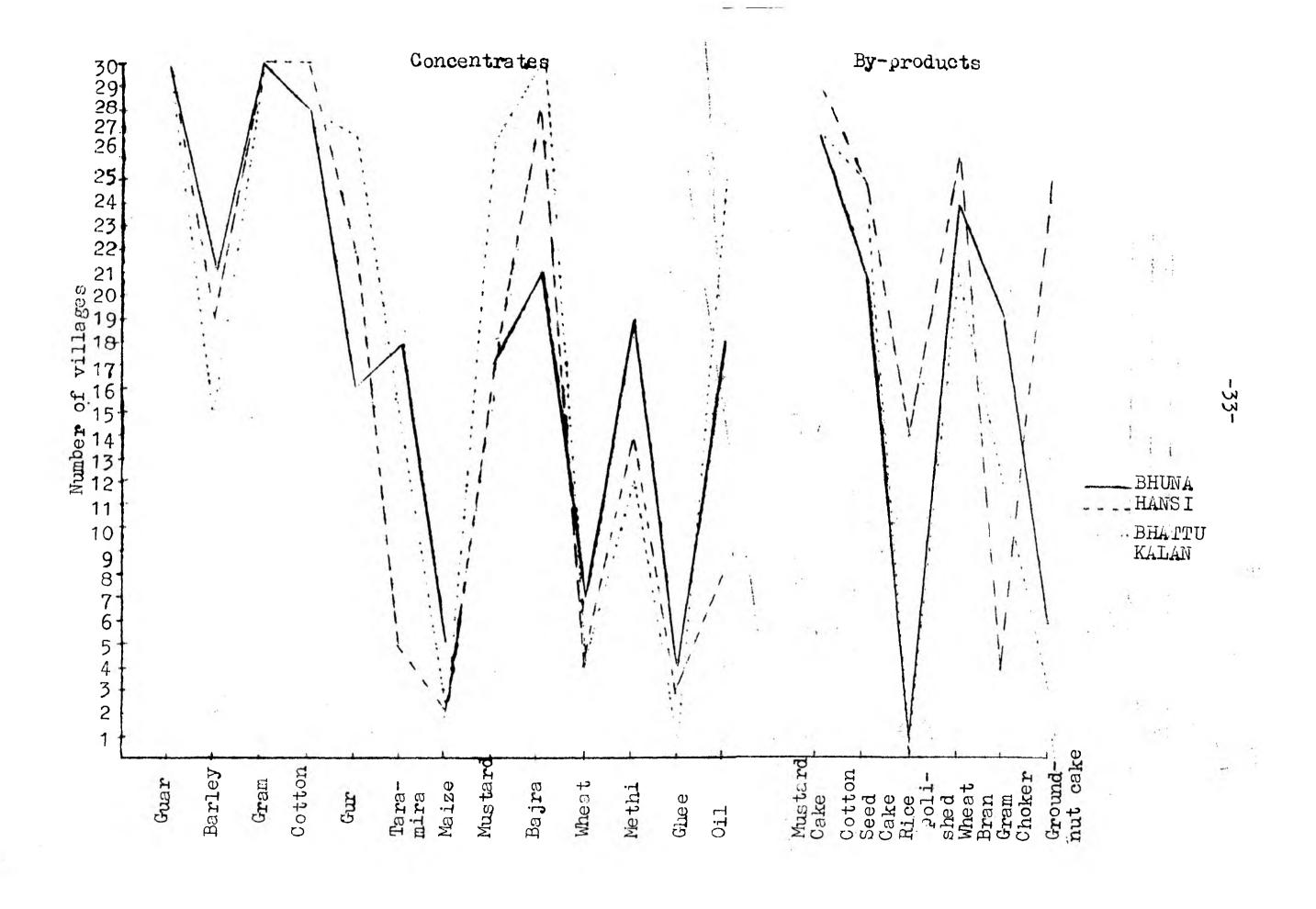
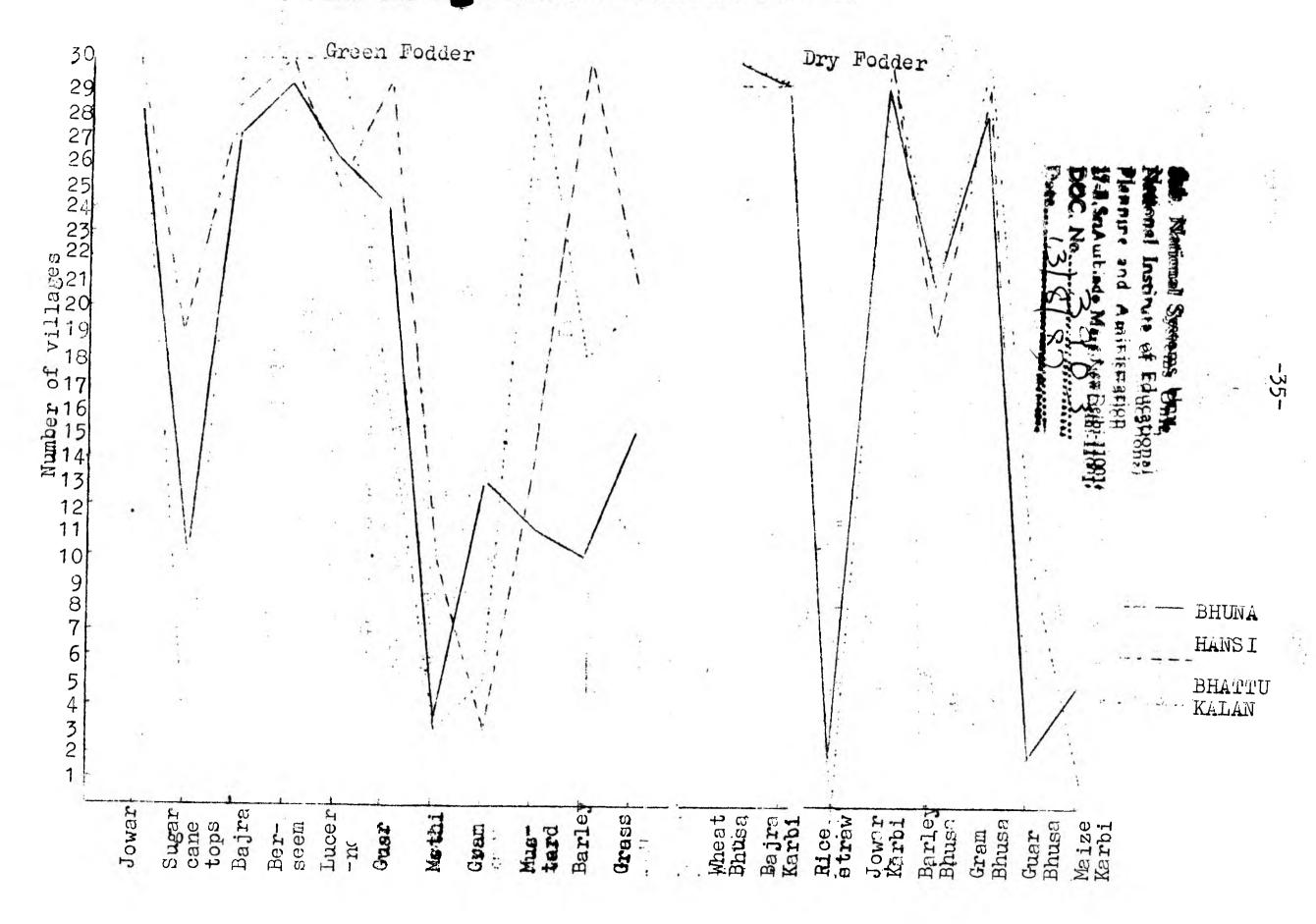


Table 1.11 : Fodders fed to livestock of Bhuna, Hansi and Bhattu Kalan clusters

Particulars		Cluster	3	Тодо
rarticulars	Bhuna	Hansi	Bhattu Kalar	Total
Green fodders			÷	
Jowar	28	30	28 -	86
Sugarcane tops	10 15	. 19.	2	31
Bajra	27	· 28	.30	85
Berseen	29	30	30	89
Lucern	26	25	30	81
Guar	24	29	17	70
Methi	3	10	3	16
Gram	13	3	5	. 21
Mustard	11	14	29	54
Barley	10	3 0	18	58
Grass	15	21	20	56
Dry fodders				
Wheat bhusa	3 0	29	30	89
Bajra Karbi	29	29	29	87
Rice straw:	2	2	_	4
Jowar karbi	29	30	~ 30	89
Barley bhusa	21.	19	21	61
Gran bhusa	28 %	29	30	87
Guar bhusa	2	2	10	14
Maize karbi	5	5	1	11
	مادمنده م	Williams & Rape &		



Among the by-products, mustard-cake, cotton-cake and wheat bran were more common. Some people also used to feed their animals with groundnut-cake, gram-chokar and rice polish. However, use of rice polish was mainly confined to Hansi area.

Green and dry fodders mainly constitute the bulk of animals' feed and people of this area are very much careful about their domestic animals, particularly, cattle and buffaloes. A good-mix of green and dry fodders fed to these animals was reported and the same is shown in table 1.11.

Green fodders constituted mainly berseem, jowar, bajra, lucern, guar, barley, grasses and mustard. In some of the villages, green gram, sugarcane tops and methi were also fed to animals. Normally, the feeding practice of green fodders depended upon the production and availability of these crops in the area. Among the dry fodders which were fed to the domestic animals, wheat bhusa and jowar karbi were most common, followed by bajra karbi, gram bhusa and barley bhusa. In a few villages, use of guar bhusa, maize karbi and rice straws was also reported. Fig. XII compares these practices in the three clusters.

CONCLUSIONS AND SUGGESTIONS

Conclusions

The quality of human life not only depends on the personal qualifications, employment and income but the public services and social amenities provided to an area also influence it to a great extent. Working efficiency and productivity of the people are also affected by the surroundings within which they work. As such, for studying these factors, conditions, existing resources and socio-economic status of the people around Bhuna, Hansi and Bhattu Kalan, a general survey of these areas was conducted. The main findings of the survey are summed up as follows.

The three clusters combined together covered about 1/5 of the total area as well as the same proportion of population of the district. However, the density of population was maximum around Hansi, i.e., 303 per square km., followed by Bhuna (246) and Bhattu Kalan (167). Thus, Bhuna and Hansi clusters are densely populated as compared to the district average of 178 persons per square km. Average size of family ranged from 7.50 around Bhuna to 8.16 around Hansi. The pressure of population on land was noticed maximum around Hansi followed by Bhuna and Bhattu Kalan as the per capita availability of arable land was 0.38, 0.49 and 0.69 hectares in the three clusters, respectively.

The number of cultivators was found to be maximum around Bhuna, followed by Bhattu Kalan and Hansi, thus, indicating the largest number of landless households around Hansi, followed by Bhattu Kalan and Bhuna. weaker groups comprising small and marginal farmers and landless labourers constituted about 71 per cent of the total households in Hansi, 59 per cent in Bhattu Kalan and 44 per cent in Bhuna clusters. Employment pattern of the cultivators, landless labourers and rural artisans indicated that about 48 per cent of the cultivators, 7 per cent of the landless labourers and 41 per cent of the artisans were fully employed and the rest were partially employed. The employment position of cultivators in the three clusters revealed that around Bhattu Kalan, nearly 61 per cent of the cultivators were fully employed as against 45 per cent around Bhuna and 39 per cent around Hansi. The landless households which were reported to be fully employed were about 6 per cent in Hansi and 8 per cent each in Bhuna and Bhattu Kalan clusters. Artisans mainly comprised carpenters, barbers, potters, cobblers, blacksmiths and water suppliers (Kahar). About 31 per cent of the total artisans were fully employed in Bhuna as compared to 35 per cent in Hansi and 49 per cent in Bhattu Kalan clusters.

Facilities for primary and middle education were normally adequate in the three clusters but for higher education and technical training, facilities were inadequate in Bhana and Bhattu Kalin clusters. In a few cases, particularly around Bhana and Bhattu Kalan, the maximum distance between a village and the nearest high school was found to be about 11-12 km. Village institutions like Panchayat and cooperative society were almost in all the villages, but there was a lack of youth organisations in all the three clusters.

Facilities regarding public health and medical aid were adequate but required re-orientation and streamlining for better services. Considering the importance of animal husbandry and livestock population, the veterinary aid and artificial insemination facilities were found inadequate in all the three clusters. the cases, the livestock owners used to travel 12-15 km. to avail these facilities. With regard to credit and banking facilities, the number of primary agricultural cooperative credit societies/Lini-banks in all the three clusters were adequate, but their functioning needed to be repriented and diverted towards weaker sections of the community. The number of commercial places in Bhattu Kalan area was only one and the moditum distance between a village and the neamest bank branch varied from 12 km. in Hansi to 14 km. in Bhung clusters.

is concerned, there were not much variations and about 89 per cent to 93 per cent of the total geographical area was under cultivation. However, due to variation in irrigation facilities and topography of the soil, the intensity of cropping varied from 122 per cent in Bhattu Kalan to about 141 per cent in Hasi clusters. The net irrigated area was about 46 per cent in Bhattu Kalan, 75 per cent in Bhun and 91 per cent of the net area sown in Hansi clusters. In all the three clusters,

there was neither any land under forest nor permanent pasture and grazing land. Crosping pattern in those three clusters was slightly different according to evailability of irrigation and type of soil. However, bajra, cotton, grain and wheat were the major cross in these areas covering about 75 to 85 per cent of the gross crosped area. In Bhuna and Bhattu Kalan, bajra occupied the maximum area, followed by gram, cotton and wheat, whereas around Hansi, the largest area was under wheat followed by gram, cotton and bajra. A number of other crops like guar, sugarcane, oilseeds, barley, berseem, lucern and methi were also grown, but only on limited area. Cultivation of vegetables was done mainly around Hansi and Bhuna. Fruit orchards containing citruses, guava and ber were found around Hansi and Bhuna only.

With reference to adoption of new agricultural technology in these areas, high-yielding varieties of bajra, cotton, wheat and gram were sown in all the three clusters. However, proportionately, the area under improved varieties of these crops was more in Hansi and Bhuna as compared to Bhattu Kalan cluster. Similarly, the use of improved implements and machines was more in Hansi, followed by Bhuna and the least in Bhattu Kalan area. Improved implements and machines, such as, harrow, leveller, tractor, cultivator, thresher/drumny, mould-board plough, etc. were more common.

Common animals kept by the people in these clusters were cattle, buffalies, sheep and goats. Other animals like camels, donkeys, pigs and poultry birds, were also found but with a few households only. However, bovines population was the maximum, i.e., 554 per thousand of human population around Bhuna as compared to 475 around Hansi and 300 around Bhattu Kalan. On the other hand, the number of sheep, goats and camels was comparatively larger around Bhattu Kalan, followed by Bhuna and Hansi.

This was because of agro-climatic conditions suiting to different species of animals. Population of poultry birds, pigs and donkeys in all the three clusters was very low.

As far as feeds and fodders fed to livestock are concerned, quite a good varieties of them were fed in all the three clusters. Concentrates normally included grains of guar, gram, cotton, bajra, — barley, methi, mustard etc. Amongst the by-products, mustard-cake, cotton-seed cake, wheat bran etc. were more common. Green fodders normally included jowar, berseen, bajra, lucern, guar, barley, grass, mustard etc., whereas common dry fodders were wheat straw, jowar karbi, bajra karbi, gram bhusa and barley bhusa.

Suggestions

After a careful study of the general and socioeconomic conditions prevailing in the three clusters
of villages, some of the important problems related with
the weaker groups have been identified. Considering the
magnitude of different problems and economic handicaps of
the rural poor, some important suggestions may be given
for the betterment of their lot. It is expected that
with the proper implementation of these suggestions,
the plight of the weaker groups in rural creas may be
minimised.

As the pressure of population on land around Hansi was the maximum, extension of new agricultural technology to the small and marginal formers, constituting majority of the cultivated households, is essential. The technology must suit the small farms so as to give maximum employment and income to the families. There is a good scope for intensification of agriculture including vegetable cultivation around Hansi and Bhuna.

- For the small and marginal farmers in Bhattu Kalan area subsidiary avenues of income and employment, particularly, animal husbandry and dairying may be introduced. Due to limited irrigation and unfavourable topography, intensification of agriculture in this area is restricted. However, adoption of dry land agricultural technology for stabilization of income may be encouraged.
- In Hansi area and in Bhuna too, dairy farming may be the second main source of income after agriculture for increasing the employment and income of the rural poor. However, an integrated and effective programme of genetic improvement in the existing Tivestock through crossbreeding, improved feeding, health cover and proper a magement should be undertaken most probably by a single agency having sufficient expertise in the field. Provisions for training, supply of good animals, balanced feed, fodder seed, credit and marketing of the products should-also be made.
- 4. In Bhattu Kalan as well as in Bhuna, sheep and wool development may be a good proposition for the landless labourers and marginal farmers of the area. However arrangement for the supply of good sheep, training in management and development of pasture for grazing purposes is essential. Services for the grading, processing and marketing of wool and mutton should also be strengthened.

- Jandless people were the most unemployed or under-employed persons in these areas. For them, vocational training in weaving, quality shoe-making, carpentary, general mechanics and repairing etc. may be useful. However, necessary facilities for credit, tools and equipment, supply of raw-material, designs, and marketing should be readily provided. The whole system pertaining to different trades should also be organised on cooperative basis so as to become self-reliant and to gain the benefits of unity.
- 6. Simultaneously, while imparting the technical training to different categories of people, a literacy campaign will also help in developing the consciousness, skill and self-confidence among the poor technicians.
- Rural artisans and educated youth should be given up-to-date training and assistance in the form of tools, equipment, credit, raw material and marketing of end-products. The strength and energy of the rural youth may be utilized for the rural reconstruction and socio-economic transformation after proper organisation and guidance.
- Rural women, particularly poor ones, are the most under-privileged section of the community in respect of education, employment and social status. For them, vocational trainings in different trades such as, tailoring, weaving, knitting, embroidery, canning, food-processing etc., which may give partitime and home-based employment to them, may be give However, a strong external support for the supply of raw-material, designs, necessary tools and equipment and marketing is essential. Their lot requipment organisation, informal education and social support for the development of their ment horizon and self-confidence.

9. Poor children are the greatest sufferers of socioeconomic adversities in the rural areas. At the
time of career building, they are forced to become
a bread-earner for the family. Their condition
calls for a revolutionary change in the educational
system so that while learning, they may be given
trainings in different crafts and they do not
become a burden on the family. This type of
training in the schools will not only build up
a sound career for them but will also develop
greater skill, specialization and confidence from
the very beginning.

SOCIO-ECONOMIC STATUS OF RURAL WOMEN AROUND BHUNA

"Every woman is a creator in the ideal of nationhood."

- Sarojni Naidu

Woman in this part of the country can be called a 'Treasurer' of her husband. She is her husband's help-mate and does every kind of field labour except driving the plough or the cart. She cooks food, manages the household affairs, carries food for the men-folk working in the field and actively helps in field operations. Looking after the domestic animals is her job and milking is also done by her. She makes embankment of the field, follows the plough dropping seed during the sowing season, makes the water channels, does weeding and harvesting and carries heavy loads of fodder crops on her head to the home. In addition, she has to collect the cow-dung and make it into opla. She has also to help her husband in nicely putting the foodgrains stored and looking after these to avoid any tamage or pilferage.

The women in the villages wear the best clothes during the day when they go to the well to fetch water, for the well is also a village club where gossipping is exchanged. A village woman carries two to three pitchers on her head filled with water from the village well to the home, which is a remarkable feat of balancing and gives a graceful gait and poise. She cooks meals for the family, cleans the house and utensils, washes the clothes and does such other household jobs. Above all, she takes care of the kids and the husband in all respects.

The married women observe <u>purdah</u> and only the maidens go about with uncovered faces. Quite a few of them are good-looking in their teens, but the drudgery of life tells upon

them in a few years. The common dress that they wear is the graceful <u>Ghagri</u> and with bright clothes, it lends the charm and colour of the drab countryside. However, after the partition of Punjab and with the migration of the displaced persons from West Pakistan to these areas, a slight change in fashion has occurred. The <u>salwar</u> and <u>kameez</u> are being increasingly adopted by the young girls and even by some grown-up women. No doubt, the <u>salwar</u> is very useful and economical garment, but it is drab and less romantic in comparison to Ghagri.

While the women folk of this part of the country are so hard-working and share the burden of the family to a greater extent, the men-folk are seen smoking 'huqqa in front of their homes or playing cards and gossipping in the village chaupals. General reluctance on the part of men-folk to encourage female education is partly explained by the fact that they apprehend that the women will cease to do hard work if they become educated. As such, the percentage of education in the rural women is very low (8.90) and generally, the girls after having attended the middle school, are not allowed to continue their studies.

Apart from being a help-mate in farming, a rural woman is also the keeper of her husband's conscience. Men are mostly hetrodox and seldom observe religious customs and leave prayers, fasts etc. to the women. Hinduism has stayed so well all through these thousands of years in the villages because of the adherence of women to the religious traditions.

In rural economy, women, as a group, form an important component of the rural work force, but have generally been by-passed in many developmental programmes adopted in the past. Therefore, greater emphasis needs to be given to impart practical trainings to this neglected section of the

society to upgrade their skills and equip them with nodern technology to actively participate in this new programme. Keeping this factor in view and to have a deep in-sight into their existing problems, tastes, skills and aptitudes, the present survey on socioeconomic status of rural women has been conducted with the following specific objectives:-

- (a) To identify the different economic activities of poor women in rural areas;
- (b) to measure the extent of employment and prevailing unemployment among them;
- (c) to examine the household facilities available and the role of women in making decisions in family affairs;
- (d) to find out the willingness of women for trainings in different trades; and
- (e) to suggest constructive and productive programmes for raising the mental horizons and earning capacity of the poor women.

Since the Integrated Rural Development Project is being established with specific objective to increase the purchasing power of the rural poor, particularly, small and marginal farmers, landless labourers, artisans, rural women and children below poverty line, by creating more employment opportunities, this study will help in knitting suitable programmes based on the needs and likings of the rural poor. Only in this way, by getting their active involvement and participation in their own programmes, a remarkable success can be achieved.

METHODOLOGY

Agroclimatically, Hissar district can be divided into three zones; the first zone comprising of Tohana, Bhune and Ratia Blocks; the second zone constituting Fatehabad, Hissar-II Hissar-II and Barwala Blocks; and the third zone consisting of Hansi-I, Hansi-II and Marnauna Blocks. The selected one is Bhuna Block which represents the first zone comprising mainly aeolian plain with sand dunes of stabilized and unstabilized nature. Soils of this Block are sandy to loamy sand in nature, well-drained and moderately eroded. soils are low in nitrogen, low to medium in phosphorus and medium to high in potassium. Important crops grown in this region include wheat, gram, rabi oilseeds, cotton and bajra. Agriculture is the main occupation and source of income of the people in this area. Since Bhuna has been identified as a rural growth centre for establishing an Integrated Rural Development complex, it was felt necessary to conduct socio-economic survey around this area. According to the guidelines given by the Government of India, we drew up an inventory of resources of the district to select this typical village. No doubt, Bhuna is situated at a distance of 53 km. from the district headquarters at Hissar, but is well-connected with other parts of the district and towns, and is located in the rural environment. This village has also some basic developmental infrastructure for supporting the future programme of rural development. The village community represents a good mix of different social groups, viz., Jat, Bishnoi, Sikh, Brahman, Banis, Harijan and Punjabi immigrants.

Keeping the objectives in view, an in-depth study of a cluster of thirty villages around Bhuna was chosen for this investigation so as to determine the existing socio-economic status of rural women of this region. A

list of the small and marginal farmers and landless labourers already identified by the Small Farmers'

Development Agency (SFDA) operating in the area for each village was obtained so as to take an overall picture of the women status in the villages. Ten per cent of the randomly selected groups of different categories were taken as respondents. Thus, the sample constituted 136 small farmers 218 marginal farmers and 93 landless labourers, making a total of 447 households. In table 2.1, a detailed account of the total number of three categories (Small, marginal farmers and landless labourers) of households and the number of selected households is mentioned.

