Chapter - VI

HERUS DETWIEN POVINCY, UNEIPLOYIELT AND LIGHATION

6.1 Ispues about poverty and its associates

Poverty is usually identified to be associated with unemployment. Suepticism about the reliability of the reported low levels of unemployment in developing countries have rise to the controversy about the association between poverty and unemployment. In the rural areas of developing countries, while poverty is more widespread, estimates of unemployment yield low figures. This may be due to the low cornings of the employed. There are some who are idle but rich. Similarly it to common to have employment and remain poor also. There are also different types and degrees of employment and unemployment. It is possible to be employed, but not continuously as in the case of agricultural isbourers. It is also possible to be employed but doing little work. Due to adverse location, job conditions and low wages, some aby be poor but prefer to remain unemployed.

As per the Sixth Five Year Plan (1980-35) document the latest estimate of the rate of uncoployment (1977-75) is less than 9 per cent of the worldorse while the proportion

below poverty line is 45 per cent of population. In other words, on a typical day in 1980, nearly 21 million persons in Imia were seeking and available for work but unable to find it.On the other hand, the number of people living below poverty line in 1980 can be placed at nearly 310 million. This shows that poverty in India is much more widespread than unemployment.

Danieler and liath presumed a strong appointion between poverty and unemployment. They believed that poverty was nainly due to inadequate work. They did not consider the time-criterian to measure uncoployment. They solely relied on income-measure of unemployment. As a result distinction was not made between poor and unemployed. The study ande by Renjit Bau besed on ESS data concluded that growth, employment and elimination of poverty, rather tian falling in a straight line, are opposed to each other. He observed a positive and significant accordation between incidences of poverty and memployment. Deatwella also concurred with this view point. Pravin Vicaria accepted in his recent study that there is a clear invorce association between nonthly per capita concumption expenditure levels and their respective incidence of unemployment by person-days. His study revealed that with some exceptione, the labourforce in the bottom deciles of bouneholds clearly suffer from higher incidence of unemployment.

Poverty and unexployment is not that oitple. They feel that there is a possibility of poverty and unemployment to be related positively. Novever unemployment is an urban phenomenon and also that of the middle class. The very poor connot afford to be unemployed for long. They must obtain a source of livelihood even if their wages are measure.

Raj Erishas observes that poor are nore numerous than idle and idle are more numerous than willing and only a fraction of idle are willing to work more. Hence all poor persons suffering from a deficiency of consumption may not be unemployed either in the willing cense or the idle seme; these are the working poor. And all unemployed persons (willing or idle) may not be poor. These poverty and unemployment vectors are not directly comparable; for the poverty is the ratio of unemployed person-days. Hence factors like the cut-off points used for the definition, the productivity of work and the dependency ratio qualify the relationship between poverty and unemployment.

Amartya Sen prefers to beep overty as a concept distinct from unexployment, without of course assuming them to be independent of each other. Employment is an important means of generating and distributing income, but a person can be rich,

yet unexployed, if he has other sources of income, and also a person can work very hard and shall be very poor. loverty is a function of technology and productivity, of constably of the means of production and of exploitation and social arrangements for production and distribution. To identify unexployment with poverty seems to improverish both notions, since they relate to somewhat different categories of thought.

MIS data based estimates of unemployment process a low rate of overt unemployment, but a very high rate of labour-force participation in rural India. This indicates to the existence of severe undercoployment in the rural arces when a large proportion-of the population subsists around the poverty line.

fodero observes that it is wrong to assume that overy one, who does not have a job is necessarily poor, because there say he many who voluntarily unemployed because of high expectations. Similarly there are many like artisens who may work full time in terms of hours per day, but may, nevertheless have very little income. Such people are by Destern definition fully employed, but often they are oftill very poor.

Yet another recent abidy 10 has shown that there is relatively little open unemployment in rural areas althorab in some localities seasonal unemployment can be devere. Crowing poverty is not necessarily associated with growing useuployment.

Indeed it is noteworthy that in none of the expirical studies of Asia¹¹ was unomployment of ted as a prominent cause of poverty.

Lakdawala 12 finds in many states in India that low standards of living of landless labourers are associated with fairly low unsuployment rates. This is a rather unexpected phenomenon. That is to say, poverty one unemployment instead of being positively correlated, are negatively correlated, i.e., poor regions in terms of development chased low unamployment. rates. One reason may be that in poorer conditions, the respondent's own perception of galaful memployment night be very exaggerated. Besides unemployment, everage earnings and dependency ratio also influence poverty incidence. Hence Bardian 13 feels that the gap between the incidence of poverty and unemployment to bound to arice, as the unemployment is not the only cause of poverty. Hishra 14 is of the opinion that e probe into the institutional perspective of the rural coming may provide an answer to the question as to, why all the poor are not necessarily uncoalayed. Surveyears Real observes that the proportion of labour time utilised increases with poverty with the implication that the equation between employment and poverty dues not some to hold good, because more members of the year families work and they work for more days in the year and yet they remain pour. R.E. Binha 16 remains that growing poverty is not necessarily esseciated with growing

uncaployment. The people at the bottom of consumption scale bave jobs although they are always on the alert for more revarding opportunities. Nepert of the Block Level Plan for Cabotaudepur 17 points out that apparent unemployment is not high for power people. Resolbility of uncoployment to mitigated by eigration to a large extent. Thus open unemployment and poverly are not always related. Dantrals 18 also feels that most of the involuntarily unemployed would be poor and all the employed wre not necessarily non-poor. The poor carnot afford to remain idle. They take up whatever work comes their way. however short may be its duration and however meanre the remuneration. Howetheless, by the definition used in employment statistics they are classified as employed. J.M. Sinba 19 carnes that the relationseip between employment and income (or in other words unemployment and poverty) may take any form depending on the assumption about the earnings per senday. Poverty and unexployment do not bear unique relationship. They necesse different phenomena in diverce socio-economic contexts. Insuployment accounts for a small part of the incidence of poverty. This is true at the group specific, as well as all-India level.

