

Study No. 91

NON FARM EMPLOYMENT IN MADHYA PRADESH

Ashutosh Shrivastava

**AGRO ECONOMIC RESEARCH CENTRE FOR
MADHYA PRADESH AND CHHATTISGARH
JNKVV,JABALPUR**

CHAPTER I

1.1 INTRODUCTION

In the past many researchers and policy makers have viewed the rural economy of the third world as being synonymous with agriculture. According to this school of thoughts rural households receive the bulk of their income from the production of crops and major portion of rural work force is engaged in agriculture based activities. The non farm activities, if any, were in traditional agro processing and marketing and transportation with limited scope for employment, as the major portion of the primary produce was not meant for the market.

In the past few years this view has begun to changing. There is now a growing recognition that the rural non farm sector which includes such diverse activities as commerce, manufacturing including processing service and government jobs also plays an important and significant role in the economics of rural households.

This changed view is largely due to the results of rural budget surveys in a number of developing countries, which suggests that share of non farm income in total income ranges between 13 and 67 per cent.

According to these surveys the contribution of non farm income to total rural income is especially high in those areas where unfavourable labours to land ratio constrains income earning opportunities in agriculture. In land restricted areas of the third world like South and Southeast Asian countries the rural non farm income is now often viewed as a key source of income for rural households.

Other eminent researchers such as Johnston and Kilby (1975), Mellor (1976) Anderson and Leadspersons (1980) have also studied non farm employment and established its importance in rural household income.

1.2 What is Rural Non Farm Sector?

Various organizations working in the promotion of rural non farm employment have defined the word non farm sector in their own way. The National Bank of Agriculture and Rural Development (NABARD) was the first agency which used the word “Rural Non Farm Sector” in

the year 1992. It defined the term by listing small, cottage, tiny and village industries in 22 major categories of activities. This list was expanded periodically and ultimately included almost all the rural industries and services. The Planning Commission, Government of India includes Khadi and Village industries, handicrafts, handlooms and power looms, coir and sericulture and small scale industries under village and small industries. Another important agency “The Ministry of Rural Development, Government of India in the context of Integrated Rural Development Programmers uses the term “Industries, Service and Business” (ISB) sector for the economic activities similar to Rural Non Farm Sector (RNFS). The Commercial Banks often involved in the IRDP, therefore, use the term ISB and RNFS interchangeably.

Considering these illustrations about the rural non farm sector one can infer that the RNFS encompasses all the non agricultural activities such as mining, and quarrying, household and non household manufacturing, processing, repairs, construction, trade and commerce, transport and other services in villages and rural towns undertaken by enterprises varying in size from household own account enterprises to big manufacturing units in villages and rural towns of up to 50,000 population.

Some of the researchers advocated that the best way to approach this issue is to base the definition of the rural on the linkage approach to rural development. As argued by Saith (1992), linkage approach is meaningful, as what is important is not the location of activities *per se*, but whom do they benefit in terms of output, input, and demand linkages. If an activity primarily services rural people irrespective of its location, it must be treated as rural. As per the linkage approach, there could be four types of non-farm enterprises: rural located-rural linked, rural located-urban linked, urban located-rural linked, and urban located- urban linked. The first three of these are meaningful in terms of their linkage with the rural sector, and therefore can be categorised as rural non-farm sector.

1.3 Rural Non farm Employment in India:

In India rural non farm sector has attracted importance and attention of researchers and policy makers in the recent past due to its vast potential in rural employment and income generation.

In view of the rigid and traditional structure of the agriculture it has been increasingly realized that agriculture or crop based economy can not absorb the burden of the growing workforce any more due to adoption of new technology which requires lesser number of labour force, burgeoning need of cost cutting methods and limitations of agriculture to absorb labour force. Similarly organized sector specially private industries does not offer much hope to growing labour force because of the increasing demand of capital in this sector and government policy of disinvestment in public sector.

In this perspective the burden of employing ever growing rural labour force falls on the unorganized sector like manufacturing including processing, service etc. At the all India level the growth in employment declined from 2.9 per cent per year in 1977 to 1.5 per cent in 1988. This fall was more prominent in rural areas and further for women (Singh 94). The rural employment situation worsened in 1980s when its annual growth rate declined to 0.95 per cent compared to that of 2.52 per cent in 1970s. Despite various programme of rural industrialisation, only 7.1 per cent of rural population was reported to be engaged in industrial activities in 1988 as against 6.8 per cent in 1983 (Bhushan 1996), further, the post regime and new economic policy adopted and advocated by government the rural entrepreneurs and artisans were left with not much scope to grow in the environment of the tough competition, less state support, changing consumers preference and widening choices. Their survival would mostly depend on their ability to adopt and compete in this critical environment.

1.4 Importance of the Study:

Rural Non Farm income accounts for 32 per cent of the total income which is same as the Asian average (FAO 1998) and the RNF employment is 20 per cent of the total rural employment (Samal 1997). By 1999-2000, the share of rural non-farm sector rose to 23.8 per cent of the total rural employment. The higher share of this sector in income as against in employment reflects its higher productivity. Further, the RNF activity affects the performance of agriculture and vice-versa. The households are motivated to undertake RNF

activities due to the push or pull factors. There are also production, consumption and investment linkages between farm and non-farm activities. The magnitude of these linkages was found to be so high that a hundred-rupee increase in agricultural income led to Rs.64 increase in

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rural non farm income. 40 per cent of which went to rural areas and 60 per cent to rural towns.

Among the various determinants of rural non farm activities, like relative prices, credit availability, education or level of agricultural development, infrastructure figures as an important one as the nature and quantity of infrastructure determine how much one can rely on local RNF activity as opposed to migration to cities (FAO 98).

Thus, the non farm sector is positioned as a potential sector for absorption of rural labour in a more productive manner. Also, off-farm activities are regarded as logical extension from crop production in the process of diversification of the rural economy. Moreover, it is generally argued that rural non farm activities are linked with agricultural development of the region (Mellor 1976). By supporting local livelihoods, they prevent the migration of workers from rural to the urban areas. Over the last two decades, non-farm sector grew quite significantly in India. The employment in the non-farm sector grew at an annual rate of 4.7 per cent during 1972/73 to 1987/88 as against only one per cent in the case of agricultural employment. Further, even the female employment in this sector has risen at a much higher rate (4.6 per cent per annum) compared to that in the agricultural sector (only 1.5 per cent) (Visaria 1995). Though there is no doubt that this sector has been growing at a significant rate during the past decade and has made significant contribution to employment generation in general, the performances of various rural activities have been different. The NSSO estimates related to rural employment during the 80s and 90s indicate that-

- i) in agriculture (field crops and agricultural services) usual status of workers has decelerated
- ii) the plantation, livestock, forestry and fishing have witnessed negative rate of employment growth,

- iii) in agro based industry employment has gone up; but in non-agro-based industry this has gone down,
- iv) the mining has recorded negative rate of growth in employment, where as in rural construction activities this has been positive and is also increasing. In trade employment growth decelerated, however, in transport and communication sector employment growth has accelerated,
- v) the employment growth has decelerated in the service sector in aggregate; growth has, however, increased in specific services, such as administration, defence, education and scientific services.

These trends in employment further highlighted importance of rural non farm employment in general and specific rural non farm employment in particular. Agro processing, construction, storage and transport sectors have registered positive growth in employment. Government has also undertaken efforts to connect all the villages by all weather roads. These sectors would therefore, continue to provide impetus to non farm employment in the coming years.

However, at micro level, very little is known about the nature, dynamics, determinants, and problems and prospects of various kinds of activities within this sector. The state specific studies on this sector are still few and far between. Any attempt at improving the quantity and quality of activities in this sector requires more area specific data and analysis in order to gain better understanding of the dynamics of this sector. Such research is also imperative to validate, document and analyse the ongoing changes suggested by the macro data.

1.5 Objectives:

The main objectives were:

- I. To study the pattern of rural non farm employment diversification, at the house hold level.
- II. To estimate the determinants of employment in the selected non farm rural activities.
- III. To asses region specific constraints in the growth of the livestock based agro processing, draw the policy implications.

1.6 Sampling Design

This study was conducted in Jhabua and Damoh districts of Madhya Pradesh. All the districts were arranged according to the concentration of the rural non farm workers^{*} and two extreme districts (one having highest and another having lowest concentration of rural non farm workers thus, Damoh district with highest and Jhabua district with lowest concentration of rural non farm workers were selected. In the second stage of the sampling, two village clusters (each of 3 villages) from each of the selected district were selected on the basis of level of employment diversification in the villages. Available literature indicate proximity to town as the most important determinant of non farm employment diversification in a specific region therefore two village clusters, one cluster within 3 km of town^{**} and another more than 10 km away from town were selected in each district

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- The concentration of rural non farm workers is the proportion of rural non farm workers to the rural population of district
 - In Damoh and Jhabua district no class II town (having population between 50,000 to 1,00,000) was exists, therefore, class III towns (having population between 25,000 to 50,000) hatta in Damoh district and Jhabua in Jhabua district were selected.

In the Final stage of sampling, households in each village clusters were stratified into following categories

Small and marginal farmers dependent on non farm sector for employment

- Rural households working in manufacturing, processing, servicing and repairs
- Rural households involved in private construction activities
- Rural households involved in government aided construction activity and agricultural labourers.
- Rural households having wholesale trading as primary occupation
- Rural households having retail trading as primary occupation, and
- Rural households involved in transportation, storage and communication activities

A sample of 30 rural households was selected randomly from each of the village clusters. Thus, a total of 120 farmers were selected from the four village clusters of Damoh and Jhabua districts in order to achieve the first and second objectives.