Number of total households under different categories and that of selected ones as respondents

Categories of household	ls	Total number	Selected number		
Small farmers		1340	136		
Marginal farmers	• •	2178	218		
Landless labourers	• •	913	93		
Grand total		4431	447		

DATA ANALYSIS AND DISCUSSION

Population and family composition:

A family is the basic unit around which all the socioeconomic activities revolve. The nature and quantum of all the economic occupations depend mainly upon the size and composition of the family. Therefore, an attempt has been made here to study the structure and size of the families under survey

A detailed account of the type and size of selected families under different categories is given in Table 2.2. Out of 447 selected families, 44.74 parcent were operating as joint families and the remaining 55.26 per cent were managing household activities as nuclear type of families. When the ratio of joint and nuclear types of families was compared in each category, i.e., small and marginal farmers, and landless labourers, more or less the same pattern existed except that a little higher percentage went in favour of nuclear type of families in case of landless labourers, suggesting, their aptitude towards nuclear type of families. The average size of a family for all the households under study was worked out to 7.6, ranging from 7.1 as minimum for landless labourers and 7.8 as maximum for small farmers. The number of female members was a little less than the male members in the family Of the total number of family members, females accounted for 48.37 per cent, and 51.63 per cent went in favour of male members. Almost the same ratio was found in small and marginal farmers, and landless labourers. This is further supported by the fact that the number of female members per family was 3.7 as against 3.9 for male members, showin, a sex ratio of 937 females for every 1000 of male population. These figures were considerably higher than the district figures of 862. Type and constitution of selected families are also shown in Fig. XIII.

TABLE 2.2.

Type and size of selected families under different categories

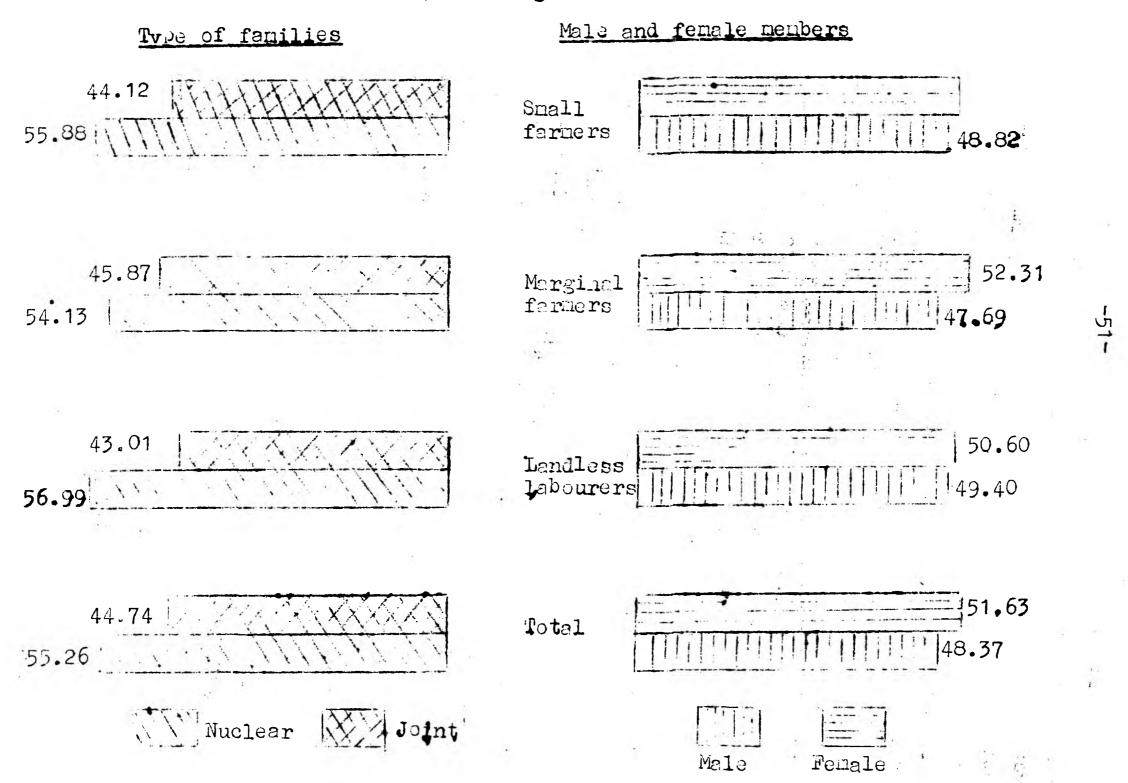
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12.5					
Sr. No.	C 54 77 1 1 / 111 1 12 1 1 1 1 1	Small farmers	Marginol farmers	Landless labourers	All:1 household
1.	Type of families:	×		20	
	• •	60 (44.12)	100 (45.87)	40 (43.01)	200 (44 .7 4)
•	(b) Nuclear	. 76 (55 . 88)	118 (54.13)	53 (56 .9 9)	247 (55.26)
j	Total families	136 (100.00)	218 (100.00)	93 (100.00)	-44 7 (100.00)
2.	Number of males	546 (51 .1 8)	883 (52.31)	334 (50.60)	1763 (51.63)
3.	Number of females	521 (48.82)	805 (47.69)	326 (49.40)	1652 (48•37)
4	Total number of family members	1067 (100.00)	1688 (100.00)	660 (100.00)	3415 (100.00)
5.	Average size of the family	7.8	7.7	7.1	7.6

Figures in parenthesis show the percentage of their respective total.

Number of children, working members and members of age, in a family has a direct bearing upon the earning and expenditure of the household. Education of the children also depends upon the income of the family. Age-wise composition of a family also indicates the employment potential. With this idea in mind the composition of families according to the age of its members has been examined for various cate-

TYPE OF SELECTED FAMILIES UNDER DIFFERENT CATEGORIES (Percentage)



gories of households and the data in this regard is given in table 2.3. Of the total population, 10.83 per cent was found as infants upto 5 years, 33.94 per cent children of school-going age i.e. 5 - 15 years, 54.03 per cent in the age-group of 15-60 years as working force, and only 1.20 per cent reflected to be The maximum ratio of infants above 60 years of age was noted as 12.20 per cent for marginal farmers and minimum as 9.09 per cent for landless labourers. When female and male infants were examined separately under different categories, the male infants showed more percentage in all the categories. The children population varied from 32.43 per cent as minimum in small farmers to 35.30 per cent as maximum in landless. labourers. When this was examined sevarately for female and male population, an altogether reverse trend than the previous one was noted and female population was found to be dominating in all the categories.

The main population which formed the working age-group was observed as 56.33 per cent maximum in small farmers, followed by 54.49 per cent in landless labourers and 52.42 per cent, i.e., minimum, was shared by marginal farmers. A separate analysis of female and male population of this working group did not reveal anything more, except that male population in all the categories showed a little higher percentage than the female population. The population above 60 years of age was again maximum in small farmers and minimum in marginal farmers ranging from 1.50 to 1.02 per cent, respectively. Again, in this group, percentage of male population was found to be considerably higher than that of female in all the categories, suggesting that male population had more life, than the female one. In Fig. XIV, family composition of different categories of households according to different age-groups has been shown.

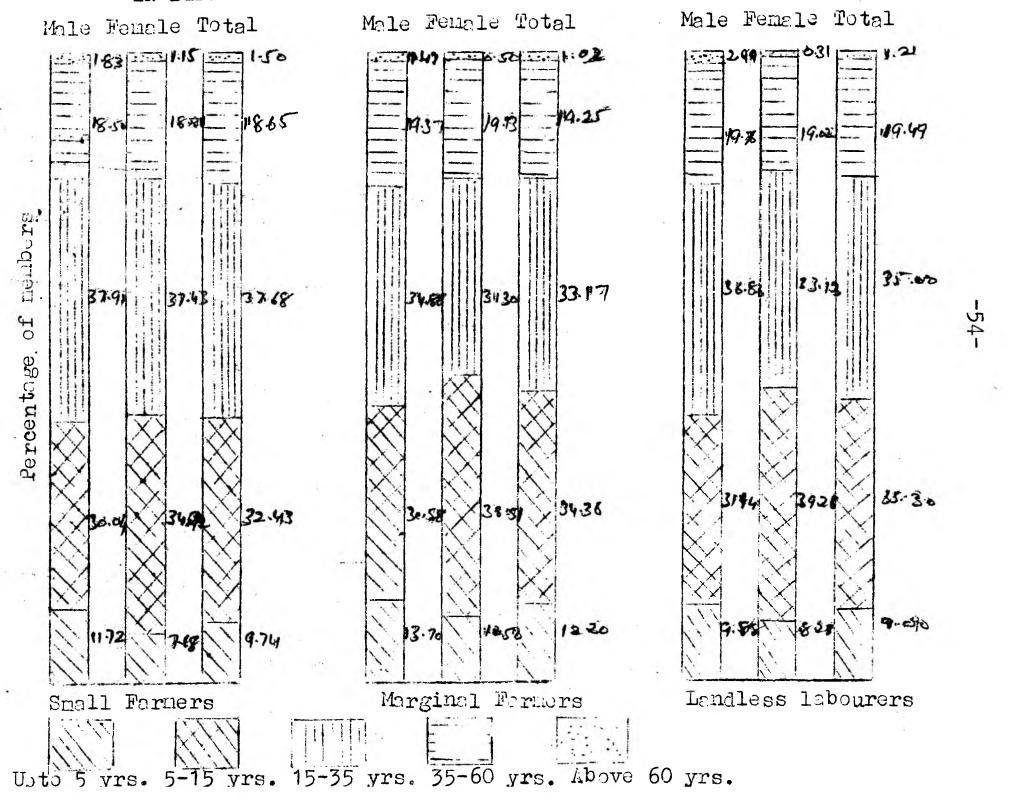
TABLE 2.3. Composition of family according to their age-groups in different categories.

Age- group	Male	farmers			al farme	- ~		ess labo	JUL CI D		Tota	4
		Female	Total	Male	Female		Male	Female	Total	Male	Pomale	Total
Upto 5 years	(11.72)	(7.68)	(9.74)	(13.70)	(10.56)	(12.20)	(9.88)	(8.28)	(9.09)	(12.37)	(9.20)	
5 -1 5 years												
15-35 years	207 (37.91	195)(37.43)	402 (37. 68)	308 (34.88)	252 (31.30)	560 (33.17)	123 (36.83)	୍ 10ଓ (33ୁ 13)	231 (35.00)	638 (36.19)	555 (33.60)	1193 (34.94)
Above 60 years	10 (1.83	6) (1.15)	16 (1.50)	13 (1.47)	(0.50)	17 (1.02)	(2.09)	(0.31)	8 (1.21)	30 (1.70)	(0.67)	(1.20)
Potal	1 546 (100)	520	1067	38 3 · (100)	·805	1688 (100)	334 (100)	326 (100)	6 6 0 (100)	1763 (100)	1652 (100)	3415 (100)
	years 5-15 years 15-35 years 35-60 years Above	years (11.72) 5-15 164 years (30.04) 15-35 207 years (37.91) 35-60 101 years (18.50) Above 10 60 years (1.83)	years (11.72) (7.68) 5-15	years (11.72) (7.68) (9.74) 5-15	years (11.72) (7.68) (9.74) (13.70) 5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) 5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) (12.20) 5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) (12.20) (9.88) 5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) (12.20) (9.88) (8.28) (5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) (12.20) (9.88) (8.23) (9.09) 5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) (12.20) (9.88) (8.23) (9.09) (12.37) 5-15	years (11.72) (7.68) (9.74) (13.70) (10.56) (12.20) (9.88) (8.28) (9.09) (12.37) (9.20) (5-15

Figures in pare theses show the percentage of their respective total.

Fig. XIV.

FAMILY COMPOSITION ACCORDING TO AGE GROUPS
IN DIFFERENT CATEGORIES OF HOUSEHOLDS



The following conclusions may be frawn from the foregoing discussion:

- (a) Nearly 11 per cent of the total population of rural poor are infants and about 34 per cent are children of school-going age.
- (b) Population in the working age-group (15-50 years) constitute about 54 per cent of the total population.
- (c) Persons of old age (above 60 years) are only about one per cent of the total population,
- (d) Number of infants and children of school-going age is more in marginal farmer families as compared to small farmers and landless labourers.
- (e) In all the categories of household, the age of males is longer than that of females.

Caste-wise break-up of families:

It would be worthwhile to look into the family structure in relation to different categories of households as well as ascial groups. As such, caste-wise break-up of families under different cote noise is presented in table 2.4. Of the total families surveyed, 26.85 per cent came from scheduled castes 27.96 per cent from backward classes and 45.19 per cent from higher castes. On examining the different castes under different categories, it was found that scheduled caste households represented 14.7, 24.77 and 49.46 per cent; backward class households 26.47, 23.39 and 40.89 per cent and higher caste households reflected 58.82, 51.84 and 9.68 per cent of the small and marginal farmers, and landless labourers, respectively. Thus, it was noted that the scheduled caste households were invariably related with the size of holdings; whereas the percentage of higher caste households declined

Table 2.4. Break-up of Joint and Nuclear families of different categories

			2.5	20000000000000000000000000000000000000
Different categories	Social groups	Joint	Nuclear	Total
Small farmers	Scheduled Caste	(70.00) 14 (23.33)	(30.90) 6 (7.89)	(100.00) 20 (14.71)
	Backward class	(47.22) 17 (28.33)	(52.78) 19 (25.00)	(100.00) 36 (26.47)
	Higher caste	(36.26) 29 (43.34)	(63.74) 51 (61.11)	(100.00) 80 (58.82)
	Total	60 (100.00)	76 (100.00)	136 (100.00)
Marginal farmers	Scheduled Caste	(38.89) 21 (21.00)	(61.11) 33 (27.97)	(100.00) 54 (24.77)
	Backward class	(54.91) 28 (28.00)	(45.09) 23 (19.49)	(100.00) 51 (23.39)
	Higher caste	(45.14) 51 (51.00)	(54.80) 62 (52.54)	(100.00) 113 (51.84)
	Total	100 (100.00)	118 (100.00)	218 (100.00)

(contd...)

(Table 2.4 contd...)

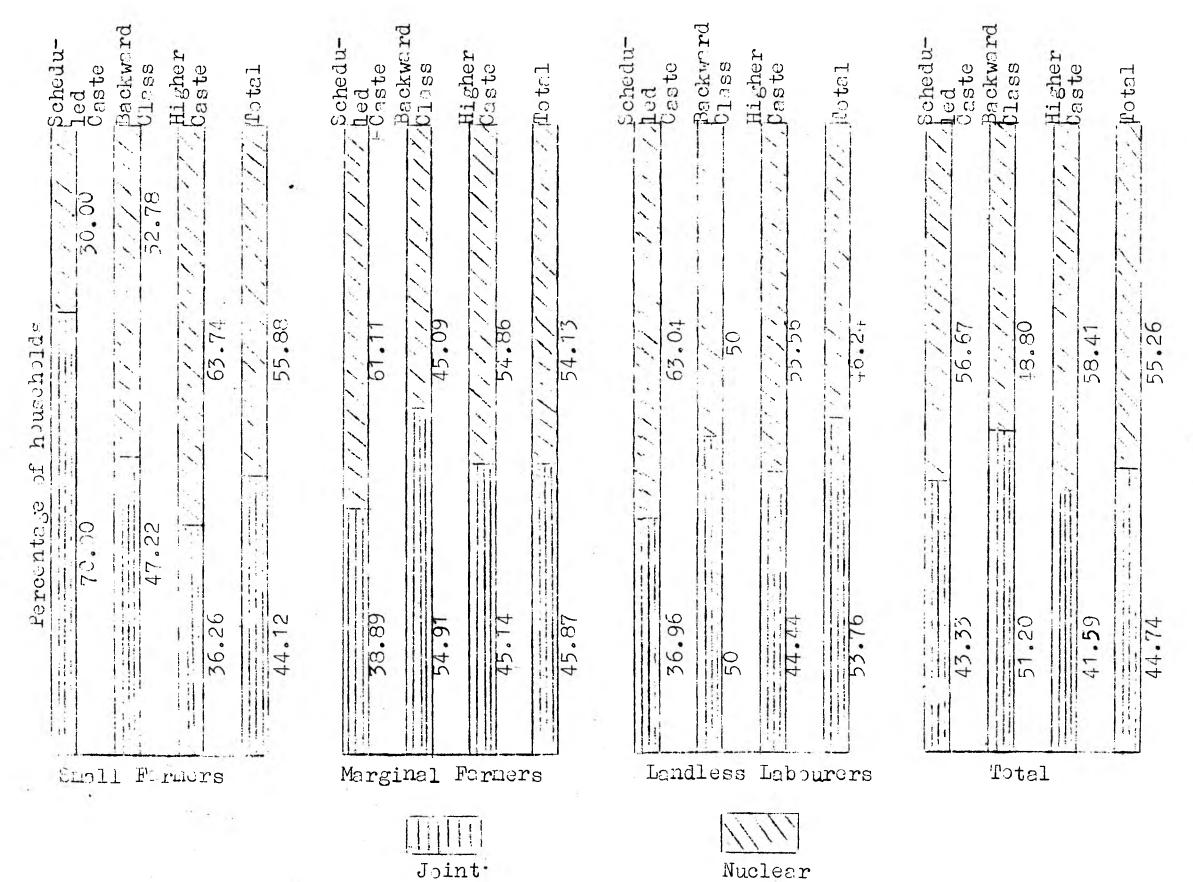
Different categories	Social groups	Joint	Nuclear	fotal		
Landless labourers	Scheduled caste	(36.96) 17 (42.50)	(63.04) 29 (54.72)	(100.00) 46 (49.46)		
	Backward class	(50.00) 19 (47.50)	(50.00) 19 (35. 85)	(100.00) 38 (40.86)		
	Higher caste	(44.44) (10.50)	(55.56) 5 (9.43)	(100.00) 9 (9.68		
* ** ** ** ** ** ** ** ** ** ** ** ** *	Total	40 (100.0 ₀)	53 (100.00)	93 (100.00)		
TOTAL	Scheduled caste	(43.33) 52 (26.00)	(56.67) 68 (27.53)	(100.00) 120 (26.85)		
	Ba ckward class	(51.20) 64 (32.00)	(48.80) 61 (24.70)	(100.00) 125 (27.96)		
5	Higher caste	(41.59) 84 (42.00)	(58.41) 118 (47.77)	(100.00) 202 (45.19)		
	Total	(44.74) 200 (100.00)	(55.26) 247 (100.00)	(100.00) 447 (100.00)		

Figures in parenthesis show the percentage of their respective totals.

as the size of holdings decreased. One can safely conclude that the concentration of scheduled caste households was maximum in landless labours. A remarkable and significant increasing trend in case of scheduled caste nuclear type of families was noticed as the size of holdings decreased. It established that disintegration of joint families into nuclear families was greater in scheduled castes and landless labourers (see Fig. XV and XVI).

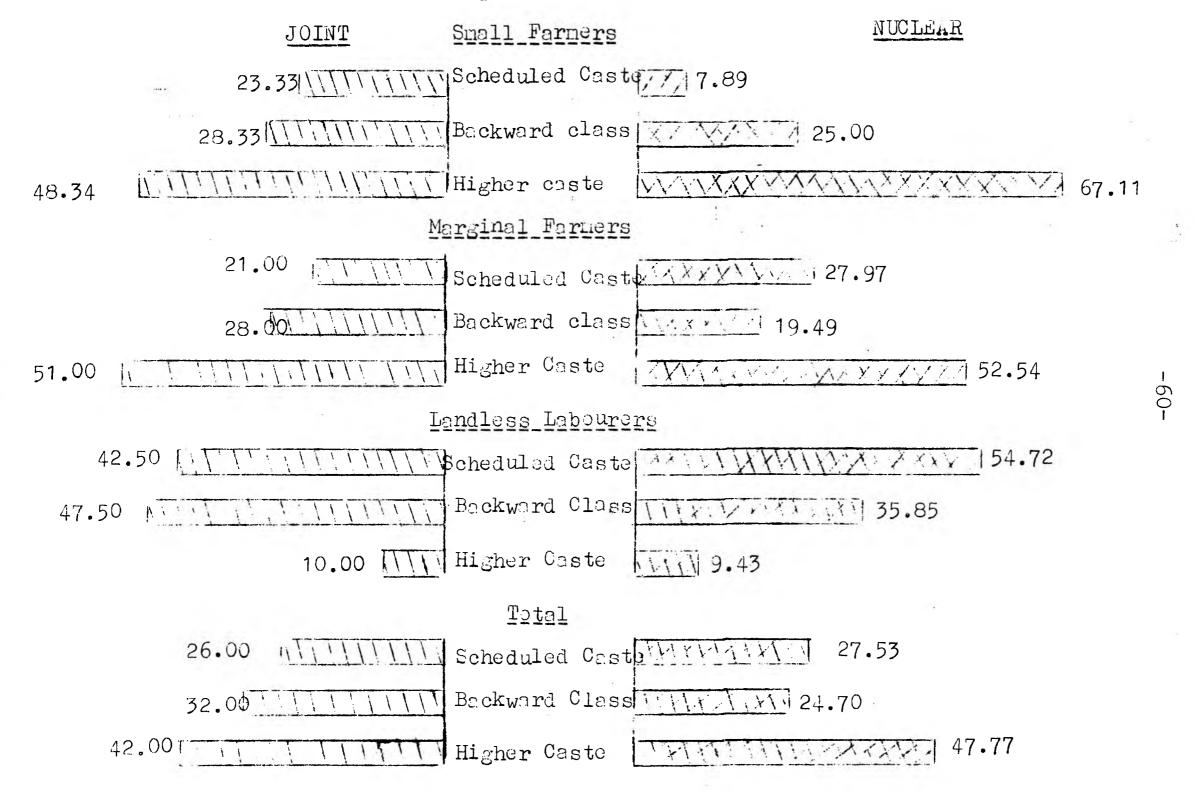
Broad conclusions emerging from table 2.4 are as under:

- (a) Nearly 45 per cent of the total families are joint and the rest 55 per cent are nuclear ones.
- (b) Among the scheduled castes and the higher castes, nuclear families are comparatively more, but in backward class joint families are more than the nuclear ones.
- (c) Among scheduled castes disintegration of joint families into nuclear families increases as the family assets decrease, i.e., as soon as a scheduled caste family having small farms becomes marginal one, the division takes place.



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BREAK-UP OF JOINT AND NUCLEAR F.MILIES OF DIFFERENT CATEGORIES (Percentage to total households)



Education:

The educational status of a family reflects the skill and efficiency of the members in relation to different types of work. Further, it also helps in suggesting suitable jobs for the families having different quali-Table 2.5 gives a detailed account of educafications. tional status of different categories of households. It would reveal that about 19.32 per cent of the total population of the selected households were found literate, which established a slightly higher percentage than the district literacy percentage reported for rural areas. Education among the male and female population separately was noted as 29.10 and 8.90 per cent, respectively. Among the small and marginal farmers, and landless labourers, the education level was 21.18, 20.56 and 13.16 per cent, respectively. In these three categories of households. the male literacy was 32.60, 29.73 and 21.84 per cent; whereas the female literacy was 9.22, 11.68 and 4.30 per cent, respectively. This provided a big gap between the male and female literacy. As the size of holding declined, the standard of education also went on decreas-In case of women, it was more true, as, among the ing. landless labourer households, there was no female who got education above the middle standard. while among marginal farmer households, there was only one woman who was matriculate and in small farmer households, there were

Table 2.5. Educational pattern of various categories of households.