From the foregoing discussion what is obvious is that one cannot neatly frame poverty, unemployment and allied issues like migration, into a linear relationship. Hovever, un

order to identify the type and nature of relationship between them, a further probe into their causes and consequences of poverty, unemployment and migration is attempted here.

6.2 Foverty, unemployment and digration by applo-economic categories

The two villages of our study belong to the case agro-climatic region. Due to their inhorant differences in their socio-economic profiles, the incidence of poverty, unemployment and migration do not appear to be of the same magnitude. Table 6.1 shows that the incidence of poverty in the first village is such higher then in the second village.

Exple 6.1

Incidence of poverty, unemployment and migration

Village	for persons below soverty line to popu- lation	f of unemploy- ment by person- days to availe- ble persondays	is of nigrants to persons in the labourforce
			eth-Majoto-doughtugathiothirappas diameters (progression or tells de syndrositelle)
1. Sllandagudi	65.42	54.57	10.03
2. Siriyur	33.06	46,63	22•91

Source: The household survey 1991-82.

In the case of the second village the incidence of uncurlayment is higher than in the first village. Similarly incidence of migration is also higher in the second village than in the first village. This indicates that in the first village, though people work for more number of days, the communition expenditure level has not increased sufficiently to lift most of these from their undernourishment. This results in higher proportion of people being rekened as poor. However, the incidence of migration has its impact on the unemployment incidence. But for the migration the unemployment incidence would have been more. The lower incidence of unemployment in the first village can partly be attributed to the type of migration resorted to by the labourforce of this village. As wost of the migrants are long distance urban migrants engaged in service sectors, the number of days unemployed will be considerably lower for them.

The caste-group whose inclicaces of poverty, unemployment and eigration as presented in Table 6.2 does not reveal any olghidicant association between poverty, unemployment and migration for different caste groups. In the first village the dominant caste group is reporting higher incidences of poverty, unemployment and migration. In the second village the secondary group shows higher poverty, unemployment and migration. In the first village the dominant group is mostly composed of scall and wargital farmous and agricultural labourers. The secondary group of the second village to over to neighbouring Tamjore district for their prisary

occupation of toddy tapping. This is a seasonal job. Further the dominant community in the second village is sainly counti-tuted by a good proportion of medium farmers with lamb believe exceeding 2 hectares. So they face less incidence of poverty and have less need for signation.

Fercentage inclience of poverty, unemployment and migration for different costs groups

Village Coste Croups	Incidences of poverty	Incidence of unemployment	Incidence of migration
	G.	5	4
1. Silardogudi			
a) Dominant	63145	40.98	19.79
b) Secondary	15∙5 8	23.39	15.79
e) Terticry	11.4L	26.3	ë•33
û) Sobeduled Gastes	NO.	P24	•••
e) All	63.42	30.31	18.93
2. Ullimit	-		
a) Joainant	35.64	40.66	6.00
b) Secondary	44.44	44.41	52.17
o) Tertiary	41.37	29.30	0000
d) Scheduled Castes	39.62	52.65	44.53
e) All	33.06	46.63	22.51

Source: The household curvey 1901-02.

From these it appears that the incidence of poverty, unemployment and migration and their interaction is a matter of the size of the land bolding and nature of occupation rather than the cente distinctions.

It is interesting to observe the incidence of educational attainment on poverty, unemployment and migration (Table 6.3).

Forcentage of poverty, unemployment and migration for different groups of educational attainment levels

71	llage Sevel of educational attainment	Incidence of poverty by M.P.C.E.	Incidence of uncoployment by persondays (usual status)	Incidence of migretion clong labourforce
		2	<u> </u>	
1.	Silondagudi			
a)	Illiterate	64.50	44.47	15.44
b)	Pricery school Level	64.29	31.62	17.64
o)	Nidale school level	56 •46	25.03	36
d)	Secondary & above	54.54	1.13	66 •67
	ALL	65.42	53.91	13.55
2.	Cin Sur			
a)	ILLLocate	77.72	49.24	26 •35
b)	Frinary echool level	29.90	32.7 6	17.02
c)	Middle school level	2.50	31.07	25.00
a)	Secondery a above	25.00	29.67	16.67
	A22	33.06	46.33	22.51

Cource: The household survey 1931-32.

M.F.C.E. - Honthly per capita concumption expenditure on food.

While educational attainment has a vory marginal, if at all, effect on poverty situation it has distinct relationship with unemployment and migration especially of the urban orientation. As the lovel of educational attainment rices the incidence of unemployment decreases. This is seen in the case of both the villages. The first village where migration is of more urban orientation shows that migration increases with the level of educational attainments. In the second village where migration is rural to rural and seasonal, educational attainments.

Eable 6.4 presents the incidence of poverty, unemployment and migrationly economic classes. In the first village,
the highest incidence of poverty and unemployment is seen
in the case of agricultural lacourers. For the case group
the incidence of migration was the lowest. Similarly the
lowest incidence of poverty and unemployment is found in the
case of medium furters. Thus looking at the populations groups
by these economic categories, and ignoring the category of
artisans whose number is too stall, it is seen in the case of the
village that at group level, there is cancidence of pove ty and
unemployment. This however does not beer out in the case of
the second village.

