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Abstract

This study provides a profile of deprivation with respect to consumer expenditure, cereal consumption and energy intake across demographic and agro-climatic regions as defined by the National Sample Survey Organisation of India. It examines this evidence at the disaggregated level to verify whether a public distribution system (PDS) targeted with reference to estimates of poverty would end up penalizing the non-poor but food insecure. The empirical profiles have also useful policy relevance with respect to decentralized formulation and implementation of the PDS.

Key words: Consumer expenditure, food insecure, non-poor, poverty, public distribution system

JEL Code(s): I32

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1. Introduction

With the United Nations' Millennium Declaration adopting eight major development goals on 8 September 2000, the question of reduction in poverty and food insecurity has received major policy focus in several developing countries the world over. India has not exhibited similar policy concern on achieving these goals because of the general sense of comfort from the success in reducing poverty and food insecurity as revealed by estimates of consumption-based poverty measures² and surplus stocks of food grains, which are even exported in recent years (Government of India (GoI) 2004; p. S-21).

However, the High Level Committee appointed by the Government of India has challenged this sense of comfort by attributing the excess stocks of food grains to the decline in cereal consumption in recent decades than to increases in food production (GoI, 2002b). The Committee has found that the energy intake level of more than 70 per cent of the population is less than 2100 calories and that the bottom 80 per cent of the rural and bottom 40 per cent of the urban households have a food expenditure share (food expenditure as a share of total expenditure) of over 60 per cent. In other words, the magnitude of food insecurity by both the energy intake norm and food share criterion is more than the incidence of poverty in India. In such a context, the

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² The estimates of poverty declined from 51.3 per cent in 1977/78 to 36 per cent in 1993/94 and 26.1 per cent in 1999/2000 (Government of India (GoI), 2004; p. 204)

recent attempt to revamp the PDS by targeting it with reference to state wise estimates of poverty for 1993/94 (GoI, 1997) by differential pricing across poor and non-poor households has ended up penalizing the non-poor but food insecure also. This is because the PDS has become (i) non-viable due to a reduction in sales and profit margin for the retail outlets; and (ii) ineffective in price stabilization. As a result, PDS off-take under the new regime declined from 19.6 million tonnes in 1996/97 to an annual average of 17.5 million tonnes during 1997-2000. Price instability too increased; a measure of instability given by the ratio of the wholesale price index for cereals to that of all commodities, increased by 17.4 per cent between 1997/98 and 1999/00 and declined sharply by 13.3 per cent between 1999/00 and 2001/02 (GoI, 2002b). Thus, as per the Committee, the targeted PDS has penalized states with low incidence of poverty but relatively high incidence of food insecurity.

Such findings and interpretations with reference to outdated norms have limited validity in the development context involving structural and technological changes and hence, reduced energy requirements. This would call for downward revisions in food security norms as done in several countries. Therefore, we have verified the hypothesis in terms of estimates of the dual dimensions of food insecurity, namely (i) deprivation in economic access (incidence of poverty), and (ii) inadequate physical access to food grains (incidence, depth and severity of deprivation in cereal consumption/calorie intake), corresponding to two different norms, conventional as well as revised ones (Suryanarayana and Dimitri, 2007). For this purpose, we have (a) identified measures and standards for defining food security; (b) provided quantitative cross-sectional profiles of average levels of food security in its economic and physical dimensions across states and their covariance; (c) presented quantitative cross-

sectional profiles of incidence, depth and severity of food insecurity across states and their covariance with average levels of food security; and (d) examined how far estimates of food insecurity in its economic and physical dimensions tally and their policy implications.

The present study makes an attempt to verify the same issues at the disaggregated National Sample Survey (NSS) regional levels by rural and urban sectors. The study is organised as follows: To highlight the importance of the questions raised, the following section would briefly cover the concept, approach and some important findings of Suryanarayana and Dimitri (2007). Section 3 sums up some relevant features of the data base and methodology. Section 4 provides estimates of food security from different perspectives at the regional level in India for the year 1999/00. The final section concludes the paper.

2. Food Security: Concept and Issues

Food security has both economic and physical dimensions; the former referring to economic access and the latter to physical availability of food grains in sufficient quantities required for an active and healthy life. The official definition and measurement of income/consumption poverty in India is anchored in a physical norm for food insecurity. Hence, one would expect the estimates of poverty and food insecurity to tally for any given reference year. However, the two sets of estimates could diverge for any other subsequent year for the following methodological reasons (Suryanarayana and Dimtri, 2007): (i) Estimates of poverty are based on monetary measures of consumer expenditure distributions (at current prices) with reference to a base year norm, where only the norm gets adjusted for percentage price changes; and

(ii) those for deprivation in physical access to food are made in terms of physical quantities (which respond to changes not only in prices, but also tastes and preferences as well as a host of other variables such as levels of living and infrastructural facilities) with reference to a constant base year physical norm. Hence, from a methodological perspective, the estimates of poverty and food insecurity would not tally for non-reference years leading to both Type I and Type II errors in food distribution programmes targeted with reference to monetary-measure based poverty estimates³. This is precisely what underlies the issue raised by the High Level Committee.

If so, how to go about verifying the hypothesis underlying the Expert group study? One approach could be to revise the food security norms downward taking into account the ongoing structural changes in consumption preferences. Until 1993/94, cereal consumption, which is the major source of calorie intake for the Indian household, has increased for the bottom two decile groups and declined for the top seven decile groups in rural All-India; urban All-India does not exhibit such clear cut patterns; but broadly speaking, cereal consumption increased somewhat for the bottom decile groups and decreased for the top decile groups. Per capita calorie intake increased for the bottom four decile groups and decreased for the top six decile groups in rural All-India; as regards urban All-India, it increased for the bottom six decile groups and declined for the top four decile groups. In other words, levels of cereal consumption and calorie intake for different decile groups have been converging to a limit. Hence, we have calculated (i) such limits for the alternative measures of physical access to food as the respective thresholds or revised norms to

³ See Cornia and Stewart (1993) for errors in targeting.

define food insecurity for both rural and urban India; and (ii) estimates of food insecurity after appropriate allowances for adult equivalent scales (Suryanarayana and Dimitri, 2007). The findings show that the estimates of monetary measures of poverty by sectors at the national level exceed or tally with those for food insecurity, obtained with necessary adjustments for calorie intake to account for age-sex composition. This result holds good for the majority of the states, except Andhra Pradesh, Gujarat, Karnataka, Kerala, Punjab and Delhi. The latter are relatively better off states; hence, any shortfall in cereal consumption/calorie intake could be by choice and does not call for policy measures for income transfers by subsidised food distribution.

In other words, estimates of food security may be worked out with reference to two alternative norms, viz., the norm underlying the estimation of the official poverty line, and the convergence levels observed in 1993/94. It is important to adjust for sex-age-activity status of the population. Since the relevant adult equivalent scales are available only for calorie requirements (GoI, 2001a), this study could make such corrections only for calorie intake.

4. Data Base & Methodology

This study is based on the NSS unit record data on household consumer expenditure during the 55th round of the NSS (July 1999- June 2000). This particular round has received considerable attention for the following novel feature, which was absent in the earlier rounds. Till the 50th round (1993-94), the NSS collected information on consumption of food, pan, tobacco & intoxicants for a reference period of 30 days preceding the date of interview. In order to control non-sampling errors, information on consumption of these items was collected for two different reference periods, viz.,

week and a month during the 55th round. Experts have raised questions regarding the advisability of this change since pilot surveys have shown that week-based estimates are higher than the month based estimates for food, pan, tobacco & intoxicants (GoI, 2000). This has rendered the data base from the 55th round virtually incomparable with those from the previous rounds. Therefore, it may not be possible to use the data for estimating trends in food security; instead, it could be useful for cross-sectional comparisons for policy analysis.

India is a Union of States and Union Territories. The country is diverse and heterogeneous. Hence, to obtain representative estimates the NSS sample design is stratified and two-stage in both rural and urban sectors. The rural and urban sectors are stratified into what are called NSS regions.⁴ In the rural sector, such regions are formed with reference to agro-climatic parameters while in the urban on the basis of population size. Thus reliable estimates of NSS distributions are available at the national, state and regional levels. Having examined the issue at the state level, this study proposes to obtain estimates of food insecurity for (78) NSS regions across states.

From the point of view of the present study, the NSS 55th round survey results have the advantage that they provide estimates of household per capita consumption, calorie intake and other related parameters like household size, education, ownership of assets like land. In an *ex* post sense, estimates of per capita consumer expenditure, cereal consumption and calorie intake measure realized quantities of measures of physical and economic access to food. Therefore, we measure (a) levels of food

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⁴ In a given NSS region, villages (blocks) in the rural (urban) sector are selected in the first stage and households in the second stage.

security in terms of averages (per head of population) and (b) different dimensions of food insecurity in terms of P_{α} class of poverty measures (Foster, Greer, Thorbecke, 1985) for per capita consumer expenditure, cereal consumption and calorie intake.

The details on estimation of economic deprivation measures are given below:

- Estimates of poverty are made with reference to Government of India official definition and estimate of rural and urban poverty lines, viz., Rs 49.09 and Rs 56.64 per capita per month at 1973/74 prices respectively (GoI, 1979). Poverty line estimates for the rural and urban areas of all-India and major states for the year 1999-2000 are taken from Government of India (2001d).
- Estimates of poverty for NSS regions in a given state are made with reference to respective state-specific poverty lines.
- For some smaller states like Sikkim, for which either NSS sample size is not adequate or complete information is not available, Government of India (1993) uses either the poverty lines or poverty ratios from a neighbouring state (decided with reference to physical proximity and economic profile). We have followed the Government of India approach while choosing poverty lines but not poverty ratios. For instance, Government of India (1993) has adopted the poverty ratio of Assam for Sikkim. But, we have used only the poverty lines of Assam for Sikkim but not poverty ratios. This is because the imposition of the average estimate of a given state on another (i) would impose an additional non-sampling error on the estimates for the latter since region wise estimates of poverty within a given state vary widely (Table 3 6); and (ii) would not add to the information content of the sample of region wise estimates.

As regards physical access, we measure it from two complementary perspectives, viz., food grain (cereal) consumption and calorie intake for the following reasons:

- The hypothesis in question is based on findings related to these two measures.
- Much of the policy effort of the Government of India to mitigate food insecurity runs in terms of augmenting physical access through (i) a comprehensive agricultural policy for promoting agricultural and food grain production; and (ii) buffer stocking and safety nets like the PDS selling cereals at subsidized prices.⁵ An estimate of the magnitude of food grain / cereal consumption shortfall has definite implications for such policies to promote physical access to food grains and their sustainability.
- Calorie is a major nutrient required for day to day functioning. Without calorie adequacy, protein intake is not of much use (Swaminathan Research Foundation, 2001). Incidence of protein deficiency is much less than that of calorie deficiency (GoI, 2001a & 2001b). The estimated incidence of protein deficiency with reference to a common norm of 50 gm per capita per day is about 20 per cent (see GoI 2001a and 2001b).
- Consumption pattern of the Indian population has undergone some diversification in favour of non-food items; diversity is an important indicator of food security and requirement for nutrition security. Any attempt to define food security only with reference to food/cereal consumption would involve overestimation and neglect of related policies for nutrition security. In fact, the Government of India has an agenda to promote nutrition security by a variety

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⁵ Government of India has expanded many of its welfare schemes with a change in design in favour of the food grain in-kind transfer. For instance, Antyodaya, Annapurna and mid-day meal schemes account for more than 25 per cent of the food grain off take from the PDS (*Economic and Political Weekly* editorial, November 6, 2004).

of policies and programmes for income generation, sanitary environment, adequate health services and awareness creation.