Particulars		Farmers Ferale			inal Far Female			ess labo Female			tal Female	Grand Total
Under-age	64 (11.72)	4((7.68)	104 (9.75)	121 (13.70)	85 (10.55)(33 (9.88)			218 (12.37)	152 (9.20)	370 (10.84)
Illiterate	304 (55.68)	433 (83.11)(733 (69.07)	500 (56.62)	635 (78.88)	11 3 5 (67.24)	228 (68.26)	285 (37.41)	513 (77.73)	1032 (58.54)	1353 (81.90)	2385 (69.84)
Primary	95 (17.40)	42 (8.06)	137 (12.84)	10 7 (12.12)	68 (8.45)	175 (10.37)	38 (11.38)	12 (3.68)	50 (7.58)	240 (13.61)	122 (7.38)	362 (10.60)
Middle	39 (7.15)	2 (0.39)	41 (3.84)	70 (7.98)	16 (1.99)	86 (5.09)	17 (5.09)	(0.62)	19 (2. 88)	126 (7.15)	20 (1.21)	146 (4.27)
Matriculate	38 (6.95)	(0.19)	39 (3.66)	56 (6.35)	1 (1.24)	57 (3.38)	12 (3.59)	-	12 (1.82)	106 (6.02)	(0.12)	108 (3.16)
Above matriculate	(1.17)	(0.58)	9 (0.84)	29 (3.28)	-	29 (1.72)	6 (1.78)	-	6 (0.90)	41 (2.33)	(0.18)	44 (1.29)
Total	546 (100)	521 (100)	1067 (100)	883 (100)	805 (100)	1688 (100)	334 (100)	326 (100)	660 (100)	1763 (100)	1652 (100)	3415 (100)

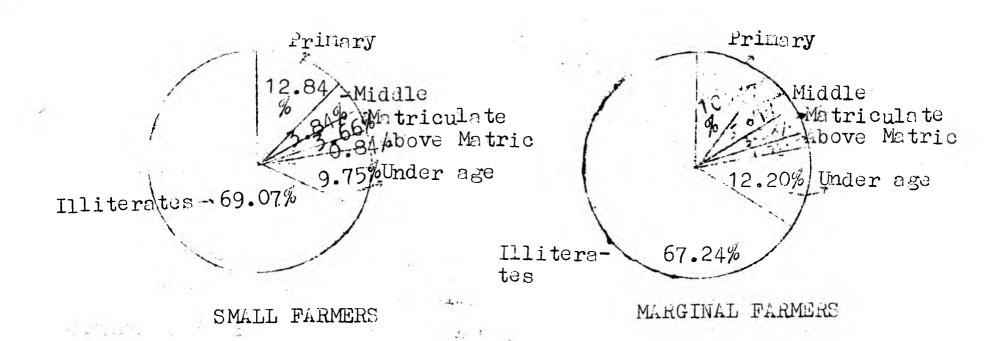
Figures in parenthesis show the percentage of their respective totals.

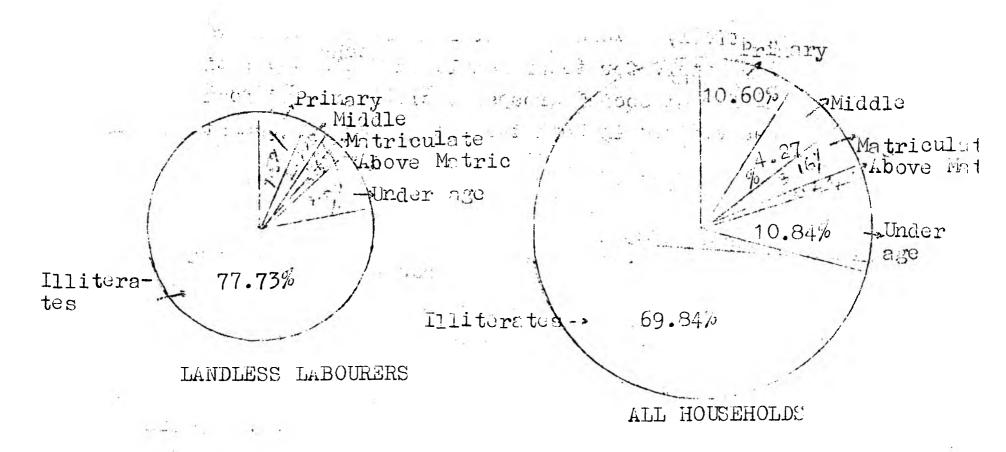
Fig. XVII.

EDUCATIONAL PATTERN AMONG DIFFERENT CATEGORIES

OF HOUSEHOLDS

(Percentage to total papulation)





only three women who got education above matriculation. Fig. XVII shows the educational pattern among different cagegories of households.

Main points emerging from the above discussion may be listed as follows:-

- (a) Overall literacy among the rural poor is about 19.32 per cent which is a little higher than the district average for rural areas.
- (b) Literacy among females is only 8.89 per cent which is far below the literacy among the males, i.e., 29.11 per cent.
- (c) Level of education among the females declines as the family assets decrease, because the educational status of landless women is very low as compared to women of small farmers.

Literacy distribution:

Some of the social groups in rural areas are very rigid to new adoptions and reluctant to encourage female education. Genesis of the problem of illiteracy allond different social groups has been done to find out the main causes and their probable solutions.

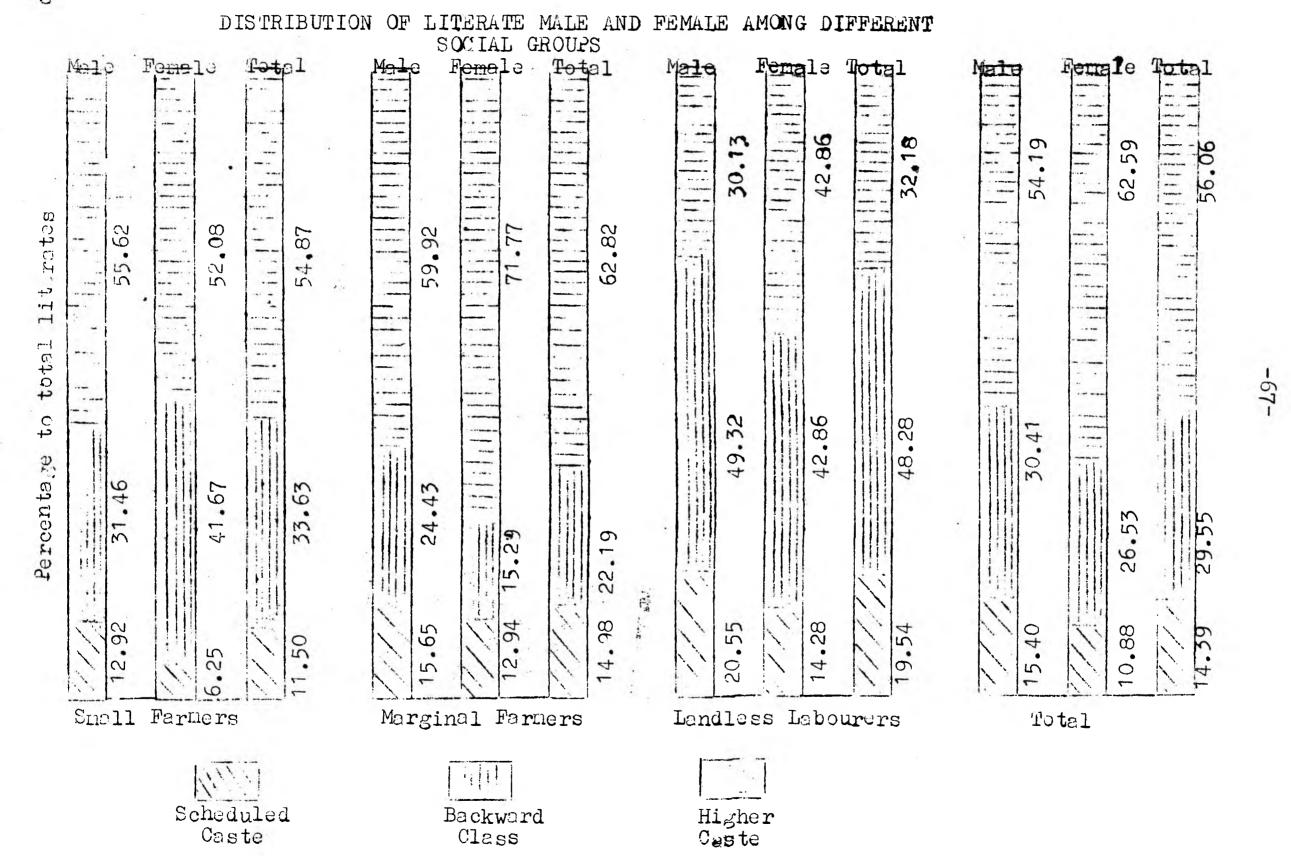
Literacy distribution of small and marginal farmers and landless labourers among different social groups is given in table 2.6. Of the total literate population, 56.06 per cent literacy was found in higher castes and it went down to the extent of 29.55 and 14.39 per cent in case of backward classes and scheduled castes, respectively. When the literacy distribution was examined separately for total female and table population under different social groups, a similar trend found earlier was visible in both the categories of population. In

Table 2.6. Literacy distribution among different social groups.

Social	Spall Farmers Male Temale Total				Marginal Farmers Male Female Total			Landless labourers Male Female Total			Total Male Female Total		
grouss	riare	Tamare	.u tal	11976	T. Chia i.	10041	Marc	T. CHIST.C	TOTAL	male	Temale.	10 ta1	
Scheduled usste	25 (12.92	3) (6.25)	26 (11.50)	41 (15.65)	11 (12.94)	52 (14.98)	15 (20.55)	2 (14.28)	17 (19.54)	79 (15.40	16))(10.88	95)(14.39)	
Backward class	56 (31.46	20)(41,67)	76 (33.63)	64 (24.43)	13 (15.29)	77 (22.19)	36 (49.32)	6 (42.86)	42 (48.28)	156 (30.41	39)(26.53	195)(29 . 55)	
Higher caste	99 (55.62	25 .(52.03)	124 (54 87)	157 (5 9, 92)	61 (71. 77)	218)(62.82)	22 (30.13)	6 (42.86)	28 (32.18)	278 (54.19	92 9)(62 . 59	37 ⁰)(56.06)	
-											Digitalist, mysteridikkist e er Gallenderen midsel		
Total	.178 (160)	48 (100)	226 (100)	262 (100)	85 (100)	347 (100)	(100)	14 (100)	87 (100)	513 (100)	147 (100)	660 (100)	

Figures in parartheses show the percentage of their respective totals.

higher castes, female population reflected more literacy than male Population, whereas the female population of backward classes and scheduled castes got lower position than the male population. The reason was that scheduled castes and backward classes could not afford to spend more on female education because of their meagre resources on the one hand, and preferred to spend some more amount on the education of male children to prepare them for some jobs; and, on the other hand, female population, from the very beginning, was forced to undertake some employment to earn something for their livelihood. In higher castes, female population got more opportunity for education due to social status and better economic conditions and male population was more particular to devote for their farm work. Female literacy distribution of scheduled castes varied from 6.25 per cent as minimum in the case of small farmers to 14.28 per cent as maximum in the case of landless labourers; while the male literacy of this social group varied from 12.92 per cent as minimum to 20.55 per cent as maximum for the same categories of farmers. Female literacy distribution of backward classes was again maximum, i.e., 42.86 per cent in the case of landless labourers and it was closely followed by small largers, i.e., 41.57 per cent; whereas, in the case of marginal farmers, it was minimum. A similar trend was noted for male population also. Higher castes showed 42.86 per cent as minimum female literacy for landless labourers and 71.77 per cent as maximum for marginal farmers. The same pattern of literacy was also found in case of male population of this group. Female and male literacy of small and marginal farmers showed an increasing trend because of the rise in social status of these groups, while the picture was not the same in case of landless labourers. On the whole, the picture of literacy was not satisfactory. Distribution of literate male and female among different social groups can be seen through Fig. XVIII.



The above discussion reveals that only 14.39 per cent of the total literates are from scheduled castes. Backward class and higher castes share 29.55 and 56.06 per cent of the total literates, respectively. In case of scheduled caste women, the condition worsens as they share only 10.83 per cent against 62.59 per cent shared by the higher castes.

Level of education:

Literacy rate alone among different social groups does not give the total picture about the skill and efficiency of the persons, but it is the level of education among the males and females of different social groups which presents a total picture. With this idea in view, details in respect of level of education have been worked out and these find place in table 2.7. Of the total educated population, 54.85 per cent was upto primary level and 22.12, 16.36 and 6.21 per cent population got their education upto middle, matriculation and above matriculation, respectively. The trained population was below 1 per cent. On examination of the total number of educated female population according to their various levels of education, 82.99 per cent were found to have got their education upto primary level and 13.61 per cent upto middle level. A very small percentage of the population of this group got their education upto matriculation and above matriculation levels; though the percentage of latter was a little higher, yet it was below the normal standards of education. This group of population could not at all participate in trainings.

In case of male educated population, the picture was considerably better and distribution of educated population at different levels was encouraging than that of the female population. Of the total male educated

Table 2.7. Level of education among different social groups

Level of	Scheduled Vaste			Back	Backward Class ·		. Higher Caste			Total		
education	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
Primary ·	33 (41.77	15)(93.75	48)(50.53)	83 (53.20)	35)(89.74)	118)(60.51)	124 (44.60)	72 (78.26)	196 (52.97)	240 (46.78)	122 (82.99)	362 (54.85)
Middle	21 (26.58	1 (6.25	22 ()(23.16)	40 (25.64)(11.26	44)(22 . 57)	65 (2 3. 38)	15 (16.30)	80 (21.62)	126 (24.56)	20 (13.61)	146 (22.12)
Matricu- lation	24 (30.38	-	24 (25,26)	25 (16.03)	25 (12.82)	57 (20.50)	2 (2.18)	59 (15.95)	106 (20.86)	(1.36)	108 (16.36)
Above matriculation	-	-	-	7 (4.49	· ·	7 (3.59)	31 (11.15)	3 (3.26)	34 (9.19)	38 (7.41)	3 (2.04)	41 (6.21)
Training	(1.27) -	(1.05)	(0.64)	(0.51)	1 (0.36)	-	(0.27)	(0.59)	_	(0.46)
Total		10 (100)	95 (100)	156 (100)	39 (100)	195 (100)	278 (100)	92 (100)	370 (100)	513 (100)	147 (100)	660 (100)

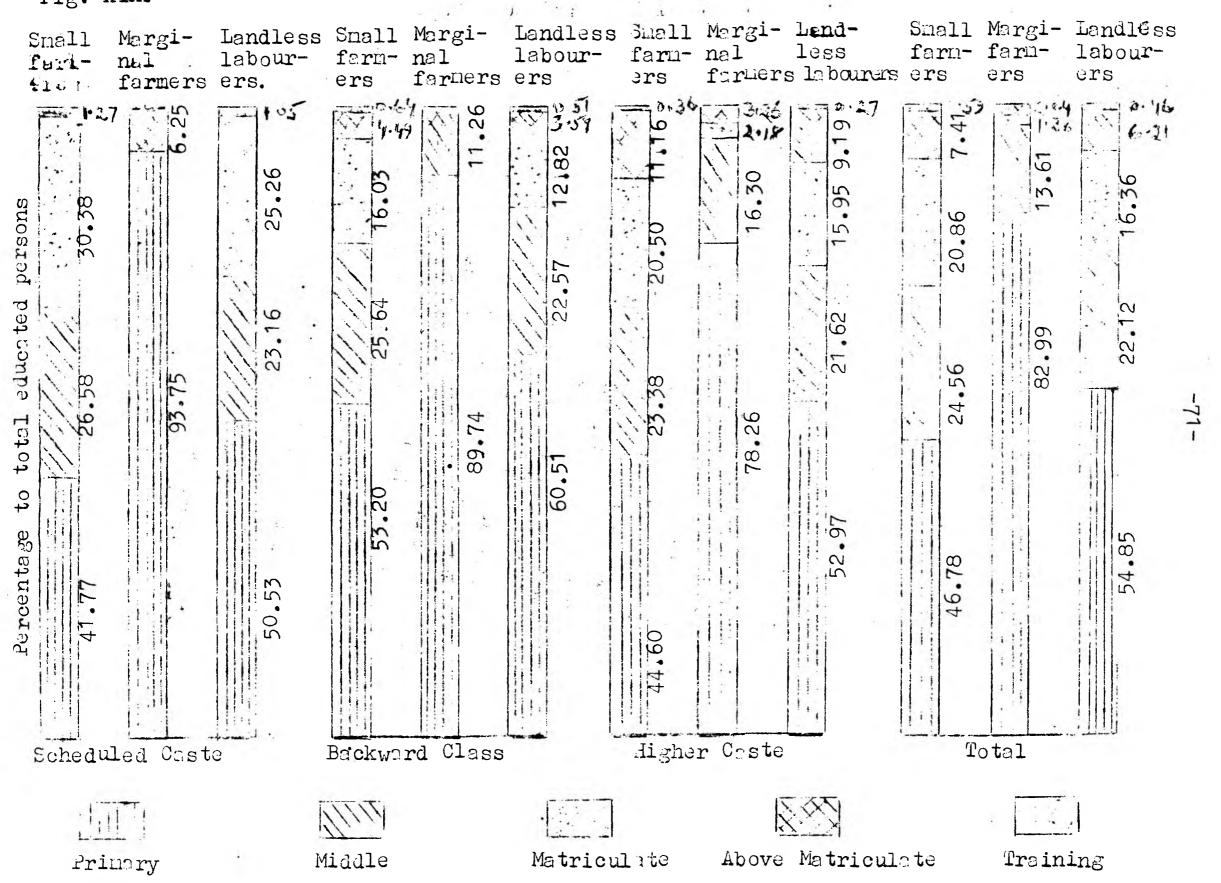
Figures in parantheses show the percentage in their respective totals.

population, 46.78 per cent got their education upto primary standard, 24.56 per cent upto middle standard, 20.66 per cent upto matriculation and 7.41 per cent above matriculation. Again, trained population of this group reflected a very disappointing picture. On crossexamination of education level under different classes, it was found that more than 73 per cent of the total female educated population was limited upto primary level; whereas, upto middle standard, it was 6.25 per cent as minimum for scheduled castes and 16.30 per cent as maximum for higher castes. After middle and above matriculation standards; there was none in case of scheduled castes and backward classes, whereas 2.18 and 3.26 per eent of the total female educated population of higher castes got their education upto matriculation and above. In case of education level of male population under different classes, the education upto primary level varied from 41.77 per cent as the minimum in scheduled castes to 53.70 per cent as maximum in backward The middle and matriculation level of edueaclasses. tion of this group was found to be 26.58 per cent as the maximum in scheduled castes. The higher castes' percentage was 11.15 of the total educated male population who received education above matriculation level.

It means that no emphasis was given to impart formal/informal education to the rural poor of this locality. Therefore, the scope of cottage and other small-scale industries was limited.

It may be noted here that the general level of education was lowest among scheduled castes as compared to backward class and higher castes. It is more significant in case of women. Among 16 literate scheduled caste women only one has jot education up to middle standard and the rest pre educated up to primary level; while, in case of backward class - out of 39 total educa-

Fig. XIX. LEVEL OF EDUCATION AMONG DIFFERENT SOCIAL GROUPS



ted women, four are middle and the rest are primary pass; but in higher castes out of 92 total literate women, 15 were middle, 2 matriculates, 3 above matriculation and the rest 72 were primary. Thus, among higher castes, the level of education was also high.

Distribution of women workers according to age-groups

The specific purpose believe locating the labour force of female workers under different categories and age-groups and to work out the number of working women per household, is to determine suitable employment opportunities based on existing availability under different categories and age-groups. In the following paragraphs, an attempt has been made to study the existing pattern of distribution of women workers according to different age-groups under different categories such as, small and marginal farmers, and landless labourers, and data in this respect is contained in table 2.3. (see also Fig. XX).

The average number of working women per household was 2.83, varying from 2.73 as minimum in the case of marginal farmers and 3.12 as maximum in small farmers. Out of total population, 30.54 per cent of the female workers were found to be in the age-group of 10-15 years, 68.60 per cent in the most active age group of 15-60 years and, probably, above 60 years of age, there were no female workers available as it indicated below one per cent. An examination of women workers under different age groups and different categories also established more or less the same pattern. One can safely conclude that school-going children in the age-group of 10-15 years alone contributed more than 30 per cent and this labour force needs encouragement for proper education to gain some more useful employment.

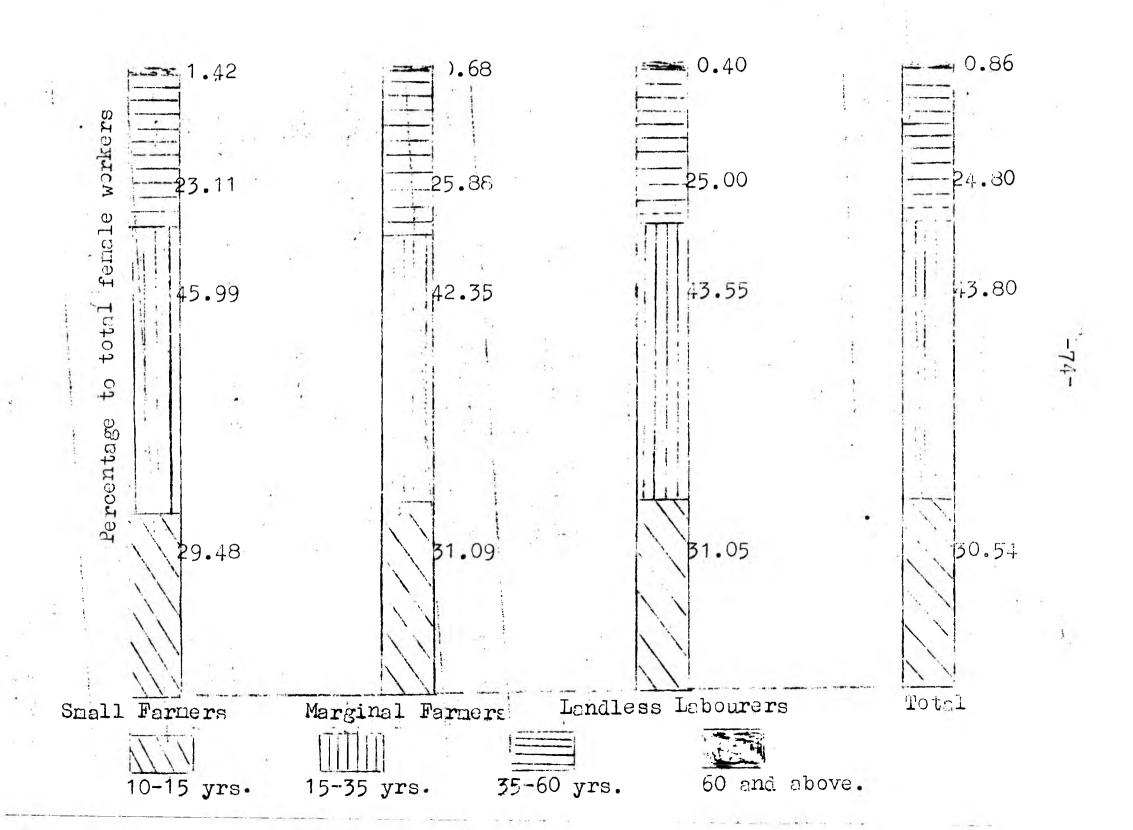
TABLE 2.3. Distribution of female workers seconding to different age-groups under different categories.

Age-group	Small farmers	Marginal farmers	Lancless labourers	Total
10-15 years	1 2 5 (29.48)	185 (31.09)	77 (31.05)	387 (30.54)
15-35 years		252 (42 .3 5)	103 (43.55)	555 (43.80)
35-60 yenra	98 (23.11)	154 (25.88)	62 (25.00)	314 (24.80)
60 and above	6 (1,42)	(0.68)	(0.40)	11 (0.86)
Total	424 (100.00)		248 (100.00)	1267 (100.00)
Number of working women per household.	_	2.73	2.67	2.83

Figures in parenthesis show the percentage of total.

Main labour force of women workers was found in the agegroup of 15-60 years. More emphasis needs to be given to a strategy of employment for this age-group.

Fig. XX. DISTRIBUTION OF FEMALE WORKERS ACCORDING TO DIFFERENT GE-GROUPS



Occupational distribution of rural women

When some socio-economic studies are conducted with various objectives, occupational distribution always provides a base to such studies. Since the main objective of the present studies is to create more employment opportunities to rural poor we have made efforts to find out the occupational distribution of rural women under different categories to observe their existing trend and concentration of employment to a particular occupation. This would provide a base to the planners to find ways and means for increasing their involvement in various occupations by providing modern technology. Data regarding occupational distribution of rural women is given in Table 2.9.

Of the total women workers, 55.59 per cent got opportunity for productive work and the remaining 44.41 per cent were engaged in household jobs, as revealed in table 2.9. The women workers of small farmers category had a little higher opportunity for productive work as they got some farm employment while this was accordingly reduced in the case of marginal farmers and landless labourers where such opportunities declined. Out of the total women working force, 74.89 per cent were full-time productive workers and 25.11 per cent were part-time productive workers. The maximum percentage of full-time productive workers was found in marginal farmers (86.69), followed by landless labourers (70.45) and the minimum percentage share went to small farmers (62.00). The main occupations of rural women were farming, wase work, tailoring, weaving and spinning, dairying and sheep & goat rearing, which engaged 29.27, 26.52, 12.84, 10.04, 4.73 and 2.65 per cent. respectively, of the total production workers.