Percentage incidence of poverty, unemployment and migration for different communic classes

Villa		Incluence of	Incidence of	Incidence of
		poverty by C.P.C.E.	unemployment by person-inys (usual status)	nigration in labourforce
				4
,	7.4 × 19.			
93000000000	Silendogadi			
£)	Marginel forcers	60.13	30 . 40	17.31
11)	Small famero	51-65	39.14	32.14
111)	Liedium Taregre	28.57	22.65	23.00
10)	Agrioultural			
	labourero	77.50	43.40	12.00
v)	Articens,	100.00	29.69	45.45
vi)	Othero	41.46	33 .1 2	15.04
	A13	65.42	33 • 31	10.53
1)	Barginal furners	19.05	46.03	1 5.30
11)	Small formers	44.62	49.78	5.56
111)	Medium farmoro	21.70	49.75	3.92
1v)	yerlougener			
	labourero	40.74	54.71	3 3•93
v)	Artieau."	0400	28.91	8.00
v1)	Othero	49.33	40.75	64.10
	All	35•U6	46.63	22.51

Source: The boweehold survey 1931-62.

^{*} Only I households are in this category.

The percentage distribution of population, unemployment and migration for different class in tervals of monthly per capita consumption expenditure as presented in Table 6.5 does not show any significant trend for for either of the villages. It is generally believed that as we go up in the higher communition scale, the incidence of unemployment decreases. This phenomenon has been observed by Fravin Visaria in his study of NGS data for Sujarat and Mahamashtra. Such a trend is not noticeable from the surveyed villages of this study.

In the first village there is very high incidence of poverty with relatively low incidence of unemployment, whereas in the second village lower poverty incidence was coupled with relatively high incidence of unemployment. Hence relation between poverty and uncuployment cannot be specified in clear-cut terms.

The households in the two curvey villagues are further classified into eight categories i.e., i) poor, ii) unemployed, 111) migrant, iv) poor and unemployed, b) poor and migrant, vi) unemployed and migrant, (vii) poor, unemployed and migrant, and lastly viii) non-poor, fully employed and non-migrant. For the purpose of this classification, any bousehold reporting or more days of unemployment per labourer in the household were rekened as households reporting unemployment.

Fercentage distribution of population, incidence of unemployment and migration for different monthly per capita consumption
expenditure intervals.

illagos iionthly por- capita cor- sumption expenditure in S.	ႈ of population	% of un- ouployment by person- days (usual stotus)	ក of migretics in labourioree
and the state of t	2	3	4
1.Silendoguii	Charles Market & Market Charles & Sandard Conf. Market Charles & Sandard Conf.		
Leso than 6.16	00.00	90.00	00. 30
17-32	bi • 25	54.19	15.33
35-43	25.73	46.71	13,46
49-64	30.34	3 6 • 6 3	22.39
65-30	20.39	29.26	26.57
8 1- 96	8.01	43.93	10.53
97-112	4 • 61	21.31.	23.63
More than 2.112	2.67	52.99	11.11
All	100.00	65•49	19.55
2.651224742			
Leve then 8.16	00.00	00.00	00.00
17-3 2	00.00	೦೦•೦೪	00.00
33-4 8	13.17	41.25	9.52
49-64	25,49	43.76	25.21
65- 00	19.33	51.27	12.12
3 1- 96	19.61	54.61	20.00
97-112	8,40	46.77 .	21.35
More than 2.112	14.01	43.95	56.25
43.1	100.00	47.57	25.54

Bource: The household survey 1981-82.

It excurts to ope-third of the total number of days in a standard person-year. In the rural areas employment for a period of 6 months is sufficiently large. Horsover this cutoff line gives a resonable number of households to be above this arbitrary out-off point. These prompted us to adhere to this norm to classify the buseholds as unexployed and fully caployed. To identify poor bousehold the nonthly per capita consumption expenditure of E.64 was used as out off point. Irrespective of the duration, and distance, if a nowehold reports that the lebeurforce in employed sateside village, such household is rekoned as migrant household. Table 6.6 shows that in both the villages, the proportion of "only unemployed" households to the highest. Next comes the "poor and use in layer. The number of households who are poor with all the other accociation (except unemployment) is larger than the number of households who are "pooradduneuployed". Thus, to say that all the uneaployed bouseholds are poor bouseholds, may not be valid.

Classification of households by incidence of poverty, unemployment and migration.

Category ox households	no.of house— ellod	Percentage of household to total
	2	<u> </u>
1. Milendegudi		
a) Poor	Ė	10.39
b) Unemployed	21	27.27
e) Bigrant	7	9.09
d) Poor and unemployed	50	25.97
e) foor and algrant	6	7.00
f) Uncaployed and nigrent	4	5.19
g) foor, unemployed and digrent	ÿ	11.69
h) Non-poor, fully employed end non-	~	
olerat	2	2.60
All	77	100.00
2. Siriver		
a) Posz	3	4.17
b) Unemployed	34	47.21
e) Migrant	1	1.50
d) Poor and unemployed	12	16.67
e) Feor and pigrant	w ¹ 3. w ² * w.c.»	2.73
f) Uneu plo yed and migrant	12	16.67
g/ Four, weemployed and migrant	4	5.56
b) Non-poor, fully suployed and		
non-milseent	Å.	5.56
All	72	100.00

Hource: The how chold curvey 1901-02.

6.3 Factors determining poverty, unengloyment and migration.

Eultiple regression analysis was attempted toldentify the factors that affect the level of per capita consumption expenditure, number of days unemployed per lebourer in a year and the number of migrants in the beasehold. For the purpose of this analysis, all the households in the two villages were taken together. These 149 households were sub-grouped into three sets i.e., (a) poor bouseholds (62) (b) non-poor households (67) and all households (149). The following ten variables were considered:

z, - Annual per capita consumption expenditure on food,

x₂ - Number of days unemployed in the year per labourer
in the household.

 x_x - Sumber of migranto in the household

z, - number of persons in the bousehold.

x5 - Number of femble labourers in the household.

ze - Number of capual ladourers in the bounehole.

x7 - Size of land boldings in bectere.

x, - Labourforde participation retio

xq - Dependency ratio

x10 - Literacy secto.