For these measures, the normative calorie norm underlying the poverty line may be taken as the norm for defining food security. Till recently average rural Indian household derived about 85 per cent of the total calorie intake from cereal consumption; at present it is about 68 per cent (GoI, 2001b; p. 25). The cereal consumption levels corresponding to the poverty line baskets in the rural and urban areas are 15.50 kilograms and 12.25 kilograms respectively. Any individual having cereal consumption or calorie intake less than the norm could be considered food insecure.

However, given the convergent patterns of changes in cereal consumption and calorie intake across decile groups of population in rural and urban India, we may consider the corresponding cereal consumption and calorie intake levels as thresholds for defining food and nutrition security in India. Such estimates of convergence for the year 1993/94 work out to (i) 13 kg per capita per month in rural India and 11 kg per capita per month in urban India; and (ii) daily per capita calorie intake of 2100 calories in rural India and 2030 calories in urban India. Hence, estimates of food security may be worked out with reference to two alternative norms, viz., the norm underlying the estimation of the official poverty line, and the convergence levels observed in 1993/94. It is important to adjust for sex-age-activity status of the population. Since the relevant adult equivalent scales are available only for calorie requirements (GoI, 2001b), this study could make such corrections only for calorie intake.

5. Food security levels: Average levels of economic & physical accesses

- Estimates at the regional level bring out the regional imbalances within the so called developed states. For instance, per capita state domestic product⁶ is the second highest in the state of Maharashtra (Government of Maharashtra, 2002); yet it fell in the lower middle quartile in terms of rural per capita consumption and upper quartile in terms of urban per capita consumption (Table 1). At the disaggregate level, its regions fell in different quartile groups when ranked in terms of per capita consumer expenditures, cereal consumption and calorie intake across regions in the country as a whole. For instance, (i) Maharashtra Eastern region fell in the lowest quartile in terms of rural per capita consumer expenditure and Inland Central in the lowest quartile in terms of urban per capita consumer expenditure; (ii) Inland Northern and Inland Western regions in the lowest quartile in terms of rural per capita cereal consumption, and Coastal. Inland Northern and Inland Western regions in the lowest quartile in terms of urban per capita cereal consumption; and (iii) Eastern, Coastal and Inland Northern regions in the lowest quartile in terms of rural calorie intake, and Inland Northern and Inland Eastern regions in terms of urban per capita calorie intake. This result has implications for targeted distribution of food grains; it would be imperative to target food distribution programmes at the state level with reference to regional estimates of food insecurity.
- Irrespective of the state, poorer regions belonged to the lower quartile group in terms of rural/urban per capita consumer expenditures and upper quartile

⁶ Per capita state domestic product is the average for the entire state.

groups in terms of cereal consumption. The disaggregated regional analysis brings out the associations much more sharply (Table 2). There is significant negative association between per capita consumer expenditure and cereal consumption and significant positive association between cereal consumption and calorie intake in both rural and urban sectors. But the association between per capita consumer expenditure and calorie intake is statistically insignificant; this could be because consumption diversification that has accompanied the reduction in economic deprivation has not adequately compensated for the decline in cereal consumption and calorie intake.

• The results presented above clearly bring out the changes in consumption patterns associated with improvement in economic status. Reduction in cereal consumption cannot be interpreted to indicate a worsening of food security.

(b) Poverty & Food Insecurity:

This section proposes to examine economic deprivation and food insecurity as reflected in the rural/urban sectoral incidence (P_0) , depth (P_1) and severity (P_2) of poverty, food insecurity and severity across regions in India. Estimates of food insecurity are made using different measures- per capita cereal consumption and per capita calorie - with reference to two alternative norms discussed already.⁷ The main findings are as follows (Tables 3-6)

• The regional estimates of economic deprivation reconfirm the findings based on estimates of averages, that is, regional imbalances exist within the developed states, or, for that matter, even in poorer states. For instance, incidence of rural poverty ranged from 11 per cent in Inland Western to 42 per

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⁷ These all-India norms are applied uniformly across all regions without any reference to differences in tastes & preferences, and requirements. This is one limitation of this exercise.

cent in Eastern region and incidence of urban poverty ranged from 11 per cent in the Coastal to 54 per cent in the Central Region of advanced Maharashtra. Similarly, the incidence of rural poverty varied from 32 per cent in the Coastal region to 87 per cent in the Southern region and incidence of urban poverty varied from 41 per cent in the Coastal to 46 per cent in the Northern region of relatively backward State of Orissa.

- Poverty seems to be concentrated in some of the regions of rural Assam,
 Bihar, Orissa, West Bengal, Madhya Pradesh, Uttar Pradesh, and the eastern
 region of Maharashtra. Barring Eastern Maharashtra, these are precisely the
 regions where the incidence of cereal deprivation is one of the lowest.
- In general, there is negative association between incidence of poverty and alternative measures of cereal deprivation in the rural sector across regions (Table 7). This is further confirmed by statistically significant negative coefficients of correlation between the two measures. The association is rather weak for the urban sector. In other words, the poorer states seem to be reasonably food secure in terms of cereal consumption. The high incidence of cereal deprivation in the richer regions could be due to the shifts in consumption preferences in favour of non-cereal and non-food items and hence is not involuntary.
- The association between incidence of poverty and different measures of per capita calorie deprivation is positive significant at the regional level for both rural and urban sectors.

In other words, cross-sectional estimates across regions too confirm the changes in consumption preferences associated with reduction in economic deprivation. Therefore, calorie inadequacy *per se* could not be taken indicate food insecurity.

(c) Physical Access: Calorie Intake adjusted for Age-Sex-Activity

The discussion so far is based on per capita measures, of course, relative to all-India per capita norms. This is based on the implicit assumption that the age, sex and activity composition is invariant across states. With the available equivalence scales, adjustments for calorie intake to take into account age-sex-activity could be made across households. Since 1972/73, the standard NSS norm has been 2700 kilo calories per consumer unit per diem for both rural and urban sectors (Government of India, 2001d). However, we consider the calorie levels corresponding to the alternative per capita norms for the analysis below. Some important findings are as follows (Table 8):

- Majority of the NSS regions seem to have achieved food security as measured by average calorie intake per adult equivalent scale. The lower quartiles exceed the two alternative norms in both rural and urban sectors (Table 1).
- The association between estimates of monetary measures of poverty and per adult equivalent calorie intake measure of food insecurity is positive and significant at the regional level in both rural and urban sectors (Table 9).
- As pointed out in our previous study (Suryanarayana and Dimitri, 2007), the PDS is targeted with reference to estimates of poverty for the year 1993/94 and not for 1999/2000. A comparison between estimates of incidence of poverty for 1993/94 and incidence of (per adult equivalent) calorie deficiency brings out that both in rural and urban India the size of the targeted population exceeded that of the (per adult equivalent) calorie deficient.

⁸ This norm works out to a per capita norm of 2178 calories for the rural sector and 2208 calories for the urban

- Though the previous result stood valid good for majority of the states except Andhra Pradesh, Gujarat, Karnataka, Kerala, Punjab and Delhi, it may not imply any imperilment of the food insecure since (i) states like Kerala have targeted the PDS to a larger proportion (42 per cent) of the population than that (25 per cent) estimated by the Central Government and hence, to a proportion larger than that of the calorie insecure; and (ii) these states are relatively better off and the estimate of calorie insecurity may be apparent (by choice) than real.
- However, it may be noted that the measures used in the paper are not comprehensive enough to answer unambiguously the question under review.
 For instance, Kerala and Tamil Nadu fall in the first quartile group in terms of calorie intake (Table 4). Still they do very well in terms of nutritional status of children thanks to effective public welfare programmes in Kerala and mid day meal schemes in Tamil Nadu.
- In sum, the policy message that emerges has more to do with influencing consumption choice rather than enlarging the PDS net to the whole population.

Conclusion:

This paper has attempted to verify the question, whether the PDS targeted with reference to estimates of poverty based on monetary measures of consumption distribution has penalised the set of food insecure identified with respect to a physical measure of consumption. This is carried out with reference to disaggregate estimates of poverty and food deprivation for different regions in India by rural and urban sectors. The study re-confirms the findings obtained at the aggregate state level that the hypothesis under review has limited empirical basis and validity. At the same

time, our findings call for reconsideration of the emphasis on targeting with reference to aggregate estimates of poverty at the state level. Regions even within developed states like Maharashtra fall in the poorest quartile at the national level in terms of cereal consumption/ calorie intake. Ideally there is a need to formulate policies with respect all the three different measures of deprivation. The study also provides a regional profile of food insecurity in different dimensions which could go a long way in decentralized formulation and implementation of the PDS.

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Table 1: Indicators of Food Security Levels: NSS Regions