When the occupations in different categories were examined, small farmers showed that the maximum number (63.23 per cent) was in farm, followed by wage work (16.77 per cent), and dairying, weaving and spinning, tailoring,

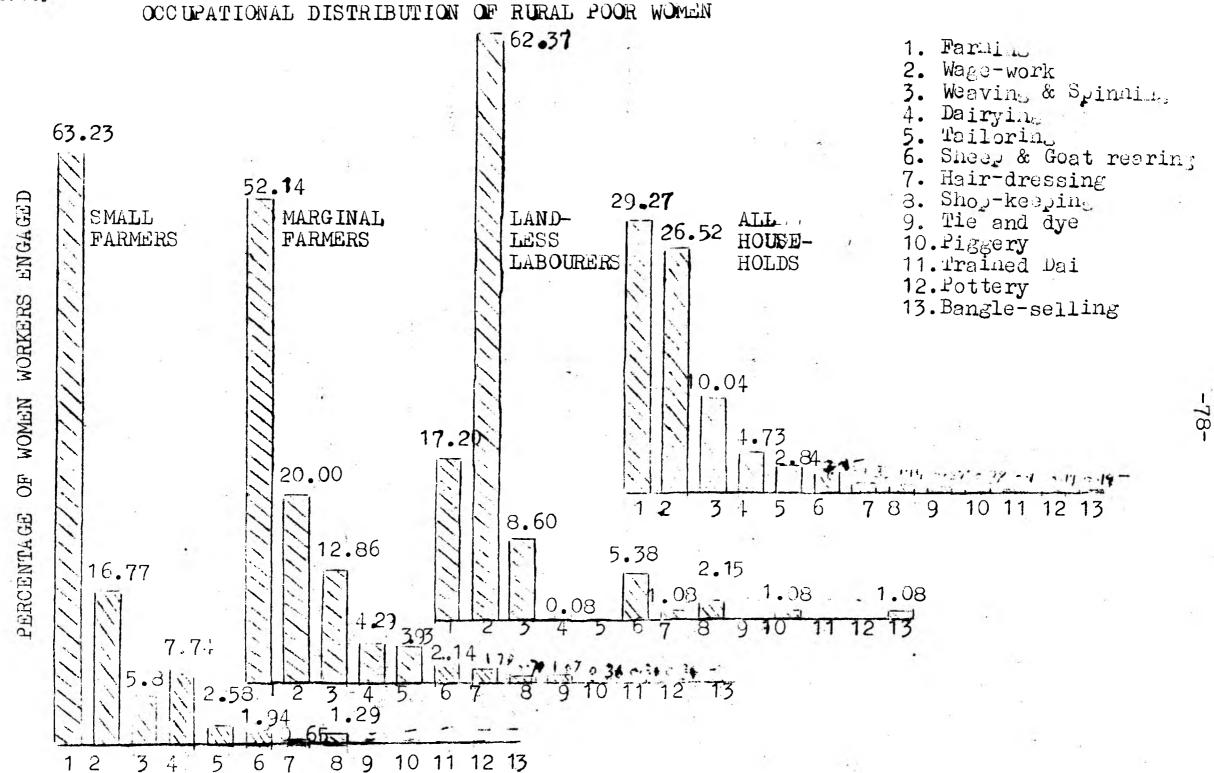
Table 2.9. Occupational distribution of rural women

Sr. No.	Occupation .	Smell Fermers	_	Landless Labourers	Total
1.	Farming	98 (63.23)	146 (52.14)	16 (17.20)	260 (29.27)
2.	Wage work	26 (16:77)	56 (20.00)	58 (62 .3 7)	140 (26.52)
3.	Weaving and spinning	9 (5.31)	36 (12.35)	8 (8.60)	5 3 (10.04)
4.	Dairying	12 (7•74)	12 (4,29)	1. (0.08)	25 (4.73)
5.	Tailoring	4 (2.58)	11 (3.93)	_	15 (2.84)
6.	Sheep and goat rearin	g 3 (1.94)	6 (2.14)	5 (5 . 38)	14 (2.65)
7.	Hair dressing	1 (0.65)	5 (1.79)	1 (1 08)	7 (1.33)
8.	The state of the s	2 (1.29)	(0.71)	(2 _• 15)	6 (1.14)
9.	Tie and dye	_	3 (1.07)	-	3 (0.57)
10.	Pisgery	¥7.	1 (0.36)	1 (1.08)	2 (0.38)
11.	Trained Dai		(0.36)	-	(0.19)
12.	Pottery		(0.36)	- '+ .	1 (0.19)
13.	Bangle-selling		<u>-</u>	1 (1.08)	1 (0.19)
14.	Poultry	-	÷		-
	Full-time Productive workers		280 (86.69)	√ 93 (70•45)	528 (74.89)
	Part-time Productive workers.	95 (38.00)	43 (13.31)	39 (29.55)	177 (25.11)
	Mainly Household workers.	· · · ·	4 1		-
	Total (Household work	(58.96) 174	(54.29) 2 7 2	132 (53.23) 116 (46.77)	705 (55.59) 562 (44.41)
	GRAND TOTAL			248 (100.J0)	1267 (100.00)

Figures in parenthemes show the percentage of their respective totals.

sheep & goat rearing, and shop-keeping were other occupations in a similar order, which engaged 7.74, 5.81, 2.58, 1.94 and 1.29 per cent of the total production workers among small farmers category. Marginal farmers' main occupation was also farming, which formed 52.14 per cent, followed by wage work (20 per cent) and weaving & spinning, dairying, tailoring, sheep and goat rearing and hair-dressing were other occupational sources according to their preference which showed 12.86, 4.29, 3.93, 2.41 and 1.79 per cent of the total productive workers among marginal farmers category. In the case of landless labourers, the maximum number (62.37 per cent) was occupied in wage work, followed by farming (17.20 per cent). Other occupations, adopted on priority basis, included weaving and spinning, sheep and goat rearing, shop-keeping, piggery, hair-dressing, bangle-selling, which showed 8.60, 5.38, 2.15, 1.08 and 1.08 per cent of the total productive workers among landle is labourers, respectively. (Fig.XXI).

From the above results, one can draw a conclusion that farming is still the most potential scope in the region to provide more employment opportunities to all the three categories of rural women. Therefore, a training of this profession, with emphasis on improved methods of cultivation, can go a long way in making them more proficient. By increasing the water use efficiency, the rural women will be more involved in agricultural operations and, thereby, increase the food production and augment family income. For providing more wage work to rural women, some of the occupations, identified according to their choice of preference, need special attention of the policy makers. However, one has to identify these occupations by integrating all the main, secondary, tertiary and other subsidiary occupations in a fashion that



the best utilization of rural working force throughout the year may be possible to improve their existing employment opportunities.

Employment level

So as to create more employment opportunities, one would be tempted to know the existing level of employment in a particular region. For this specific purpose, we have made a survey of the region so as to know the existing level of employment of rural women who played a very dominating role in household economy. The results obtained have been reported in table 2.10 and the description of the same is given in the following paragraphs.

Table 2.10. Employment level of rural women

Particulars	Small farmer:	Marginal s farmers	Landless labourers	Total
Total number of productive working	÷ .			29
days.	27840	35128	10465	73433
Total number of				
women workers (productive)	250	323	132	705
Average number of		1.2		
productive working days.	111	109	79	104

On an average productive working days of rural women of this region were found to be 104 in a year, suggesting that they were employed in different occupations for about three months in a year. An examination of the total number of productive working days of women workers in various

small farmers took the lead by snowin, 111 days, followed by the women of marginal farmers category which suggested 109 working days in a year. The rural women of landless labourers category had the opportunity of jetting themselves employed for not more than 79 days in a year.

This again established the feet pointed out earlier that farming is still providing more employment opportunities to the rural women of this region who got some more opportunity to work on the farms than the rural women of marginal farmers and landless labourers. However, farming slone cannot absorb whole of the working force of rural women, but other subsidiary occupations listed in table 2.9 also require special attention in order to increase overall employment of the rural women for improving their purchasing power.

Housing facilities

One of the economic goals of such surveys is to find out the various aspects of social uplift and the existing physical facilities for the comforts of the rural poor. Housing facilities, being the third primary need after food and clothing, need special attention. Moreover, rural women are given the major responsibility of cleanliness and proper maintenance of their houses and of keeping the requirements at proper places. In addition to this, they discharge all the work pertaining to kitchen, cooking, storage of grains and foods, including animal feeds, and disposal of garbage. These activities require educational skill and modern knowledge for doing the job scientifically and efficiently. With this specific idea, we have included this item in our study and data regarding housing facilities has been presented in table 2.11. A detailed picture can also be seen in Fig. XXII.

Table 2.11. Housing Facilities in different categories

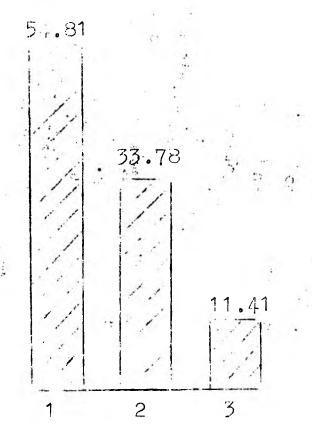
Sr. Facilities	Snall Farnars	Marginal Farmers	Landless Labourers	Total
I. HOUSING Type of dwelling				
(a) Kacha	69	101	75	245
	(50 .7 4)	(46.33)	(80.64)	(54.81)
(b) Pacca	54	84	13	151
	(39 .7 0)	(38.53)	(13.98)	(33.78)
(c) Kacha and pucca	13	33	5	51
	(9.56)	(15.14)	(5.38)	(11.41)
Total	136	218	93	447
	(100.00)	(100.00)	(100.00)	(100.00)
II. BAITHAK				
(a) Families not had	ing 112	189	86	387
Baithak	(82.35)	(86.70)	(92.47)	(86.58)
(b≬ Families having	24	29	7	60
Baithak	(17.65)	(13.30)	(7.53)	(13.42)
Total	136	218	93	447
	(100.00)	(100.00)	(100.00)	(100.00)
III. NUMBER OF ROOMS				-10
(a) One Room		25 (11.47) -	16 (17.20)	47 (1 0.51)
(b) Two-rooms	55	83	45	183
	(40.44)	(38,07)	(48.39)	(40.94)
(c) Three-rooms	46	64	23	133
	(33.82)	(29.36)	(24.73)	(29•75)
(d) Four-rooms	•	30 (13.76)	3 (3.23)	53 (11.86)
(e) More than four-		16 (7.34)	6 (6.45)	31 (6.94)
Total	136	218.	93	447
	(100.00)	(100.00)	(100.00)	(100.00)
IV. KITCHEN				
(a) Indoor		144 (66.05)	70 (75 . 27)	318 (71.14)
(b) Outdoor	(23.53)	7 4 (33.95)	23 (24.73)	129 (28.86)
Total	136	218	93	447
	(100.00)	(100.00)	(100.00)	(100.00)
		****	cont	d

(Table 2.11 contd...)

totals.

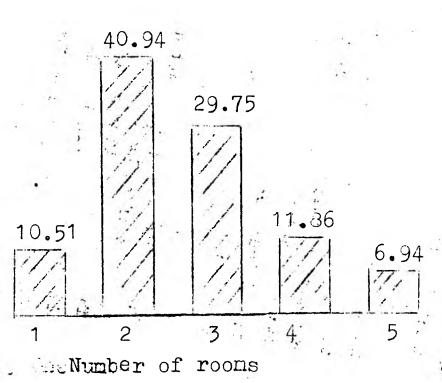
Sr. No.		Facilities .	Small Farmurs	M rginal Formers	Labourers.	To tal
V.	COOK	ING FACILITIES			1	
•	(a)	Earthen Chulha	136 (100.00)	218 (100.00)	93 (100 . 00)	447 (100.0
	(b)	Hara	12	25 (11.46)	6	43 (9.6
	(c)	Tandoor		20 (9.17)	8 (8.60)	37 (8.2
	(d)	Kerosene stove	15 (11.02)	13 (5.96)	4 (4.30)	32 (7.1
is a seen	(e)	Smokeless chulha		-		-
a ,	(f) (g)	Angithi Portable Gobar Gas	- -	- ,	-	
		Total	136 (100.00)	218 (100.00)	93 (100.00)	447 (100.0
VI.	GROU	ND AND DRAINAGE				
31 to 1	Drai Type	ns in home	96 (70.58)	139 (63.76)	57 (61.29)	292 (65.3
		Kacha	58 (60.42)	98 (70.51)	55 (96.50)	211 (72.2
	(b)	Pucca	38 (39.58)	41 (29.49)	2 (3.50)	81 (2 7. 7
•		pits ic Tanks		- -	-	-
		r Supply – adequate	102	130 (59.63)	42 (45.16)	274 (61.3
	Wate	r supply - inadequate	e. 34 (25.00)	88 (40.37)	51 (54.84)	173 (38.7
م ما مساورون د		Total	1.36 (100.00)	218 (100.00)	93 (100.00)	44 ⁵ (100•

HOUSING FACILITIES FOR THE RURAL POOR (Percentage of households)



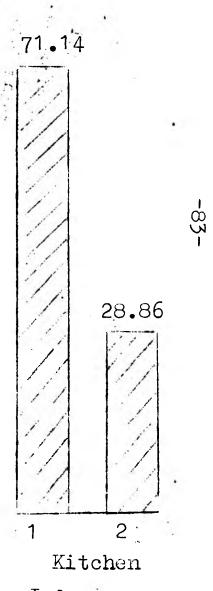
Type of dwelling

- 1. Kacha
- 2 Pucca
- 3. Kacha & Pucca



One room 4. Four room

- 2. Two rooms 5. M
- 3. Three rooms
- 4. Four rooms
 5. More than four rooms
- 1. Indoor
- 2. Outdoor



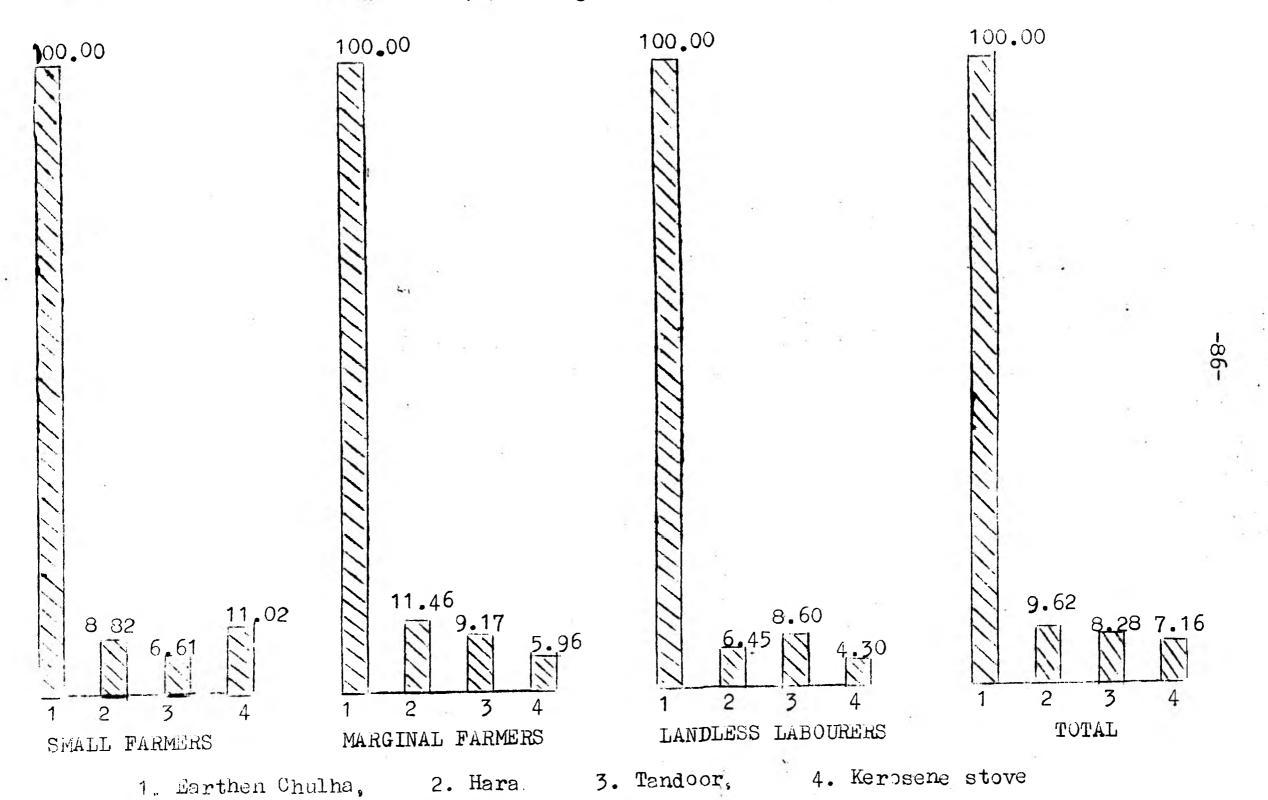
of the both 447 households, 54.81 per cant had kache houses and 33,78 pur cent households onuld manage to construct pugga houses and the remaining 11.41 per cent househojds depended on mixed kacha and pucce houses. When the situation of kacha and pucoa houses was examined under different categories of fermurs and labourers, the percentage of households having pucos houses declined from 39,20 per cent for small farmers to 13.98 per cent for landless labourers, suggesting that the availability of pucca houses declined as the financial status of the households went down. Amost a reverse trend in case of households who had constructed kacha houses, wes found except that the number of houses of marginal farmers were a little less than the households of small farmers, but a sharp decline was noticed in the case of landless labourers. Households falling under the category of marginal farmers took the lead in constructing kacha and pucca (mixed) houses, i.e., 15,14 per cent, whereas the minimum number of households, i.e. 5.38 per cent was found in the case of landless group.

Facilities of drawing room, commonly known as 'Baithak' in the villages were limited. Of the total households, 17.65 per cent of small farmers only could afford to have such facilities and it went down to the extent of 7.53 par cent in the case of landless labourers. Possession of two-room set was with 40.44 per cent households of small farmers, and as the number of rooms increased, this percentage declined and 6.62 per cent households only had more than four rooms. similar trend of such facilities we salso noticed for the households falling under the categories of marginal farmers and landless labourers. However, nearly 50 per cent of the households of landless labour is had only two-room sats. Of the total households, 71.14 per cent had their indoor kitchen, whereas 28.86 per cent households were found maintaining their outdoor kitchen, and marginal farmers depended mainly on outdoor kitchen facilities as compared to small farmers and landless labourers. In all the three of tegories, all the households had sarth on chullah but a few also kept kerosene stoves. The number of such stoves was maximum with small farmers and minimum with landless labourers. In addition to these facilities, some households also managed 'Tandoor' and 'Hara - a

spicial local cooking structure ment for the properation of tandoori chapati. (For details see Fig. XXIII).

preimage and water-supply systems were also examined and it was found that 65.32 per cent of the total households had drains in their houses, of which 72.26 per cent had kacha drains and 27.74 per cent had puck drains. Landless labourers mostly depended on kacha drains whereas 39.58 and 24.49 per cent households of small and marginal formers, respectively, managed to construct 'puck' drains. Of the total households, 61.30 per cent households had adequate wat a supply whereas still 38.70 per cent had inadequate wat a supply system. In case of small farmers, 75 per cent households had adequate water supply and this percentage declined to 45.16 per cent in the case of landless labourers.

From the for going discussins, one on observe that still two-third population of this region resided in kacha hous sand incurred lot of expenditure on their maintenance. As a matter of fact, mejority of them were willing to construct pucor hous s, but the availability of desired initial capital for constructing such hous a was a limiting factor. Housing facilities were far below their requirements, as about 50 per cent of the total landless households managed to live together in a set of only two rooms for all purposes. Kitchen being th primary need for cooking mosts was assayailable inside the house in all the coses and about 30 p cantwer having their kitchen in the open. Drainag and water supply systems also needed improvement, as nearly 72 per cent households had keep drains. Even adequate water supoly was not possible for bout 40 pr cent of the households covered under the survey. In order to provide them with these minimum facilities so as to ensure their reasonable standard of life, proper education and availability of funds would be required.



Storag facilities

Storage is a big problem among rural poor. After putting a lot of labour, capital and management, some things are produced or collected by this section of the society for immediate consumption and to meet the future requirements. Many times, due to lack of scientific and modern storage facilities, thy suffer a growt loss in their existing storage system. Sometimes, cooked foods are spailed and become unhygienic as rural poor don't have proper ficiliti s to store these in a cool place. During plak s sons when they are extremaly busy till late hours, they cook their mals early morning and keep it for whole-day consumption with them at the farm sits where they are at work. Water is inadequate and only a few wells are found fit in the villages for taking water, particularly for drinking purposes. For fetching water, they cannot go very frequently as these wells are generally locat dat some distance. They have to store water in earthen pitchers. To determin the existing facilities of storage, an attempt has been made and date collected on different methods of storage for grains, cooked foods and water, which are the most important items to be stored by rural families, are given in table 2.12.

Of the total households, 72.48 per cent were dependent on gunny bags for storing their grains. When the position was examined separately for different actegories of households, it was between 71 to 73 per cent in all the cases. The second important method of grain storage in this area were carthen pitchers, which were used by 25.5 per cent of the total households. However, the use of these pitchers was maximum (35.48 per cent) in the case of landless labourers, followed by small farmers (27.21 per cent) and marginal farmers (20.18 per cent). The third important method was found 'kuthla' or 'kothi' - a special type of sarther storage structure used for storage of grains. 21.70 per cent of the total households were using it. Its use was maximum (30.88 per cent) with small formers, followed by marginal farmers (23.39 per cent), and minimum (4.30 per cent) and minimum (4.30 per cent).