It is clear from the list of variables presented allow that many of these factors are interdependent, one either being a strong associate or a derivative of the other. However,

variable should be expressed, the entire list was considered initially.

The matrices of correlation coefficients are shown in tables 6.7, 6.8 and 6.9 for poor, mon-poor and all households respectively. These tables insiente that in the case of all the cets, i.e. your, non-poor and all households, the incidence of migration is significantly associated with the number of percons in the family, the size of the land bolding and literacy ratio. Similarly the size of the land holding is highly correlated with the literacy ratio. Hence in the rural press lend as an important form of as et, influences digration and education considerably. In the case of poor and non-poor households uneaployment is associated with the size of the land holding. Potter off households in terms of land holding report greater unemployment. Big families are more migretion prone. There is significant association between lend cize and literacy rutio. As expected in the case of familics with higher dependency ratio, the literacy ratio is higher. This shows that the possession of big holdings result in relative affluence which induce more children in the family to be sent to school. This enhances the literacy ratio of the household. Subsequently, the dependency ratio of the boundhold is also increased.

Table 6.7

Correlation coefficient matrix for poor households

Varia-	¥	H ^O V	N.	H	*&v	Ñ		No.	Ş	N 10
¥	*						-			
ų,	-0.1323	ŧ								
M.	0.0510	9721.0	ŧ						٠	
	0.0410	0.1476	0.7308**				•			
r ki	6590	96000	0.3539%	事をつってもなる	•					
•	10.00 to	0.1212	\$ 237Co	3* 0.1676	0.2002	ŧ				
	-0.0573	\$55 %	0.3591	**-0.2373*	40,1319	9990	ŧ		`	
- 1	20.00	0.0252	0.2034	0.1825	******	0,3825**-0,0769	6910.0	4 .		
) ผ	6985 9	0.00	0.106	0.0269	0,2041	0.6252**	0.6252** 0.36934 0.3632**	\$ 36888 ¢	1	
v v	-0.1612	\$00.0-	-0.000 0 C	0961.07	らればい	0,27.17	10010 *** AD 10.0	1981.0	\$ 000000 a	,

** Significent at one per cent level

^{*} Significant of thro ner cent level

Table 6.8

Correlative coefficient cetrix for non-por households

Veris.	\$ P	Z Z	Z3	X	M TJ	\$ 9		#	F327	×10
X										
Ŋ	40.200104	ঞ্চাই							•	
H ^C		\$ 53.0								
M.	\$0000	0.8357	\$ 5070 E							
M. C.	NE STA	1126	0.2077	0.3721	-					
× °	-0.0347	7.151.0-	\$ 15TO	0.0526	0.3735##					•
7	0.6250		0.24420 -0.3276**-0.633	-0.633	ಂಕಾಗಿ ರ	30,40.0				
M	-0.0T03	10.00	2440	£060*0	0.91070	0.91070 0.5.460 0.0104	\$250.0°			
N.	0.0334	-0.1655	0,2470	0.24750 -0.21580	0.1483	0.6430** 0.1553	5.1593	0.22030		
<u>ې</u>	- MO-0	0.1665	-0.5397**	1961 O-001	0.4224	7007 c	0.7216° 0.1491	0.1491	0.25910	
~	•				•	•				

se bignificant at one per cost level

^{*} Significant or five per cent level

Table 6.9

Correlation coefficient matrix for all housebolds

Varia. Ves	N	C-45		H	14 (2)	NO NO		C	A TO	N S
M					~				Al Louis and the Company of the Comp	AND THE PROPERTY OF THE PROPER
N N	-0.82756×	*						\		
14 (C)	-0.1695#	201.00								
K	10,1235	\$ 50 mm in 1800 in 180	0.6627**							
· Ker	0610.0-	550.0	0.176	\$ \$ 000 p. a						
, wo	0.0169	070.0	0.1533	0.0775	C+3363##					
\$7	0.1250	0.1420	-0.4931**	*0501.0-a4	1760*0	0.1506*				
. × ₂ 0	0.0317	127.0	\$ 6.50 C	G.0252	0.8714	0.8714** 3.4180** 0.1333	0.1383			
, co	1780 C	\$100 C	10.4345°° 10.1557	1257	0.1911#	0.6465*0	0.6465** 0.3157** 0.2923**	0.2923e#		
, K	0.1230	0.03	10.10.4917** -0.1791	-5.17e3	*********	0.2750**	0.67924*	0.2750** 0.6792** 0.2434** 0.3660**	P 2666 P 4	-

*" bigaificant at one per cont level

^{*} Significant at five ner cent level

In the case of the set of "poor households" poverty, unemployment and migrations are not significantly associated with each other. However, in the case of the sets of 'non--poor' and 'all households', the annual per capita consumption expenditure is highly associated with the incidence of uncapployment and migration. Further in these two sets, level of unemployment is significantly determined by the number of migrants and the number of persons in the family.