The third objective of this study was to assess prospects of increasing employment through livestock based processing units. Madhya Pradesh was selected for milk based processing activities and for this purpose 15 manufacturing units with their distribution as OAME: NDME: DME: Factories* : 6: 4: 3: 2 were selected.

- The enterprise classifications typical of non farm sector are i) OAME are the household manned enterprise which at times may engage other family members to run the enterprise; I) NDMEs are the enterprises which employ up to 5 workers, of whom at least one is hired; iii) DMEs are the enterprises employing 6-9 workers with or without using power and 10-19 workers without using power.

It is to be noted that in both the districts, there were problems in collection of data due to absence of milk producing units (factories). In Damoh district there were no such unit exist and in Jabua, only a small milk processing plant could be located.

1.7 Reference Year

The survey was conducted during February and March 2003 and the primary data was collected for the year 2001-2002 (Rabi 2001 and Kharif 2002)

1.8 The data

The household data was collected with the help of questionnaire and guidelines provided by coordinator. The data related to selected villages and Districts was collected from Gram panchayats / Patwari records /Block Offices and District offices respectively.

As for as the secondary data is concerned, in spite the best efforts many of the required data particularly related to processing industries could not be collected from the state head quarter.

CHAPTER II

Rural Non Farm Employment in Madhya Pradesh

2.1 Basic Profile of the State:

Madhya Pradesh “the second largest state” occupies 308 lakh sq km with a population of 604 lakhs people in 2000-2001. Of this, male population was 52.15 per cent and female population, 47.85 per cent. Rural population occupied 73.34 per cent. Economy of the state is still agrarian or agriculture centric and a large share of rural population depends on cultivation for its livelihood. The percentage of agricultural workers and non agricultural workers to total workers was 85.5 and 14.50 respectively.

Infrastructure is a key factor for development and the availability of roads, electrification, power supply, literacy etc. play important role in the development of the region as well as in generating employment. It can be noted from the table that almost all the villages (97.04 per cent) were electrified. The state has 25033 km rural roads and the rural literacy percentage was significantly high (57.84 per cent).

In Madhya Pradesh, most of the cultivated area was rainfed and therefore under single crop regime. Only 21.44 per cent area was under double cropped. The irrigation intensity was only 103.38 per cent. During 2000-2001, state had 147.7 lakh hectares of gross cropped area, and of this, commercial crops including soybean, cotton fodder, sugarcane etc. which established itself as a commercial preposition, commanded 32.54 per cent. The area under non food grain crop was 40.04 per cent. However, the availability of tractors and pumpsets was not very high.

During 2000-2001 the per hectare value of agricultural out put at current prices was Rs. 11,968. The per capita value was Rs.4, 056 and rural per capita value was Rs.5, 518.

In 2001 a large proportion (44.10 per cent) of rural families was living below poverty line. This high incidence of rural poverty along with the higher percentage of marginal holdings (34.43%) indicated a poor economic development and low avenues of employment in agricultural sector which compelled the increasing population to seek employment else where particularly in non farm sector (Table 2.1).

Table 2.1 Basic Profile of Madhya Pradesh, 2001 Number

Sr. No.	Particulars	Unit	Number
1.	Geographical area	Lakh sq. km	308
2.	Population	Lakh	604
	Male		315
	Female		289
	Urban		161
3.	Percentage of rural population	Percentage	73.67
4.	agricultural worker per 000 hectare of NSA	Number	1,258
5.	Percentage of agricultural labourers in work force	Percentage	28.66
6.	Percentage of non agricultural workers in non force	Percentage	14.50
	Percentage of agricultural worker in work force	Percentage	85.50
7.	No. of town & cities	Number	394
	Average size of town	Number	?
8.	No. of villages	Number	51,055
	Average size of villages	Percentage	1,173
9.	Rural roads	Number	25,033.4
10.	Electrification	Number	52,286
	Electrified villages	Percentage	97.04
11.	Vocational training centres/ ITI etc.		128
12.	Percentage of rural families below poverty line	Percentage	44.10
13.	Net area sown	(Lakh) ha	147.7
	Intensity of cropping	Percentage	121.66
14.	Net irrigated area	(Lakh) ha	41.4

	Intensity of irrigation	Percentage	103.38
15	Value of agriculture out put (at current price)	Rs./hectare	11,968
	Rural rupees per capita		4,056
	Per capita of rural population		5,518
16.	Tractor per 000 hectare of NSA		13.30
17.	Pump set		8.79
18.	Irrigated at pump sets per 00 hectare of NSA		12.25
19.	Percentage of area under		-
	Commercial crops including soybean		32.54
20.	Percentage of marginal holdings to total holdings	Percentage	34.43
21.	Per capita in comet current price	Rs./	10,306
22.	Land man ration LMR		1:0.952

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2.2 Classification of Rural Workers According to Sex

In any work, both, male and female workers play a vital role though the males always dominate their counter parts and table 2.2 presents the similar picture. It can be seen that in all the decades the male dominance was very noticeable however; its share has been steadily declining from 76.43 per cent in 1971 to 58.45 per cent in 2001. Conversely, the proportion of female workers registered a significant increase over the decades. This phenomenon was particularly more prominent in agricultural sector, where the share of female workers increased from 24.61 per cent in 1971 to 43.77 per cent in 2001. Similar growth can be seen in non farm sector but not at the same pace and that might be because the employment base of rural female workers remains heavily tagged with agriculture; moreover, in rural areas female workers generally prefer agriculture and allied sectors for employment (Table 2.2).

2.3 Rural Non Farm Workers

The census data on rural workers revealed that in the State share of rural non farm workers in total rural workers has been witnessing increasing growth over the years. The percentage of rural non farm workers increased from 10.19 in 1971 to 11.69 in 1981 and then further to 14.50 in 2001. However, there was a slight decline in rural non farm workers during 1981 to 1991 period from 11.69 per cent to 11.33 per cent.

In absolute terms the number of rural non farm workers increased by more than 3 fold (21 lakh) over the period from 1971 to 2001 (Table 2.3)

2.4 Sectoral and Gender Composition of Rural Non Farm Workers

In this section we seek to examine the percentage share of different sectors in the total rural non farm workers during the period of 1971, 1981, 1991 and 2001. Composition of sub sectoral data is not available for the year 2001, therefore, we attempted to analyse the data for 1971, 1981 and 1991. This will indicate the major sub sectors within non farm employment sectors that are relatively more important from the point of view of generating non farm employment and changes of employment across the division over the decades (Table 2.3 & 2.4)

It can be observed from the table that during 1971, most important sector of employment was “household industries” which accounted for 34.21 per cent share of total non farm employment followed by other services (33.35 per cent), trade and commerce (13.33 per cent), manufacturing industries 7.92 per cent, construction (4.94 per cent), etc. As regards male non farm workers, the most important employment sector was “other services” (35.06) followed by household industries (30.88). These together accounted for 65.94 per cent of the total non farm workers among the males in 1971. In the case of female non farm workers, more than half (54.10 per cent) of the total female workers were employed in “house hold industries” followed by “other services”(23.16 per cent). The involvement of female in transport, other services, trade and commerce, mining and quarrying and manufacturing was significantly lower (10 per cent) than those of male workers (90.00 per cent)

In 1981 of the total 1.15 crore total rural workers, household industries alone accounted for 30.30 per cent followed by other services (25.84 per cent), trade and commerce (13.30 per cent) manufacturing other than household industries (12.16 per cent) and construction (9.80 per cent) etc.

It can be observed that for male non farm workers, the volume of employment provided by the sectors under ‘other services’ was higher (28.48 percent) than that of household industries (25.42per cent). The other major employment areas were trade and commerce (14.77 per cent) ‘manufacturing other than household industries’ (12.85 per cent) and construction (9.05 percent). In the case of female it was “house hold industries” which

absorbed slightly more than half of the total female workers (51.43 per cent). The other major sectors of employment were jobs in other services' (14.42 per cent) manufacturing other than household industries (9.21 per cent) and construction activities (13.03 per cent) etc.

In this decade also, male dominance in the entire sector was very strong and shared more than three fourth of the workers.

In 1991, a similar picture across the sector can be noted; the most important sector was again the "other services" absorbed 32.07 per cent rural non farm workers. Household industries with 20.90 per cent came second followed by "manufacturing sector" (15.41 per cent) and "trade & commerce" (15.13 per cent). The census data on rural workers of Madhya Pradesh further revealed that during 1981-91 period "other services" sector regained its lost ground and engaged one third of the total rural workers. Manufacturing sector with 15.41 per cent emerged as third most important rural non farm sector after other services and household industries sector. As regards female non farm workers, "household industries" accounted for 46.34 per cent followed by "other services" (21.88 per cent) manufacturing (16.83 per cent) and trade and commerce (6.61 per cent).

In 2001 although the sectoral information was not available, census data revealed that non farm sector registered an increasing trend and absorbed 14.50 per cent of the rural worker. The share of male non farm worker and female non farm workers also increased significantly over the period.

It can be concluded from the above observation that-

1. Over the period, non farm employment sector has emerged as a strong avenue for rural employment and registered an increasing trend.
2. Sector wise- "household industry" and "other services" were the major sources of rural non farm employment and had been absorbing more than half of the total employment when grouped together.
3. With the changing scenario and growing economy the new sectors like construction, trade & commerce and manufacturing emerged as other important rural non farm sectors.
4. In almost all the industries, dominance of male workers was witnessed and participation of female workers was very low. However an increasing trend in female participation in rural non farm employment is observed.

CHAPTER III

Distribution of Rural Non farm Workers of Selected Districts

In this subsection we will give the distribution of rural workers by 2 Categories 1: agriculture workers and, 2: non Agricultural worker or non farm workers. The non farm worker class includes 7 sub sections.