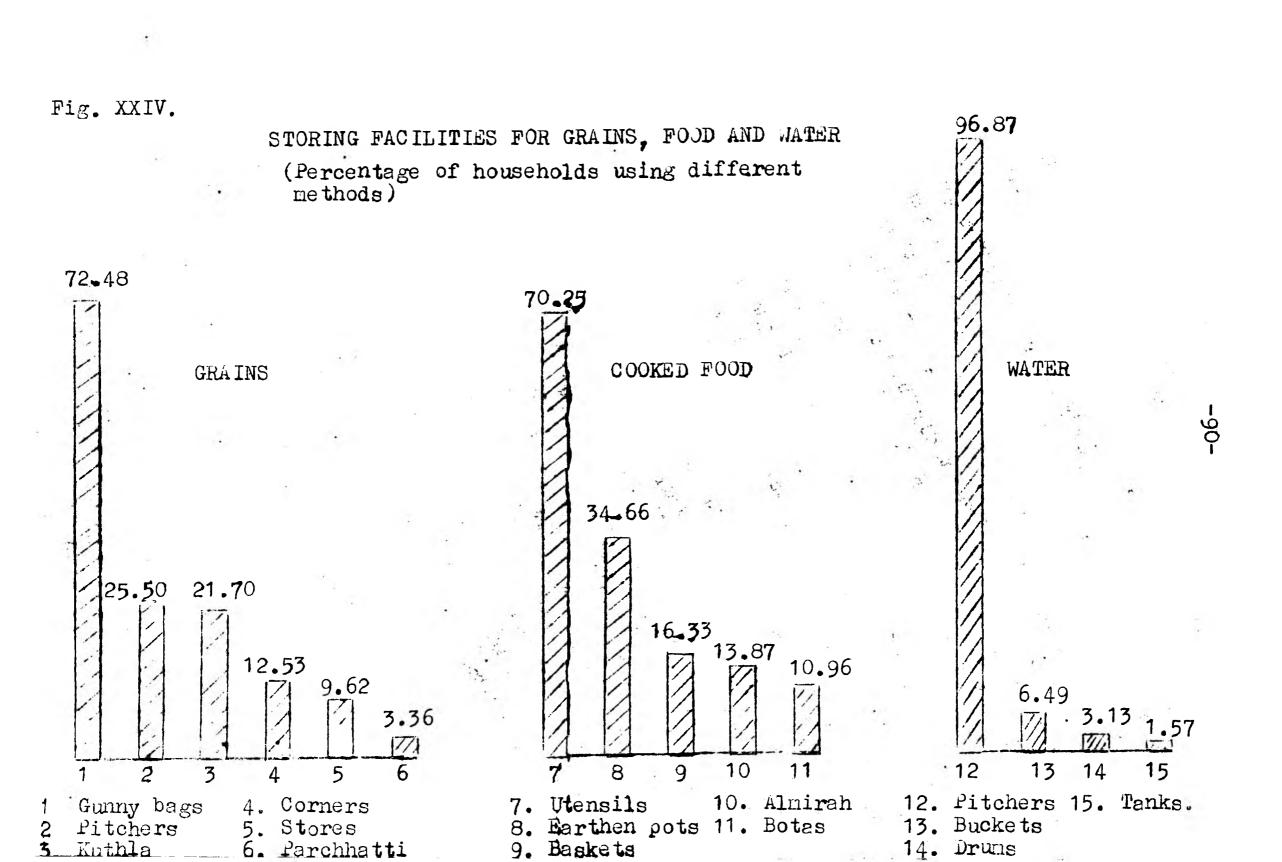
Table 2.12. Storing facilities for grains, food and water

Sr. Method .	Small Farmers	Marginol Farmers	Landless Labourers	Total
1. Grains	,	i n		
(a) Gunny bags	99 · (72•79)	159 (72.94)	66 (70.97)	324 (72.48)
(b) Pitchers	37 (27.21)	44 (20.18)	33 (35.48)	114 (25.50)
(e) Kuthla and Kothi	42 (30.88)	51 (23.39)	(4.30)	97 (21.70)
(d) Corners	18 (1 3. 24)	32 (14.68)	6 (6.45)	56 (12 . 53)
(e) Stores	23 (16.91)	18 (8.26)	2 (2 . 15)	43 (9.62)
(f) Parchhatti	5 (3 . 68)	8 (3.67)	2 (2.15)	15 (3.36)
2. Cooked food				
(a) Utensils	125 (91.91)	134 (61.47)	55 (59 . 20)	314 (70.25)
(b) Earthen pots	35 (25.75)			
(c) Baskets	24 (17•65)	39) (17.89)	10 (10.75)	73 (16.33)
(d) Almirah	23	33	6 (6.45)	62
(c) Botas	16 (11.76,	23 (10.55)	10 (10.75)	49 (10.96)
3. Water				
(a) Pitchers	131 (96.32		84 (90 . 32)	(96.87)
(b) Buckets	23 (16.91) (1.83)	2 ^t) (2.15)	29 (6.49)
(c) Druns	14 (10.29		4 - 1	14 (3.13)
(d) Tanks	4 (2.94) (0.92	1 (1.08)	7 (1.57)

Figures in parentheses indicate the percentage to total number of households in each category.

cent) in the case of landless 1-bourds. The fourth important method of grain storing was identified as corners of the houses which stored 12-53 per cent of the total households varying from 13.24 per cent as the maximum for small farm rs, 6.45 per cent as the minimum for landless labourers. Grain stores were limited to 9.62 per cent of the total households and that, too, showing a sharp decline from 16.91 per cent for small farmers to 8.26 per cent for marginal farmers and 2.15 per cent for landless labourers, suggesting that as the sconomic status is reduced, such facilities were also reduced as they could not afford to spend on separate stores to be used for grains.

Gook of foods were kept mostly in utencils which covered 70.25 per cent of the total households and 91.91 per cent households of small farmers dop noted on such facilities, while 61.47 and 59.20 per cent nousthelds of marginal formers and land ass labourers, respectively, used this device. Earthon pots were the next important mothod and source for keeping cooked foods and 34.66 per cont of the muscholds depended on this method, but landless labour are depended on this method up to an extent of 46.24 per cent while 25.75 per cant of the small farmer hous holds also wied this davice. Many of them also used backets which reflected 16.33 per ont of the lous holds. Almost the sime percentage wers also found in to come of small and marginal farmers, but it was reluced to 10.75 per cent in the case of land asslabour as. Some of the householis used almirah bust - it was to the xtent of 13.87 pr cent, ranging from 16.91 per cent in stall fam is to 6.45 per cent in landless libour rs. But s (pap ar mashi product) also were used by 10.96 per cent households and there was not significant difference in this system who a bous holds of small and marginal farm as and landless l-bour as were compared separately.



Water storing was done mostly in pitchers which was prevalent in 96.87 per cent of the households in the region. Buckets, drums and cemented tanks were other devices for storing water and accounted for 6.49, 3.13 and 1.57 per cent of the households. Fig. XXIV presents detailed picture of storing facilities for grains, food and water available to the rural poor.

One can conclude that storage facilities with rural poor were of traditional nature and provided more chances of frequent losses. In this modern age, majority of the households used—gunny bags for grain storage. Still cooked foods were kept in earthen pots by about 35 per cent of the households and nearly 97 per cent-households were using pitchers for water storage. These storage facilities require to be improved upon from both the angles to avoid the considerable economic losses and unhygienic methods of food and water storage for sound health. Proper education through trainings would be required.

San Land

Problems of house rats and pests

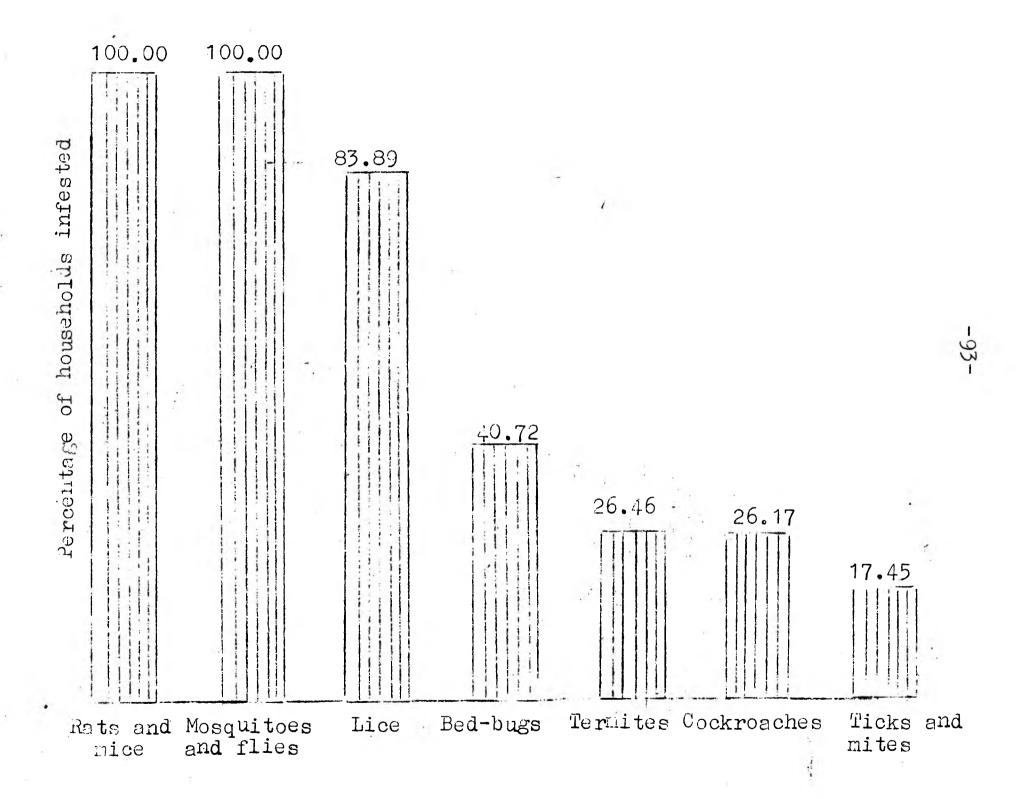
Due to traditional existing facilities of grain storage, rural poor always face lot of problems due to rate and pests. A considerable damage to their grains and food articles is being done due to rate and pests attack. To study the types of pests found in the houses of poor ones for taking necessary measures, informations were collected and the same are presented in table 2.13. Fig. XXV shows the poor households infested with house-rate and pests.

It was observed during the investigation that in all the houses rats were found and all the households were also infested by mosquitoes and house flies. Mice, bed bugs, termites, cockroaches and ticks and mites were also found with many of the households. Details of the number and percentage of households who faced problems of these pests can be seen in table 2.13. The problems of termites, cockroaches and ticks and mites were reported more in case of small farmers than the marginal farmers and landless labourers.

Table 2.13. Problems of house-rate and pests in different categories

	A. 1, 1, 1, 1		der of house	use lolds)		
Sr. No.	Particulòrs			laudlass Lagurars	Total	
	ts and mice			93 (100.00)	(100.04	
	squitoes and lies	136 (100.00)	210 (100.00)	93 (100.00)	447 (100.00	
3. Li	ce	115 (84.55)	175 (80.27)	85 (91 .3 9)	375 (8 3. 89	
4. Be	d bugs	71	72 (33.02)	39 (41.93)	182 (40.72	
5. Te	rnites	48 (35 . 29)	51 (23.39)	19 (20.43)	118 (26.40	
6. Co	ckroaches	49 (36.02)	57 (26.14)	11 (11.82)	11 7 (26.17	
7. Ti	cks and nites	25 (18.38)	39 (17.88)	14 (15.05)	7 8 (17•45	

Figures in parentheses show the percentage of total number of households in each category.



All these observations established that there is a considerable scope to undertake some timely premutions to protect the rural poor from these insects and pests, to keep them healthy and provide better working conditions.

Water supply and garbage disposal

For keeping rural poor healthy and protecting them from epidemics, pure water supply must be ensured and should be free from contaminations. In the villages, mostly out-breaks of epidemics are found through water and unscientific disposal of garbage. From this point of view, it is important to study the existing situations in this area. Therefore, information on different sources of water supply and modes of garbage disposal was collected and is compiled in table 2.14.

An interesting observation was made that still 69.35 per cent of the total households used tank and canal water whereas this varied from 65.44 per cent in small farmers to 74.19 per cent in landless labourers. Wells are another important source which accounted for 68.00 per cent of the households who used water for drinking purposes. Hand pumps were used by 32.66 per cent of the total households, ranging from 35.29 per cent as maximum for small farmers and 22.58 per cent as minimum for landless labourers. The most perfect system of water supply in the villages was found to be taps, but it covered hardly 8.50 per cent households ranging from 6.61 per cent for small farmers to 9.67 per cent for landless labourers, as they wanted water mostly for their drinking purposes whereas small farmers also wanted more water for their animals, which was not possible through this source to meet their entire requirements.

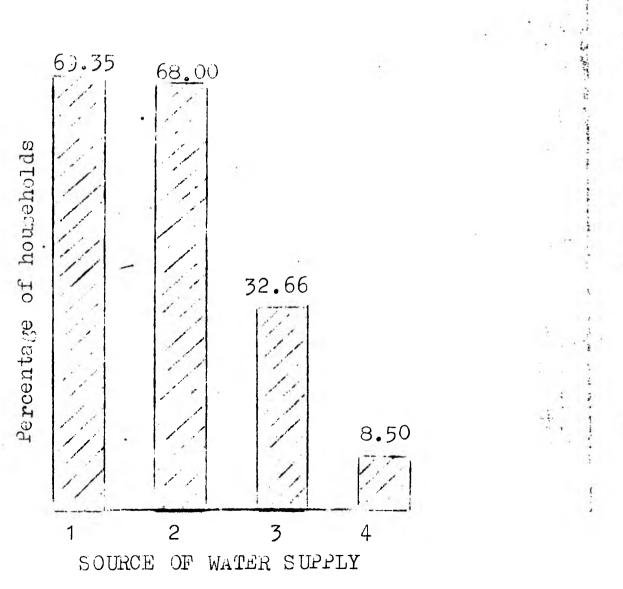
Disposal of garbage gave a pitiable situation when 82.55 per cent households left it scattered in open around their houses and it was found with more than 90.00 per cent households of landless labourer groups. Garbage used for manuring purposes was found with 57.00 per cent of the households. This

Table 2.14. Sources of water supply and mode of garbage disposal among different categories of households.

(Number of households) Sr. Marginal Landless Suall Perticulars Total No. Farmers Formers Lobourers I. Sources of water supply (a) 69 Tanks and canals 89 152 310 (65.44) (69.72) (74.19)(69.35)(b) Wells 80 153 304 (58.82) (70.18) (76.34)(68.00)(c) Hand-pumps 21 48 146 (35.32)(22.58)(35.29)(32.66)(d) 9 (6.61) Taps 20 38 (9.17)(9.67)(8.50)II, Garbage disposal (a) Scattered . 107 178 84 369 (78.67) (81.65) (90.32)(82.55)(b) Used for 100 112 16 228 (73.52)(51.37)(17.20)manuring (51.00)(c) Fed to animals 16 15 (11.76)(6.88)(1.07) (7.16)3 (1.57) Burning and (d) (8.60) burrying (2.46)

Figures in parentheses show the percentage of the total households in each category.

SOURCES OF WATER SUPPLY AND MODE OF GARBAGE DISPOSAL AMONG POOR HOUSEHOLDS

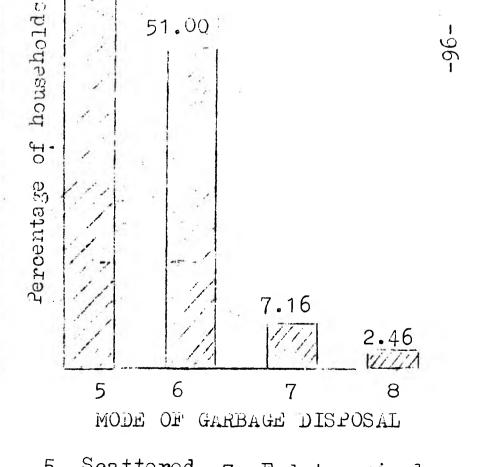


1. Tanks and canals

2. Wells

3. Hand-pumps

Used for 4. Taps



51.00

5. Scattered

nanurina

7. Fed to animals 8. Burnt and burried

farmers, i.e. 73.52 per cent, whereas it acclined to 17.20 per cent in case of landless labourers. The small farmers used to feed some of the refuge to their animals whereas landless labourers kept piggeries and left garbage around their houses. It was fed to animals by 7.16 per cent of the total households with a maximum of 11.76 per cent small farmers. Only 2.46 per cent households showed practice of burning and burrying and this was more common with only households belonging to landless labourers. Sources of water supply and mode of garbage disposal among the poor households are presented in Fig. XXVI.

A deep thinking needs to be generated about the water supply and disposal of garbages among the rural poor. This could be only possible when systematic efforts are made to educate them on various aspects of advantages and disadvantages of making quick disposal of garbages.

ROLE OF WOMEN IN DECISION-MAKING:

From time immemorial man has lways imposed his superiority over the woman. The modesty, tolerance and patience of women were taken otherwise and misinterprited. However, with time, values changed and the society gave due importance and respect to the women. Now in every sphere of life - political, sociological, administrative etc. - women have started playing definite role, particularly in cities. However, it is tragic that the rural women still have the deplorable condition as the major share in making certain important and fundamental decisions goes to the man, even though they work with diligence in the house as well as in the fields. Table 2.15 reflects the role of woman in decision-making in family matters.

Table 2.15. Rale of rural wamen of different categories in decision-making on various household issues. (Number of households)

Porti-	SIMLL	FARMERS				INAL FA					LABOURE			GRAND		
ulars	Mole	Penale	Both	Total	Male	Femalo	Both	Total	Male	Fenal	Both	Total	Male	Fenale	B ₀ th	Total
ducatio	n			476	1'07 /	<u></u>	30	210	70	1	1 7	27	257	16	7.4	4.47
(a) Boys	$-\frac{104}{(75.47)}$	10 7.35)(16.18)	(100)	(79 . 82)(2.29)	(7.89)(100)	(84 . 94	.)(1.08)(13.98)(100) ₍₇	79 . 86)	(3.58)(16.56)	(100)
		10 (7.35)														
Marris	2			. 3				* * *				* :	.*	40	4	- 1
(a) Boys	82 (60.23	10))(7•36)(4) 32.35)	136 (100)	138 (63.30	8)(3.67)	72 (33. 03	218 (100)	64 (68.82	1 (1.08	28)(30.10)(130)(e	284 53.53)	19 (4.25)(144 32.22)	447 (100)
(b) Girl	.s 82 (60.29	10) (7.36) (44 32.35)	136 (100)	138 (63.30	8)(3.67)	72 (33.03	218 5)(100)	64 (68.82	1 ?)(1.08	28)(30 . 10)(100)(6	284 53.53)	19 (4.25)(144 32.22)	447 (100)
Househol expendi- ture	<u>-d</u> 89 - (65.44	10 -)(7.35)(37 [2 7 . 21]	136 (100)	152 (69.72	8)(3.61)	58 (26.61	218)(100)	73 (78.49	1 9)(1.08	19)(20.43	93)(100) ⁽ (7	31 4 70.25)	19 (4.25)(114 25.50)	447 (100)
Purchase	2			. •• ••		3	. 3	(E)	·				,			
of Agril assets, machiner	10) (77 01	6)(4.41)(25 18.38)	136 (100)	176 (80.74	6)(2.75)	36 (16•51	218)(100)	82 (88.17	1 ')(1.08	10)(10.75	93 (100)(8	363 31.21)	13 (2.91)(71 15.88)	447 (100)
	e parameter		~ .					2	4	•		t -				
Borrow- ings	105 (77.21	6)(4.41)(25 (13 .3 8)	136 (100)	173 (79 .3 6)(2.29)	40 (18.35	218 5)(100)	82 (88.17	1(1.08	10)(10.75)(100)(8	360 30.54)	12 (2.68)(75 16.78)	447 (100)
Sale of assets/	105 (77, 21	6)(4.41)(25 (18, 38)	136	1 7 3 (79.36	5	40 (18.35	218 (100)	82 (88. 17	1	10)(10-75	93	360 80 54)	12 (2.68)(75 16 78)	447
grains, livestoc		ノ ヘサ• 'チ 「 ノ \	,10•20,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\13.JU	/\~•CJ/	、 1○•	, , (, 00)		7(1.00	/ (I U •	,,,,,,,,,	JU • J4 /	(2,00)(10.707	(100)
nilk and	l					· (*										

Figures in parentheses show percentage of their respective totals.

It is evident from the data given in the table that very few rural poor women played a role in decision making Their involvement in the sale of assets and loans/borrowings was only 2.68 per cent and in the marriages and household expenditure, it was only 4.25 per cent. With regard to the education of children, they had only 3.58 per cent share in having their children educated. Only in 2.91 per cent of the total families surveyed, women took part in the decision on purchase of agricultural assets and machinery, while, on the other hand, males had the dominant role in every issue. They had their share 63.55%, 70.25%, 79.86%, 80.54%, 81.21% in making decisions in respect of marriage, household expenditure, education, loans/ borrowings and sale of assets and purchase of agricultural assets, respectively. It can be easily derived that, in marriage, both male and female, play their roles; the percentage found is 32,22%, while in loans/ borrowings, sale of assets, purchase of agricultural assets and education, it is round-about 16%. · household expenditure, both male and female share the percentage to the tune of 25.50%: So, we can say that women play their role in settling the marriage of their children and household expenditure comparatively better, while in the purchase of agricultural assets, education of children, loans/borrowings and sale of assets, men totally out-numbered females and there is very little or negligible say of women folk.

Females belonging to small farmer's group have comparatively better say in all the listed issues against marginal farmers and landless labourers. About 7.35 per cent of the females had their share in making decisions independently about the education and marriage of their children, and in household expenditure; while in the purchase of agricultural assets, loans/borrowings and

sale of assets, it was only 4.41 per cent in cast of small farmers' group. Women of marginal farmers group had very little share in making decisions independently it ranged from 2.29 per cent in education, loans/borrow and sale of assets to 3.67 per cent in case of marriag. In the third group, independent decision was made by 1.0 per cent of the women in each issue. Viewing the patter critically, it can be asserted that landless labourers still cling to the dogma that women should not be allow to take independent decision but as the land grows, i.e. in case of marginal farmers and small farmers, the share of women increases in making certain decisions.

It is only the marriage of their children and house hold expenditure where women are consulted or they take independent decisions as compared to other issues in which their role is negligible.

Willingness of women for training

Different extension programmes like magazines, newspapers, radio etc. have enlightened the women folk and have created a good scope for different trainings, short-term courses and other medias. As mothers are the principal architects of the future generation and civilization starts from home by the sweet kisses of mother and affection of father, it is of utmost importance to impart necessary training and education to the rural women. Another important aspect which needs to be given more emphasis is the training on crafts and other trades so that the economy of the family can be sound.

In table 2.16, an attempt has been made to quantify the number of women interested in different kinds of traings and trades. Most of the women, i.e., about 44.74 percent, opted for cutting and tailoring and next in line was knitting which attracted as many as 17.27 per cent women; at the toe of this was embroidery which had 15.51 per cent of women interested, followed by spinning and weaving in which 11.01 per cent of the women were eager to take training and trades.

Table 2.16. Willingness of women for training in different trades.

Sr. No.	Particulars	Small Farmers	Marginal Farmers	Landless Labourers	Total
1.	Cutting and tailoring	130 (95.59)	202 (92.66)		416 (9 3. 07)
2.	Knitting	58 (42.65)	69 (31.65)	33 (34.41)	160 (35.79)
3.	Embroidery	45 (3 3.09)	68 (31.19)	31 (33.33)	144 (32.21)
4.	Spinning and weaving	26 (19 . 12)		29 (31.18)	102 (22.82)
5.	Cane work	10 (7 . 35)	20 (9.17)	10 (10.75)	40 (8.95)
6.	Leather work	4 (2.94)	·10 (4.59)	4 (4.30)	18 (4.03)
7.	Papier mashie	8 (5.88)	7 (3.21)	1 (1.08)	16 (3.58)
8.	Food processing	5 (3.68)	8 (3.67)	(3.23)	16 (3.58)
. 9.	Toys and doll- making	1 (0.74)	(3.67)	(1.08)	10 (2.24)
10.	Vegetable growing		2 (0.92)	<u>.</u>	2 (0.45)
11.	Dairying	1 (0.74)	<u>.</u> <u></u>	.1 (1.08)	2 (0.45)
	Total		218	93	447
•	Type of help need	led:			* ;
(a)	Financial	102	164 (75.23)	86 (92.47)	352 (78.75)
(b)				93 (100.00)	

Figures in parentheses show the percentage of the respective total households.

ing. Very small percentage was to have training in food processing, toys and doll-making, vegetable growing, papic mashie, cane work, leather work and delrying.