For the multiple regression analysis, initially the annual per capita consumption expenditure on food use taken as the dependent variable (x,). The other remaining nine variables were taken as independent variables. The interrelated variables among the independent variables were dropped to avoid multi-collinearity. Two or three cachinations of independent variables were chosen for each set, each combination representing a group of uncorrelated (not significantly correlated) independent variables. These combinations for each group are shown in the following equations:

(a) Poor households

$$x_1 = a - b_2 x_2 - b_4 x_4 + b_5 x_5 + b_6 x_6 + b_{10} x_{10}$$
 ...(1)

$$x_1 = a - b_4 x_4 + b_5 x_5 + b_6 x_6 + b_7 x_7$$
 ...(2)

$$x_1 = a - b_2 x_2 - b_3 x_3 + b_6 x_3 + b_{10} x_{10}$$
 ...(3)

(b) Non-poor bouseholds

$$x_1 = a + b_2 x_2 + b_3 x_6 + b_{10} x_{10}$$
 ...(1)

$$x_1 = u - b_4 x_4 + b_6 x_6 + b_7 x_7$$
 ...(2)

(c) All howeholds

$$x_1 = a + b_2 x_2 - b_5 x_5 + b_7 x_7$$
 ...(1)

$$x_1 = a - b_1 x_1 - b_2 x_2 \qquad ...(2)$$

$$x_1 = a - b_4 x_4 + b_6 x_6$$
 ...(3)

Sable 6.10 property the results of multiple regression analysis for the poor set. Out of the three equations tried, the second equation gives relatively significant and higher value of R². This equation was considered with the following four independent variables: (1) the number of persons in the household (11) the number of female workers in the household (111) The number of casual labourers in the household (11) the size of land holding.

persons in the howehold and the size of the land holding are statistically significant. The results of this second equation indicate that if the size of the howehold increases by one person, the annual per capita consumption expenditure on food will decrease by \$1.32. This significant negative relationship between per capita consumption expenditure and the number of persons in the family is understandable. If the size of the land holding increases by one hectare, the per capita

<u>Table 6.10</u>

<u>Multiple regression resulte for poor bouseholds-dependent</u>

<u>variable: Annual per capita consumption expenditure on food</u>

Independent Veriable	·	no		l velues of ents in equ	cogrection atiom
	m) ermenik kur er	وموادوا والإنجاز والمراجعة	1	13	161
		-		4	5
Constant		a	749.562	720.343	607.179
Under of daysleaployed in	32	p ⁵	-0.2742 (0.9552)	sta	-0.3992 (1.3442)
Number of porsons in bousehold	X ₄	P	-26.95350 (5.1780)	31.7260** (4.067z)	-21.7664** (2.3523)
Number of femile workers in howebold	x 5	b ₅	0.9231 (0.3777)	5.67756 (0.2786)	for
Saubor of Capaul Labourero in howebold	×G	^b 6	34 •4267 (1•7013)	32. 8553 (1.7466)	ou.
Sine of land holding	257	\mathcal{D}_{γ}	800 3	71.3485** (2.5134)	
Labour force particips- tion ratio	X)	b	. BASE	4:49	149.768 (1.5504)
Literacy rutio	×10	010	46.4662 (0.6650)	wate	39.0264 (0.5769)
Coefficient of determine- tion	_E 2	0.1	945*	0.2755**	0.1692*
Adjusted eneificient of determination	2	0.13	223\$	0.2824**	0.11093
Frietio (Degree of freedom)		2.75 (5,5		(4,57)	2.9029 (4,57)
Durbin-Vutcor statistics		1.4	164	1.6529	1.3096

Wote: Figures in parenthenes are t-values

RC:Regression Coefficiento

^{*} Significant at one per cent level * Significant at five per cent level

consumption expenditure of the household will increase by Ex.71. In other words, lead as productive asset in the rural arcss will improve income and levels of living.

The results of the multiple regression enalysis for the non-poor households are presented in table 6.11. Between the two equations attempted for this cet, the second equation is etailstically significant at one per cent level. The R2 is 0.2062. The number of persons in the household, the number of casual labourers in the household sad the size of the land bolding are the three independent variables regressed with the amusl per capita consumption expenditure on food as the dependent variable. Among the three independent variables the size of the facily and the size of the land holding are statistically significant at one per cent and five per cont levels. Further it implies that increase in the size of the family by one parson will decrease the amual per capita consumption expenditure by 0.60. If the size of the land holding increases by one hectore, it will improve the amuel per capita consumption expenditure by 3.106. Hence in the case of non-poor households also, the cise of the bousehold and the size of the land holding are important determinants of consumption levels.

For the third set, i.e., all households (poor end non-poor combined) three multiple regression equations were tried. The results of the same are presented in table 6.12.

<u>Cable 6.11</u> Multiple regrecaion results for non-poor bouscholds-dependent variable: Annual per cepita consumption expenditure on food

Independent Variables		RC		lues of regression in equations
			1	11
ere en politica de manuel de manque de manque de manque provincia de manque de provincia de para de apparación en provincia de manque de	ette (myellettekker t	2		at the first of the property of the company of the second of the company of the c
Constant		a	959 .0 50.	1259458
Number of days unemployed in a year per labourer x	i (2	bi	0.2682 (0.4297)	186
Humber of persons in household	X4	b ₄	f	-6∪√0455* (4•1539)
Number of female overhers in household	ڌ [¥]	b _S	18.5607 (0.3912)	•••
Number of capael labourers	¹² 6	b _G	**	57.1071 (1.0939)
Size of land holding 2	Erz	13 ₇	****	105.048* (2.7501)
Literacy ratio	¹² 10	b10	155.697 (1.3596)	•
Coefficient of determina-	**	112	0.0234	0. 2662**
Adjusted en efficient of determinations		ΠŽ	-0.0119	0.1775**
T-ratio			0.6615	7.1682
modoori le serged			(3,63)	(3,33)
Jurbin-Vatson statistics			1,7156	1,6225

Note: Pigures in parentheseo am t-values.

MO: Rogression Cocfficient.