| Region | Consume Expendit | Consumer Expenditure for 30 days (PCE) Cereal Consumption for 30 days (PCC) Energy Intake (kilo calories) per diem (PCI) (kilo calories) per diem (PCI) | | | | (kilo calories) per diem (PCI) | | Cereal Energy Intake (kilo calories) 30 days (PCC) per diem (PCI) Calorie Intake (kilo calories) per diem (PAECI) | | | |
|------------------------------------|---------------------|--|-------|-------|-------|-----------------------------------|-------|---|--|--|--|
| | Rural | Urban | Rural | Urban | Rural | Urban | Rural | Urban | | | |
| Andhra Pradesh - Costal | 491.93 | 773.53 | 12.99 | 11.34 | 2121 | 2070 | 2645 | 2547 | | | |
| Andhra Pradesh - Inland | | | | | | | | | | | |
| Northern | 436.61 | 792.42 | 12.48 | 10.77 | 1963 | 2069 | 2443 | 2517 | | | |
| Andhra Pradesh - South- Western | 399.40 | 655.70 | 12.07 | 10.22 | 1909 | 1933 | 2365 | 2380 | | | |
| Andhra Pradesh - Inland- | 377.10 | 000.70 | 12.07 | 10.22 | 1707 | 1755 | 2303 | 2300 | | | |
| Southern | 386.93 | 756.59 | 12.40 | 10.67 | 1885 | 1956 | 2354 | 2458 | | | |
| Arunachal Pradesh - Arunachal | 200.52 | 700.00 | 12 | 10.07 | 1000 | 1,00 | 200. | | | | |
| Pradesh | 649.79 | 760.42 | 15.75 | 14.43 | 4540 | 5246 | 5566 | 6121 | | | |
| Assam - Plains Eastern | 451.70 | 821.64 | 12.61 | 11.51 | 1933 | 2079 | 2366 | 2510 | | | |
| Assam - Plains Western | 410.28 | 817.51 | 12.66 | 12.62 | 1912 | 2236 | 2350 | 2735 | | | |
| Assam - Hills | 390.09 | 732.87 | 12.28 | 12.92 | 1747 | 2032 | 2128 | 2468 | | | |
| Bihar - Southern | 374.49 | 670.09 | 13.55 | 12.15 | 2030 | 2138 | 2514 | 2591 | | | |
| Bihar - Northern | 397.26 | 516.23 | 13.77 | 13.28 | 2129 | 2139 | 2671 | 2621 | | | |
| Bihar - Central | 371.90 | 596.92 | 13.89 | 12.80 | 2171 | 2220 | 2726 | 2721 | | | |
| Goa | 868.66 | 1155.35 | 11.18 | 10.16 | 2435 | 2205 | 2991 | 2745 | | | |
| Gujarat - Eastern | 459.81 | 915.47 | 10.47 | 8.96 | 1886 | 1919 | 2338 | 2346 | | | |
| Gujarat - Plains Northern | 570.84 | 947.03 | 9.73 | 7.88 | 1979 | 1976 | 2450 | 2420 | | | |
| Gujarat - Plains Southern | 573.23 | 976.84 | 9.91 | 8.05 | 1922 | 1993 | 2381 | 2453 | | | |
| Gujarat - Dry Areas | 562.03 | 740.76 | 9.96 | 9.19 | 1971 | 2185 | 2476 | 2669 | | | |
| Gujarat - Saurashtra | 586.98 | 787.87 | 10.79 | 9.43 | 2136 | 2206 | 2670 | 2721 | | | |
| Haryana - Eastern | 746.97 | 954.51 | 11.33 | 9.33 | 2465 | 2131 | 3051 | 2620 | | | |
| Haryana - Western | 649.14 | 785.78 | 11.43 | 9.48 | 2429 | 2292 | 3011 | 2854 | | | |
| Himachal Pradesh - Himachal | 017.11 | 700.70 | 11.15 | 7.10 | 2 127 | | 3011 | 2001 | | | |
| Pradesh | 684.70 | 1242.83 | 12.85 | 10.33 | 2453 | 2655 | 3076 | 3225 | | | |
| Jammu & Kashmir - | 001.70 | 12 .2.05 | 12.00 | 10.00 | 2.00 | | 2070 | 5220 | | | |
| Mountainous | 739.62 | 1083.16 | 12.94 | 11.92 | 2389 | 2456 | 2996 | 3019 | | | |
| Jammu & Kashmir - Outer Hills | 632.60 | 1038.26 | 15.16 | 13.48 | 2836 | 2800 | 3621 | 3489 | | | |
| Jammu & Kashmir - Jhelam | | | | | | | | | | | |
| Valley | 695.75 | 853.92 | 14.86 | 13.42 | 2521 | 6771 | 3080 | 8075 | | | |
| Karnataka - Coastal & Ghats | 645.08 | 781.04 | 11.95 | 9.82 | 2195 | 1952 | 2724 | 2424 | | | |
| Karnataka - Inland Eastern | 595.26 | 753.31 | 11.46 | 11.81 | 2066 | 2171 | 2553 | 2638 | | | |
| Karnataka - Inland Southern | 545.34 | 1106.31 | 11.89 | 10.09 | 2047 | 2097 | 2521 | 2569 | | | |
| Karnataka - Inland Northern | 431.21 | 673.42 | 11.30 | 10.18 | 1984 | 1965 | 2494 | 2417 | | | |
| Kerela - Northern | 636.88 | 741.91 | 10.12 | 9.29 | 1819 | 1831 | 2298 | 2310 | | | |
| Kerela - Southern | 858.79 | 1059.51 | 11.37 | 9.97 | 2100 | 2105 | 2672 | 2655 | | | |
| Madhya Pradesh - Chattisgarh | 366.08 | 676.60 | 13.67 | 12.26 | 1987 | 2142 | 2476 | 2626 | | | |
| Madhya Pradesh - Vindhya | 389.64 | 599.63 | 13.75 | 12.90 | 2206 | 2715 | 2772 | 3243 | | | |
| Madhya Pradesh - Central | 423.66 | 786.13 | 12.45 | 10.04 | 2085 | 1974 | 2615 | 2399 | | | |
| Madhya Pradesh - Malwa | 473.37 | 735.08 | 11.90 | 10.01 | 2044 | 2045 | 2557 | 2520 | | | |
| Madhya Pradesh - South | 358.71 | 693.51 | 12.98 | 11.39 | 1983 | 1992 | 2473 | 2438 | | | |
| Madhya Pradesh - South | | | | | | | | | | | |
| Western | 376.84 | 626.70 | 11.45 | 10.52 | 1883 | 1993 | 2342 | 2425 | | | |
| Madhya Pradesh - Northern | 453.31 | 671.53 | 13.36 | 11.20 | 2350 | 2144 | 2878 | 2652 | | | |
| Maharashtra - Coastal | 517.78 | 1163.54 | 11.47 | 8.82 | 1921 | 2058 | 2418 | 2505 | | | |
| Maharashtra - Inland Western | 595.87 | 962.91 | 10.72 | 9.30 | 2000 | 2033 | 2493 | 2489 | | | |
| Maharashtra - Inland Northern | 464.06 | 815.01 | 10.67 | 8.88 | 1969 | 1942 | 2469 | 2401 | | | |
| Maharashtra - Inland Central | 444.69 | 610.94 | 12.86 | 11.68 | 2166 | 2137 | 2702 | 2644 | | | |
| Maharashtra - Inland Eastern | 450.28 | 716.29 | 11.45 | 10.05 | 2014 | 1951 | 2527 | 2414 | | | |
| Maharashtra - Eastern | 379.88 | 841.48 | 11.89 | 11.04 | 1859 | 2137 | 2347 | 2604 | | | |

| Manipur - Plains | 565.51 | 710.94 | 16.04 | 15.72 | 6251 | 17096 | 7792 | 21593 |
|-------------------------------|--------|---------|-------|-------|-------|-------|-------|-------|
| Manipur - Hills | 502.10 | 610.15 | 16.14 | 16.59 | 10951 | 6130 | 14261 | 7613 |
| Meghalaya - Meghalaya | 563.34 | 971.94 | 11.98 | 10.76 | 1857 | 2006 | 2299 | 2464 |
| Mizoran -Mizoran | 723.81 | 1054.90 | 12.78 | 13.34 | 4464 | 3946 | 5452 | 4811 |
| Nagaland - Nagaland | 941.19 | 1242.11 | 14.82 | 13.02 | 2397 | 2165 | 2922 | 2599 |
| Orissa - Coastal | 425.10 | 644.96 | 15.47 | 13.76 | 2239 | 2268 | 2801 | 2789 |
| Orissa - Southern | 246.14 | 637.17 | 14.15 | 14.60 | 1864 | 2345 | 2333 | 2875 |
| Orissa - Northern | 369.23 | 576.31 | 15.10 | 15.57 | 2088 | 2328 | 2597 | 2837 |
| Punjab - Northern | 769.65 | 886.80 | 10.44 | 8.98 | 2375 | 2185 | 2967 | 2652 |
| Punjab - Southern | 713.05 | 918.88 | 10.80 | 9.64 | 2406 | 2212 | 3002 | 2723 |
| Rajasthan - Western | 585.04 | 788.71 | 14.66 | 12.44 | 2562 | 2417 | 3205 | 2972 |
| Rajasthan - North-Eastern | 559.84 | 802.25 | 14.22 | 11.17 | 2449 | 2258 | 3085 | 2778 |
| Rajasthan - Southern | 481.44 | 925.47 | 13.52 | 10.97 | 2178 | 2291 | 2755 | 2841 |
| Rajasthan - South-Eastern | 497.44 | 690.05 | 13.70 | 10.65 | 2285 | 2414 | 2820 | 2926 |
| Sikkim - Sikkim | 531.14 | 908.47 | 11.97 | 13.75 | 2023 | 2376 | 2459 | 2857 |
| Tamil Nadu - Coastal Northern | 435.50 | 1036.37 | 10.33 | 9.57 | 1731 | 2116 | 2151 | 2635 |
| Tamil Nadu - Coastal | 521.73 | 748.49 | 11.96 | 10.42 | 2004 | 2110 | 2510 | 2650 |
| Tamil Nadu - Southern | 519.89 | 1044.96 | 10.40 | 9.64 | 1774 | 1897 | 2245 | 2383 |
| Tamil Nadu - Inland | 601.25 | 899.05 | 10.51 | 9.39 | 1862 | 1931 | 2316 | 2380 |
| Tripura - Tripura | 530.00 | 876.67 | 13.16 | 13.22 | 2302 | 2286 | 2782 | 2797 |
| Uttar Pradesh - Himalayan | 559.14 | 836.59 | 13.77 | 11.97 | 2467 | 2395 | 3113 | 2902 |
| Uttar Pradesh - Western | 529.77 | 720.57 | 12.92 | 10.57 | 2420 | 2165 | 3034 | 2679 |
| Uttar Pradesh - Central | 419.67 | 650.29 | 14.94 | 10.20 | 2388 | 1984 | 3013 | 2429 |
| Uttar Pradesh - Eastern | 424.30 | 646.71 | 13.55 | 11.81 | 2211 | 2191 | 2798 | 2670 |
| Uttar Pradesh - Southern | 496.58 | 594.91 | 14.72 | 11.44 | 2408 | 2104 | 3027 | 2646 |
| West Bengal - Himalayan | 476.69 | 726.41 | 14.18 | 11.32 | 2092 | 2031 | 2573 | 2477 |
| West Bengal - Eastern Plains | 417.58 | 698.89 | 13.18 | 11.88 | 2038 | 2113 | 2528 | 2596 |
| West Bengal - Central Plains | 505.15 | 906.73 | 13.53 | 10.92 | 2166 | 2105 | 2668 | 2580 |
| West Bengal - Western Plains | 426.47 | 823.29 | 14.02 | 12.60 | 2074 | 2625 | 2539 | 3193 |
| Andaman & Nicobar Islands | 779.44 | 1114.04 | 11.17 | 10.23 | 2100 | 2076 | 2556 | 2498 |
| Chandigarh - Chandigarh | 979.35 | 1435.39 | 9.33 | 8.75 | 2245 | 2247 | 2610 | 2747 |
| Dadra & Nagar Haveli - Dadra | | | | | | | | |
| & Nagar Hav | 560.27 | 1207.24 | 11.72 | 10.45 | 2087 | 2306 | 2538 | 2810 |
| Daman & Diu - Daman & Diu | 901.38 | 977.39 | 11.68 | 9.97 | 2278 | 2219 | 2710 | 2736 |
| Delhi - Delhi | 916.65 | 1379.19 | 7.85 | 8.61 | 1825 | 2151 | 2147 | 2634 |
| Lakshadweep - Lakshadweep | 876.13 | 1018.13 | 11.19 | 10.88 | 2489 | 2449 | 3072 | 3033 |
| Pondicherry - Pondicherry | 597.48 | 784.16 | 11.05 | 9.64 | 1998 | 1974 | 2516 | 2463 |
| All-India | 485.85 | 854.30 | 12.77 | 10.44 | 2149 | 2155 | 2685 | 2648 |
| Lower Quartile* | 427.66 | 701.90 | 11.31 | 9.86 | 1973 | 2033 | 2461 | 2480 |
| Median* | 520.81 | 790.57 | 12.43 | 10.77 | 2096 | 2141 | 2604 | 2641 |
| Upper Quartile* | 624.76 | 960.81 | 13.69 | 12.23 | 2385 | 2290 | 2956 | 2807 |

^{*} Simple estimates (population unadjusted).