In Damoh district, in 1971 the number of total workers was 1, 75,282. Of this, 86.17 percent were agriculture workers and the remaining 13.83 percent were the non farm workers. Among the non agricultural workers the highest percentage 53.64 belonged to houses hold industries. The second important category, although far below the category of the household industry (24.10) belonged to other services. The third worth mentioning category is trade and commerce wherein 11.26 percent workers come from. The other categories claimed less than 5 percent each of the total non farm workers.

In 1981, while the percentage of workers in house hold industries remained highest (64.09) the percentage of persons belonged to other services. The second important category was 12.15 per cent. Among the categories manufacturing other than household

industries became more important other than household industries became more important category and claiming 7.76 per cent of the non farm workers.

In 1991, the picture changed significantly. Although the household industries claimed the highest percentage of 47.01 the relative importance of category declined .The second importance of category was manufacturing other than household industries and claimed a very significant (26.35) percentage of the total workers. It has also become the second important category replacing the other services category. The other categories as in the previous two decades had relatively less importance.

In the year 2001 the picture has Suddenly changed due to the fact that the data on categories other than household industries and other services was not available, it seems that the smaller and less important categories were either grouped under the household industries or other services category of then, like cashier censuses the category of household industry, the most important one. Comprised 64.05 per cent of the non farm workers and the other services category, the remaining 32.95 per cent.

If we study the weight age of different categories of non farm workers across the four censuses it is noted that the proportion of workers belonging to the category or manufacturing

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Other than household industries increased from 1971 to 1981 by 327 per cent and further from 1981 to 1991 by 297 per cent. This might be due to heavy absorption of workers in the industries of Bida and cement. Among the categories in trade and commerce the percentage of workers declined from 11.26 in 1971 to 9.50 in 1981 and further to 9.36 in 1991. Another category which recorded lower percentage of workers in 3 census years was transportation, storage and communication. Where the percentage of workers declined from 2.63 in 1971 to 1.79 in 1981 and still lower (1.74) in 1991 .in category other services although then was a net increase in percentage of workers from 1971 to 2001 the category recorded decline in the 2nd and 3rd census year.

As for as the main categories of non farm workers and agricultural workers the trends were similar to those observed elsewhere in the county due to gradual urbanisation, proportion of agricultural workers in general have declined and that of non farm workers has increased. The increase in the percentage of non farm workers from one census to another

even in the present rural workers show the gradual increasing importance of non farm employment workers in the rural areas.

In Jhabua district in 1971, the total rural workers numbered 1, 84,889 of there, 94.73 per cent were agricultural workers and the remaining 5.27 per cent non farm workers. The number of total rural workers registered an increase of 275 per cent in 2001 over 1971. Among the non farm workers other services category was most important and claimed 39.24 per cent of the non farm workers. The second important category was household industries and formed 23.66 per cent of the total non farm workers. Trade and commerce closely followed the second category and the workers in that category formed 22.54 per cent. The other categories of workers were less important except .The transport, storage and communication category forming 7.76 per cent. The movement of different categories of workers across the four census year showed that there was an increase in percentage in the category mining and quarrying from 0.16 to 4.46 per cent and construction category from 2.25 to 8.14 per cent and furl her to 9.45 per cent in the 1991 census on the other hand the percentage of workers declined from 23.68 in 1971 to 18.01 in 1981 and furl her to 12.99 in 1991. In the care of trade and commerce category the percentage declined from 22.54 in 1971 to 17.76 in 1981however. There was a marginal increase to 18.35 in 1991. Jhabua district still basically an agricultural district and a tribal dominated district where we do not find perceptible change in the composition of agricultural workers and non agricultural or non farm workers.

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In the first 3 censuses the percentage of agricultural workers hovered around 94 per cent but declined to 91.23 per cent in 2001. Conversely, the percentage of non farm workers moves around 5 per cent in the first 3 census year and increased marginally to 8.77 per cent in the year 2001 due to methodological problems as given in the description of Damoh district there was a sudden increase in the percentage in the category of other services from around 40 per cent in 1971 to 92.34 per cent in 2001. Due to this same reason the percentage of workers in house hold industries suddenly dropped to 7.66 from 12.99 in the year 2001. Thus as compared to Damoh district Jhabua seems lower impact of urbanisation (table 3.1 & 3.2)

3.2 Basic Profile of the Selected Districts

3.2.1 Demographic Structure:

In Damoh district the total population in 1971 was 5, 73,263 and increased by 25.85 per cent in 1981. In 1991 the increase registered was 24.48 per cent. However in 2001 the rate of increase declined to 20.46 per cent. The proportion of male and female population remained about same in all the 4 census years while male population formed between 49 to 47 per cent. The percentage of rural population was 86.22 in 1971 and declined to 85.58 in 1981 to 81.86 in 1991 and to 81.12 in 2001. Thus, there was a very gradual decline in the percentage of rural population of the district one size of the villages in terms of the number of persons expanded during four censuses. The result between 1971 to 2001 was nearly double (84.04 per cent) . Similarly, the number of agricultural workers per thousand of net sown area increased from 545 to 927 in the same census year or an increase of 70 per cent. These two indicators show the way that the pressure of population on agricultural land is increasing continuously.

The percentage of agricultural labourers in work force declined from 31.16 to 23.21 in 1981 but increased to 26.07 in 1991. In 2001 the increase was gradual the net decrease from census of 1971 to 2001 from 31.26 to 29.68. The percentage of rural population below poverty line as arrived in 1998 was 51.88 .The rural literacy rate increased from 19.20 per cent in 1971 to 25.22 per cent in 1981 to 31.73 in 1991 to 46.82 per cent in 2001. This is in line with the overall increase in literacy rate in all districts of the state of Madhya Pradesh.

In Jabua district the total population in 1971 was 6, 67,845 in 1981 it increased by 19.06 per cent in the census of 1991, the increase was 42.16 over the census of 1981. In 2001, however, the rate of increase declined to 23.35 per cent one net increase from 1971 to 2001 was 108 per

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cent. The proportion of male population remained around 51 per cent in all the 4 census year .The percentage of rural population was 92.69 in 1971 and declined slightly to 91.33 in 2001, The size of villages in terms of number of persons increased from 504 to 1044 in the four reference years then by registering a growth of 107 per cent .The number of agricultural workers per thousand hectares of net sown area (N.S.A.) increased from 533 in 1971 to 1794 in 2001, thereby showing an increase of 236 per cent. These two indicators show the extent of pressure of population on agricultural land .One percentage of agricultural labours in work force although showed increase from the first year (1971) to the last year (2001) .The increase

was not uniform and fluctuate in between the census Year, The net result was 5.4 per cent increase in the agricultural work force,

In Jhabua district, the rural literacy rate increased from one census Year to another and was 5.09, 7.17, 10.42 and 24.79 per cent respectively in the 4 census Years. The percentage of rural people living between poverty line was 54.37

The above the analysis goes to prove that:

1. The population growth in both the district during the earlier period (1971-2001) was about same.
2. The proportion of male to female was also about same in both the districts.
3. Both the districts are rural in character but of them Jhabua in more rural.
4. The pressure of population on land in both the district is quite high, but in between the two districts it is higher in Jhabua district.
5. The percentage of agricultural labour force was higher in Damoh district than Jhabua district.
6. The percentage of rural people living below poverty line was higher in both the district but was marginally higher in Jhabua district than Damoh district. (Table 3.3)

3.2.2 Agricultural Development

The net area sown in Damoh district in 4 reference years ranged between 273 to 302 thousand hectares and the gross area sown ranged between 296 and 378 hectares. The intensity of cropping in the first 2 reference years was 108 per cent and 125 per cent respectively. Both net irrigated area and gross irrigated area increased from one reference year to another. In the first reference year it was 10 & 14 thousand hectares respectively these also increased from on reference year to other and were 88 and 90 thousand hectares respectively in the last reference year. The irrigation intensity was 140 per cent in 1971 and decreased from one census year to another to be 102 per cent in the year 2001. However, the percentage of area under commercial crops increased from year to year from 0.05 thousand hectares in 1971 to 1588 in 2001. For measuring the mechanization, the indicators used were no of tractors and pump sets per units of area. It was noticed that the member of tractors increased from 0.19 per thousand hectares of net sown area in 1971 to 11.42 per thousand hectares of net sown area in 2001. Similarly, the member of pump sets per hundred hectares

of net sown area was 0.358 in 1971 and it increased from year to year and was 1.230, 2.601 and 6.735 in 3 subsequent censuses.

In Jhabua district the net sown area in 1971 was 331 thousand hectares, it increased in general from year to year and was 356 thousand hectares in 2001. Gross cropped area also increased from 1971 to 2001 with the passing of every census year. It is thus, clear that both net and gross cropped area of Jhabua district was higher than Damoh district indicating thereby that the Jhabua district has larger net and gross cropped area. However, the better measure of knowing the development of agriculture is the cropping intensity. In this respect, Damoh district was better placed. In both the first 2 reference years (i.e. 1971 & 1981). In the subsequent years, however, the cropping intensity in Damoh increased at a higher rate than Jhabua district.

As far as irrigation intensity is concerned, Damoh district had percentage of irrigation intensity of 140 in the year 1971 whereas Jhabua district had percentage of irrigation intensity of 104. However, in the case of Damoh district the percentage of irrigation intensity decreased in all the 3 subsequent reference years. In Jhabua district, on the other hand, it showed a very gradual and marginal increase in subsequent 3 years.