^{**} Significant at one per cent level. * Significant at five per cent level.

<u>Table 6.12</u> Bultiple regresoion, results for all bouseholds-dependent veriable: Annual per capita consumption expenditure on food

Independent Variables		RO		l values of ats in equ	
			T	II	I.I
		2	3	4	
Constant		ø.	705.102	e 61. 602	1260.99
Number of days unemployed in a year per labourer	²² 2	b ₂	0.9067 C1-6525)	***	-
Sime of household	I.	bĄ	ME	-52.7915=0 (4.2568)	
lumber of female labourors in household	X5	b ₅	-23.7099 (0.5978)	niep	atin
Munbor of canual labourers	FG.	b _S	-	XMP	114.7155 (4.1544)
Sine of land holding	\mathbb{E}_{q}	by	150.702~° (3.4960)		**
Labour force participa- tion ratio	z,	b	***	536.60ano (4.4762)	340.
Ovefficient of determinatio	n	H2	0.0946**	0.3333**	0.3210
Adjusted coefficient of determination		52	0.0759**	0.324260	0.3127**
P-ratio	ethyn regysynt engels dywr en	and My Artillians	5.0499	36.4930	34.6615
(Dogree of freedom)			(3,145)	(2,146)	(2,146)
Durbin-Tataon Itatistics			0.9476	1.0398	1.4271

Note: Figures in parenthesis are t-values.

^{**} Significant at one per cent level.

* Significant at five per cent level.

RC - Rogression Coefficient.

All the three equations are statistically significant at one per cent level. Asong them, the second equation gives a better fit, its n2 being the highest (0.3933). In the second equation, the size of the mousehold and the labourforce participation ratio are the two independent variables. Both of them are statistically dignificant at one per cent level. As per the second equation, increase in the size of the family will reduce the per capita consumption expenditure by 6.53. Increase in labourforce participation ratio by one unit will increase the per capita cannal consumption expanditure by \$.537. The other two equations were tried with different combination of independent variables. Out of thee, the variables such as size of land holding and the number of cusual intourers in the femily also turned out to be significant determinants of per capita consumption expenditure. Hence irrespective of the set, the factors that influence the per capita consumption exponditure cost nignificantly are: the size of the family, and the size of the land holding.

Though, strictly speaking, interchange of dependent and independent variables in a function is not proper, once the function has been specified, our specification have, particularly in respect of poverty unemployment and migration is however not very definite. Therefore, in order to get a better ineight into the interrelationship between various variables, we have attempted further alternatives with, unemployment and them with rigration as independent variables.

thus, as an elternative the average number of days un-employed in a year for the household (x_2) was considered as the dependent variable for the next set of regressions.

As earlier, three different combinations were formulated for the poor cer. A combination with three independent variables was tried for the non-poor set. For the third set (all households), three combinations of independent variables were used. Each of those combinations for the three distinctive news were representing a group of not significantly correlated independent variables. The combinations for each set are as follows:

POOR households

$$x_2 = a - b_1 x_1 + b_5 x_5 - b_6 x_6 - b_7 x_7$$
 ...(1)

$$x_2 = a - b_1 x_1 - b_3 x_3 + b_6 x_3$$
 ...(2)

$$x_2 = a - b_1 x_1 - b_7 x_7 + b_8 x_3$$
 ...(3)

Mon-poor households

$$x_2 = a - b_4 x_4 - b_5 x_6 + b_7 x_7$$
 ...(1)

MII bonsehold

$$x_2 = a + b_1 x_1 - b_7 x_7 + b_2 x_8$$
 ...(1)

$$x_2 = a + b_1 x_1 + b_6 x_5 - b_7 x_7$$
 ...(2)

$$x_2 = a + b_1 x_1 - b_0 x_2 + b_6 x_6$$
 ...(3)

Sultiple regression results for the pour bouseholds are about in table 6.13. All the three equations with different combinations of independent variables are found with very small

Eable 6.13

Enlitiple regression equation results for poor households-decendent variable: Number of days unceployed in a year per labourer

Independent variables		ic	Detinated values of regrenate coefficients of equations			
			The state of the s	ī:	121	
		e.	2	L.	9	
Constant		e	144.0320	130.271	151.374	
Annuel per capita consump- tion expenditure on food	×1	b ₁	-0.0519 (0.8050)	-0.0769 (1.3097)	-0.0749 (1.3694)	
Rumber of migrent in the house old	E _Z	b ₃	est/f	-5.4555 (0.8286)	4.0	
Jumber of persons in the household	T.	bg	1.3302 (0.3199)	-		
Humbor of casual labourero in the bousebold	FG	ď	-3.3663 (0.3850)	•	**	
Size of land holding	37	b ₇	-5.379 (0.4451)		-3.9949 (0.5095)	
Labourioroe particlpation ratio	X J	b	•	67.9241 (1.6761)		
Cocificient of determine-	•	112	0.0319	0.66131	0.3729	
Adjusted coefficient of descraination		2	-0,0361	0.03432	0.0245	
F-Matio		•	0.4692	1.7225	1.5110	
(Degree of freedom)			(4,57)	(3,50)	(3,54)	
Aurbin-Watson statistics			1.0472	1.9977	1.9453	

<u>Mote:</u> Figured in parentheses are t-values. MC - Regression Coefficients.

R values. This indicates that there is no significant association between the considered independent variables and the dependent variable 1.e., unemployment. The first equation was considered with the following four independent variables. (i) annual per cupita concumption expenditure, (ii) the size of the household, (iii) the number of casual labourers and (iv) the size of the land holding. In the second equation a combination of independent variables vis., amual per capita consumption expenditure and labourforce participation ratio was tried. Whe third equation was attempted with the combination of two independent variables i.e., amual per capite consumption expenditure and the size of the land holding. In each of these three equations a combination of 2 to 4 variables were corridered. Hone of the equation is found to give statistically significant H2. Horeover the independent variables considered in each equation were also not significant statistically. However the explanatory variable were as essected.