 Table 2: (Product Moment) Correlation Matrix (Region wise)

| | Rural PCE | Urban PCE | Rural PCC | Urban PCC | Rural PCI | Urban PCI | Rural PAECI | Urban PAECI |
|----------------|---------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|
| Rural PCE | 1.0000 | | | | | | | |
| Urban PCE | 0.7362* | 1.0000 | | | | | | |
| Rural PCC | -0.3449* | -0.4765* | 1.0000 | | | | | |
| Urban PCC | - 0.2849** | -0.3991* | 0.8324* | 1.0000 | | | | |
| Rural PCI | 0.1001 | -0.1155 | 0.4404* | 0.5232* | 1.0000 | | | |
| Urban PCI | 0.0739 | -0.0857 | 0.4045* | 0.4832* | 0.6292* | 1.0000 | | |
| Rural PAECI | 0.0815 | -0.1302 | 0.4406* | 0.5187* | 0.9992* | 0.6138* | 1.0000 | |
| Urban PAECI | 0.0715 | -0.0865 | 0.3965* | 0.4745* | 0.6265* | 0.9995* | 0.6115* | 1.0000 |

^{*} p-values less than 0.01 **p-value less than 0.05

Table 3: Estimates of Rural Deprivation (%): Regions and All-India: 1999/2000

| Region | Consum | ner Expe | nditure | Cereal Consumption (Norm I) | | | Calorie Intake (Norm I) | | |
|--|--------------------|--------------------|--------------------|--------------------------------|--------------------|--------------------|----------------------------|--------------------|--------------------|
| Kegion | _ | | | | | | _ | I _ | _ |
| | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) |
| Andhra Pradesh - Costal | 7.13 | 1.19 | 0.37 | 81.10 | 19.27 | 7.29 | 77.02 | 16.81 | 5.39 |
| Andhra Pradesh - Inland Northern | 9.29 | 1.12 | 0.21 | 83.36 | 22.63 | 7.91 | 83.14 | 22.22 | 7.44 |
| Andhra Pradesh - South-Western | 18.68 | 3.46 | 1.16 | 90.84 | 23.48 | 8.41 | 85.57 | 22.46 | 7.96 |
| Andhra Pradesh - Inland-Southern | 24.30 | 6.10 | 2.22 | 80.63 | 22.98 | 9.28 | 83.65 | 24.66 | 9.93 |
| Arunachal Pradesh - Arunachal Pradesh | 100.0 | | | 63.00 | 19.54 | 9.07 | 63.58 | 19.06 | 7.95 |
| Assam - Plains Eastern | 34.92 | 6.51 | 1.94 | 85.80 | 21.03 | 6.82 | 87.56 | 22.32 | 7.26 |
| Assam - Plains Western | 42.93 | 9.68 | 3.21 | 84.50 | 20.67 | 6.94 | 86.09 | 22.78 | 7.88 |
| Assam - Hills | 53.95 | 10.43 | 2.83 | 90.33 | 21.61 | 7.09 | 95.51 | 27.65 | 9.82 |
| Bihar - Southern | 49.94 | 10.29 | 3.10 | 75.08 | 17.79 | 6.14 | 81.24 | 19.81 | 6.58 |
| Bihar - Northern | 40.00 | 7.71 | 2.15 | 73.23 | 17.40 | 5.80 | 73.64 | 17.29 | 5.43 |
| Bihar - Central | 45.85 | 9.21 | 2.72 | 70.17 | 16.48 | 5.57 | 72.17 | 16.16 | 5.09 |
| Goa | 0.00 | 0.00 | 0.00 | 91.76 | 29.22 | 11.39 | 79.47 | 16.73 | 4.86 |
| Gujarat - Eastern | 25.61 | 4.47 | 1.15 | 92.53 | 33.82 | 14.79 | 87.06 | 23.58 | 8.03 |
| Gujarat - Plains Northern | 8.92 | 1.24 | 0.27 | 95.03 | 38.03 | 17.45 | 80.24 | 21.13 | 7.04 |
| Gujarat - Plains Southern | 13.53 | 2.81 | 0.82 | 91.72 | 37.76 | 19.48 | 82.03 | 23.72 | 8.86 |
| Gujarat - Dry Areas | 12.02 | 2.68 | 0.87 | 94.25 | 36.44 | 17.16 | 80.35 | 21.81 | 7.88 |
| Gujarat - Saurashtra | 3.85 | 0.61 | 0.16 | 91.67 | 31.45 | 12.86 | 74.18 | 15.46 | 4.52 |
| Haryana - Eastern | 6.09 | 0.99 | 0.28 | 88.96 | 28.73 | 11.47 | 54.01 | 10.69 | 2.93 |
| Haryana - Western | 9.74 | 1.75 | 0.52 | 89.25 | 29.20 | 11.86 | 57.62 | 12.49 | 3.84 |
| Himachal Pradesh - Himachal | | | | | | | | | |
| Pradesh | 7.80 | 1.05 | 0.24 | 84.61 | 19.49 | 6.33 | 56.47 | 9.44 | 2.24 |
| Jammu & Kashmir - Mountainous | 8.66 | 1.42 | 0.34 | 84.94 | 18.35 | 5.37 | 54.53 | 9.38 | 2.34 |
| Jammu & Kashmir - Outer Hills | 5.32 | 0.49 | 0.07 | 41.03 | 9.59 | 3.28 | 29.49 | 4.56 | 1.10 |
| Jammu & Kashmir - Jhelam | | | | | | | | | |
| Valley | 0.69 | 0.08 | 0.01 | 56.78 | 10.67 | 2.99 | 44.08 | 6.81 | 1.50 |
| Karnataka - Coastal & Ghats | 3.85 | 0.85 | 0.22 | 85.00 | 26.32 | 10.13 | 72.20 | 16.36 | 5.00 |
| Karnataka - Inland Eastern | 3.35 | 0.42 | 0.10 | 94.64 | 27.79 | 9.73 | 82.72 | 17.78 | 4.93 |
| Karnataka - Inland Southern | 10.73 | 1.65 | 0.40 | 84.61 | 27.02 | 11.07 | 78.63 | 21.12 | 7.63 |
| Karnataka - Inland Northern | 25.13 | 4.11 | 1.05 | 86.12 | 30.47 | 13.85 | 79.30 | 23.57 | 9.10 |
| Kerela - Northern | 14.96 | 2.26 | 0.55 | 94.57 | 35.69 | 15.79 | 88.76 | 26.57 | 10.02 |
| Kerela - Southern | 5.44 | 0.89 | 0.24 | 88.78 | 28.82 | 11.88 | 75.63 | 18.21 | 6.11 |
| Madhya Pradesh - Chattisgarh | 45.91 | 9.64 | 2.83 | 78.44 | 18.48 | 6.28 | 84.28 | 22.31 | 7.64 |
| Madhya Pradesh - Vindhya | 33.05 | 5.26 | 1.30 | 72.55 | 15.45 | 5.34 | 66.79 | 14.00 | 4.20 |
| Madhya Pradesh - Central | 35.70 | 7.87 | 2.48 | 80.33 | 24.87 | 10.21 | 75.03 | 20.97 | 7.93 |
| Madhya Pradesh - Malwa Madhya Pradesh - South | 25.83 50.68 | 5.86 11.92 | 2.05 3.95 | 87.63 | 25.53 22.11 | 9.93 8.03 | 80.18 82.68 | 20.41 | 7.04 8.04 |
| - | | | | 81.22 | | | | | |
| Madhya Pradesh - South Western | 39.54 | 7.80 | 2.29 | 91.96 75.08 | 27.31 | 10.04 | 87.96 | 23.86 | 8.09 |
| Madhya Pradesh - Northern Maharashtra - Coastal | 19.88 18.35 | 3.03 | 0.70 | | 19.44 | 10.37 | 62.90 | 13.68 | 4.09 7.52 |
| Maharashtra - Inland Western | 10.67 | 4.33 1.67 | 1.56 0.41 | 90.84 95.60 | 27.78 31.45 | 12.20 | 87.26 85.98 | 22.61 19.90 | 6.04 |
| Maharashtra - Inland Northern | 31.76 | 6.23 | 1.86 | 93.00 | 34.33 | 14.87 | 86.16 | 24.42 | 8.92 |
| Maharashtra - Inland Central | 24.32 | 4.82 | 1.51 | 93.92 81.47 | 19.40 | 7.28 | 75.40 | 14.88 | 4.63 |
| Maharashtra - Inland Eastern | 31.71 | 5.86 | 1.65 | 90.70 | 29.39 | 12.35 | 80.74 | 21.88 | 8.05 |
| Maharashtra - Eastern | 42.12 | 7.07 | 1.89 | 88.63 | 25.04 | 9.25 | 88.33 | 24.44 | 8.55 |
| Manipur - Plains | 6.72 | 0.38 | 0.05 | 53.76 | 7.00 | 1.68 | 72.62 | 12.76 | 3.15 |
| Manipur - Hills | 23.44 | 3.67 | 0.87 | 64.68 | 6.46 | 1.22 | 72.16 | 13.09 | 2.94 |
| Meghalaya - Meghalaya | 5.94 | 0.54 | 0.08 | 93.54 | 23.79 | 7.24 | 93.09 | 24.03 | 7.29 |