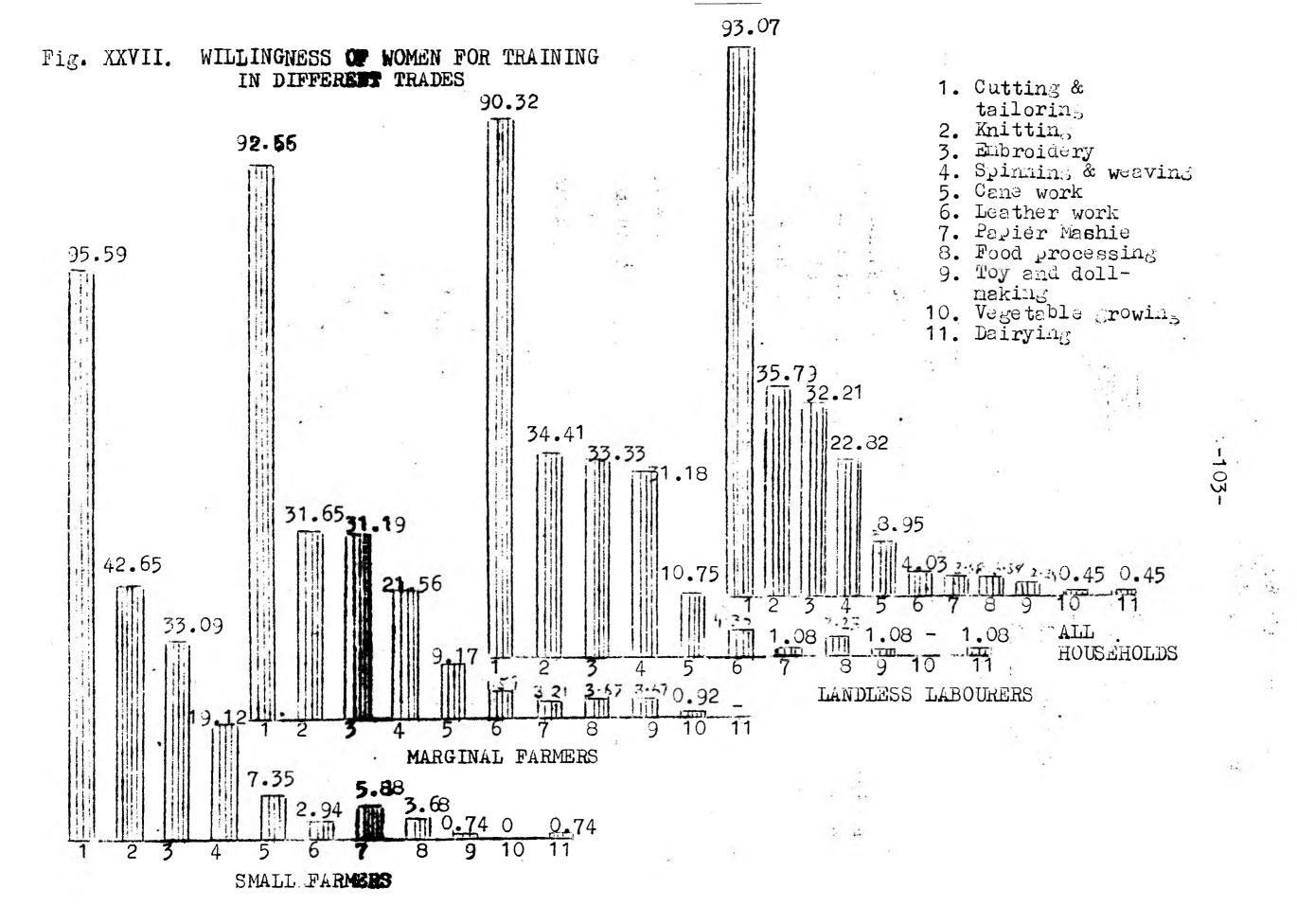
Most of the women belonging to small farmers group wanted training in cutting and tailoring, followed by knitting and embroidery the percentage which opted for these was 45.18, 20.63 and 15.63 respectively, closely followed by spinning and weaving. Almost the same trend was observed in marginal farmers and landless labourers group. Landless labourer women also showed a good interest in cane work. Willingness of poor women for training in different trades is shown in Fig. XXVII. It was observe that women were reluctant to have financial help. 78.75 per cent of the women gave their consent for it, while almost all the women opted for technical help. case of small farmers and landless labourers group, \$00 per cent of the women wanted technical help, followed by 99108 per tent of the marginal farmers group. On the other hand, the financial need was most felt by landless labourers group while, in small and marginal farmers group, only 75 per cent of the women wanted financial he]

It can be asserted that most of the women wanted their trainings for cutting and tailoring, knitting, embroidery, spinning and weaving, which shows a clear tendency of women coming out of the traditional old trades of cane work etc. and they want to be technically sound as well.

CONCLUSIONS AND SUGGESTIONS

Conclusions

Indian woman is the nerve centre of the family. In the villages, the woman contributes to production by heling her husband in the fields, shapes the home and looks after the welfare of the family but, unfortunately, she is being ignored while making family decisions and is no being given dueshare in the household facilities and oth social amenities.



1

The present study has revealed that about 55 per cent of the families of rural poor were nuclear, even then the average size of the family was 7.6 which seems to be a larger unit due to poverty. Further, it was observed that the sex ratio of the poor population was higher, i.e., 937 females per thousand of males as against the district average of 862.

An important finding also indicated that among scheduled castes and higher castes, the nuclear families were comparatively more than the backward classes. Further, among scheduled castes disintegration of joint families into nuclear ones with the decreasing of assets was observed as more common.

Study of the composition of families of small and marginal farmers and landless labourers, according to the age of the members, showed that as the poverty of a family increased, the age of the female members decreased. Infants constituted nearly one-ninth of the total population, while children of school-going age were a little more than two-third and the population of working age-group accounted for nearly 54 per cent of the total population. With regard to literacy rate, the position worsened as the poverty increased. Scheduled castes shared only about 14 per cent of the total literates as compared to nearly 30 per cent by backward class and 56 per cent by the higher castes. Literacy among the women was rather disappointing in comparison to men. In the case of scheduled caste women, it was even worse. The level of education varied according to the social status of the people. It was more true in case of women.

Distribution of female workers according to their age-groups revealed that a little more than 30 per cent of the female work force was constituted by girls between the age of 10 to 15 years. Occupational distribution of the rural women showed that about 56 per cent of the working women were engaged in productive work other than household work. Main occupations of women were farming,

wage work, tailoring, spinning and weaving, dairying, sheep and goat rearing etc. Landless women were mainly engaged in wage work, farming, spinning and weaving, sheep and goat rearing etc., whereas majority of the women from small and marginal farmers' families were engaged in farming followed by wage work. Level of productive employment of the poor women was worked out to be as 104 days on an average. However, this level was decreasing from 111 days in case of small farmers to only 79 days for the landless women.

As far as housing and household facilities were concerned, most of the houses in this area were found to be made of mud, and only 34 per cent-of the houses were pucca ones. About 70 per cent of the houses were of two to three rooms. More than 10 per cent of the total houses contained only one room. Around 29 per cent of the families had out-door kitchens only. Common cooking device in this area was earthen chulha which was used by almost all the households. Kerosene stove and tandoor were used only by a few households. Smokeless chulha, angithi and gobar gas were found totally absent. Drinking water supply and drainage systems were found adequate for about 51 and 65 around of the households, respectively. Most of the drains were kacha.

Methods of storing grains were mainly gunny bags followed by pitchers and kuthla/kothi. For storing cooked foods, metallic utensils, earthen pots and baskets were being used. Water for drinking purposes was mostly stored in pitchers. All these methods were not scientific and hygienic. As a result, all houses were infested with rats and mice, mosquitoes and flies. Further, lice, bed bugs, turmites, cockroaches and ticks and mites were also commonly found in these houses. Main sources of water supply in the villages were tanks/ponds, canals and wells. Only a small portion of the poor population were provided with tap water and water through hand-pumps. The method of garbages disposal among these people was very unhygienic and most of the households used to throw their garbages in

open. All this points towards the surroundings and conditions within which the real workers of the rural India live and work.

Regarding the role of poor rural women in making household decisions, it was found that their say in the family affairs was decreasing with increase in the poverty of the family. Among the small formers' households, women played a vital role as compared to marginal farmers and landless labourers. However, their maximum concern was shown with the marriage of children, followed by household expenditure, borrowings, sale of assets and produce, and the education of their children. Willingness of poor women for increasing their proficiency and skill in different trades as well as for enhancing their family earnings showed that maximum women were interested in cutting and tailoring, followed by knitting, embroidery, spinning and weaving. For improving the purchasing power, almost all of them needed technical help and about 79 per cent required financial assistance too.

Suggestions

Through this study, it has been found that a poor woman of this area resides in a poorly built kacha house under very unhygienic conditions, having three/four minor children and shares a considerable burden of family earnings in the fields as well as within the household. But, unfortunately, due to ignorance, conservation and unhealthy traditions, our society has ignored their contribution and the role that they can play. Still, the woman suffers from a feeling of inadequacy and, as such, she has not been able to make her right contribution. The elimination of drudgery, therefore, requires that one must think and plan out every thing de novo and try to commence in a

judicious way. Our rural women can no longer live in isolation of the past and can no longer escape the inevitable impact of the rapid changes that are taking place in the country today. The days of fine arguments are long long past with an awakening in rural wasses. This may mean that they have rejected their inferior status and strived to live under the modern socioeconomic pattern of changing society.

If rural areas are to prosper, rural women should, be sufficiently healthy, enthusiastic and technically sound to undertake and fulfil their responsibilities both as house-wives and as nothers. They should know how to keep their homesclean how to bring up children and keep them healthy. They must know other trades so as to keep themselves busy in the off hours and, thus, to augment the income of the family. The programme should be such that they should bring about an overall improvement in the standard of living, thinking, earning, spending and saving. In domestic work, more effective application of labour-saving devices can create leisure hours for women, lighten their daily course and, thus, enable them to generate more income for the family. Imparting training to village women, voluntarily associating themselves with their development programmes so as to bring out potential leadership and to absorb them as extension workers in their own home surroundings can also play a vital role in improving their lot. valuable contribution which can be made by the poor women in the economy of the family and of the community is through crafts and productive home enterprises, such as, tailoring, weaving, knitting, embroidery, food processing etc: However, programmes must be based on the availability of raw-material, market, skills and leisure time of the women. Arrangements need to be made for their on-the-spot training, suply of raw materials modern designs and quality control, collection of finished goods and their sale and ensure that sale proceeds get into the hands of real producers.

extra income whatsoever, will add to the domestic budgets and contribute significantly to the economic independence of the women and raise their status in the society. The training/craft centre can also be utilized as recreation centre or meeting place for women. Different programmes and cultural activities, such as, Bhajan, music, reading of newspapers, magazines etc. may be arranged. Through these centres, they may be educated on elementary health care, environmental sanitation, better nutrition, family welfare, kitchen gardening and folk dances. At the same time, they may be able to broaden their mental horizons and learn various profitable activities to supplement their family income.

If the future agrarian structure is to be strengthened and the quality of rural life is to be improved, rural women must be provided with ample opportunities and adequate infrastructural support so as to play an active role in the social, political and economic affairs of the community. Some immediate steps necessary for triffing their lot are listed below:

- Intensive programme of educating the village girls alongwith training in crafts so as to relieve them from the bread-earning task;
- 2. inclusion of home science curriculum as a compulsory subject in the matriculation programmes;
- opening of craft/training centres for adult women alongwith vigorous adult literacy drive;
- 4. making provision for good number of prizes, awards, stipends scholarships and facilities like books, stationery etc. at a very nominal cost for the village girls in the schools;

- opening of centres for supplying raw-materials, equipment, designs, technical guidance, collection of finished products and their marketing;
- organisation of women activities on sound lines with a view to secure their participation in different development activities;
- 7. establishment of family welfare centres having dedicated and committed lady doctors so as to advise the poor women on preventive measures of birth control, child welfare, family health care, nutrition and hygiene;
- 8. organisation of women village councils and cooperatives so as to promote rural handicrafts
 and have a linkage with the other community
 organisations run for the rural development;
 and
- 9. revival of religious festivals and cultural activities of women with a new meaning and spirit for making their lives more gay and colourful within their limited means.

Mahatma Gandhi wanted that cities must subserve villages. In his view, exploiting of villages was itself an organised violence. He remarked that if we want 'Swaraj' to be built on non-violence, we have to give the villages their proper place. Under 'Swaraj', nobody is anybody's enemy; everybody contributes his or her duty quota to the common goal; all can read, write and their knowledge keeps growing day by day. In his view, village 'swaraj' was a complete republic, independent of its neighbourers for its own vital wants (food, clothing and shelter) and, yet, inter-dependent for many others in which dependence is a necessity. What he wanted was an all-round development of the villages.

After independence, process of planning started. Many programmes for increasing agricultural and industrial production, community development and for establishing a Welfare State were launched. Based on the report of an International Team of Experts, the Government of India started Intensive Agricultural Development Programmes in 1960 with a view to supply adequate farm credit and other agricultural inputs through strengthened cooperatives for increasing agricultural production. Since then, many programmes like 'Grow More Food' Campaign, High-Yielding Varieties Programme, Green Revolution Intensive Cattle Development Programme, Intensive Agricultural Area Programme, Small Farmers' Development Programme, Marginal Farmers and Agricultural Labourers' Development Programme, Integrated Dryland Agriculture Development Programme, Drought-Prone Area Development Programme, Intensive Cotton Development Programme, Rural Industries Project, etc. have been started.

No doubt, these programmes have made certain impact on the rural production and economy. However, all the progress has been lopsided and it is common feeling that the gaps between large and small farmers, rich and poor, rural elites and landless labourers, haves and have-nots have been widened. The population growth has counteracted the progress whatsoever achieved. Within the villages it has undoubtedly had a tendency not only to cause fragmentation of holdings but, thereby, also to fortify the class structure, to make it more rigid and less egalitarian by increasing the relative number of landless and poor, and thus ever more inimical to the success of efforts to raise productivity in agriculture. Nevertheless, the upward trend in population has meant that more food has been needed to maintain even the traditionally low levels of nutrition. More labour has to be put in by a labour force that has been growing at bout the same rate as the population. Thus an inter-play between the increased needs for food, the bigger labour force and the slow improvement in techniques has resulted in an increase in the input of work to preserve traditional levels of living for the agricultural population.

However, a process of gradual adjustment has constantly given some work to almost all in the growing agricultural labour force except to those who, for social reasons, have preferred to remain idle or do little work. They have been able to indulge in that luxury at little cost. Since labour has remained very cheap, the whole social situation has, thus, been subtly arranged to absorb the continual increase in the agricultural labour force. As such, for the rural reconstruction and revitalisation of the shattered rural economy, the present Government has initiated the integrated rural development programme. The programmes are

are economically viable and socially acceptable. Before such programmes are formulated, it is most essential that important meladies for different target groups are identified and the gaps in the employment and income of these poor are located. So, in order to have a real assessment of the existing employment and income situation, this study has been undertaken. Specifically, the objectives of this study may be listed as follows.

- 1. To identify different economic activities of different categories of rural poor;
- 2. to examine the extent of employment and underemployment amongst different poor groups;
- 3. to assess the household income of rural poor from different sources;
- 4. to find out the professional skill, willingness for training and assistance required by different categories; and
- 5. to suggest constructive programmes for increasing the employment, efficiency and earnings of different categories of rural poor.

A realistic approach to the above objectives would certainly help in developing various projects for different sets of people to augment their employment and income in the long run. Every care has to be taken to ensure that these projects are self-generating and self-propelling in nature. In this way, the disorganised rural economy can be pushed on to the take off stage and only then we would be able to have the real glory of the villages as it was in the past.

METHODOLOGY

The same cluster of 30 villages around Bhuna has been used for the purpose of this study. A list of all the small and marginal farmers and landless labourers was obtained from the Small Farmers' Development Agency operating in the district. Keeping in view the objectives of the study, 40 per cent of the small and marginal farmers and landless labourers from each village were randomly selected as respondents. Thus, 136 small farmers, 218 marginal farmers and 93 landless labourers, making a sample of 447 households were taken. Table 2.1, already given in Part-II of this Report explains the composition of the sample. Necessary information given by the respondents was recorded on a carefully drawn and pretested comprehensive schedule/questionnaire.

DATA ANALYSIS AND DISCUSSION

A. Male workers' distribution according to their age-groups

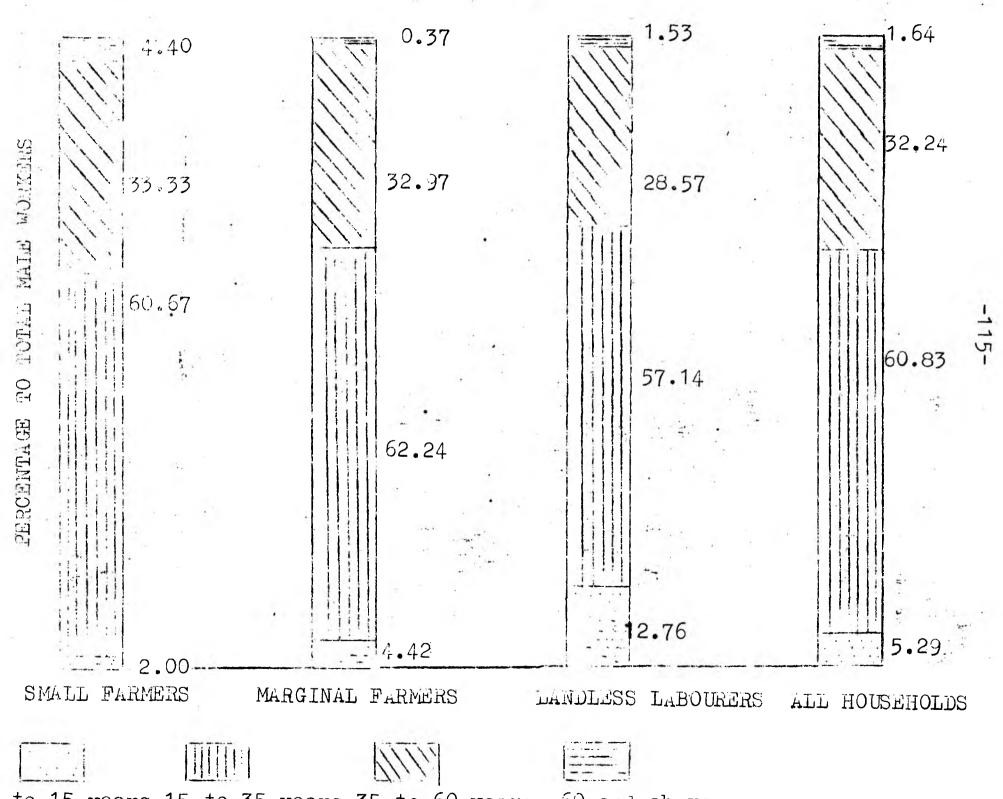
Our agriculture is characterized by under-employment and disguised unemployment. Agricultural development has not been able to keep pace with the increasing work force in the rural areas and there are no sile avenues for gainful employment, hence all the work force has to be absorbed in agriculture. Consequently, the labour productivity has gone down. Children are diverted from the classrow. to different income-earning tasks because of economic considerations. Even then the production as well as income of a sizeable class of people has been near the subsistence level.

In table 3.1 an age-wise account of male workers is given. An interesting point worth noting is that a little more than 93 per cent of the total male workers were in the age-group of 15 to 60 years, but of which nearly 61 per cent belonged to youth class (15 to 35 years), as compared to about 44 per cent female youth workers. Only 5.29 per cent of the male workers were children as against 30.54 per cent female children, which reveals that female

Table 3.1: Male workers' distribution according to different age-groups.

Age-groups		Marginal farmers	Landless labourers	Total
10 - 1 5 y ea r s	6 (2.00)	24 (4.42)	25 (12 , 76)	55 (5.29)
15 - 35 years	182 (60.67)	338 (62 . 24)	112 (57.14)	
35 - 60 years	100 (33133)	1 7 9 (32:97)	56 (28,57)	33 5 (32 . 24)
60 and above	12 (4.00)	(0.37)	(1.53)	17 (1.64)
Total	300 (100,00)	543 (100,00)	196 (100.00)	1039 (100•00)
Per household working males	2.21	2.49	2.11	2.32

Figures in parentheses show the perpentage of their respective totals.



10 to 15 years 15 to 35 years 35 to 60 years 60 and above

children are put to manual work in larger number and they are not allowed to devote time towards their studies. Male workers above 60 years of age were only 1.64 per cent of the total male workers. On an average, male workers per household accounted for 2.3.

Looking at the picture of various age-groups of male workers in different categories of households (Fig.XXVIII), it was noticed that proportion of male children ranged from 2.00 per cent in small farmers to 12.76 per cent in case of landless labourers. This supports the hypothesis that the children are mainly withdrawn from schools due to economic considerations. The ratio of youth workers in different categories of household showed a variation from 57.14 per cent among landless labourers to 62.24 per cent among marginal farmers. However, with regard to male workers in the age-group of 35 to 60 years, there was a slightly incre ing trend, i.e., from 28.57 per cent among landless laboure to 33.33 per cent among the small farmers. Male workers of the age of 60 and above did not show any trend in relation to different categories of households. An important point which may be derived from this table is that average number of male workers per household varied from 2.11 in the landless labourers to 2.49 in marginal farmers class. farmer households had, on an average 2.21 male workers per household.

B. Occupational distribution of rural poor

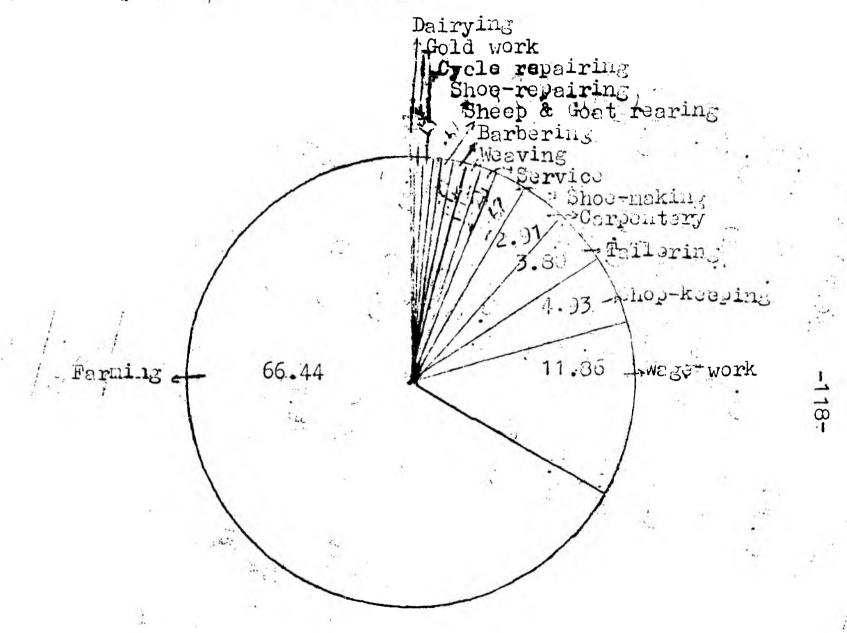
A good number of occupations including farming, wage work, shop-keeping, tailoring, carpentary, shoe-making, weavetc. were found in this area as means of livelihood for smal and marginal farmers and landless labourers. It has been reported in table 3.2 that the majority of households (66.44 per cent) had adopted farming as their mainistay of life. Ma occupation for 11.86 per cent of the total households was wawork, whereas 4.93, 3.80, 2.91 and 2.68 per cent of the hous holds were mainly engaged in shop-keeping, tailoring, carpentary and shoe-making respectively. Households belonging to small, marginal farmers and landless labourers chiefly engagin farming were 87.50, 71.56 and 23.65 per cent, respective.

Table 3.2 : Main occupational distribution of rural poor

Sr. No	Occupation	Small farmers	Morginal farmers	Landless labourers	Total
1.	Farming	119 (87.50)	156 (71.56)	22 (23 . 65)	297 (66.44)
2.	Wage work	4 (2.95)	15 (6.88)	34 (36.55)	5 3 (11.86)
3.	Shop-keeping	2 (1.47)	11 (5.04)	9 (9 . 68)	22 (4•93)
4.	Tailoring	(2.95)	6 (2 .7 6)	7 (7 . 52)	17 (3.80)
5.	Carpentary	(0,74)	8 (3 . 66)	4 (4 . 28)	13 (2.91)
6.	Shoe-making	1 (0.73)	(0.92°)	9 (9 . 68)	12 (2 .6 8)
7•	Service	(1.47)	6 (2 . 76)	2 (2.16)	10 (2.24)
8.	Weaving	-	(1.83)	1 (1.08)	(1.12)
9.	Barbering/ Hair-dressing	~	5 (2 . 29)	-	5 (1 . 12)
10.	Sheep and goat rearing	1 (0.73)	1 (0.46)	(2.16)	(0.89)
11.	Shoe-repairing	(0.73)	2 (0.92)		3 (0.67)
12.	Cycle repairing		(0.46)	(2.16)	(0.67)
13.	Goldsmithy	(0.73)	1 (0 <u>.</u> 46)		(0.45)
14.	Dairying		₹`.	(1.08)	1 (0.22)
	Total	136 (100.00)	. 218 (100.00)	93 (100.00)	447 (100.00)

Figures in parentheses show the percentage of their respective totals.

Fig. XXIX. OCCUPATIONAL DISTRIBUTION OF TURAL POOR (Percentage of households having main occupation)



On the contrary wage work shop-keeping, tailoring, carpentary and shoe-making were adopted by larger number of landless households as compared to small and marginal farmers. Other occupations, such as, sheep and goat rearing, weaving, shoe repairing, goldsmithy, dairying, cycle repairing, hair-dressing and services were adopted by a few households in different categories. Fig. XXIX shows the occupational distribution of rural poor with regard to their main occupation.

Subsidiary occupations adopted by different groups of people in this area were mainly farming, wage-work, dairying, service, tailoring, shoe-making, sheep and goat rearing, dyeing and hair-dressing which are shown in table 3.3. In all, about 64 per cent of the households were having subsidiary occupations. However, farming (share cropping) in case of landless labourers was the main subsidiary occupation to supplement the family income. Other subsidiary occupations in order of their adoption were wage work, dairying, service, tailoring, shoe-making, sheep and goat rearing, dyeing, hair-dressing, shop-keeping, flour milling, carpentary, embroidery, weaving, goldsmithy, shoe-repairing and band mastering. Dairying, as a subsidiary occupation, had been adopted increasingly by marginal and small farmers as compared to landless labourers. On the other hand, in wage work, largest number of landless labourers were engaged. Other occupations adopted by different categories of households showed no definite relationship with any category.