Table 6.14 shows the results of multiple regression analysis for non-poor bouseholds. A combination of three independent variables (i.e. number of persons in the family, number of casual labourers and the size of lard belding) were considered in a single equation, the results of this equation was also not significant. Among the three independent variables, the size of the family and the number of casual labourers in the family appeared with negative signs.

Eable 6.14

Enltiple regression results for non-poor households-dependent
variable: Mumber of days unemployed in a year per labourer.

Independent variable		Et ©	Notinated values of regres- zion coefficients in equation
	******		ì
1		E,	55
Constant		a	159•155
Number of persons is the household	124	b ₄	- 5.2993 (1.9145)
humber of capual labourers	N _O	⁵ 6	~ 5•4835 (0•3490)
Size of land holding	¥7	b_7	3 .5 977 (0 .41 60)
Coefficient of deter- minution		₁₁ 2	0.0572
Adjusted coefficient of determination		<u>~</u> 2	0 . 6232
F-Hetid			1.6797
legree of Freedom			(3,03)
Durbin-Setson statistics			1.9674

note: Pigures in purentheses are t-values. No. Regression coefficient.

The results of regression analysis for the third set (all bouteholds), is shown in table 6.15. All the three equations attempted did not give a significant H² value. Henc of the independent variables were also found to be significant. In conformity to our expectation the number of persons in the

Sable 6.15

Exiltiple regression for all householde-dependent variable:

Sumber of days uncomplayed per labourer in a year

Independent variables		RO	Estimated values of rogres- sion coefficients in equation			
,			Mark Control of the C	II	III	
		2			3	
Constant		8.	101.621	104.237	193.404	
Annual per capita expendituré	114	bı	0.0062 (0.5943)	0.0204 (1.6525)	0.0110 (0.7712)	
Number of persons in household	M.	b _d	ŭa	***	-2.3056 (1.2105)	
iumber of female labourers	¥5	b 5	5.2620 (0.8861)	èus		
dander of casual labourers	ā _ú	b ₆	40r	ncė	3.5039 (0 .7 537)	
Lend sisc	x7	b ₇	-2.2143 (0.5255)	-4.2067 (0.6255)	•••	
Labourforco porticipation catio	*	ಶ್ರಿ	31.9755 (1.4717)	enile	***	
Coofficient of determinatio	n	32	0.0524	0.0232	0.03467	
Adjusted coefficient of determination		M _S	0.0124	0.0030	0.0147	
P-retio			1.6174	1.1468	1.7361	
(Dogree of freedom)			(3,145)	(3,145)	(3,145)	
Durbin-Vateon etatietics			1.0579	1.0421	1.350;	

Note: Figures in parentheses are t-values.
Note: Regression coefficient

family, the number of casual labourers, and the size of land holding appeared with negative signs.

Similar to the earlier exercises, another regression model was set-up. The number of migrants in the bousehold was taken as dependent variable (x_j), the other remaining nine variables were considered as independent variables. In accordance to carlier classification, for each set (1.0., poor, non-poor and all bouseholds) combination of two equations were tried. They are:

(a) Four households

$$x_3 = -a + b_1 x_1 - b_2 x_2 + b_4 x_4 - b_6 x_6 + b_{10} x_{10} \qquad \dots (1)$$

$$x_3 = -a + b_1 x_1 - b_5 x_5 + b_6 x_6 + b_7 x_7$$
 ...(2)

(b) Non-paor householdo

$$x_3 = -a + b_5 x_5 + b_9 x_9$$
 ...(1)

$$x_3 = a + b_2 x_2 + b_5 x_5 + b_{10} x_{10}$$
 ...(2)

(c) All households

$$x_3 = a - b_2 x_2 + b_5 x_3 - b_7 x_7 \qquad ...(1)$$

$$x_5 = -c + b_1 x_1 + b_4 x_4 + b_6 x_6$$
 ...(2)

Table 6.16 shows the results of regression analysis for the poor set. R² value for both the equations were not significant. Among the combination of independent variables, the smuel per capita consumption expensiture level and the number of persons in the family were algnificantly associated.

kmble 6.16 Multiple regression results for poor bouseholds-departent variable: Number of migrante in the household .

Indepancent variables		He	Estimated values of regres- sion coefficient in equations		
Alata, Mila en Johango en mario co rementa del Galande processo de la companio en estado de la companio del la companio de la companio de la companio del la companio de la companio del la companio de la companio del la		National Adjust.	I.	II	111
		2	<u> </u>	4	33
Constant		B.	-1.4954	- 0.0693	
Annual per capita consumpti expenditure on food	ion X ₁	ba	0.00224 (2.0146)	0.0011	
humber of days unconloyed por labourer in a year.	E2	p^5	-0.0019 (0.7662)	***	
Number of persons in the bousehold	Zą.	b _d	0.1540°° (2.0944)	••	
Number of female Labourers in the bounehold	×5	ď	**	-0.0971 (0.5690)	
Number of casual labourers	R ₆	\mathfrak{b}_6	-0.1986 (1.1790)	0.0602 (6.0010)	
Size of land holding	117	b ₇		0.2210 (0.9579)	
literacy ratio	E10	b ₁₀	0.4462 (0.7846)	win .	
Coefficient of determination		et a	0.1414	0.495	
Adjusted coefficient of determination		72	0.0648	-0.0185	
2-Ratio			1.8451	0.7230	
(Degree of freedom)			(5,56)	(4,57)	
Darbin-wateon statistics			2.2703	2.1996	

Mote: Figures in parentheses are t-values.