| Mizoran -Mizoran | 2.81 | 0.23 | 0.03 | 84.13 | 20.12 | 6.60 | 73.77 | 16.90 | 5.35 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Nagaland - Nagaland | 0.20 | 0.03 | 0.01 | 63.95 | 10.65 | 2.84 | 65.31 | 11.18 | 2.75 |
| Orissa - Coastal | 31.78 | 5.76 | 1.55 | 51.93 | 9.67 | 2.95 | 68.21 | 13.23 | 3.70 |
| Orissa - Southern | 87.18 | 27.88 | 11.08 | 68.67 | 13.76 | 4.03 | 90.13 | 23.69 | 8.05 |
| Orissa - Northern | 49.82 | 11.34 | 3.61 | 57.73 | 11.25 | 3.46 | 75.25 | 17.42 | 5.44 |
| Punjab - Northern | 5.57 | 0.74 | 0.17 | 93.19 | 33.68 | 14.14 | 62.89 | 12.02 | 3.36 |
| Punjab - Southern | 6.54 | 0.87 | 0.19 | 91.97 | 32.05 | 13.01 | 62.25 | 12.69 | 3.58 |
| Rajasthan - Western | 10.34 | 1.44 | 0.34 | 63.99 | 13.37 | 4.23 | 48.67 | 8.75 | 2.42 |
| Rajasthan - North-Eastern | 11.40 | 1.63 | 0.41 | 70.28 | 15.60 | 5.07 | 52.96 | 9.17 | 2.30 |
| Rajasthan - Southern | 23.89 | 4.43 | 1.21 | 78.53 | 17.02 | 5.30 | 76.93 | 15.92 | 4.41 |
| Rajasthan - South-Eastern | 17.06 | 2.32 | 0.46 | 76.21 | 16.03 | 4.94 | 66.60 | 12.65 | 3.34 |
| Sikkim - Sikkim | 21.65 | 3.13 | 0.72 | 86.43 | 24.09 | 9.23 | 87.30 | 21.16 | 6.69 |
| Tamil Nadu - Coastal Northern | 31.43 | 7.04 | 2.42 | 92.94 | 34.91 | 15.69 | 89.31 | 30.31 | 12.69 |
| Tamil Nadu - Coastal | 12.80 | 2.13 | 0.50 | 81.35 | 25.85 | 10.66 | 78.51 | 21.23 | 7.76 |
| Tamil Nadu - Southern | 18.36 | 2.85 | 0.64 | 94.07 | 33.72 | 14.49 | 89.07 | 28.01 | 10.85 |
| Tamil Nadu - Inland | 12.92 | 2.03 | 0.48 | 93.60 | 34.07 | 15.03 | 86.90 | 26.31 | 9.97 |
| Tripura - Tripura | 16.57 | 2.58 | 0.64 | 83.16 | 17.59 | 4.89 | 82.55 | 18.55 | 5.43 |
| Uttar Pradesh - Himalayan | 15.51 | 2.14 | 0.45 | 76.92 | 18.08 | 6.12 | 56.74 | 10.14 | 2.68 |
| Uttar Pradesh - Western | 21.75 | 3.62 | 0.96 | 77.68 | 21.83 | 8.31 | 59.77 | 13.05 | 4.13 |
| Uttar Pradesh - Central | 42.13 | 8.61 | 2.49 | 62.73 | 13.23 | 4.24 | 60.39 | 12.15 | 3.52 |
| Uttar Pradesh - Eastern | 36.42 | 6.83 | 1.87 | 76.31 | 18.08 | 6.19 | 70.87 | 15.39 | 4.69 |
| Uttar Pradesh - Southern | 20.89 | 4.75 | 1.59 | 62.91 | 12.29 | 3.60 | 61.33 | 10.60 | 2.71 |
| West Bengal - Himalayan | 32.59 | 6.05 | 1.51 | 69.99 | 14.40 | 4.46 | 78.53 | 16.99 | 5.09 |
| West Bengal - Eastern Plains | 38.16 | 7.48 | 1.97 | 72.98 | 20.63 | 7.55 | 76.19 | 19.79 | 6.58 |
| West Bengal - Central Plains | 20.14 | 3.20 | 0.81 | 74.94 | 17.62 | 5.81 | 74.11 | 15.94 | 4.65 |
| West Bengal - Western Plains | 38.44 | 10.00 | 3.77 | 67.83 | 16.22 | 5.80 | 76.23 | 18.47 | 6.48 |
| Andaman & Nicobar Islands | 0.25 | 0.00 | 0.00 | 93.55 | 28.91 | 10.99 | 78.32 | 16.57 | 4.83 |
| Chandigarh - Chandigarh | 7.61 | 1.18 | 0.20 | 91.20 | 42.21 | 22.45 | 61.88 | 16.22 | 5.59 |
| Dadra & Nagar Haveli - Dadra & | | | | | | | | | |
| Nagar Hav | 16.46 | 3.00 | 0.74 | 97.32 | 24.66 | 10.07 | 82.06 | 17.86 | 5.47 |
| Daman & Diu - Daman & Diu | 0.00 | 0.00 | 0.00 | 88.86 | 26.67 | 11.31 | 60.42 | 11.40 | 3.11 |
| Delhi - Delhi | 0.72 | 0.03 | 0.00 | 98.91 | 49.49 | 27.61 | 87.29 | 28.20 | 10.99 |
| Lakshadweep - Lakshadweep | 0.00 | 0.00 | 0.00 | 94.26 | 28.09 | 12.17 | 43.73 | 8.05 | 2.29 |
| Pondicherry - Pondicherry | 11.47 | 2.14 | 0.64 | 89.99 | 29.96 | 12.68 | 77.77 | 21.09 | 7.50 |
| All-India | 26.70 | 5.26 | 1.55 | 79.30 | 22.03 | 8.40 | 74.08 | 17.87 | 5.91 |

Table 4: Estimates of Rural Deprivation (%): Regions and All-India: 1999/2000

| Region | Consun | ner Expe | nditure | | l Consum Norm II) | | Calorie Intake (Norm II) | | |
|--|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|-----------------------------|--------------------|--------------------|
| G | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) |
| Andhra Pradesh - Costal | 7.13 | 1.19 | 0.37 | 50.82 | 10.54 | 4.09 | 53.85 | 9.73 | 2.98 |
| Andhra Pradesh - Inland Northern | 9.29 | 1.12 | 0.21 | 61.55 | 12.77 | 3.73 | 69.32 | 14.41 | 4.07 |
| Andhra Pradesh - South-Western | 18.68 | 3.46 | 1.16 | 63.07 | 12.74 | 4.30 | 69.87 | 14.41 | 4.73 |
| Andhra Pradesh - Inland-Southern | 24.30 | 6.10 | 2.22 | 56.71 | 14.25 | 5.31 | 67.12 | 17.27 | 6.53 |
| Arunachal Pradesh - Arunachal Pradesh | 100.0 | | | 43.90 | 12.99 | 6.03 | 51.64 | 13.44 | 5.39 |
| Assam - Plains Eastern | 34.92 | 6.51 | 1.94 | 59.79 | 10.81 | 2.93 | 71.28 | 13.98 | 3.89 |
| Assam - Plains Western | 42.93 | 9.68 | 3.21 | 56.14 | 10.72 | 3.23 | 69.93 | 14.77 | 4.52 |
| Assam - Hills | 53.95 | 10.43 | 2.83 | 62.31 | 11.35 | 3.12 | 80.01 | 18.68 | 5.70 |
| Bihar - Southern | 49.94 | 10.29 | 3.10 | 45.89 | 9.39 | 3.02 | 61.16 | 12.41 | 3.66 |
| Bihar - Northern | 40.00 | 7.71 | 2.15 | 47.07 | 9.01 | 2.68 | 55.82 | 10.44 | 2.84 |
| Bihar - Central | 45.85 | 9.21 | 2.72 | 43.96 | 8.70 | 2.62 | 51.09 | 9.61 | 2.71 |
| Goa | 0.00 | 0.00 | 0.00 | 79.00 | 18.40 | 6.03 | 55.25 | 9.46 | 2.34 |
| Gujarat - Eastern | 25.61 | 4.47 | 1.15 | 79.62 | 23.32 | 8.86 | 72.25 | 15.49 | 4.47 |
| Gujarat - Plains Northern | 8.92 | 1.24 | 0.27 | 86.89 | 27.72 | 10.80 | 66.36 | 13.65 | 3.84 |
| Gujarat - Plains Southern | 13.53 | 2.81 | 0.82 | 76.83 | 28.58 | 13.64 | 70.17 | 16.28 | 5.41 |
| Gujarat - Dry Areas | 12.02 | 2.68 | 0.87 | 82.89 | 26.29 | 11.06 | 63.79 | 14.58 | 4.70 |
| Gujarat - Saurashtra | 3.85 | 0.61 | 0.16 | 79.54 | 20.80 | 7.15 | 52.17 | 8.69 | 2.21 |
| Haryana - Eastern | 6.09 | 0.99 | 0.28 | 72.69 | 18.61 | 6.23 | 37.23 | 5.71 | 1.32 |
| Haryana - Western | 9.74 | 1.75 | 0.52 | 72.46 | 19.13 | 6.58 | 40.38 | 7.28 | 1.99 |
| Himachal Pradesh - Himachal | | | | | | | | | |
| Pradesh | 7.80 | 1.05 | 0.24 | 53.00 | 9.67 | 2.85 | 33.99 | 4.23 | 0.85 |
| Jammu & Kashmir - Mountainous | 8.66 | 1.42 | 0.34 | 53.11 | 8.36 | 2.02 | 31.87 | 4.54 | 0.96 |
| Jammu & Kashmir - Outer Hills | 5.32 | 0.49 | 0.07 | 23.56 | 5.13 | 1.58 | 16.17 | 2.05 | 0.43 |
| Jammu & Kashmir - Jhelam | | | | | | | | | |
| Valley | 0.69 | 0.08 | 0.01 | 31.03 | 4.15 | 1.16 | 26.11 | 2.79 | 0.50 |
| Karnataka - Coastal & Ghats | 3.85 | 0.85 | 0.22 | 69.37 | 16.37 | 5.31 | 53.75 | 9.68 | 2.54 |
| Karnataka - Inland Eastern | 3.35 | 0.42 | 0.10 | 79.81 | 15.83 | 4.50 | 61.45 | 9.70 | 2.22 |
| Karnataka - Inland Southern | 10.73 | 1.65 | 0.40 | 68.71 | 17.26 | 6.32 | 61.76 | 13.99 | 4.57 |
| Karnataka - Inland Northern | 25.13 | 4.11 | 1.05 | 71.83 | 20.98 | 8.76 | 64.65 | 16.49 | 5.73 |
| Kerela - Northern | 14.96 | 2.26 | 0.55 | 84.96 | 25.07 | 9.49 | 75.03 | 18.52 | 6.15 |
| Kerela - Southern | 5.44 | 0.89 | 0.24 | 71.25 | 18.76 | 6.78 | 54.85 | 11.39 | 3.45 |
| Madhya Pradesh - Chattisgarh | 45.91 | 9.64 | 2.83 | 49.03 | 9.70 | 3.00 | 67.99 | 14.47 | 4.32 |
| Madhya Pradesh - Vindhya | 33.05 | 5.26 | 1.30 | 39.84 | 7.89 | 2.73 | 45.96 | 7.95 | 2.13 |
| Madhya Pradesh - Central | 35.70 | 7.87 | 2.48 | 59.64 | 15.99 | 5.86 | 57.77 | 14.35 | 4.95 |
| Madhya Pradesh - Malwa | 25.83 | 5.86 | 2.05 | 69.77 | 15.24 | 5.45 | 63.25 | 13.03 | 4.05 |
| Madhya Pradesh - South | 50.68 | 11.92 | 3.95 | 58.94 | 12.77 | 4.02 | 68.29 | 15.19 | 4.65 |
| Madhya Pradesh - South Western | 39.54 | 7.80 | 2.29 | 73.53 | 16.22 | 5.01 | 74.02 | 15.57 | 4.49 |
| Madhya Pradesh - Northern | 19.88 | 3.03 | 0.70 | 52.47 | 10.74 | 3.30 | 44.80 | 7.90 | 2.04 |
| Maharashtra - Coastal | 18.35 | 4.33 | 1.56 | 74.15 | 16.90 | 5.21 | 70.46 | 14.46 | 4.12 |
| Maharashtra - Inland Western | 10.67 | 1.67 | 0.41 | 83.36 | 19.97 | 6.37 | 65.16 | 11.81 | 3.02 |
| Maharashtra - Inland Northern | 31.76 | 6.23 | 1.86 | 85.01 | 23.66 | 8.77 | 70.09 | 16.76 | 5.33 |
| Maharashtra - Inland Central | 24.32 | 4.82 | 1.51 | 51.38 | 10.21 | 4.12 | 48.64 | 8.26 | 2.53 |
| Maharashtra - Inland Eastern | 31.71 | 5.86 | 1.65 | 73.63 | 18.97 | 7.27 | 61.88 | 14.73 | 4.90 |
| Maharashtra - Eastern | 42.12 | 7.07 | 1.89 | 65.61 | 14.57 | 4.75 | 74.48 | 16.18 | 4.91 |
| Manipur - Plains | 6.72 | 0.38 | 0.05 | 16.00 | 2.27 | 0.61 | 48.76 | 5.82 | 1.28 |