The commercialization of agriculture is more pronounced in Jhabua district as the percentage of area under commercial crops gradually increased from below 1 per cent in 1971 to 22.28 per cent in the year 2001. As regards mechanization of farming in Damoh district the number of tractors per thousand hectares of net sown area increased from 0.19 in 1971 to 1.23 in 1981 to 3.84 in 1991 and to 11.42 in 2001. In Jhabua district, on the other hand, the number of tractors increased from 0.060 in 1971 to 0.198 in 1981 to 0.586 in 1991 and 3.100 in 2001 in the subsequent years of censuses respectively. This shows that mechanization was more in Damoh district than Jhabua district and the pace of increase was very significant from 1991 to 2001.

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The percentage number of marginal holding showed that in Damoh district it increased from 33.29 in 1971 to 34.76 in 1981 to 42.88 in 1991. In 2001 it only marginally decreased to 42.36.

In Jhabua district, on the other hand, the percentage of number of marginal holding has been lower in the census years. It ranged between 16.12 in 1971 to 30.09 in 2001.

with an increasing trend during the years between. The higher percentage of marginal holdings in Damoh district is probably one of the reasons for opting the non farm employment avenues particularly for this group of farmer.

The value of agriculture for the districts was not available for the 1971. In Damoh district the value per hectare was Rs. 1,733 in 1981 and increased to 4,039 in 1991 and furler to Rs. 9,880 in 2001. Similarly the precipitate agriculture income from Rs. 711 to 1,448 and Rs. 3,498 respectively in the 3 censuses. The indicator of value of agriculture out put, per rural population was Rs. 831 in 1971 and Rs. 1769 and 4,312 in the subsequent two census years of 1991 and 2001 respectively.

In this respect the values were lower in Jhabua district. These could be due to higher intensity of cropping and higher irrigation intensity in Damoh district than Jhabua district. We may add mechanization as one more factor for the higher out put in Damoh district than Jhabua district we presumed that high income from agriculture in the form of value of agriculture out put results in higher rural non farm employment. (Table 3.4)

3.2.3 Infrastructural Development

The criterion of infrastructure development used in this study of the selected districts were, number of towns & cities, average size of towns (average population of the village), length of the roads electrification, availability of vocational training centers & bank branches etc.

It was noted that the urban agglomerations in Damoh district were 3 in number in the first 3 censuses and increased to 4 in the last census. Whereas the number of uniformly 6 in Jhabua district. The average of size of towns however was quit large in Damoh district than Jhabua district. One availability of road length was higher in Jhabua district as compared to Damoh district. The reason may be two 1: Jhabua being a tribal district government efforts were more concentrated on improving the infrastructural facilities including higher road available, secondly: the higher road length per hundred sq 1 km might be due to the fact that. The total area of district

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itself was smaller than that of Damoh district any smaller development on this regard might have been got magnified.

As for as electrification is concerned both the districts have progressed tremendously since 1981 and practically all the villages stand electrified as of today.

The number of vaccination centers and ITI's in Damoh district was 4 and that in Jhabua was 6 as per the latest census.(Table 3.5)

Chapter IV

Socio Economic States non farm Activities of Simple Villages and Households

This Chapter consists of 2 sections the first section gives the socio- economic character and the second part describes the extent of rural non farm employment level of the selected households.

4.1 Socio- Economic Characters:

As mentioned in subsection methodology for this study Damoh and Jhabua district were selected. This basis of selection of Damoh was high concentration of rural non farm workers and Jhabua, low concentration of rural non farm workers further, in each district, 2 villages cluster had to be selected in Damoh district there was no class II town having population of between 50,000 to 99,999 thousand therefore we had to settle for the selection of town having population below 50,000. It happened to be town *Hatta*. The villages within 3 km distance from *Hatta* were selected and termed as cluster I, another cluster of villages was at a distance beyond 10 kms from *Hatta*. The villages in cluster I were *borikala*, *borikhurd* and *Khejarikhurd* that is cluster II were *hinota*, *sakore* and *mangawan*

In Jhabua district, there was also no town having population between 50,000 to 99,999. Therefore, we had to settle for town that had population below 50,000 thousand. It happened to be Jhabua town itself. The village cluster I in Jhabua districts comprised of villages *gopalpura*, *kasrawad* and *mindal*, and that of cluster II comprised of *kalyanpura* *sandla* and *barkhera*.

The population of cluster I at Damoh district was 3168 and that of cluster II had 3852. Cluster I of Jhabua district had a total population of 9781 and cluster II had 5168. It will thus, be observed the average population of villages of Jhabua district was higher than that of Damoh district the proportion of male to female was 52 to 48 in Damoh and 51 to 49 in Jhabua district, thus the slightly high edge of male population over female population was observed in both the district

Of the two districts Jhabua was tribal district and therefore, the percentage of schedule tribes in cluster I was as high as 80.83 in cluster II the percentage was 57.82. In Damoh district, on the other hand, in both the village clusters the schedule tribes' population formed barely 29 per cent, of the two village clusters first had no schedule castes population and second had movably 1.25 per cent Scheduled Castes population.

In Jhabua district in the first cluster the percentage of schedule castes population was 0.70 but in the second cluster it was quite high (28.70).

The literacy percentage it was quite higher in Damoh district than Jhabua district while, in village cluster I of Damoh district, the literacy percentage was 26.35 and that in cluster II, 55.63. (Table 4.1)

Table 4.1: Basic Characteristics of Selected villages

S.No.	Characteristics	Damoh		Jhabua	
		VI	VII	VI	VII
1	Total population	3168	3852	9781	5668
	Male	51.16	52.41	50.11	50.99
	Female	48.84	47.59	49.88	49.01
	SC (%)	28.70	28.80	80.83	57.82
	ST (%)	-	1.25	0.70	28.77
2.	Proportion of literacy	26.35	55.63	22.76	42.86
	Male	34.54	83.95	23.33	47.96
	Female	17.12	24.44	07.05	37.54
3	Migrated population	-	-	525	134
4.	Average size of holding (cult area/HH) (ha)	1.74	2.95	1.39	1.22
5.	Per capita land {ha}	0.31	0.44	0.13	0.17
6.	Proportion of irrigated area	15.83	12.32	16.02	20.84
	Percentage area under	-	-	-	-
	a. Tube well	-	32.89	2.98	2.92
	b. wells	96.96	63.60	37.81	94.64
	c. canals	-	-	9.96	-
	d. Ponds	-	3.51	14.43	-
	e. Other	3.04	-	34.82	2.44
7.	Net area sown (ha)	884.19	1770.00	809.70	834.77
8.	Distance farm near by for	2.5 km	12 km	3 km	15 km

In Jhabua district, it was 22.76 per cent and 42.86 per cent respectively. It is a well known fact that in India the literacy percentage among males is far higher in the females in the selected cluster also this was observed. In second cluster, the literacy females 17.12. In second cluster, the literacy percentage among males was as 83.95 but it lacked far behind (24.24) among females. In Jhabua district the literacy percentage among males was 23.33 for cluster II while literacy percentage among males was 47.96, among females it was 37.54.

Jhabua being agricultural less developed district and having large tribute population showed a definite picture of population getting migrated to near by towns and to distant places like the state. It was customary for the tributes of Jhabua district to migrate to distant places like *Kota, Ahmedabad, Indore*, etc in search of menial jobs like stone cutting and polishing and agricultural and non agricultural labours. In village cluster I of Jhabua district 525 people

reported to have migrated to such places as distribute above and in cluster II such persons numbered 135.

As regards average size of holding it was noted that the size was larger in Damoh district cluster then Jhabua district cluster wail in cluster I of Damoh district the average size was 1.74 hectares and that in cluster II, 2.59 hectare. The average size in Jhabua district was 1.39 for cluster I and 1.22 in cluster II. This is also reflected from other criterion of land per capital. The land available per capital in cluster I of Damoh district was 0.31 hectare and 0.44 hectare in cluster II where as the corresponding figure for Jhabua district was (0.13 and 0.1) hectare respectively. The percentage of irrigated area was higher in Jhabua district (16.02 for cluster I and 20.84 for cluster II) as compared to Damoh district (15.83 and 12.32).

As regards sources of irrigation it was noted that in both the district tube wells and wells were the main source on in cluster I of Jhabua district there seemed to be some mark (Table 4.1).

4.2: Distribution of Holdings by Size

The size groups of holdings were small (up to 2 hectare), semi medium (between 2 to 5 hectare), medium (5 to 10 hectare) and large (10 hectare and above).

In Indian agriculture, marginal and small holdings dominate the agrarian scene. The selected districts and the selected villages offer no different picture. In both the cluster of selected two districts more than 60 per cent and up to 83 per cent if the total holding belonged to small size. The semi medium size of holding accounted for between 15 per cents to 33 per cents of the land holdings. The medium and large size holdings were very few in number.(Table

Table 4.2 Distribution of Households by size of Operational Land Holdings in the Village Group

Land Holding		Districts			
		Damoh		Jhabua	
		VI	VII	VI	VII
1.	Small up to 2 hectares	468 (82.54)	385 (61.40)	668 (71.60)	523 (73.04)
2.	Semi medium 2 to 5 hectares	80 (14.11)	206 (32.85)	250 (26.80)	190 (26.53)
3.	Medium 5 to 10 hectares	14 (2.47)	32 (5.10)	15 (1.60)	3 (0.43)
4.	Large 10 hectares & above	5 (0.88)	4 (0.67)	- -	- -
	Total	567 (100.00)	627 (100.00)	933 (100.00)	716 (100.00)

(Figure in parentheses are percentage to total)

4.3 Proportion of Own Account Enterprises

The proportion of holdings having some enterprises running on self owner ship were 6.88 per cent in cluster and 9.63 in cluster II of Damoh district. In Jhabua district 7.78 per cent such enterprises II.

Of the self owner ship enterprises; larger population were found either in manufacturing processing inclusive of rural artisans and service sector trade and shop keeping also found for med important enterprises particularly in cluster distance from the selected town. This is because in there for off areas the need for shops selling general and other felt move. In cluster near to the town these needs are met by the shop keepers are traders 10 canted within 3 km of the cluster. This is true with the enterprises of services and transport.