C. Employment level of male and female workers

Though there are many factors like number and efficiency of workers, type of occupation etc. which affect the household earnings but the level of employment directly influences the family income. Data given

Table 3.3 : Subsidiary occupational distribution of rural poor.

Sr. No.	Occupation		Morginal farmers	Landless labou r ers	Total
1.	Farming	17 (26 . 15)	62 (49.22)	6 (16.22)	85 (3 7. 28)
2.	Wago-work			17 (45.96)	42 (18.41)
3.	Deirying	. 15 (23.04)	12 (9.53)	2 (5.40)	29 (12.71)
4.	Service	6 (9 . 23)	12 (9.53)	2 (5.40)	20 (8.77)
5.	Tailoring	5 (7.69)	3 (2.38)	2 (5.40)	10 (4.39)
6.	Shoe-making	(1.54)	9 (7.14)	-	10 (4.39)
7.	Sheep and goat rearing	3 (4.61)	2 (1.59)	(5.40)	7 (3.07)
8.	Dyeing		2 (1.59)	(10.82)	6 (2.63)
9.	Hair-dressing	(3.08)	(0.79)	1 (2.70)	(1.75)
10.	Shop-keeping	1 (1.54)	1 (0.79)	(2.70)	3 (1.32)
11.	Flour mill	2 (3.08)	1 (0.79)		3 (1.32)
12.	Carpentery	2 (3.08)	.1 (0.79)		3 (1.32)
13.	Embroidery	1 (1.54)	1 (0.79)		2 (0.88)
14.	Weaving	1 (1.54)	-	-	1 (0.44)
15.	Gold work	1 (1.54)	- 	-	1 (0.44)
16.	Shoe-repairing	- x	1 (0.79)	-	4 1 (0.44)
17.	Band Mastering	:	1 (0.79)	-	1 (0.44)
	Total			37 (100.00)	

Figures in parentheses show the percenture of their corpective totals.

Table 3.4 : Employment level of the first workers

Sr. No.	Porticulars	Small farwers	Marginal farters	Landless labourers	Total
1.	Total number of days.	69325	1 3 8585	52555	260465
2.	Total number of workers (Male)	300	543	196	1039
3.	Average working days (Male)	.231	255	268	251
4.	Total number of days employed (Female)	27840	35128	10465	73433
5.	Total number of workers (Fenale)	250	323	132	705
6.	Average working days (Female)	111	109		104
7.	Total number of days employed (Male and Female)	97165	173713	63020	333898
8.	Total number of workers (Male and Female)	550	866	328	1744
9•		177	201	192	191
			4	-,	1, 1, 1

in table 3.4 reveal that, on an average, a worker gets employment for 191 days in a year, which is evidently an under-utilization of human resources. Another characteristic of this employment was its seasonal nature because in slack seasons, there was not enough job for them, particularly for landless labourers. About the levels of employment of male and female workers, the position was examined separately. The condition was more disappointing as, on an average, a female worker could get employment for only 104 days in a year against 251 days for male labourer.

The level of employment of male worker among different categories of households has, however, been increasing as the economic status decreased. male worker from small farmer households got an employment for 231 days as compared to a male worker from marginal farmer households for 255 days and that from a landless labourer household for 268 days in a year. In case of women workers, the trend was reverse, ranging from 79 days in case of landless female workers to 111 days for a woman worker belonging to small farmers household. When the days of employment of male and female workers were taken together, the maximum employment was obtained by a worker of marginal farmer's family (201 days) and the minimum (177 days) by a worker from small farmers household.

D. Family income

In spite of over saturation in agriculture and stagnation in secondary and tertiary occupations, agriculture still continues to be the mainstay of life of the rural poor. This fact has been confirmed by table 3.5 as nearly 49 per cent of total family income was derived from farming. Dairying contributed about 22 per cent to the total family income followed by wage-work contributing 16 per cent, 4.72 per cent by business and shop-keeping, 3.51 per cent by service and 1.85 per cent by

Table 3.5: Income from different occupations among different categories of rural poor.

Sr.	Occupations	The same is not a superior of the sa	Income		
No.	OGGMATTOUR	Small farmers	Marginal farmers	Landless labourers	⊬All ca t e-
		(Rs.)	(hs.)	(is.)	gories (is.)
1.	Farming		4,35,841 (42.54)	73,152 (19.16)	10,55,596 (48.83)
2.	Dairying	1,·29,054 (17.08)	3,25,100 (31.73)	33,778 (8.85)	4,87,932 (22.56)
	Wage work	12,640 (1.67)	1,18,320 (11.55)	2,13,985 (56.03)	3,44,945 (15.96)
4.	Business and Shop-keeping	10 630 (1. 41)	59 ,3 20 (5 . 79)	32,1 3 0 . (8.41)	1,02,080 (4.72)
5.	Service	22 , 184 (2 . 94)		11,740 (3.07)	75,980 (3.51)
6.	Shoe-making/ leather work:	1,500 (0.20)	31,300 (3,05-)	7,200 (1.89)	40,000 (1.85)
7.	Tailoring	7,610 (1.01)	2,100	6,300 (1.65)	16,010 (0.74)
8•	Sheep and goat rearing	12,000 (1.59)	1;000 (0.09)	800 (0.21)	13,800 (0.64)
9.	Others (Pottery Piggery etc.)	4,000 (0.53)	2,500 (0.24)	1,000 (0.26)	7,500 (0.35)
10.	Carpentery	2.300 (0.30)	1,800 (0.18)	1,000 (0.26)	5,100 (0.24)
11.	Flour milling	3,000 (0.39)	1,500		4,500 (0.21)
12.	Hair-dressing .	1,550 (0.21)	2,148 (0,21)	800 (0.21)	4,498 (0.21)
13.	Gold work	2,400 (0.32)		-	4,000 (0.18)
	Total	7,55,467 (100.00)	.10,24,589 (100.00)	3,81,885 (100.00)	21,61,941 (100.00)
	Income Per Capit	a .			, ³
(a) (b)	Annual Monthly	714.73 59.56	606 98 50.58	578 .6 1 48 . 22	634.93 52.92

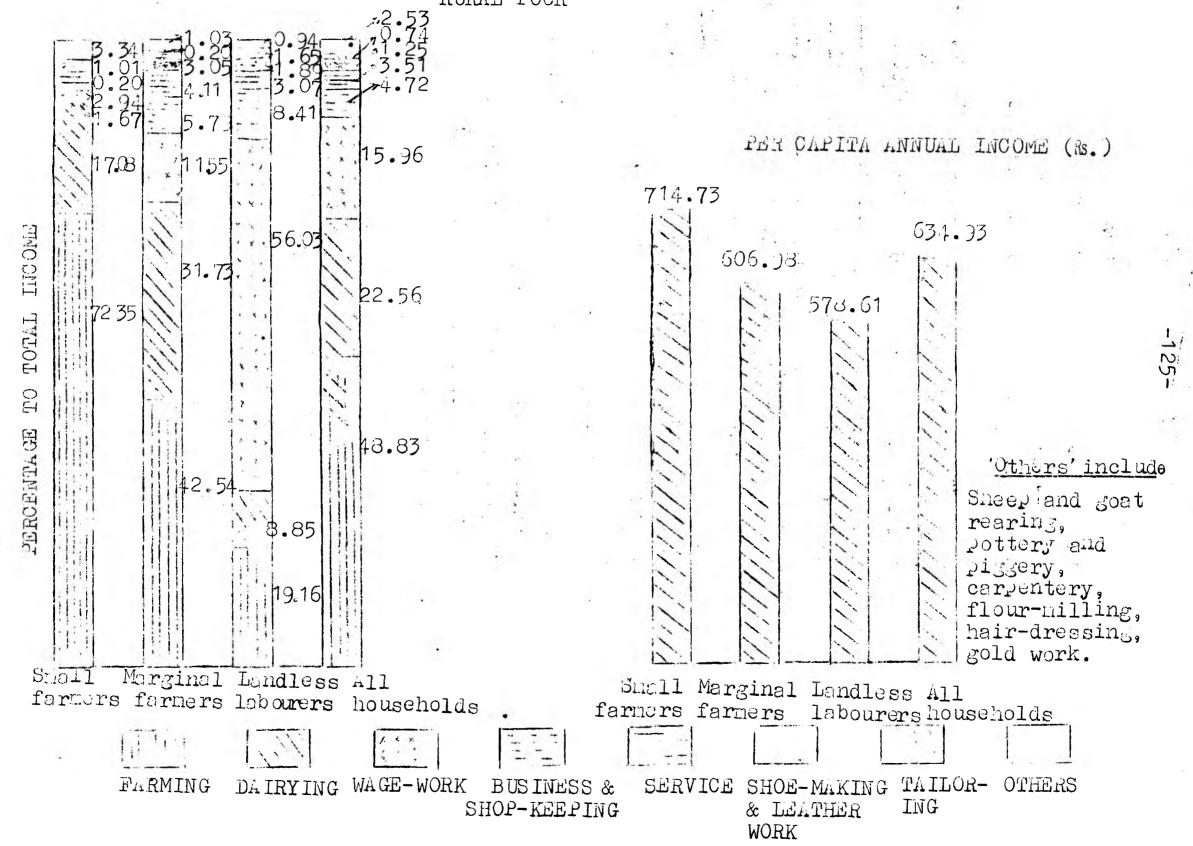
Figures in parentheses show the percentage of their respective totals.

shoomiking and leather work. Contribution of occupations like tailoring, sheep and goat roaring, carpentary, pottery, piggery etc. has been very little.

Among the small farmers, a little more than 72 per cent of the total income was obtained from the farming and around 17 per cent from dairying. In case of marginal farmers, contribution of farming, dairying, wage work, business and service was 42.54, 31.73, 11.55, 5.79 and 4.11 per cent, respectively. Among the landless labourer families, 56.03 per cent of the total income was obtained from wage-work, whereas farming and dairying supported up to 19.16 and 8.85 per cent of the total income, respectively. Thus, it may be observed that in all the three categories of household farming, dairying and wage work together contributed from 82 to 86 per cent of the total family income. This indicates that secondary and tertiary sectors of economy need to be developed to mitigate the excess burden of population on agriculture and improve the purchasing power of the rural poor.

Further, it was observed that, on an average, the per capita income among these households worked out to about 635 rupees per annum. Per capita average monthly income was calculated to be Rs. 52.92. The per capita income among different categories of households showed a range from ... 578.61 for landless to R. 14.73 per year for the small farmer households (see Fig. XXX). an increasing trend was observed; with an increase in assets of the households. The per capita monthly income for small and marginal farmers and landless labourers was calculated as Rs. 59.56, 50.58 and Rs. 48.22, respectively. For a comparative study, it is worthwhile to mention here that the per capita income of the Haryana State during 1973-74 was Rs.1186/-. It means that there has been a big gap between the economic condition of the rural poor and the average per capita income of the State. This gap can only be bridged by creating additional employment opportunities through subsidiary occupations other than farming (agriculture).

INCOME FROM DIFFERENT OCCUPATIONS AMONG DIFFERENT CATEGORIES OF RURAL POOR



E. Willingness for occupational training and assistance required by the fural poor.

Under the existing country of the oren which try be called as fast developing one, the rural pair have also developed a consciousness and are knowly interested in increasing their employment and income as well. This can be seen from table 3.6. As much as 67.56 per cent of the total households showed their willingness for training in dairying followed by general mechanics; tractor operation, repairs and maintenance, weaving, tailoring, sheep and goat rearing, leather work, carpentary etc. For comparative details, see Fig. XXXI also.

among the shall and marginal farmers, the order of preference was almost the same. However, most of the landless labourers showed their priorities for training in dairying followed by tailoring, mechanics, sheep and goat rearing, carpentary, tractor operation, repairs and maintenance leather works, weaving and piggery. One thing was observed that willingness of different categories of rural poor was least for training in poultry and piggery. This may be attributed to the difficulties in marketing of produce, high cost of feeds, greater risk of enterprise and social orthodoxy.

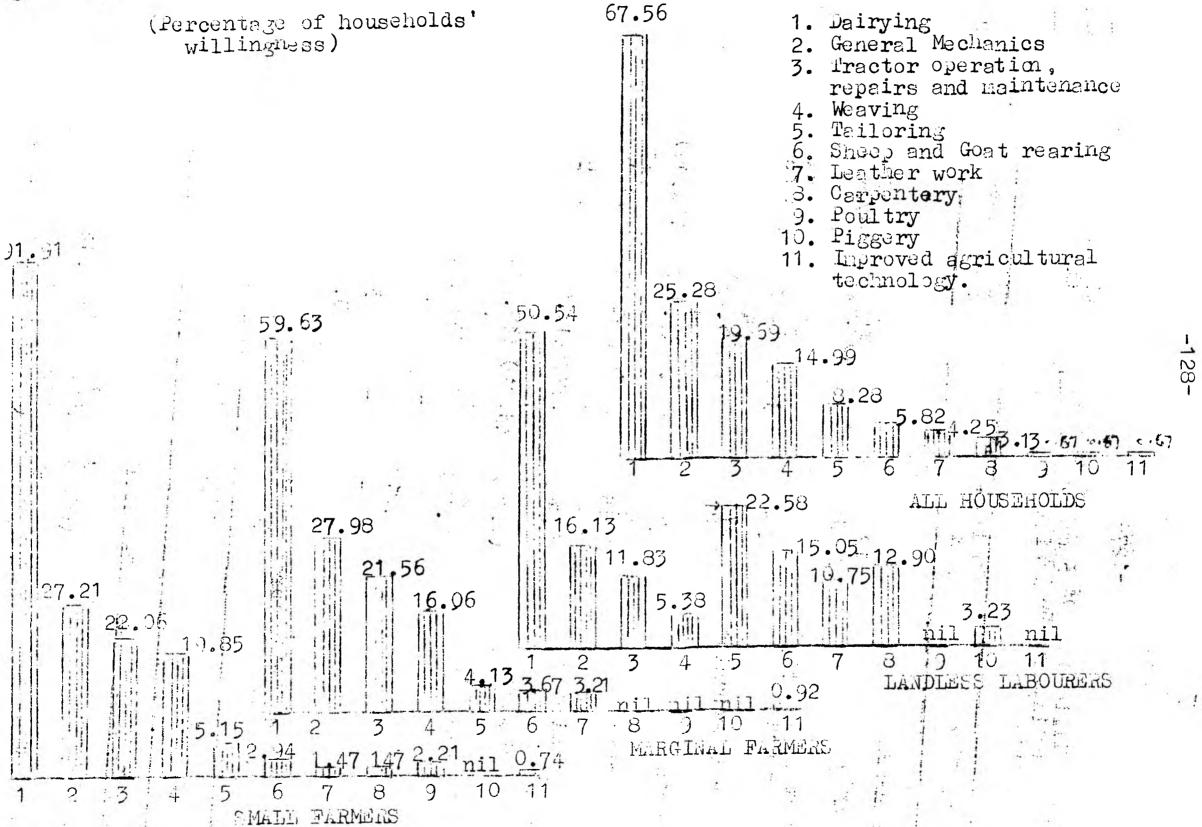
During the survey, questions were also put to the rural poor regarding the type of assistance - financial, technical and marketing, required by different categories of households for improving their employment and income positions. About 64 per cent of the total households sought for financial, 61.52 per cent technical and 51.90 per cent for marketing assistance. An important point which deserves special mention here was that the financial assistance was required by greater number of small formers as compared to marginal farmers and landless labourers. On the contrary, the technical assistance was sought for propose

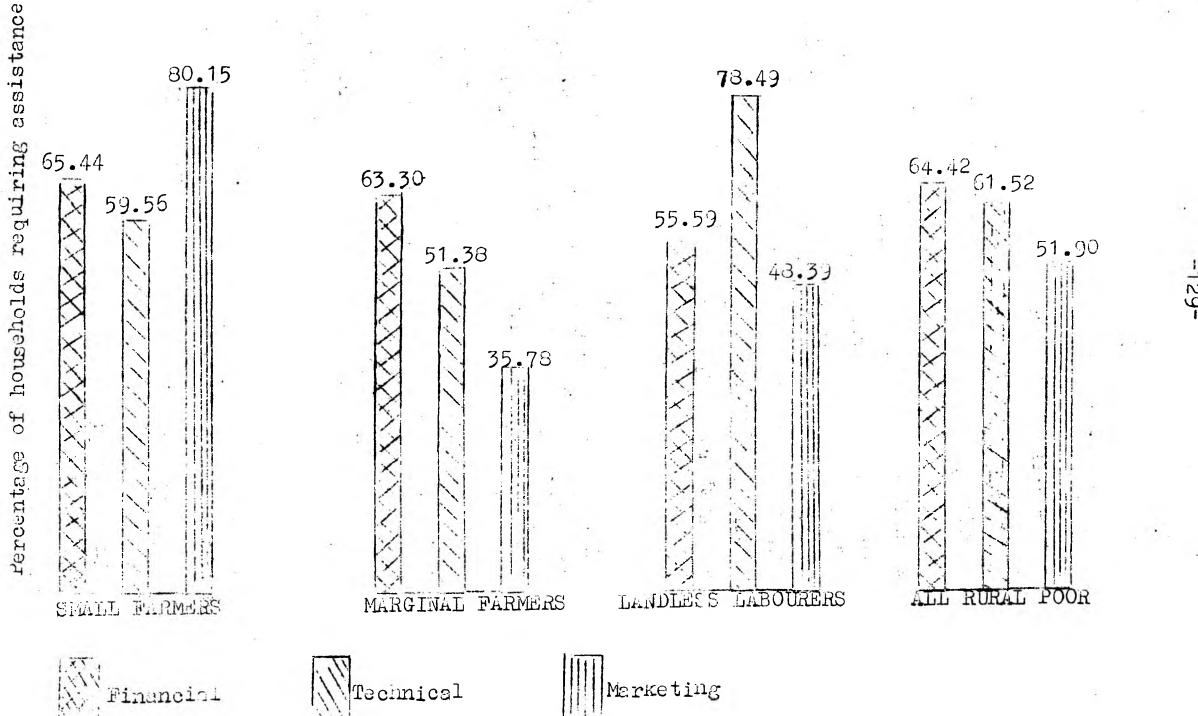
Table 3.6: Willingness of rural poor for occupational trainings and assistance required by them for the same

Sr. No.	Occupation	Small farmers	Marginal farmers	Landless labourers	Total
A.	TRAININGS				
1.	Deirying	. 125 (91.91)	130 (59.63)	47 (50.54)	302 (67.56)
2.	Tractor operation, repair and mainte- nance	30 (22.06)	47	-11	88 (19 . 69)
3.	General Mechanics	37 (27.21)	61 (27.98)	15 (16.13)	113 (25,28)
4.	Weaving	27 (19.85)	35 (16.06)	5 (5.38)	67
5.	Tailoring	7 (5.15)	9 (4.13)	2 1 (22 . 58)	3 7
6.	Sheep and goat rearing	(2,94)	8 (3.67)	14 (15.05)	26 (5.82)
7.	Leather work		7 (3.21)	10 (10,75)	19 (4.25)
8.	Carpentery	2 (1.47)	-	12 (12.90)	14 (3.13)
9.	Poultry	(2.21)	_	-	3 (0,67)
10.	Piggery	-	-	3 (3.23)	3 (0.67)
11.	Improved agricultural technology	(0.74)	2 (0.92)	~	(0.67)
	Total	136	218	93	447
В.	TYPE OF ASSISTANCE RE	QUIRED			199
1.	Financial	89 (65.44)	138 (63,30)	61 (59 .59)	288 (64.42)
2.	Technical	81	112		275
3.	Marketing	109 (80.15)	78	45	232
	Total	136	218	93	447

Figures in parentheses show the percentage of their respective total households.

Fig. XI. WILLINGNESS FOR OCCUPATIONAL TRAINING





tionately more by the landless labourers in comparison to shall and marginal farmers. With regard to marketing assistance, about 80 per cent of shall farmers looked for it as against about 36 and 48 per cent of marginal farmers and landless labourers, respectively. Details can be seen in Fig. XXXII.

CONCLUSIONS AND SUGGESTIONS

Human welfare depends on many different goods and services. However, the most central and relevant items are the employment and income; as such, in our study, we have tried to find out the level of income and employment of the rural poor. Further, an attempt was made to record their willingness for training in different trades with a sple objective of increasing their employment as well as income. In achieving this goal, their requirements for different types of assistance were also gathered. The main conclusions of the study are summarised as follows:-

On an average, the number of male workers per family for the poor households came to 2.32, being the lowest (2.11) in the landless families and the highest (2.49) among the marginal farmer families. Those 93 per cent of the total male conkers word in 15 to 60 years' age-group. Unlike the famile workers, only about 5 per cent of the total male workers were between 10 to 15 years of age. Further, it was observed that exploitation of male children as labour was nor among landless labourers and it decreased among the marginal and small farmers. Working males above 60 years of age were found very few. It indicated that either there was lack of employment opportunities or their efficiency did not permit them to obtain gainful employment.

Looking into the occupational pattern of the poor households, a good number had farming, wage work, shop-keeping, tailoring, carpentary, shoe-making, weaving etc., as their main occupations. However, farming and wage work occupied the major places. Among small and marginal farming was the main occupation in respect of 87.50 and 71

per cent of the households, respectively; whereas, in case of landless labourers, wage work coupled the first place, followed by farming - a share cropping. While examining the subsidiary occupations, it was revealed that about 51 per cent of the households used to earn their livelihood by one or the other subsidiary occupation. Among different categories, this relevance was about 48, 58 and 40 per cent in case of small, marginal farmers and landless labourers, respectively. The number of subsidiary occupations decreased with the decreasing assets. This was mainly because of the limited capital assets and resources in the hands of the poor. The important subsidiary occupations, according to the extent of adoption, were farming wage work, dairying, service, tailoring, shoemaking, sheep and goat rearing, hair-dressing and so on.

On an average, a male worker was employed for 251 days in a year. The level of employment increased from 231 days among small farmers to 268 days among the land-less labourers, but in case of female workers, the trend was reverse showing 79 days among landless labourers and 111 days in case of small farmers. The overall level of employment among marginal and small farmers was found to be 201 and 177 days per worker as the highest and the lowest respectively.

The per capita annual income of the three categories of rural poor was about &s.635 as against &s.1186 for whole of the Haryana State. It showed a big gap and it is envisaged that, through the Integrated Rural Development Programme, it would be narrowed. For different categories of households, the per capita income varied from &s.578.61 among landless labourers to &s.714.73 in respect of small farmers.

For increasing the professional skill and productivity, people showed their keenness for obtaining training in dairying, general mechanics, tractor operation, repairs and maintenance, weaving, tailoring, sheep and goat rearing, leather work, corpentary etc. The order of preference for training among small and marginal formers was observed to be almost the same, but in case of landless

labourers, maximum willingness was observed for training in dairying, followed by triloring, general mechanics, sheep and goat rearing, correctory, tractor operation, repairs and maintenance, leather work, weaving etc.

With regard to the type of assistance required for increasing the employment and earnings, about 64 per cent of the total poor households asked for financial assistance, whereas, technical and marketing assistance we sought by about 62 and 52 per cent of the total households, respectively. An interesting point noticed was that the proportionate number of households seeking financial help increased with the increasing economic status of the households. This may be due to comparatively greater risk bearing capacity of small and marginal farmers and reluctance of the landless labourers. Regarding technical assistance, the landless labourers showed their maximum willingness as compared to shall and marginal farmers.

Suggestions

Based on these surveys, the following suggestions are listed for improving the employment and purchasing power of the rural poor:-

1. In order to allow the children of rural poor, particularly of labourer class, to get education and diverent to learning centres, some incentives should be extended and special programmes designed to meet the needs. Some side avenues should also be provided the schools through training in different crafts. Will not only help them to supplement their family income, but will also help in making a sound careed and developing self-confidence in them. Moreover, they will also be able to develop specialization is a particular trade from the childhood itself.