^{**} Significant at 1 per cent level * Bignificant at 5 per cent level

RG - Regression Coefficient.

The independent variables vis., the number of days unemployed per labourer, number of casual labourers and the number of female labourers appeared with negative signs.

In the case of non-poor set, table 6.17 shows that between the two equations, the second equation gives a statistically eignificant value of H². But the absolute value of H² is a all. This is indicative of the wesk correlation between the variables considered. The incidence of aucaphoyment is significantly associated with the incidence of migration for the non-poor bousehold. Hence higher the incidence of migration in the non-poor households.

Out of the two equations tried for 'all the bouseholds', the become equation turned out to be a better fit (Table 6.10). In this equation all the three independent variables are oight-figurely associated with migration. The respective independent variables are annual per capita consumption expenditure, number of persons in the household and the number of casual labourers in the household. To be more specific, increase in the number of persons in the household increases by one person, the number of migrants in the family will increase by 0.17 units. Similarly, when there is an ancrease of one casual labourer in the family, there will be an increase in the number of migrants by 0.22 units.

Multiple regression results for non-poor households-dependent variable: Number of migrants in the bousehold

Independent variable		ec	Estimated values of coding 2001 1000 plant in squattons		
C.	***	-	i.	ما الله	
		2			
Constant		8	-0.6797	0.0345	
Amual por capita comeunp- tion expenditure on food	2	b	0 .0 006 (1.7 523)	-	
Sumber of days anemaloyed per labourer in a year	×2	b ₂		0.6657** (2.8093)	
iumber of formie labourers	ä.	b ₅	0.3078 (1.8637)	0.3951 (1.9193)	
bopendency ratio	3	b g	0.1613 (0.9889)		
Literacy ratio	*10	b ₁₀	***	0.2611 (0.6989)	
Coefficient of dotermination	11	R^2	0.0697	v.1243°	
Adjusted coefficient of determination		Second J	6 . 0349	0.0927=	
P-retio			2.0396	3.9270	
(Degree of freedom)			(5,83)	(5,65)	
implin-Mateon stutistics			1.5006	1.5136	

Note: Figures in parentheses are t-values.

^{*&}quot; Significant at 1 per cent level * Significant at 5 per cent level

RU - Regression coefficient

Table 6.18 Multiple regression results for all households-dependent variable: Dumber of migrants in the household

Indepondent variables		AC	Estimated values of regres- sion coefficient of in equations		
- 17 18 18 18 18 18 18 18		2			
Cometant		a	1.0320	-0.9442	
Annual per capita consumy- tion expenditure on food	×,	61	炸锅	0.0003** (3.5211)	
Number of days unemployed in a year per labourer	x 2	\mathfrak{b}_2	-0.0045** (2.9035)	••	
Humber of persons in bounch	old X ₄	b _¢	•••	0.1756** (4.0757)	
Humber of female labourers in household	×5	b _Š	0.1294 (1.1119)	-	
Number of cosmal labourers in househols	³³ 6	ъ ₆	**	0.2265° (2.3669)	
Size of land holding	×7	b ₇	-0.0547 (0.4462)	-	
Coefficient of determination	a	12	0.06135	0.1165***	
Adjusted coefficient of determination		52	0.0418*	0. 0952##	
P-mutio			3.1543	6.3741	
(Degree of freedom)			(3,145)	(3,145)	
Durbin-Untson Statistic			1.6452	1.7322)	

Mote: Figures in parentheses are t-values.

^{**} Significant at 1 per cent level
* Significant at 5 per cent level

mo - Regrecoica Coefficient.

From the foregoing analysis, it appears that irrespective of the set, i.e., 'poer' or 'non-poor', or 'all', level of appearant on expenditure on food and the number of nigrants in the family are influenced by the size of the family, number of casual labourers, labourforce participation ratio and the size of the land holding. However the incidence of unemployment for all the sets is not at all associated with any of the considered variables significantly. It may be due to non-inclusion of factors with are non-quantificable such as climite, soil condition, irrigation potential, nature of privary occupation, etc.

6.4 Coaclamions

From the foregoing analysis the following specific conclusions our be drawn:

- (1) The incidences of poverty and unexployment do not reveal a specific partern. In the first village, higher poverty incidence is accompanied by lower unexployment ratio. This in the second village it is vice-versa. So it cannot be generalized that poverty and unexployment are correlated.
- (2) Though the incidence of migration in both the villages is not much different, its alleviating influence on unemployment is apparent.

- (3) The lower incluence of unexployment in the first village may be attributed to predominance of long distance urban migration.
- (4) With regard to incidence of poverty, unemployment and migration, village level factors like location, soil condition, irrigation facility, productivity of the soil etc., are of significance, though not exactly quantifiable here.
- (5) The caste ciutinotions as such do not influence the impldence of powerty unemployment and migration.
- (6) The level of educational attainments has marginal effect on poverty, but significant positive effect on employment and urban oriented migration.
- (7) The economic status of population (or in other words the primary occupation and the land base) considerably lafteences the incidence of migration and unemployment and poverty.
- (d) Levels of morthly per capita consumption expenditure do not reveal unique trend in relation to unemployment indidence.
- (9) From the correlation coefficient untrides, it appears that irrespective of the set whether it is 'poor' or 'non-poor' or 'all boundedles', the pize of family, and the size of lond-holding are eignificantly associated with concumption levels, unexployment and migration, and also with literacy rates and dependency ratios.

of the family, labourforce participation ratio and the size of the lam holding are the significant factors which explain the concumption levels, unemployment and signation.

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