The proximity of the town within 3 km tosses the specialized persons in the villages to take up to construction enterprise in greater proportion. (Table 4.3)

Table 4.3 Proportion of Own Account Enterprises Industrial category wise in the villages

S.No.	Industrial Category	District			
		Damoh		Jhabua	
		VI	VII	VI	VII
1	Manufacturing/processing.	2.71	1.73	3.48	3.96
2	Construction activities	0.29	-	0.16	-
3	Trade & shopkeeper	1.58	3.09	1.57	3.70
4	Transport/storage/communication	0.29	0.62	0.16	0.26
5	Repair/service sector	2.01	4.19	2.40	2.43
6	Total	6.88	9.63	7.78	10..36

4.4 Proportion of Casual workers

The proportion of casual workers in the total population has 50.33 in cluster I of Damoh district. In cluster II it was 43.27. Jhabua district, the percentages of casual workers to total population in both the cluster were higher (53.19 and 63.24 respectively) then the Damoh district.

The class of casual workers consisted mainly of argil labour with land and the proportion of this category in the two cluster of Damoh district was 17.99 & 19.25 per cent respectively. This category also had the larger proportion of casual workers in both the

village cluster in Jhabua district then Damoh district. The fingers for the two clusters were 29.00 and 32.00 per cent respectively. The second important category with respect to higher proportion of casual worker was that of agricultural labour (exclusive). The percentages in two village cluster of Damoh district were 15.72 and 12.85 respectively. This percentage stood at 14.25 and 17.15 for two villages' cluster of Jhabua district.

The third category although constituted less than 4 per cent of the casual workers in the selected 4 villages' cluster of two district it had some significance in cluster away from the selected towns. While in Damoh district the percentage of self casual labourers was 2.95 in Damoh district, it was 3.75 in Jhabua district, Allied activities mainly include dairying actively and in the casual of Jhabua district piggery by schedule castes house holds.

In the case of non farm categories in Damoh district manufacturing, processing and rural artisanship was important and formed 5.69 and 4.28 per cent in the 2 villages cluster respectively. This high percentage in mainly due to household *bidi* industry in which a large number of family member of all age groups and sexes work. Construction is another non farm casual workers category. This is particular important in cluster I of Damoh district and cluster II of Jhabua district while in Damoh district 3.58 per cent of sad casual worker get employment in the nearby *hatta* town 3.86 per cent of casual worker of Jhabua district get such an opportunity in near by districts and in the states of Gujarat and Rajasthan which are in proximity to the village cluster. (Table 4.4)

Table 4.4 Proportion of Casual Workers to Total Population Industrial Category Nice in the Selected Villages Cluster

Industrial categories		Damoh		Jhabua	
		VI	VII	VI	VII
1.	Argil labour (Excusing)	15.72	12.85	14.25	17.25
2.	Argil labour with land	17.99	19.25	29.00	32.00
3.	Argil laborer without land but with allied activity	3.28	2.01	1.57	0.70
4.	Argil labour with land and allied activity	2.15	2.95	2.80	3.75
5.	Manufacturing prominent intrusive of rural artisan	5.69	4.28	1.12	0.48
6.	Construction	3.58	0.52	1.89	3.86
7.	Trade	0.69	0.65	0.79	3.32
8.	Transport	0.53	0.13	0.61	0.35
9.	Service	0.69	0.88	0.98	2.68
10.	Total	50.33	43.27	52.19	63.29

4.5 Infrastructure Facilities

Infrastructure facilities here mean facilities like education institutions, health centers, veterinary centers, Motor able roads financial and non financial instituted. As has been already stated financial village cluster in Damoh district is within a distance of 3 km from town. All above mentioned infrastructure facilities for this cluster were available in the town and therefore cluster did not need non had the facilities within any of the villages cluster.

In cluster II of both the districts there facilities were available as the clusters were away from the towns. In the care of Jhabua district how ever cluster I which is closer to Jhabua town the tribute were available due to intensive efforts of the tribute development department to make available the small activities within the reach of tribute villages although were not for farm the town. (Table 4.5)

Table 4.5 Comparative Account of Available Infrastructure within the Village Groups

Infrastructure		Damoh		Jhabua	
		VI	VII	VI	VII
1.	Primary School	Available	Available	Available	Available
		-	Available	-	Available
		-	Available	-	Available
		Nil	Available	Available	Available
		Nil	Available	Available	Available
		Available in good condition	Available in good condition	Available	Available
6.	Financial institutes				
	Post	Not available	Available	Available	Available
	Bank	Not available	Available	Available	Available
	Other	Not available	Available	Not available	Available
7.	Non financial list				
	(a) Private farm centre	Not available	Not available	Not available	Available
	(b) Government	Not available	Not available	Not available	Available
	(c) K.V.I.C	Not available	Not available	Not available	Not available
	(d) Other	Not available	Not available	Not available	Not available
8.	Non GOvt. institution				
	(a) Coop	Not available	Available	Not available	Available
	(b) SHGS.	Not available	Available	Not available	Available
	© NGOs for rural level	Not available	Not available	Not available	Available
9.	Post harvest facility				
	(a) Cold storage	Not available	Not available	Not available	Not available
	(b) Exists	Not available	Available	Not available	Available
10.	Industries etc.	Not available	Available	Not available	Available
11.	Mandi (regulated market)	Not available	Available	Not available	Available
12.	PD5/ CoOp Soc.	Available	Available	Available	Available
13.	Market (local)	Not available	Available	Not available	Available

Chapter IV (b)

Socio-Economic characters of selected house holds

As per the quite live suppliers by the cardinality institute 30 households in each of the two cultures of the selected two districts had to be chosen. This we selected a total number of 120 households. It may be mentioned that in some of the industrial categories no was available in and cases all the available house holds or less than the desired number (3) was available in and available in and cases all the available house holds were selected and this balance number of house hold were selected from this categories where the households existed in lower number than the desired ones. Thus service sector, whole sale, trading and retail trading were the categories where sufficient number (3) was not available and therefore the balance was met from the category “cultivators dependent on non farm employment. agricultural labours/ govt aided sector (Table 4.1)

Table 4.1: Percentage distribution of head of households by major sources of employment in village clusters

Sr. No.	Industrial categories	Damoh		Jhabua	
		V1	V2	V1	V2
1	Cultivators	14 (46.67)	12 (40.00)	13 (43.34)	11 (36.67)
2	Agricultural labours	5 (16.67)	3 (10.00)	7 (23.33)	4 (13.33)
3	Private construction activities	4 (13.33)	3 (10.00)	3 (10.00)	3 (10.00)
4	Service sector (trans/storage/communication)	1 (3.33)	3 (10.00)	-	2 (6.66)
5	Whole sale trading	-	1 (3.33)	-	2 (6.66)
6	Retail trading	2 (6.66)	3 (10.00)	3 (10.00)	3 (10.00)
7	Manu/ processing/ser. Inc rural artisans	4 (13.34)	5 (16.6)	4 (13.33)	5 (16.68)
Total		30 (100.00)	30 (100.00)	30 (100.00)	30 (100.00)

The average number of farm number was higher in the category of “cultivators dependent on the non farm employment. It was 5.57 and 6.00 in Damoh district and 7.15 & 6.81 in Jhabua district for the two cultures respective. The two categories “agricultural labours govt .aides Construction workers and Drivel the size of farm were construed higher.

In agriculture labours/govt aides and the non workers in Damoh district the size of farm families was 5.67 and 6.33 respectively in the two cultures. The figures for Jhabua district was 5.50 and 4.67. In the private construction action in size of farm was 4.67 and 6.00 as against 6.33 and 5.00 of Jhabua district. In Retail trading the size of farms was comparatives smeller in with the district (Table 4.2).

Table 4.2: Average Number of Family Members, Selected Households.

Sr. No.	Industrial categories	Damoh		Jhabua	
		V1	V2	V1	V2
1	Cultivators	5.57	6.00	7.15	6.81
2	Agricultural labours	5.67	6.33	5.50	4.67
3	Private construction activities	4.67	6.00	6.33	5.00
4	Service sector (trans/storage/communication)	3.00	5.33	-	4.50
5	Whole sale trading	-	6.00	-	6.00
6	Retail trading	4.50	3.33	4.67	5.67
7	Manu/ processing/ser. Inc rural artisans	4.25	6.40	6.75	5.60

The literacy percentage of selected household was comparative higher in the category of privative construction it was 68.42 and 50.00 in Damoh district and 47.37 and 60.00 in Jhabua district. The second category with a larger literacy percentage was that of agricultural labourers/ govt aides' construction workers. In this category the literacy percentage in Damoh district was 49.85 and 57.90 and in Jhabua district 30.77 and 62.63. The other two categories heavily a comparative higher literacy percentage where cultivators department on non farm employment and retail trading The former category has 56.41 and 56.16 per cent of literacy in Damoh district and 22.58 and 42.66 per cent in Jhabua district. In Damoh district the literacy percentage for two villages chastises in the category of retail trading was 64.6 and 29.41. In Jhabua district on the other hand. The percentage was 47.35 and 70.54 respectively (Table 4.3)

Tables 4.3: Literacy percentage, selected house holds

Sr. No.	Industrial categories	Damoh		Jhabua	
		V1	V2	V1	V2
1	Cultivators	56.41	56.16	22.58	42.66
2	Agricultural labours	49.85	57.90	30.77	62.63
3	Private construction activities	68.42	50.00	47.37	60.00
4	Service sector (trans/storage/communication)	100.00	68.75	-	88.89
5	Whole sale trading	-	100.00	-	83.33
6	Retail trading	64.67	29.41	47.35	70.54
7	Manu/ processing/ser. Inc rural artisans	70.54	53.12	33.33	50.00

As in absented else where in the country. The literacy in general inferred to be information and up to primary leveling thru villages the concentration of literacy in the selected villages also indicates to this fact. Seem to impurely and primary level literacy was the class of literates who were educated up to middle school level comparatives laver percentage of literates have indicted to the having literacy level of higher education graduation. Post graduate and technical education a level of literacy was foam to be very insignificant in the selected villages. It is not warily the service sector and communication this level of education. (Table 4.4).