| Manipur - Hills | 23.44 | 3.67 | 0.87 | 17.17 | 1.67 | 0.23 | 55.13 | 5.76 | 0.93 |
|--------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Meghalaya - Meghalaya | 5.94 | 0.54 | 0.08 | 74.72 | 11.51 | 2.72 | 82.49 | 14.73 | 3.53 |
| Mizoran -Mizoran | 2.81 | 0.23 | 0.03 | 56.90 | 10.32 | 2.96 | 53.53 | 10.04 | 2.87 |
| Nagaland - Nagaland | 0.20 | 0.03 | 0.01 | 28.36 | 3.96 | 1.07 | 38.94 | 5.15 | 1.12 |
| Orissa - Coastal | 31.78 | 5.76 | 1.55 | 24.31 | 4.07 | 1.35 | 44.58 | 6.99 | 1.75 |
| Orissa - Southern | 87.18 | 27.88 | 11.08 | 37.92 | 6.03 | 1.59 | 73.70 | 15.27 | 4.51 |
| Orissa - Northern | 49.82 | 11.34 | 3.61 | 30.55 | 5.01 | 1.54 | 57.47 | 10.40 | 2.84 |
| Punjab - Northern | 5.57 | 0.74 | 0.17 | 84.08 | 22.86 | 8.03 | 39.99 | 6.38 | 1.59 |
| Punjab - Southern | 6.54 | 0.87 | 0.19 | 81.72 | 21.34 | 7.09 | 43.07 | 6.95 | 1.68 |
| Rajasthan - Western | 10.34 | 1.44 | 0.34 | 35.27 | 6.56 | 1.88 | 28.32 | 4.46 | 1.17 |
| Rajasthan - North-Eastern | 11.40 | 1.63 | 0.41 | 43.42 | 7.81 | 2.31 | 32.84 | 4.38 | 0.96 |
| Rajasthan - Southern | 23.89 | 4.43 | 1.21 | 46.93 | 8.17 | 2.26 | 57.65 | 8.54 | 2.01 |
| Rajasthan - South-Eastern | 17.06 | 2.32 | 0.46 | 44.13 | 7.38 | 2.11 | 42.74 | 6.50 | 1.46 |
| Sikkim - Sikkim | 21.65 | 3.13 | 0.72 | 62.85 | 13.78 | 5.08 | 68.98 | 12.93 | 3.49 |
| Tamil Nadu - Coastal Northern | 31.43 | 7.04 | 2.42 | 83.00 | 24.53 | 9.64 | 79.09 | 22.55 | 8.44 |
| Tamil Nadu - Coastal | 12.80 | 2.13 | 0.50 | 63.30 | 16.82 | 6.11 | 60.09 | 14.37 | 4.68 |
| Tamil Nadu - Southern | 18.36 | 2.85 | 0.64 | 82.96 | 23.00 | 8.50 | 78.48 | 19.94 | 6.79 |
| Tamil Nadu - Inland | 12.92 | 2.03 | 0.48 | 81.73 | 23.63 | 9.08 | 74.72 | 18.49 | 6.13 |
| Tripura - Tripura | 16.57 | 2.58 | 0.64 | 50.98 | 7.19 | 1.72 | 63.63 | 10.58 | 2.61 |
| Uttar Pradesh - Himalayan | 15.51 | 2.14 | 0.45 | 45.81 | 9.61 | 2.89 | 33.99 | 5.11 | 1.20 |
| Uttar Pradesh - Western | 21.75 | 3.62 | 0.96 | 56.98 | 13.08 | 4.42 | 41.08 | 7.69 | 2.23 |
| Uttar Pradesh - Central | 42.13 | 8.61 | 2.49 | 35.10 | 6.31 | 1.95 | 41.65 | 6.48 | 1.76 |
| Uttar Pradesh - Eastern | 36.42 | 6.83 | 1.87 | 47.92 | 9.55 | 2.99 | 50.25 | 8.86 | 2.41 |
| Uttar Pradesh - Southern | 20.89 | 4.75 | 1.59 | 32.12 | 5.50 | 1.43 | 37.66 | 5.31 | 1.13 |
| West Bengal - Himalayan | 32.59 | 6.05 | 1.51 | 36.26 | 6.86 | 1.93 | 55.63 | 9.63 | 2.58 |
| West Bengal - Eastern Plains | 38.16 | 7.48 | 1.97 | 55.51 | 11.94 | 3.82 | 61.78 | 12.74 | 3.58 |
| West Bengal - Central Plains | 20.14 | 3.20 | 0.81 | 48.02 | 8.93 | 2.66 | 53.54 | 9.02 | 2.26 |
| West Bengal - Western Plains | 38.44 | 10.00 | 3.77 | 41.42 | 8.87 | 2.97 | 54.48 | 11.78 | 3.84 |
| Andaman & Nicobar Islands | 0.25 | 0.00 | 0.00 | 78.56 | 17.44 | 5.72 | 55.42 | 9.40 | 2.34 |
| Chandigarh - Chandigarh | 7.61 | 1.18 | 0.20 | 85.64 | 33.28 | 15.86 | 46.34 | 10.72 | 3.18 |
| Dadra & Nagar Haveli - Dadra & | | | | | | | | | |
| Nagar Hav | 16.46 | 3.00 | 0.74 | 64.84 | 14.06 | 6.18 | 60.11 | 10.24 | 2.84 |
| Daman & Diu - Daman & Diu | 0.00 | 0.00 | 0.00 | 70.30 | 15.95 | 6.99 | 38.58 | 5.74 | 1.46 |
| Delhi - Delhi | 0.72 | 0.03 | 0.00 | 95.32 | 40.39 | 20.16 | 74.50 | 20.47 | 6.86 |
| Lakshadweep - Lakshadweep | 0.00 | 0.00 | 0.00 | 67.91 | 17.02 | 7.72 | 22.50 | 4.44 | 1.13 |
| Pondicherry - Pondicherry | 11.47 | 2.14 | 0.64 | 76.20 | 19.82 | 7.42 | 62.36 | 14.06 | 4.39 |
| All-India | 26.7 | 5.26 | 1.55 | 56.73 | 13.07 | 4.51 | 55.66 | 11.08 | 3.27 |

Table 5: Estimates of Urban Deprivation (%): Regions and All-India: 1999/2000

| Region | Consun | ner Expe | nditure | | l Consum (Norm I) | ption | Ca | alorie Int (Norm I | |
|------------------------------------|--------------------|--------------------|--------------------|--------------------|----------------------|--------------------|--------------------|-----------------------|--------------------|
| Region | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) |
| Andhra Pradesh - Costal | 29.09 | 5.44 | 1.56 | 63.38 | 14.41 | 5.71 | 55.96 | 10.54 | 3.10 |
| Andhra Pradesh - Inland Northern | 22.67 | 4.52 | 1.31 | 71.10 | 17.60 | 6.83 | 62.31 | 13.07 | 3.84 |
| Andhra Pradesh - South-Western | 41.98 | 10.92 | 3.95 | 79.91 | 19.65 | 7.06 | 74.55 | 17.92 | 5.97 |
| Andhra Pradesh - Inland-Southern | 32.89 | 7.04 | 2.42 | 68.50 | 17.68 | 7.01 | 66.02 | 14.39 | 4.51 |
| Arunachal Pradesh - Arunachal | | | | | | | | | |
| Pradesh | 4.92 | 2.71 | 1.98 | 47.78 | 14.34 | 6.94 | 44.09 | 11.43 | 4.57 |
| Assam - Plains Eastern | 9.72 | 2.31 | 0.74 | 62.95 | 14.51 | 5.37 | 61.00 | 13.95 | 4.30 |
| Assam - Plains Western | 6.45 | 1.09 | 0.24 | 45.73 | 9.27 | 3.71 | 50.81 | 9.20 | 2.34 |
| Assam - Hills | 4.30 | 0.41 | 0.06 | 36.99 | 5.35 | 0.97 | 54.89 | 8.46 | 1.92 |
| Bihar - Southern | 29.19 | 7.40 | 2.95 | 53.56 | 12.49 | 4.92 | 55.16 | 12.12 | 4.25 |
| Bihar - Northern | 40.62 | 7.78 | 2.05 | 45.15 | 8.66 | 2.52 | 50.19 | 10.55 | 2.90 |
| Bihar - Central | 32.71 | 5.51 | 1.37 | 44.41 | 7.99 | 2.91 | 48.43 | 7.44 | 1.81 |
| Goa | 6.20 | 1.37 | 0.39 | 77.95 | 23.24 | 8.81 | 50.24 | 10.58 | 3.10 |
| Gujarat - Eastern | 22.21 | 5.03 | 1.59 | 96.39 | 27.17 | 10.06 | 71.98 | 13.00 | 3.16 |
| Gujarat - Plains Northern | 14.09 | 2.43 | 0.69 | 94.99 | 36.33 | 16.74 | 66.66 | 13.41 | 3.85 |
| Gujarat - Plains Southern | 14.89 | 2.04 | 0.42 | 93.91 | 35.14 | 15.68 | 64.90 | 13.04 | 3.68 |
| Gujarat - Dry Areas | 19.94 | 3.43 | 1.17 | 90.30 | 25.98 | 11.09 | 58.99 | 10.35 | 3.01 |
| Gujarat - Saurashtra | 13.45 | 1.99 | 0.46 | 88.11 | 24.76 | 9.62 | 51.35 | 8.64 | 2.23 |
| Haryana - Eastern | 9.57 | 2.11 | 0.84 | 86.68 | 26.92 | 10.52 | 53.71 | 10.64 | 3.14 |
| Haryana - Western | 11.10 | 1.80 | 0.51 | 86.49 | 25.36 | 9.67 | 58.61 | 11.66 | 3.18 |
| Himachal Pradesh - Himachal | | | | | | | | | |
| Pradesh | 4.57 | 0.59 | 0.12 | 66.98 | 21.16 | 12.34 | 27.09 | 4.05 | 1.08 |
| Jammu & Kashmir - Mountainous | 2.37 | 0.11 | 0.01 | 58.50 | 10.13 | 2.92 | 26.32 | 3.21 | 0.61 |
| Jammu & Kashmir - Outer Hills | 0.00 | 0.00 | 0.00 | 31.37 | 7.39 | 2.72 | 16.96 | 1.81 | 0.25 |
| Jammu & Kashmir - Jhelam Valley | 0.54 | 0.07 | 0.01 | 32.85 | 4.65 | 1.09 | 32.44 | 3.52 | 0.61 |
| Karnataka - Coastal & Ghats | 33.80 | 8.52 | 2.59 | 78.10 | 24.28 | 11.50 | 64.61 | 16.89 | 6.23 |
| Karnataka - Inland Eastern | 22.50 | 3.76 | 0.86 | 63.70 | 13.00 | 4.05 | 57.59 | 8.40 | 1.84 |
| Karnataka - Inland Southern | 11.92 | 1.74 | 0.39 | 77.73 | 22.77 | 9.09 | 57.47 | 10.96 | 3.13 |
| Karnataka - Inland Northern | 42.08 | 11.08 | 4.02 | 76.21 | 23.25 | 9.87 | 65.58 | 15.37 | 5.01 |
| Kerela - Northern | 30.04 | 6.11 | 1.83 | 87.37 | 26.06 | 10.38 | 75.27 | 18.65 | 6.36 |
| Kerela - Southern | 12.94 | 2.41 | 0.67 | 79.09 | 22.92 | 10.10 | 54.96 | 11.74 | 3.80 |
| Madhya Pradesh - Chattisgarh | 33.55 | 7.60 | 2.41 | 52.02 | 10.96 | 3.70 | 53.34 | 9.73 | 2.73 |
| Madhya Pradesh - Vindhya | 42.86 | 11.52 | 4.02 | 47.56 | 8.22 | 2.21 | 47.57 | 8.41 | 2.29 |
| Madhya Pradesh - Central | 32.89 | 6.68 | 2.01 | 83.37 | 24.23 | 9.14 | 71.54 | 15.18 | 4.45 |
| Madhya Pradesh - Malwa | 29.41 | 6.96 | 2.27 | 78.10 | 22.42 | 9.28 | 59.95 | 12.91 | 4.10 |
| Madhya Pradesh - South | 38.18 | 10.27 | 3.88 | 65.33 | 13.27 | 4.17 | 62.03 | 12.16 | 3.61 |
| Madhya Pradesh - South Western | 35.66 | 8.42 | 2.99 | 78.09 | 19.06 | 6.98 | 63.24 | 12.74 | 3.88 |
| Madhya Pradesh - Northern | 36.62 | 9.14 | 3.13 | 70.17 | 16.55 | 5.64 | 55.32 | 10.14 | 2.79 |
| Maharashtra - Coastal | 10.78 | 1.59 | 0.40 | 89.64 | 29.80 | 12.99 | 63.36 | 12.14 | 3.36 |
| Maharashtra - Inland Western | 27.67 | 6.17 | 2.01 | 87.36 | 26.15 | 10.49 | 60.85 | 12.05 | 3.41 |
| Maharashtra - Inland Northern | 40.49 | 12.38 | 4.95 | 93.11 | 29.79 | 12.35 | 67.90 | 14.20 | 4.67 |
| Maharashtra - Inland Central | 54.27 | 14.42 | 5.13 | 63.78 | 15.80 | 6.34 | 56.44 | 11.33 | 3.22 |
| Maharashtra - Inland Eastern | 51.20 | 15.65 | 6.10 | 80.48 | 21.89 | 7.91 | 65.38 | 15.51 | 4.90 |
| Maharashtra - Eastern | 28.04 | 8.38 | 3.32 | 65.72 | 16.98 | 6.59 | 48.67 | 11.10 | 3.81 |
| Manipur - Plains | 0.52 | 0.02 | 0.00 | 10.89 | 1.51 | 0.40 | 35.14 | 3.51 | 0.59 |
| Manipur - Hills | 0.52 | 0.02 | 0.00 | 15.88 | 1.30 | 0.40 | 24.83 | 3.24 | 0.60 |
| Meghalaya - Meghalaya | 0.00 | 0.00 | 0.00 | 73.43 | 15.19 | 6.17 | 67.16 | 10.36 | 2.21 |