- 2. For old-age workers, who are less efficient in their productivity and are unable to obtain suitable wage-work, some easy and home-based work like spinning, rope-making, triloging etc. may be arranged.
- 3. For lessening the burden of population on agriculture, subsidiary occupations like triloring, weaving, quality shoe-making, dairying, sheep and goat rearing, knitting and hosiery work may be introduced. However, a strong support through integrated programme of training, supply of credit, good animals, quality rawnaterial and co-the-spot technical guidance for quality control, collection and marketing of products need to be provided.
- 4. For increasing the strength of the small producers, they need to be organised professionally on cooperative lines at least for the purchase of raw-material, equipment and sale of their products. In the long run, this will help them to become self-reliant and self-generating.
- 5. Small and marginal formers may be trained on intensive agriculture through proper crop rotation, scientific soil and water management so that they can increase their employment and income per unit of area.
- 6. For both the small and marginal farmers, dairying has a good scope for improving the employment and income. Besides, on account of the agro-climatic conditions of the area being favourable, the developmental potentialities are also good. A good number of livestock institutions and artificial insemination facilities and milk chilling centres are within the reach of these farmers.

- 7. For the revival of rural artisans, they are to be given up-to-date training in their respective trades, supplied with adequate credit, modern tools and required raw-materials, work shed facilities and marketing support. For all this, a single agency approach will be more fruitful.
- 8. Use of modern agricultural implements and machines is increasing day by day. Some of the implements like seed-cum-fertilizer drills, spray pumps and threshers have a great bearing on the agricultural production, but these cannot be owned by small and marginal farmers. Educated rural youth may be trained in the operation, repairs and maintenance of differ implements and machines and assisted in opening rural service centres through liberal credit and technical guidance.
- Gotton is an important crop of this region. Haryana Khadi and Handloom is famous throughout the country. Poor persons, particularly the landless labourers, may be trained in this trade and helped in establishing their own small units by providing financial, technical and marketing assistance by asingle institution. It will cultivate self-confidence and sense of belongingness in them, besides improving their employment and income.

APPENDIX - A.

INTEGRATED RURAL DEVELOPMENT PROJECT- HISSAR
PROFORLA FOR VILLAGE DATA (TO BE FILLED UP IN DUPLICATE)

(information to be collected from Patweri, Gram'Sachiv, Agricultural Inspector, Block Development and Panchayat Officer, etc.)

Date of beginning of survey:

Date of completing the survey:

Name of the Investigator:

Cormon problems of the villace

Related with:

- 1. Employment
- 2. Education
- 3. Health
- 4. Credit
- 5. Irrigation
- 6. Production
- 7. Inputs availability
- 8. Transport
- 9. Marketing
- 10. Others.

General Information

Location and direction: Road on which situated. Distance from the District H.Q. Block	
Distance from the District H.Q. Block	
Block	
Post Office	
TahsilDistance	
	•
District	
Mode of conveyance to reach the village.	
Nearest Railway StationDistance	•
Nearest Bus Stop	•
Specific Information	
Total number of households.	
Population:	
a) Male(above 18 years of age) b) Female(above 18 years of age c) Children (below 18 years of age d) Total population e) Literate male (above 18 years of age f) Literate female (bove 18 years of age g) Total literate (above 18 years of age) h) Literate children (below 18 years	
	Specific Information Total number of households. Population: a) Male(above 18 years of age) b) Female(above 18 years of age c) Children (below 18 years of age d) Total population e) Literate male (above 18 years of age f) Literate female (bove 18 years of age

12. Occupation: Distribution:

Par	cticulors	Employ Fully		Number Employed partially	Un-emplo	oyed			
a)	Cultivators					į.			
b)	Landless labourers			V.					
c.)	Carrenters	· 4.							
d)	Blacksmiths								
e)	Weavers								
f)	Barbers								
g)	Traders and	-:							
	merchants	¥							
h)	Tailors								
i)	Others	à.							
	i) .								
i	Li)	3							
	• • \					Perts Recsons for an ils gring to the s			
ii	L1)								
-		ilities					0		
-	ucational fac	ilities							
Edu Par	ucational fac	ilities Locatio		No. of Boys	students Girls				
Edu Par	ucational fac								
Per a)	ucational fac								700
Per a)	cticulars Primary School								(2)
Per a)	rticulars Primary School Middle School High								<u></u>
Per a) b) c)	rticulars Primary School Middle School High School								<u> </u>
Para) b) c)	rticulars Frimary School Middle School High School College								200
Per a) b) c)	rticulars Primary School Middle School High School								
Edu Par a) b) c) d) e)	ricational facticulars Primary School Middle School High School College Training	Locatio							
Edu Par a) b) c) d) e)	riculars Primary School Middle School High School College Training Centre	Locatio	n						
Para) b) c) d) e) Yil	riculars Primary School Middle School High School College Training Centre Others	Locatio	n	Boys		goi	na to i	he sei	
Para) b) c) d) e) Para	rticulars Primary School Middle School High School College Training Centre Others Lage institu	Locatio	n	Boys	Cirls	goi	na to i	he sei	
Edu Par a) b) c) d) e) f) Par b)	rticulars Primary School Middle School High School College Training Centre Others Lage institute rticulars Panchayat Cooperative Society	Locatio	n	Boys	Cirls	goi	na to i	he sei	
Per a) b) c) f) Par a) b) c)	rticulars Primary School Middle School High School College Training Centre Others Lage institute Panchayat Cooperative Society Youth Club	Locatio	n	Boys	Cirls	goi	na to i	he sei	
Edu Par a) b) c) d) e) f) Par b)	riculars Primary School Middle School High School College Training Centre Others Lage institute rticulars Panchayat Cooperative Society Youth Club Others)	Locatio	n	Boys	Cirls	goi	na to i	he sei	

15. Drinking water facility and problems, if any.

16. Medical facilities:

		والتحليما والمتاه والمتاها	
Particulars	Location/	Is it necessory	Froblems faced
	distance	for the village?	by the villagers.

- a) Primary Health Centre
- b) Veterinary Hospital
- c) Artificial Insemination Centre.
- d) Others.

17. Details of credit and banking facilities:

Particulars	Location/	No.of	Does it Type of	Other
	distance	people	meet the people	probl-
		financed	require- being	ems
			ment of finan-	faced
			the vil- ced.	by the
			lage?	villa-
	<i>'</i>		Yes/no	gers.

- a) Primary cooperative Credit Society.
- b) Central Cooperative Bank.
- c) Land Development Bank.
- d) Commercial Banks.

i) ii) iii)

18. Details of size of holdings:

Size-group	No. of	Prir of	No. of milch
	houscholds	bullo c ks/	cattle
• _ 4		he-buffalocs	

Landless labourers up to 1.00ha.

1.00 - 2.00

2.00 **-** 4.00 4.00 **-** 6.00

Details of Source of Irrigation:

Sourc Command area Why some Size of L. A. Problems in hectares formers of the farmers faced by the keep the keeping the villagers.

Conal

Tubewell

Pumping set

Cthers (Specify)

a)

b)

c)

Land Utilization Pattern:

Porticulars Area in Percenhectare. tage.

- a) Total area of the village
 - i) Irrigated
 - ii) Unirrigated
- b) Barren and culturable waste
- c) Fallow land
- d) Net area sown
 - i) Irrigated
- ii) Unirrigated
- e) Area sown more than once
- f) Total cultivated area (d & e)
- g) Area under forest
- h) Miscellaneous
- i) Cropping Intensity

21. Cropping pattern:

		AND REAL PROPERTY AND PERSONS ASSESSED.				-		A
Crop	Area	Area	Total	Irri-	Un-		Con-	
	under	under	area	gated	irri-	duc-	sum-	ket-
	improved	local		area	goted	tion	ption	able
	variety	veriety		2	area	(0)	(Q)	sur-
	(hect.)	(hact.)	(hect.)	(Hect.)	(hect.)	(Q)	(4)	plus
(1)	(necu.)	(11300)	141	14	(()	(7)	(3)	191

```
A. Kharif
i) Bajra
```

- ii) Rice
- iii) Maize
- iv) Jowar (Fodder)
 - v) Cotton
- vi)Sugarcane
- vii)Oilseeds (specify)
- yiii)Other Kharif crops (specify)
 - a)
 - b)
 - c)

B. Rabi

- i) Wheat
- ii)Barley
- iii)Gram
- iv) Mustart
- v) Ropeseud
- vi) Toria
- vii) Raya
- viii)Pulses (specify)
 - a)
 - b)
 - c)

```
ix) Ber-
    seem
x) Oats
🗱i) Lucern
ii) Any
other
  fodder
  crop
(specify)
(a)
(b)
(c)
C. Vegetables (Specify)
() Kharif
(a)
(b)
(c)
 (d)
 e)
 f)
i)Rabi
```

a)

b)

c)

d)

e)

a)

b)

c)

e)

f)

ii) Summer

Orchards (Specify)

22. Marketing:

•	Item	Total prod- uction in the village	sump— tion	ket	of	Distance from the village	they formarket their groduce? m	Problem faced by the vil gers in marketi
		(Q)	(Q)	(q)		• "		their produce

- a) Vegetable.
- b) Milk and Milk products
- c) Poultry
 and poultry products.
- d) Foodgrains
 and other
 farm comm odities.

23. Use of Agricultural Chemicals:

Item	• •	Area in hectares	Problems faced regarding high prices, adul-teration, timely	Formers' opinion about fertilizers' use.
	• /		<pre>availability and response of fer- tilizers' use out-dated</pre>	
(1)	(2)	(3)	posticidos. (4)	(5)

A. Fertilizers

_a)_Nitrogenous

i)

ii)

iii)

iv)

b) Phosphatic

i)

ii)

iii)

c) Potassic

i)

ii)

iii)

```
nsecticides/
lesticides:
  a)
  b)
  ( )
  0)
  e)
  f)
  Weedicides:
  b)
  c)
  d)
  e)
  Livestock and Poultry Population:
                                  No. of Animals breedwise.
  Species
  A. Cattle
                                                      Non-
                                Heryana - Friesian
                                                              Others
                     Common
                                                                        freed by
                                                      des-
                     disenses
                                Jersey
                                           cross-
                                                      crist
                                cress-
                                           breds
                                                      local
                                brods.
nale:
ch cows
y cows
bgnant cows
Hers
-2 yrs.)
ung calves
-12 months)
le
ud bulls
lung bulls
-2 yrs.)
llocks
```

B. <u>Buffaloes</u>	Common diseases	Mur	rah	Non- descri			Problem faced t the own).
Female Milch buffaloes Dry buffaloes Pregnant buffaloe	es.							
Heifers(1-3 yrs.))							
Young calves (0-12 months)								
<u>Male:</u>								8
Stud bulls	,							
Young bulls $(1-2\frac{1}{2})$		70		T	D.	0	NT	4 h
C. <u>Goats</u>	Common diseases	Вeе	etal	Jumna- pari		Exotic cross- breds		rob- lems faced by the owners
<u>Female:</u> Milch goats								
Dry goats								
Pregnant goats								
Young ones (6-12 months)								
Young kids (0-6 months)								
Male: Breeding bucks Young goats (6-12 months)				ō				
Young kids (0-6 months)								
Animals sold for slaughter per ver			•		<i>i</i>			
D. Sheep	Common 1 diseases	Mali	des-	Hissar dale cross- breds			Other cross- breds	Prob- lems faced by the owners
Female: Lambed owes Dry owes Ewe lambs (6-12) Lambs (0-6 month) Male: Stud rams Ram Lambs (6-12 month) Lambs (0-6 month)	s) onths)							

Campls:	Common	Single humped	Double humped	Others	Number of camels used for ploughing and trans- port.	Problems faced by the owners.
<pre>nile: shened -comel</pre>	Y					
y she- mel						
ung-ones -2 yrs.)						
ung ones -12 months)		, is				
<u>:le:</u> :ud camel						
ung-ones (-2 yrs)						
oung-ones 0-12 months)						
Donkeys	Common disease	Local	Exotic oross bred	Number of donkeys used for transport	faced by	the
emales:	17					
oaled donkey ares.						
Ory donkay me.	res			-		
ung-ones 6-12 months)						4.
<pre>/oung ones O-6 months)</pre>		131	90			-E
<u>iales</u> itallion						
loung-ones 6-12 months)		Ī,	7			
(oung ones (O-6 months)	•					

C. Pigs.	Common diseases	Local	Yorkshire	Polan chine			Profact the own
Funda:		MANTIN GOOD COURT TO SEE SEE SEE SEE	Hallow Same of the Same Same Same Same Same Same Same Sam	nergy and managements		The second of th	randomak signi
Farrewed sows							
young sows (6-12 months)							
Piglings (O-6 months)							
Sold for slaughter							
Male:							
Stud boars							
Young boars. (5-12 months)							
Young borrs (O-6 months)							# J
H. Poultry:	Common diseases	Local (desi)	Improved breeds	Ducks	Turkeys	Consumption in the vil	\mathbf{f}
		4	The state of			logs (number	οv
Layers		23,4	namentina inaliania sa namang lagawa na		· de l'agricologne de l	de la constitue de la constitu	
Broilers.				V			

Items		Problems of production availabili	7/	Problems of consumption	Problems of disposal.	
1		2	THE MEN SHEET OF THE SE	3	4	
Concentrates Maize Barley Guar	ter ter terten regerann g		A CONTRACTOR OF THE PARTY OF TH	er um temperaturum umbu um tem terum vanung venung venung.		
Gram				- 14		
Bajra			0.00		٠.	
Cotton seed						
Others:						
b) c)			4			
d)						
e)	¥					
By-product: a) Mustard cake b) Guar moal		,			entre (a primer de la companya de l	

- b) Guar meal
- c) Cotton seed cake
- d) G.N. cake
- e) Gram Ghuni
- f) Wheat bran
- g) Rice bran
- h) Fish meal
- i) Blood meal
- j) Bone merl.

Others:

- a)
- c)
- ძ)

(1)	(2)	(3)	(4)	
Green Fodders a) Jower b) Bajra c) Cets d) Berseem d) Lucern f) Meize g) Cuer				
Others: a) b) c) d) e)				
Dry fodder: a) Whent Bhusa b) Rice straw c) Bajra Kørbi d) Jowar Karbi e) Maize Karbi f) Barley Bhusa g) Gram Bhusa				
Others: a) b) c) d) e)				

26. Problems faced by the villagers in disposing of their dead animals. (c) (b) (e) Troblems of Problems of fuel availrepairs, spere parts ability, quality, etc. prices etc. Tractor Cultivators b) Disc Horrow c) Bar Harrow Leveller e) Seed-cum-fertilizer f) drill. Maize sheller Trolley b) Bullock carts:

(i) Rubber tyre

(ii) Ordinary

(i) Power driven

Mould Board Plough

Others (Specify)

(ii) Hand driven

Cane crusher

Chaff cutters:

j)

k)

1)

a)

b)

c)

d)

e)

f)

28. Details of coverage by Irrigation facilities. A. Canal

Area covered Problems of Whather Other Water Getting water water is problems. allot— on time sufficient as needed; if not, why?

B. Tubewells

Area covered Problems faced by the wwners

- 29. Has any agency so for conducted water survey? Yes/no
- 30 If 'Yest in which year?
- 31. Consumption of electricity(Kwt.)
- 32. Problems with regard to:
 - (a) Mechanic
 - (b) Transformer thaft.
 - (c) Availability of new connections.
 - (d) Electricity Breakdowns.
 - (e) Electricity supply.
- 33. How much time is required in getting new connection?

34. Infrastructures:

Availability Problems faced If not availin the village able in the by the villavillage, how qers. far it is evailable inother village. Yes-No Distance

- a) Seed supplying ngency
- b) Stockmen
- c) Fertilizerdepot.
- d) Fair Price shop
- e) Others (Specify): (i) Flour Mill
- (ii)Oil Press
- iii)Medicina
- iv) Clothing
- v) Utensil
- vi)Repairs
- vii)Elactrical∠
- viii) Tailoring
- (ix)Building
 - Material
- (x) Furniture making
- (xi)Potteries
- (xii)Grocer.
- 35. Whether custom service facilities in the village are available? If 'yes', give details:
 - (a) Types of custom service.
 - (b) Scope for different custom services:
 - (c) Problems faced by different categories. of people:
 - (d) If custom service facilities and not available in the village, then:
 - Yes/No (i) do the villagers want custom service in the village? Give reasons:
 - (ii) Suggestions of the villagers:
- 36. Whether repair facilities and spare parts of tractors and machinery are available in the village?

37. Extension Agencies:

1			(12
		1. *		•
'gers'	opinion	Problems	faced	b١

about the effectiveness of the extension the villagers.

agency

(1)

Agency

Name of the

(2)

(3)

- a) Deportment of Agriculture.
- b) Copparative Deptt.
- c) Small Scale Industry.
- d) Agro-Service Centres.
- e) University(B.E.S.)
- f) Primary Health Centre
- g) Veterinary Services.

38 Marketing:

(a) Commodities sold Local Outside/distance Preferences

k Commodities purchased

- 39. What are the villagers which are dependent on your village for various transactions
- 40. What are main development in the village since independence
- Any other problems/suggestions of the vill-gers not covered above 41.

INTEGRATED RURAL DEVELOPMENT PROJECT, HISSAR.

Proforms for household survey

	(Small and	Margin	al Ferme	rs/Landl	eg Lab	ourors/A	rtisans) 🤚	
	Sr.No.	geringe-min-my		Name o	f the v	illa re		,— <u>,—,—,—</u>
	me of the he			S	ocial s embersh			
2. Ca	ste		Type of	family_		(Joint	/Nuclear)	
3. Ma	in occupation	n		Lubsi	diary o	cowation	n(s)	
hi	me of the re s/her relati ad.							
5. Fa	mily composi	tion:		Total	member	5		
Ag	e group	Male	Female	Worker		Educat: status	ional Kem	arks
Ве	low 5 years							
5	to 10 years							
10	to 15 years							
1 5	to 35 years							
35	to 60 years						200	
Abo	ve 60 years		u u raing system		A.41 **		***	
	Total		and the second second second	e de la composition della comp				
	all the chi f not, give			hool?	Yes	/ No		
7. Em	ployment pat	tern of	f the fa	mily:				
O _C	cupa tion		nber of rif Ra	days emp bi Sum		fotal	Remark	S
(i)	Farming				4	1 4		
(ii)	Dairying		, we will not					
(iii)	Poultry.							
(iv)	Service							
(v)	Wage work		102					
(vi)	Others (spe	cify)						
	Total	******		The State State Control of the State		Same of the last		
								

8. Annual production/income:

Lource	Operational size/number	Form of Quantity produce	Ra te	Value
(a) Farming	1			
i)				
ii)			5.	
iii)				
iv)				
v)				
(b) Dairy				
i)	÷ e	Albert Common or		
ii)	- 4			
iii)				
(c) Poultry				
i)		•	¥	
ii)	5			
(d) Wage work		distribution on		
i)		- waste of the		
ii)				
(e) Others (specify)				
Total				

- 9. Suggest measures to increase your present family income.
- 10. Family assets and liabilities:

ASSETS	LIABILITES		
Particulars Descrip- Value tion	Particulars Descrip- Value tion		
Land (i) Owned (ii) Leased in Buildings Livestock Stores Others	(i) Loams (ii) (iii) (iv) (v)		
Total			

11.	Which occu your famil	pation would y income? (l you like to a (Mention in ord	dopt for in er of prefe	ereasing erence)	
	(a) Dairy (b) Sheep (c) Pigge	rearing		, thunds on the		
		ge industry				
		es (specify)	- 3			
10	•			Carl and t	4	
12.	MIES C SOLVE	or substanting	e would you re	durie:		
	Particu	lars of assi	stance Volu	me/ Term	ns Duration Remain	
	(a) · Finan	cial			£ 4.	
	(b) Techn	4				
	(c) Marke	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10				
		s (specify)	ومعرا المحاد والمستهد والداري والرابي			
13.	If you nee	d any traini	n, who will g	o for it?		
		ame	Age	Qualifica	tion	 -
	1.			t ,	•	
	2.	*				
	3.			÷	and the second s	
14.	100	like to star who are like	rt on cooperati	ve line?	Yes/No	
	المراج والمشترد		Francisco de mario e de del 1			
15.		problem and	suggestions re	garding emp	oloyment and	

APPENDIX - C

Proforma for survey on the socio-economic status of rural women

	Sr.No		÷	Name of the	village
			ent ead of the Far		
Reli	gion		Cagte	Edu	cation
Type	of famil	.V.	Joint/Nuclea	ar	
Fami	ly compos	ition			
	Sex	Age	Education		Occupation Main Subsidia
Male (1) (2) (3) (4)	9		÷		
(5) (6) (7) Fema	<u>le :</u> -		+		
(1) (2) (3) (4) (5) (6) (7)	a since				
Empl	oyment pa	attern of t	he female adu	lts (Number)
Sr. No.	occura-	tion	f	umber of day or which emp oyed in a ye	-
(1) (2) (3) (4) (5) (6) (7) (9)	Tailoring Weaving Others	rk 1 d goat rea 1g	ring		
	(i) (ii) (iii)	******			;

5. Who makes decisions on the following issues? -

Sr.	Issues		Relation with the respondent
	Education	44.	
	(a) Boys (b) Girls		
(2)	Household expeaditure		ii .
(3)	Marriage (a) Boys (b) Girls		*
(4)	Purchase of agricultural	assets	
	(a) Machinery/equipment(b) Livestock(c) Land(d) Others (specify)	Mono s <u>i</u>	•
(5)	Loans/Borrowings	A	
(6)	Sale of Assets/Produce		
	(a) Livestock(b) Grains(c) Milk and milk product(d) Others (specify)	ts	

- 7. Which of the following occupations would you like to adopt for increasing your family income?
 - (1) Spinning and weaving

(2) Cutting and tailoring (3) Food Processing

(4) Toys and doll-making

(5) Embroidery

(6) Knitting (7) Vegetable growing

(8) Papier mashie

(9) Cane work

- (10) Others (specify)
- 8. What sort of financial and/or technical-help would you need for augmenting the family income?
 - (a) Financial
 - (b) Technical
- 9. (a) In which month can you conveniently come for training?
 - (b) What should be the most suitable time for training?

		(i) Ghar (ii) Ghere (iii) Baithak
11.	Kito	hen facilities
	(a)	Indoor kitcher
	(b)	Outdoor kitche
	(c)	Others (special

<u>.99</u>

(a) Indoor kitchen	Yes/No
(b) Outdoor kitchen	Yes/No
(c) Others (specify)	Yes/No

12. Cooking facilities

(a) Wooden chulha	Yes/No
(b) Smokeless chulha	Yes/No
(c) Angithi - portable	Yes/No
(d) Kerosene stove	Yes/N_O
(e) Gas (Gobar Gas Plant)	Yes/No
(f) Tandoor	Yes/No
(g) Others (if 'yes', specify)	Yes/No

13. Food Storage facilities

(d)

Are they satisfactory for

(a) Cooked Food	Yes/No
(b) Raw Food	Yes/No
(c) Bulk supplies	Yes/No

14. What are the methods used for storage of grains and cooked foods

	<u>Grains</u>	Cooked foods
(a)		
(b)		
(c)		

15.	Garbage disposal		
	(a) Burnt	Yes/No	
	(b) Burried	Yes/No	
	(c) Fed to animals	Yes/No	
	(d) Scattered	Yes/No	
	(e) Used for manuring	Yes/No	
	(f) Any other (specify)	Yes/No	
116.	Ground Water Drainage		4.5
	(a) Drains in house	Yes/No	
	(b) Type of drains (Pucca/Kutcha)	Yes/No	
	(c) Soak pits	Yes/No	
	(d) Septic tanks	Yes/No	
117.	Source of water supply and water stora,	χe	
	(a) Source of water supply		
	-(i) Surface water (Genal)	Yes/No	14
	(ii) Well (dug/bored)	Yes/No	
	44.	Yes/No	
	(iv) Hand-pumps	Yes/No	
	(v) Any other (specify)	Yes/No	
	(b) Water stored in		
	(i) Drums	Yes/No	
	(ii) Buckets	Yes/No	
	(iii) Tanks (cemented)	Yes/No	
	(iv) Pitchers	Yes/No	
	(v) Any other (specify)	Yes/No	
	(c) Is water supply adequate?	Yes/No	
18.	Pests		
	Is dwelling free of		
	(i) Rats	Yes/No	
•		Yes/No	
	(iii) Snails	Yes/No	
	(iv) Cockroaches	Yes/No	
	(v) Lice	Yes/No	
	(vi) Bed bugs	Yes/No	
	(vii) Termites	Yes/No	
	(viii) Any other (specify)	Yes/No	
	· · · · · · · · · · · · · · · · · · ·		

19. Domestic Animals

(a) Type
(i)
(ii)
(iii)
(iv)
(v)

(b) Place where kept

in the same house
Yes No Yes No

20. Remarks.

(Specify any other remarks concerning living conditions)

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