It was observed that all the households in this category of service sector and wholesale trading had work account optionally then were better. It household economically and for then opening of account in a bank was more of a necessity than luxury. Amount other categories agricultural labourers and those working on government aided construction workers had 66.67 per cent bank account holders this was so became in many of the government workers payment of wipes etc. in made through banks and individual has to open bank account (table 4.5).

.Tables 4.5 Percentage of Households with Bank Account

Sr. No.	Industrial categories	Damoh		Jhabua	
		V1	V2	V1	V2
1	Cultivators	35.71	25.00	30.76	45.45
2	Agricultural labours	20.00	100.00	0.00	6.67
3	Private construction activities	0.00	100.00	33.33	25.00
4	Service sector (trans/storage/communication)	100.00	33.33	-	100.00
5	Whole sale trading	-	100.00	-	100.00
6	Retail trading	50.00	0.00	0.00	33.33
7	Manu/ processing/ser. Inc rural artisans	50.00	60.00	0.00	60.00

The average number of animals per household was highest (3.00) in the category of cultivators size then had some land and since the mechanization has not reached the marginal and small hold. They have to keep some draught animals for famines purpose (table 4.6).

.Tables 4.6: Average Animal per Household

Sr. No.	Industrial categories	Damoh		Jhabua	
		V1	V2	V1	V2
1	Cultivators	1.86	3.50	1.15	3.00
2	Agricultural labours	2.33	4.75	7.00	1.50

3	Private construction activities	1.00	2.33	0.50	2.25
4	Service sector (trans/storage/communication)	-	1.00	-	2.00
5	Whole sale trading	-	-	1.00	1.50
6	Retail trading	-	1.00	-	1.00
7	Manu/ processing/ser. Inc rural artisans	1.00	2.00	-	3.00

All the selected households except two had own houses. In service sector of Damoh district, 1 out of 3 and same cluster in the category of manufacturing/ processing etc had hired a house (Table 4.7).

Tables 4.7: total Frequency and Percentage of Household Ownerships

Sr. No.	Industrial categories	Damoh				Jhabua			
		V1		V2		V1		V2	
		H		H		H		H	
1	Cultivators	-	14 (100)	-	12 (100)	-	13 (100)	-	11 (100)
2	Agricultural labours	-	.5 (100)	-	8 (100)	-	7 (100)	-	4 (100)
3	Private construction activities	-	4 (100)	-	3 (100)	-	3 (100)	-	3 (100)
4	Service sector (trans/storage/communication)	-	1 (100)	1 (33.3)	2 (66.67)	-	-	-	2 (100)
5	Whole sale trading	-	-	-	1 (100)	-	-	-	2 (100)
6	Retail trading	-	2 (100)	-	3 (100)	-	3 (100)	-	3
7	Manu/ processing/ser. Inc rural artisans	-	4 (100)	1 (20)	4 (100)	-	4 (100)	-	5 (100)

When the houses of the selected house holds were categories as thatched, filed or concrete it was observed that majority of them has filed roof. One for houses had roof made of concrete although the type of roof does not direct relate with the economic condition of an individual households the person who could spare the retro income would spurt it on concretization the roof which in some places is a symbol of prosperity. (Table 4.8)

The average number of economic activities showed 2 things firstly in both the districts. The village clustered which is move than 10 kms away had larger number of activities per worker than those in villages nearer to him towns. This was necessary because the persons away from towns had to find out larger number of means of livelihood because of restricted income from the main activity which the households perform second some of the occupations----- -. a move had inherent higher income and the family members of there households were not required to take up any secondary or other occupations (Table 4.9).

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Tables 4.9 Average number of Economic Activities per Worker Selected Households.(M.P.)

Sr. No.	Industrial categories	Damoh		Jhabua	
		V1	V2	V1	V2
1	Cultivators	1.58	1..59	1.65	2.00
2	Agricultural labours	1.58	2.37	1.44	2.00
3	Private construction activities	1.36	1.89	1.60	2.00
4	Service sector (trans/storage/communication)	1.33	1.16	-	2.00
5	Whole sale trading	-	1.00	-	1.33
6	Retail trading	1.6	1.67	1.40	1.40
7	Manu/ processing/ser. Inc rural artisans	1.3	1.50	1.44	1.27

This is also reflected in table 4.5 which gives the percentage of households' explorative subsidiary occupation. It was noted that not all the households engaged in wholesale trading retail trading and manufacturing reports subsidiary source of income.

Count inuring the write up of the person's primps in this section we have fried to and se note where their and how much of subsidiary source of income was needed by different categories. One there was cleat that subsidiary occupation was more common and important in the villages for away from the town (VII cultures). This was because of the fact that villages closer to towns had more income and also and sustainable kind of work for income. On the other hand, the house holds in the villages for away from towns has a layer number of sources due to in sufficient income from any or rejoin source of income. The concentration of income in few subsidiary occupations in VI cultures of income can be seen from (Table 4.10).

The ratio of male to female amount the workers different from one economic actively to 10 an other the one male domination in total in wholesale trading are nearly total in service sector. In the farm sector also the male domination persists and the ratio was 70 to 30 amount males and females. In agricultural labours category of courses, female seem to complete with males became in many agricultural activities on purchases fender were needed rusher they did the job better in the prevail concentration again male dominance was very clear. In the

manufacturing and prussic sector male to female ratio was nearly equal became the artisan need the help of female members of households (Table 4.11).

Tables 4.11: Workers Population Ratio (Male: Female) Selected Sample

Sr. No.	Industrial categories	Damoh				Jhabua			
		VI		VII		VI		VII	
		M	F	M	F	M	F	M	F
1.	Cultivators	68.42	31.58	74.19	25.81	63.16	36.84	70.00	30.00
2.	Ag. Lab/ Govt aided cons, workers	50.00	50.00	62.50	37.50	55.55	44.44	66.67	93.33
3.	Pvt .construction. activities	81.82	18.18	60.00	40.00	80.00	20.00	71.42	28.28
4.	Service sector (trans/storage/communication)	66.67	33.33	100.00	0.00	-	-	100.00	0.00
5.	Whole sale Trading	-	-	100.00	0.00	-	-	100.00	0.00
6.	Retail trading	60.00	40.00	100.00	0.00	80.00	20.00	80.00	20.00
7.	Manu/ processing/service Inc rural artisans	50.00	50.00	56.25	43.75	55.56	44.44	45.54	54.55

The activities of worker could be classified as sally employer's salaries employed or censual wages employed. On the category of cultivators largest percentage of sally employed persons were formed because cultivation is bigness under taken by owner of the farm and it gives him and his farms member enough employment particular those who have large size of holding. In this category of service sector, whole self and retail trading the percentage of sale employed persons is very high. Similarly in the category of manufacturing percentage of self employed persons in quite high.

The activities of casual wage earning was very significant particular for those who earning casual wages by trivially loss distains with in or out side the districts or even to other states. The percentage of workers employed as salaries workers was very small. (Table 4.12)

As regards activity states of male workers it was found that the activities in self employed category was quite but equal import was casual wages employment. In the salary employed category the percentage of workers in both the district was quite low.

It seems that the employment intensity male workers were quit high as they were engaged in self employed activities as well as casual wage activities. As regards activities states of female workers it was clear that the percentage of workers was higher in casual labour then the self employed activity. The salaries employment was nearly absent in the case of female. The can not be engaged on salary employment due to low percentage of literacy and movability (Table 4.13 & 4.14)

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It was observed that casual workers were mainly engaged as agriculture labours and to some extent government aided construction work and Perivale construction activities. Fewer persons were engaged as casual labourers in transport and manufacturing. There was a case each in selected district wherein the labourers were in activity related to trade. There was an important category group under “others” which generally meant non agricultural labour and formed significant percentage. These were the persons who were engaged in some kind of menial activities such as rickshaw pulling, part time agricultural labours, household work and a very significant portion of work days in breaking of stones. (Table 4.15)

The wages were highest in the private construction activities and the category of transport, communication and storage. In this category also, wages were comparatively higher for the worker near to the town than for those 10 km away from the town. Similarly, the wage range was lower for these categories of worker. It can thus be concluded that wage earning was more lucrative for those who were residing near to town. Next to private construction activities and transport/ storage the wages were second high in the care of agriculture. The wages were lowest in the manufacturing percentage etc. mains due to the feel that this category consists of *bidi* workers who where quite low paid not they were l exported to the largest extent. The another reason for low wages of this category was existences of large number of female workers and males who had no opposing if working other than doing *bidi* making as it was a part time job. (Table 4.16)

Chapter V

States of Enterprises in Madhya Pradesh

The Total enterprises in the state numbered 15, 93,342 of these non farm enterprises were 14, 98,980. Thus, the agricultural enterprises were 5.92 per cent whereas; the non agricultural enterprises were 94.08 per cent. Non agricultural enterprises were larger in percentage (98.16) in urban area than in rural areas (90.45). (Table 5.1)

Table 5.1 Enterprises in Madhya Pradesh

Particulars	Total Enterprises		Non Agricultural Enterprises	
	No.	%	No.	% to total
Total	15,93,342	(100.00)	14,98,980	94.08
Rural	8,44,158	(100.00)	7,63,588	90.45
Urban	7,49,184	(100.00)	7,35,392	98.16

Source: Economic census 1998, Directorate of Economics & Statistics MP

Among the non agricultural enterprises own account enterprises were 11, 24,385 (75.01 per cent) the establishments were 3, 74,595 (24.99 per cent) . In the non agriculture enterprises, urban people dominated and the percentage of such persons was 59.75 as against 40.25 of the rural persons. Like any other industry men folks dominated the non farm enterprises. While men formed 86.70 per cent in the urban, working persons they formed 80.97 per cent in the rural, working persons.