| Mizoran -Mizoran | 0.00 | 0.00 | 0.00 | 45.25 | 7.72 | 2.24 | 43.15 | 7.72 | 2.02 |
|--------------------------------|-------|-------|------|-------|-------|-------|-------|-------|------|
| Nagaland - Nagaland | 0.00 | 0.00 | 0.00 | 44.08 | 8.69 | 3.26 | 53.72 | 9.87 | 2.70 |
| Orissa - Coastal | 41.27 | 10.81 | 3.85 | 35.08 | 7.85 | 3.63 | 42.48 | 6.99 | 2.06 |
| Orissa - Southern | 43.97 | 13.19 | 5.10 | 28.23 | 3.22 | 1.10 | 36.92 | 5.48 | 1.25 |
| Orissa - Northern | 45.77 | 10.52 | 3.53 | 28.74 | 4.31 | 1.55 | 42.68 | 6.36 | 1.36 |
| Punjab - Northern | 3.98 | 0.49 | 0.11 | 90.53 | 28.57 | 11.56 | 53.59 | 9.76 | 2.58 |
| Punjab - Southern | 8.32 | 0.90 | 0.17 | 81.03 | 25.31 | 10.09 | 48.69 | 9.04 | 2.43 |
| Rajasthan - Western | 16.79 | 3.11 | 0.93 | 50.55 | 11.23 | 3.75 | 33.00 | 5.53 | 1.57 |
| Rajasthan - North-Eastern | 20.85 | 3.61 | 0.89 | 66.47 | 16.32 | 5.96 | 51.72 | 7.88 | 1.85 |
| Rajasthan - Southern | 8.75 | 0.93 | 0.12 | 69.88 | 16.35 | 5.79 | 42.43 | 7.51 | 2.00 |
| Rajasthan - South-Eastern | 30.13 | 5.72 | 1.57 | 71.33 | 16.96 | 5.98 | 63.28 | 10.79 | 2.70 |
| Sikkim - Sikkim | 4.86 | 0.69 | 0.13 | 68.11 | 17.35 | 8.19 | 66.80 | 11.18 | 2.84 |
| Tamil Nadu - Coastal Northern | 20.26 | 4.90 | 1.68 | 83.87 | 26.87 | 11.71 | 64.63 | 15.21 | 5.22 |
| Tamil Nadu - Coastal | 23.94 | 4.28 | 1.20 | 75.55 | 20.39 | 8.33 | 57.81 | 11.23 | 3.26 |
| Tamil Nadu - Southern | 26.69 | 5.80 | 1.85 | 81.83 | 24.13 | 9.73 | 70.30 | 16.07 | 5.42 |
| Tamil Nadu - Inland | 21.76 | 3.70 | 1.10 | 87.20 | 26.40 | 10.86 | 73.05 | 15.99 | 5.10 |
| Tripura - Tripura | 2.13 | 0.29 | 0.06 | 29.34 | 4.00 | 1.04 | 46.68 | 6.27 | 1.20 |
| Uttar Pradesh - Himalayan | 14.04 | 3.23 | 1.03 | 51.15 | 11.84 | 5.54 | 27.22 | 5.17 | 2.05 |
| Uttar Pradesh - Western | 30.24 | 6.01 | 1.75 | 74.65 | 18.93 | 6.83 | 57.25 | 11.09 | 3.05 |
| Uttar Pradesh - Central | 33.45 | 8.03 | 2.53 | 76.27 | 22.29 | 9.17 | 62.23 | 14.95 | 5.46 |
| Uttar Pradesh - Eastern | 31.07 | 6.25 | 1.83 | 56.79 | 13.31 | 4.72 | 53.25 | 10.08 | 2.90 |
| Uttar Pradesh - Southern | 40.89 | 9.20 | 3.25 | 64.90 | 15.76 | 5.55 | 57.25 | 13.01 | 3.79 |
| West Bengal - Himalayan | 20.27 | 4.47 | 1.39 | 59.44 | 14.64 | 5.25 | 59.22 | 11.51 | 3.83 |
| West Bengal - Eastern Plains | 28.47 | 6.08 | 1.93 | 58.23 | 11.38 | 4.23 | 55.87 | 10.22 | 2.99 |
| West Bengal - Central Plains | 11.39 | 1.77 | 0.45 | 67.39 | 17.26 | 6.64 | 59.53 | 11.30 | 3.20 |
| West Bengal - Western Plains | 21.77 | 2.99 | 0.63 | 46.30 | 12.68 | 5.79 | 45.18 | 9.57 | 3.06 |
| Andaman & Nicobar Islands | 0.54 | 0.14 | 0.03 | 77.52 | 19.90 | 7.44 | 58.06 | 10.19 | 2.63 |
| Chandigarh - Chandigarh | 3.04 | 0.68 | 0.19 | 90.44 | 31.05 | 13.71 | 44.52 | 8.81 | 2.67 |
| Dadra & Nagar Haveli - Dadra & | | | | | | | | | |
| Nagar Hav | 12.29 | 1.98 | 0.38 | 67.18 | 19.87 | 10.18 | 32.01 | 6.81 | 1.97 |
| Daman & Diu - Daman & Diu | 10.82 | 1.71 | 0.43 | 83.46 | 20.32 | 7.17 | 45.37 | 7.67 | 2.00 |
| Delhi - Delhi | 9.31 | 1.55 | 0.36 | 89.57 | 31.67 | 13.77 | 57.16 | 11.36 | 3.12 |
| Lakshadweep - Lakshadweep | 3.30 | 0.29 | 0.05 | 69.42 | 16.63 | 6.29 | 34.63 | 5.24 | 1.53 |
| Pondicherry - Pondicherry | 22.35 | 6.22 | 2.34 | 84.16 | 24.80 | 10.33 | 66.27 | 13.83 | 4.18 |
| All-India | 23.46 | 5.16 | 1.65 | 73.61 | 20.82 | 8.4 | 58.12 | 11.7 | 3.49 |