Of the persons usually working 48.54 per cent were working on salary wages. Of the total persons working on salary wages 67.88 persons were urban and this remaining 32.12 percent were rural. Again, 84.86 persons working on salary wages were males and the remaining 15.12 per cent were females. (Table 5.2)

Table 5.2

So. N.	Particular	Rural		Urban		Total	
		No.	%	No.	%	No.	%
a.	Total Enterprise	7,63,588	50.94	7,35,392	49.06	14,98,980	100.00
1.	Own account enterprises	5,83,907	76.47	5,40,478	73.50	1,24,385	75.01
2.	Establishments	1,79,681	23.53	1,94,914	26.50	3,74,595	24.99

b.	Persons usually working						
1.	Persons	15,06,196	100.00	22,65,450	100.00	37,41,646	100.00
2.	Male	12,19,619	80.97	19,64,150	86.70	31,83,769	85.09
3.	Female	2,86,577	19*.03	2,71,300	13.30	5,57,877	14.91
c.	Working on salary wages						
1.	Persons	5,83,331	100.00	12,32,948	100.00	18,16,279	100.00
2.	Male	4,77,747	81.90	10,63,846	86.98	15,41,593	100.00
3.	Female	1,05,584	18.10	1,69,102	13.72	2,74,686	15.12

Source: Economic census 1998, Directorate of Economics & Statistics MP

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Of the total enterprises of the state 97.31 per cent were with premises and the remains 2.69 per cent without premises. Of the total enterprises were seasonal and the remains 98.803 per cent non seasonal. On the basis of urea of power the enterprises were of 2 types those operated on some every (81.49 per cent) and the other 48.51 per cent operable with out again any every. As regards ownership it was observed that only 14.92 per cent were owned private and the rest 85.08 per cent had their kind of ownership. (Table 5.3)

Table 5.3 Characteristics of Enterprises, Madhya Pradesh. (1998)

So. No.	Particular	Rural		Urban		Total	
		No.	% to total	No.	% to total	No.	% to total
A.	Premises						
1.	With premises	8,16,138	96.68	7,34,341	98.02	15,50,479	97.31
2.	Without premises	28,020	3.32	14,843	1.98	42,863	2.69
B.	Seasonal						
1.		13,262	1.57	5,350	0.71	18,612	1.17
2.		8,30,896	94.43	7,43,834	99.29	15,74,730	98.83
C.	Power						
1.		6,86,560	81.33	6,11,847	81.33	12,98,407	81.49
2.		1,57,598	18.67	1,37,337	18.33	2,94,935	18.51
D	Ownership type						
1.	Private ownership	74,938	8.88	1,62,819	21.73	2,37,757	14.92
2.	Other ownership	7,69,220	91.12	5,86,365	78.27	13,55,585	85.08
	Total Enterprises	8,44,156	100.00	7,49,184	100.00	15,93,342	100.00

Source: Economic census 1998, Directorate of Economics & Statistics MP

The number of small industries registered in 1994 – 95 was 19,473 it height leer eased in the year is 95 – 96 to 19451. However the number in ever in the next two year to 20867 and 23,387. In the year two year, however, the number decreased to 15,438 and 16,341 repetitive. The capital imperilment in the small industry was Rs 2,462 lakhs in 1, 55,495. It increased in the next 3 year and was 16,693 in the year 1996 -97. It than decreased in the 2 later years to Rs 14,654 lakhs and Rs 12,991 lakhs .Although there was no trend in the number of people employed in doll event year. It was noted that the year 1997 -98 proved to be most encoring

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became in that year the number of units and the capital investment were highest this was regretted in the number of employment which stood at 57,094 (highest) in that very. In the year 1998 and 1999 – 2000 the employment also declined as were the number of unit and the capital investment. (Table 5.4)

Table 5.4 Permanents Registration of Small Industries

Period	Units	Capital investment/Lakhs Rs	Employment
1994-95	19,473	2,462	46,057
1995-96	19,451	8,796	54,230
1996-97	20,867	11,021	50,824
1997-98	23,387	16,693	57,094
1998-99	19,438	14,654	46,232
1999-2000	16,341	12,991	40,093

Source: www.mp.nic.in

While for small industries the year 1997-98 proved to be good for the large and medium industries year 1996- 97 proved to be better than all the year. In that a fixed capital of 3,948.96 crore was invested the number was also highest (12,178) in that year. Yearling to 1996-97 the number of manufacturing with were 46 & 43. In the year which followed 1996-97 the peak year the manufacturing with generally declined the fixed capital till 96-97 showed variation but the year latter for 1996-97 definitely proved to be shy of capital. The same can be said to be true for the employment. On both sired of the year 1996-97 the employment was not as good. (Table 5.5)

Table 5.5 Large &Medium Industries Established

Period	Number of manufacturing industries established during the year	Fixed capital crore Rs (31st March)	Employment (Nos) (31 st March)
1994-95	46	1,756.14	7,553
1995-96	43	1,479.86	8,448
1996-97	68	3,948.96	12,178
1997-98	44	968.94	5,651
1998-99	15	337.00	1,812
1999-2000	18	313.00	2,223

Source: www.mp.nic.in

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5.2 Gross State Domestic Product

With a growth of 7.47 per cent during the year, gross state domestic product of Madhya Pradesh at constant (1993-94) prices has been estimated at Rs. 53,179 crores in 2000-01. At current [price with a growth of 11.10 per cent it has been estimated at Rs. 81,286 crores in 2001-02 as against Rs. 73,165 crores in 2001-02. At the national level, in the new series, gross domestic product for all- India during this period registered a growth of 5.57 per cent at constant (1993-94) prices and 9.19 per cent at current prices, which is less than the states growth. (Table 5.6)

Table 5.6 Gross Domestic Product, All India and Madhya Pradesh

Year	Comparative figures (Crore Rs.)				Percentage increase over previous year			
	All India		Madhya Pradesh		All India		Madhya Pradesh	
	At current prices	At constant prices	At current Prices	At constant prices	At current Prices	At constant prices	At current prices	At constant prices
1993-94	7,81,345	7,81,345	37,971	37,971	-	-	-	-
1994-95	9,17,058	8,38,031	42,339	39,070	17.37	7.25	11.50	2.89
1995-96	10,73,271	8,99,563	47,841	41,464	17.03	7.34	13.00	6.13
1996-97	12,43,546	9,70,083	55,049	44,170	15.87	7.84	15.07	6.53
1997-98	13,90,148	10,16,594	60,062	46,380	11.79	4.79	9.11	5.00
1998-99	15,98,127	10,82,278	69,216	49,342	14.96	6.51	15.24	6.38
1999-00	17,61,932	11,48,442	77,804	54,425	10.25	6.07	12.41	10.30
2000-01	19,17,724	11,98,685	73,165	49,482	8.84	4.37	-5.96	-9.08

2001-02	20,94,013	12,65,429	81,286	53,179	9.19	5.57	11.10	7.47
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5.3 Net State Domestic product

With a growth of 8.20 per cent during the year net state domestic product of Madhya Pradesh at constant (1993-94) prices has been estimated at Rs 46646 crores in 2001-02 as against Rs 43112 crores in 2000-01. At current prices with a growth of 12.06 per cent, it has been estimated at Rs. 71,594 crores in 2001-02 as against Rs 63,890 crores in 2000-01. Net domestic product for all India during this period registered a growth of 5.73 per cent at constant (1993-94) prices and 9.13 per cent at current prices. (Table 5.7)

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Table 5.7 Net Domestic Product – All India and Madhya Pradesh

Year	Comparative figures (Crore Rs.)				% Increase over previous year			
	All India		Madhya Pradesh		All India		Madhya Pradesh	
	At current prices	At constant prices	At current prices	At constant prices	At current prices	At constant prices	At current prices	At constant prices
1993-94	6,97,922	6,97,922	33,937	33,937	-	-	-	-
1994-95	8,19,064	7,47,573	37,427	34,529	17.35	7.10	10.28	1.74
1995-96	9,55,345	8,00,411	42,096	36,601	16.64	7.07	12.47	6.00
1996-97	11,07,043	8,62,808	48,590	39,057	15.88	7.80	15.43	6.71
1997-98	12,38,151	9,01,734	53,141	41,101	11.84	4.51	9.37	5.23
1998-99	14,30,061	9,60,555	61,391	43,732	15.50	6.52	15.53	6.40
1999-00	15,79,573	10,19,371	68,949	48,221	10.45	6.12	12.31	10.26
2000-01	17,19,868	10,62,616	63,890	43,112	8.88	4.24	-7.34	-10.60
2001-02	18,76,955	11,23,543	71,594	46,646	9.13	5.73	12.06	8.20

5.4 Percentage Distribution by Broad Industry Group

The sectoral composition of the economy reveals that although there has been gradual decline in the share of primary sector and increase in secondary and tertiary sector but the agriculture sector still continues to dominate the state economy. The sectoral composition

clearly indicates that the economy is shifting from agriculture to manufacturing and service sectors because of uncertainty of circumstances and factors involve in agricultural activity.

Percentage distribution of net state domestic product by broad industry groups is shown in the following statement³. The share of primary sector was 45.70 per cent in 1993-94, which has come down to 1993-94 prices respectively. Simultaneously, the percentage share of secondary and tertiary sectors has increased during this period. (Table 5.8)

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Table 5.8: Percentage Distribution of Net State Domestic Product, Madhya Pradesh,

Industry groups	Base year	At current prices			At constant 1993-94 prices		
	93-94	99-00	00-01(P)	01-02	99-00	00-01	01-02
Primary Sector							
Agriculture ,Forestry etc.	45.70	38.99	31.79	33.83	37.28	31.13	33.12
Secondary Sector							
Manufacturing, Construction	18.60	22.93	26.78	25.60	25.71	29.06	28.11
Tertiary Sector							
Transport & Communication	16.51	17.12	17.17	17.13	16.59	16.97	17.01
Banking & Insurance, real	8.58	8.26	9.89	9.73	8.45	9.52	8.87
Community Services	10.61	12.70	14.37	13.71	11.97	13.32	12.89
Net State Domestic Product	100.00	100.00	100.00	100.00	100.00	100.00	100.00

5.5 Organized and Un- organized Sector

Percentage share of organized and un- organized sectors by broad industry a group is shown below in statement 7. The share of organized sector in gross state domestic product (at

factor cost) at current price increased from 35.43 per cent of the base year 1993-94 to 40.31 per cent in the year 2001-02, where as during the same period share of unorganized sector reduced from 64.57 per cent to 59.69 per cent. (Table 5.9)

Table 5.9: Percentage Share of Organized and Un- organized Sectors

Industry group	1993-94		2000-2001 (P)		2001-2002 (Q)	
	Org.	Un-org	Org.	Un-org	Org.	Un-org
Primary sector	11.85	88.15	15.77	84.23	14.52	85.48
Manufacturing, Construction etc.	67.93	32.07	70.00	30.00	70.30	29.70
Transport, communication, Trade	35.29	64.71	39.40	60.60	37.87	62.13
Banking, Insurance, Real Estate,	26.77	73.23	34.18	65.82	33.12	66.88
Community & Personal services	78.01	21.99	76.92	23.08	75.91	24.09
Gross state domestic product	35.43	64.57	42.10	57.90	40.31	59.69

Note: Organized sector includes public sector, registered manufacturing, registered societies, etc.

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5.6 Enterprises in Selected District

The number of register working enterprises was lager in number in Jhabua district than Damoh district. So was the number of employments. In Jhabua district in 1991 the number of registered working enterprises was 68 as against 52 in Damoh. Similarly the number of employment in Jhabua district was 2519 against 1598 in Damoh. In the year 2000 also against the 87 register working industries in Jhabua the number was 65 in Damoh district. The number of employed was higher in Jhabua (4,229) than Damoh (3,196). (Table5.10)

Table 5.10: Enterprises in Selected District

So. No.	1991			2000		
	Damoh	Jhabua	MP.	Damoh	Jhabua	MP.

1.		52	68	10,427	65	87	10,895
2.		6	6	16	6	6	18
3.		1,598	2,519	3,90,766	3,196	4,229	6,31,825
4.		178	223	590	292	272	1,044

In 1980 the total number of enterprises in Damoh district was 4,175 and that in Jhabua district 9,784. In 1990 the number in Damoh district increased to 60,400 and that in Jhabua district increased to 14,875. In both the districts the number increased further in 1998. While it stood as 67,291 in Damoh district it was 18,019 in Jhabua district. Thus, there has been an increase in the number of enterprises in the 3 years of 1980- 1990 and but the increase was much larger in Damoh district than Jhabua district.

In Damoh district the number of units working persons increased from 84,225 in 1980 to 1, 29,166 in 1990 and further to 1, 34,983 in 1998. For the same year the number of persons working in Jhabua district was 23,344 in 1980, 36,843 in 1990 and 43,763 in 1998. In Jhabua, both the number of enterprises and the person's surely working in then were higher in Damoh district as compared to Jhabua district. However the index surely working in then increased at a higher rate in Jhabua district than Damoh district. (Table 5.11)

Table 5.11: Number of Enterprises and Persons Usually Working in Selected District in Madhya Pradesh

Year	Damoh						Jhabua					
	Rural		Urban		Total		Rural		Urban		Total	
	No. of Enterprises	Persons usually working	No. of Enterprises	Persons usually working	No. of Enterprises	Persons usually working	No. of Enterprises	Persons usually working	No. of Enterprises	Persons usually working	No. of Enterprises	Persons usually working
1980	33,636	64,371	8,109	19,854	41,745 (100.00)	84225	6,457	13,306	3,327	10,038	9,784	23,344
1990	45,273	93,023	15,127	36,143	60,400 (144.48)	1,29,166 (153.36)	9,291	20,047	5,584	16,796	14,875 (152.03)	36,843 (157.83)
1998	49,660	96,835	17,631	38,148	67,291 (161.19)	1,34,983 (160.26)	11,791	25,067	6,228	18,696	18,019 (184.17)	43,763 (187.44)

Table : Live Stock Population Jhabua District M.P.**(Unit, 000)**

Sr. No.	Particulars	1980		1990		2001	
		Number	Percentage	Number	Percentage	Number	Percentage
1.	Cow and Bullocks						
	Male	213.0	26.36	270.6	29.37	328.7	28.32
	Female	136.0	16.83	126.8	13.76	152.9	13.41
	Young stock	135.5	16.77	147.5	16.01	159.4	13.98
	Total	484.5	59.96	544.9	59.14	641.1	56.21
2.	Buffaloes						
	Male	3.4	0.42	1.4	0.15	1.6	0.14
	Female	50.0	6.19	51.7	5.61	62.9	5.52
	Young stock	43.9	5.43	47.7	5.18	60.0	5.26
	Total	97.3	12.04	100.8	10.94	124.5	10.92
3.	Sheep	5.7	0.71	7.6	0.82	12.2	1.07
4.	Goats	219.3	27.14	264.9	28.75	359.4	31.52
5.	Horses and Ponies	1.1	0.13	0.7	0.08	0.5	0.04
6.	Mules	-	--	--	--	--	--
7.	Donkeys	--	--	2.4	0.26	2.3	0.20
8.	Camels	--	--	--	--	--	--
9.	Pig	0.2	0.02	0.1	0.01	0.4	0.04
10.	Other Animals	--	--	--	--		
	Totals Animals	808.1	100.00	921.3	100.00	1,146.5	100.00
11.	Poultry	289.2	--	443.8	--	758.4	--

Table : Live Stock Population, Damoh District M.P.**(Unit, 000)**

Sr. No.	Particulars	1981		1991		2001	
		Number	Percentage	Number	Percentage	Number	Percentage
1.	Cow and Bullocks						
	Male	148.7	25.22	156.8	23.19	142.5	22.21
	Female	133.2	22.59	142.0	20.77	121.3	18.90
	Young stock	142.1	24.10	169.8	24.83	156.6	24.40
	Total	424.0	77.91	470.4	68.79	420.4	65.51
2.	Buffaloes						
	Male	2.4	0.41	3.4	0.50	4.0	0.62
	Female	34.9	5.92	42.9	6.27	40.7	6.34
	Young stock	35.9	6.09	49.7	7.27	51.3	8.00
	Total	73.2	12.42	96.0	14.04	96.0	14.96
3.	Sheep	9.4	1.59	6.3	0.92	8.8	1.37
4.	Goats	74.9	12.70	97.8	14.30	105.0	16.37
5.	Horses and Ponies	1.5	0.26	1.0	0.15	0.8	0.12
6.	Mules	--	--	0.1	0.02	0.1	0.02
7.	Donkeys	---	--	0.9	0.13	0.8	0.12
8.	Camels	--	--	--	--	--	--
9.	Pig	6.6	1.12	9.2	1.35	9.8	1.53
10.	Other Animals	--	--	--	--	--	--
	Totals Animals	589.6	100.00	683.8	100.000	641.7	100.00
11.	Poultry	20.2	--	38.9	--	65.2	--

Table : Live Stock Population, in M.P.**(Unit, 000)**

Sr. No.	Particulars	1981		1991		2001	
		Number	Percentage	Number	Percentage	Number	Percentage
1.	Cow and Bullocks						
	Male	7,002.1	23.99	7,558.0	23.98	7,151.5	22.33
	Female	5,737.3	19.66	5,367.0	17.03	5,254.0	16.41
	Young stock	5,360.5	18.37	6,081.7	19.30	5665.0	17.69
	Total	1,8099.9	62.02	19,006.7	60.31	18,070.5	56.43
2.	Buffaloes						
	Male	300.2	1.03	357.4	1.14	310.6	0.97
	Female	2,265.1	7.76	2,686.2	8.52	3,115.1	9.73
	Young stock	2,170.2	7.44	2,672.4	8.48	2,894.5	9.04
	Total	4,735.5	16.23	5,716.0	18.14	6320.2	19.74
3.	Sheep	806.1	2.76	712.8	2.26	770.3	2.41
4.	Goats	5,168.1	17.71	5,606.0	17.79	6,323.7	19.75
5.	Horses and Ponies	146.4	0.50	79.6	0.25	60.8	0.19
6.	Mules	NA.	NA.	5.1	0.02	7.0	0.02
7.	Donkeys	NA.	NA.	55.1	0.17	55.4	0.17
8.	Camels	NA.	NA.	12.8	0.04	9.0	0.03
9.	Pig	226.4	0.78	321.4	1.02	403.9	1.26
10.	Other Animals	---	---	---	---	---	---
	Totals Animals	29,182.4	100.00	31,515.4	100.00	32,020.8	100.00
11.	Poultry	3,363.8	---	4,844.2	---	8,451.0	---