Table 6: Estimates of Urban Deprivation (%): Regions and All-India: 1999/2000

| Region | Consumer Expenditure | | | Cereal Consumption (Norm II) | | | Calorie Intake (Norm II) | | |
|------------------------------------|----------------------|--------------------|--------------------|---------------------------------|--------------------|--------------------|-----------------------------|--------------------|--------------------|
| | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) | P ₀ (%) | P ₁ (%) | P ₂ (%) |
| Andhra Pradesh - Costal | 29.09 | 5.44 | 1.56 | 44.46 | 9.87 | 4.18 | 51.46 | 9.06 | 2.63 |
| Andhra Pradesh - Inland Northern | 22.67 | 4.52 | 1.31 | 53.99 | 12.48 | 4.86 | 57.96 | 11.45 | 3.25 |
| Andhra Pradesh - South-Western | 41.98 | 10.92 | 3.95 | 62.86 | 13.63 | 4.75 | 71.22 | 16.02 | 5.20 |
| Andhra Pradesh - Inland-Southern | 32.89 | 7.04 | 2.42 | 60.25 | 12.28 | 5.08 | 62.85 | 12.66 | 3.88 |
| Arunachal Pradesh - Arunachal | | | | | | | | | |
| Pradesh | 4.92 | 2.71 | 1.98 | 39.67 | 10.99 | 5.56 | 39.19 | 10.39 | 4.13 |
| Assam - Plains Eastern | 9.72 | 2.31 | 0.74 | 48.47 | 9.80 | 3.74 | 58.59 | 12.37 | 3.67 |
| Assam - Plains Western | 6.45 | 1.09 | 0.24 | 27.61 | 6.18 | 2.76 | 47.23 | 7.81 | 1.91 |
| Assam - Hills | 4.30 | 0.41 | 0.06 | 25.45 | 2.33 | 0.29 | 48.98 | 6.93 | 1.51 |
| Bihar - Southern | 29.19 | 7.40 | 2.95 | 35.39 | 8.86 | 3.55 | 50.31 | 10.71 | 3.75 |
| Bihar - Northern | 40.62 | 7.78 | 2.05 | 30.70 | 5.20 | 1.47 | 48.05 | 9.24 | 2.40 |
| Bihar - Central | 32.71 | 5.51 | 1.37 | 26.98 | 4.88 | 2.07 | 41.54 | 6.16 | 1.46 |
| Goa | 6.20 | 1.37 | 0.39 | 66.79 | 17.41 | 6.03 | 47.56 | 9.26 | 2.62 |
| Gujarat - Eastern | 22.21 | 5.03 | 1.59 | 88.94 | 19.68 | 6.82 | 69.04 | 11.01 | 2.54 |
| Gujarat - Plains Northern | 14.09 | 2.43 | 0.69 | 90.87 | 29.87 | 12.78 | 61.33 | 11.66 | 3.24 |
| Gujarat - Plains Southern | 14.89 | 2.04 | 0.42 | 88.85 | 28.68 | 11.75 | 60.37 | 11.31 | 3.08 |
| Gujarat - Dry Areas | 19.94 | 3.43 | 1.17 | 70.63 | 19.53 | 8.27 | 50.13 | 8.79 | 2.55 |
| Gujarat - Saurashtra | 13.45 | 1.99 | 0.46 | 71.28 | 18.33 | 6.74 | 46.12 | 7.25 | 1.83 |
| Haryana - Eastern | 9.57 | 2.11 | 0.84 | 73.70 | 20.72 | 7.31 | 50.81 | 9.20 | 2.66 |
| Haryana - Western | 11.10 | 1.80 | 0.51 | 73.85 | 19.22 | 6.63 | 54.66 | 10.12 | 2.64 |
| Himachal Pradesh - Himachal | | | | | | | | | |
| Pradesh | 4.57 | 0.59 | 0.12 | 50.47 | 16.85 | 10.74 | 22.52 | 3.35 | 0.89 |
| Jammu & Kashmir - Mountainous | 2.37 | 0.11 | 0.01 | 36.79 | 5.60 | 1.74 | 20.68 | 2.53 | 0.45 |
| Jammu & Kashmir - Outer Hills | 0.00 | 0.00 | 0.00 | 23.05 | 5.05 | 1.89 | 12.32 | 1.32 | 0.15 |
| Jammu & Kashmir - Jhelam Valley | 0.54 | 0.07 | 0.01 | 16.49 | 2.32 | 0.53 | 25.88 | 2.63 | 0.44 |
| Karnataka - Coastal & Ghats | 33.80 | 8.52 | 2.59 | 64.63 | 18.89 | 9.06 | 62.14 | 15.29 | 5.54 |
| Karnataka - Inland Eastern | 22.50 | 3.76 | 0.86 | 43.77 | 8.19 | 2.48 | 49.44 | 6.81 | 1.44 |
| Karnataka - Inland Southern | 11.92 | 1.74 | 0.39 | 67.35 | 17.04 | 6.48 | 51.99 | 9.44 | 2.64 |
| Karnataka - Inland Northern | 42.08 | 11.08 | 4.02 | 64.56 | 17.84 | 7.30 | 60.37 | | 4.34 |
| Kerela - Northern | 30.04 | 6.11 | 1.83 | 73.35 | 19.87 | 7.34 | 72.13 | 16.75 | 5.56 |
| Kerela - Southern | 12.94 | 2.41 | 0.67 | 63.00 | 17.28 | 7.69 | 50.59 | 10.33 | 3.29 |
| Madhya Pradesh - Chattisgarh | 33.55 | 7.60 | 2.41 | 37.19 | 7.11 | 2.42 | 48.21 | 8.32 | 2.29 |
| Madhya Pradesh - Vindhya | 42.86 | 11.52 | 4.02 | 31.55 | 4.65 | 1.20 | 43.57 | 7.11 | 1.91 |
| Madhya Pradesh - Central | 32.89 | 6.68 | 2.01 | 70.43 | 18.03 | 6.23 | 67.16 | 13.34 | 3.77 |
| Madhya Pradesh - Malwa | 29.41 | 6.96 | 2.27 | 64.62 | 16.88 | 6.79 | 56.76 | 11.33 | 3.54 |
| Madhya Pradesh - South | 38.18 | 10.27 | 3.88 | 46.26 | 8.50 | 2.57 | 56.09 | 10.55 | 3.07 |
| Madhya Pradesh - South Western | 35.66 | 8.42 | 2.99 | 56.73 | 13.30 | 4.78 | 56.41 | 11.12 | 3.32 |
| Madhya Pradesh - Northern | 36.62 | 9.14 | 3.13 | 54.40 | 11.24 | 3.65 | 47.73 | 8.71 | 2.32 |
| Maharashtra - Coastal | 10.78 | 1.59 | 0.40 | 80.77 | 23.42 | 9.69 | 57.72 | 10.48 | 2.80 |
| Maharashtra - Inland Western | 27.67 | 6.17 | 2.01 | 75.62 | 19.79 | 7.47 | 56.11 | 10.44 | 2.86 |
| Maharashtra - Inland Northern | 40.49 | 12.38 | 4.95 | 81.89 | 23.12 | 8.94 | 61.16 | 12.46 | 4.07 |
| Maharashtra - Inland Central | 54.27 | 14.42 | 5.13 | 48.61 | 11.00 | 4.64 | 51.13 | 9.88 | 2.70 |
| Maharashtra - Inland Eastern | 51.20 | 15.65 | 6.10 | 67.99 | 15.83 | 5.26 | 61.73 | 13.85 | 4.21 |
| Maharashtra - Eastern | 28.04 | 8.38 | 3.32 | 49.42 | 12.20 | 4.67 | 44.58 | 9.90 | 3.34 |
| Manipur - Plains | 0.52 | 0.02 | 0.00 | 5.77 | 0.76 | 0.24 | 26.86 | 2.54 | 0.42 |
| Manipur - Hills | 0.64 | 0.01 | 0.00 | 7.19 | 0.44 | 0.05 | 22.91 | 2.51 | 0.44 |
| Meghalaya - Meghalaya | 0.00 | 0.00 | 0.00 | 50.75 | 9.93 | 4.65 | 62.13 | 8.50 | 1.71 |

| Mizoran -Mizoran | 0.00 | 0.00 | 0.00 | 27.91 | 4.59 | 1.31 | 38.76 | 6.59 | 1.66 |
|--------------------------------|-------|-------|------|-------|-------|-------|-------|-------|------|
| Nagaland - Nagaland | 0.00 | 0.00 | 0.00 | 29.42 | 5.53 | 2.36 | 46.30 | 8.47 | 2.25 |
| Orissa - Coastal | 41.27 | 10.81 | 3.85 | 22.38 | 5.46 | 2.92 | 38.55 | 5.81 | 1.76 |
| Orissa - Southern | 43.97 | 13.19 | 5.10 | 9.59 | 1.77 | 0.81 | 31.05 | 4.54 | 0.99 |
| Orissa - Northern | 45.77 | 10.52 | 3.53 | 15.13 | 2.45 | 1.12 | 38.77 | 5.18 | 1.05 |
| Punjab - Northern | 3.98 | 0.49 | 0.11 | 81.54 | 21.89 | 8.26 | 47.67 | 8.35 | 2.13 |
| Punjab - Southern | 8.32 | 0.90 | 0.17 | 72.95 | 19.36 | 7.13 | 44.29 | 7.76 | 2.02 |
| Rajasthan - Western | 16.79 | 3.11 | 0.93 | 38.34 | 7.52 | 2.40 | 27.59 | 4.67 | 1.32 |
| Rajasthan - North-Eastern | 20.85 | 3.61 | 0.89 | 51.44 | 11.50 | 4.05 | 44.96 | 6.48 | 1.47 |
| Rajasthan - Southern | 8.75 | 0.93 | 0.12 | 50.60 | 11.23 | 3.87 | 37.51 | 6.41 | 1.65 |
| Rajasthan - South-Eastern | 30.13 | 5.72 | 1.57 | 54.56 | 11.61 | 3.99 | 56.36 | 9.12 | 2.19 |
| Sikkim - Sikkim | 4.86 | 0.69 | 0.13 | 47.35 | 12.54 | 6.58 | 61.58 | 9.35 | 2.32 |
| Tamil Nadu - Coastal Northern | 20.26 | 4.90 | 1.68 | 74.15 | 20.89 | 8.77 | 59.41 | 13.59 | 4.58 |
| Tamil Nadu - Coastal | 23.94 | 4.28 | 1.20 | 60.96 | 14.82 | 6.09 | 54.10 | 9.69 | 2.76 |
| Tamil Nadu - Southern | 26.69 | 5.80 | 1.85 | 70.16 | 18.06 | 6.98 | 65.23 | 14.28 | 4.74 |
| Tamil Nadu - Inland | 21.76 | 3.70 | 1.10 | 77.12 | 19.94 | 7.89 | 68.04 | 14.10 | 4.41 |
| Tripura - Tripura | 2.13 | 0.29 | 0.06 | 14.79 | 1.97 | 0.59 | 42.56 | 4.96 | 0.89 |
| Uttar Pradesh - Himalayan | 14.04 | 3.23 | 1.03 | 31.11 | 8.42 | 4.45 | 24.35 | 4.47 | 1.86 |
| Uttar Pradesh - Western | 30.24 | 6.01 | 1.75 | 60.17 | 13.24 | 4.60 | 52.59 | 9.57 | 2.54 |
| Uttar Pradesh - Central | 33.45 | 8.03 | 2.53 | 64.64 | 16.76 | 6.67 | 55.23 | 13.45 | 4.85 |
| Uttar Pradesh - Eastern | 31.07 | 6.25 | 1.83 | 41.25 | 9.15 | 3.16 | 47.30 | 8.69 | 2.44 |
| Uttar Pradesh - Southern | 40.89 | 9.20 | 3.25 | 49.90 | 10.97 | 3.67 | 52.94 | 11.56 | 3.20 |
| West Bengal - Himalayan | 20.27 | 4.47 | 1.39 | 48.78 | 10.10 | 3.54 | 50.75 | 10.01 | 3.34 |
| West Bengal - Eastern Plains | 28.47 | 6.08 | 1.93 | 34.56 | 7.37 | 3.02 | 50.66 | 8.74 | 2.53 |
| West Bengal - Central Plains | 11.39 | 1.77 | 0.45 | 53.05 | 12.31 | 4.68 | 54.39 | 9.72 | 2.69 |
| West Bengal - Western Plains | 21.77 | 2.99 | 0.63 | 34.98 | 9.40 | 4.53 | 40.53 | 8.41 | 2.64 |
| Andaman & Nicobar Islands | 0.54 | 0.14 | 0.03 | 63.15 | 13.99 | 5.14 | 53.15 | 8.65 | 2.15 |
| Chandigarh - Chandigarh | 3.04 | 0.68 | 0.19 | 82.41 | 24.69 | 10.28 | 40.29 | 7.64 | 2.28 |
| Dadra & Nagar Haveli - Dadra & | | | | | | | | | |
| Nagar Hav | 12.29 | 1.98 | 0.38 | 50.10 | 15.84 | 8.34 | 31.54 | 5.95 | 1.66 |
| Daman & Diu - Daman & Diu | 10.82 | 1.71 | 0.43 | 65.35 | 13.89 | 4.78 | 39.55 | 6.48 | 1.65 |
| Delhi - Delhi | 9.31 | 1.55 | 0.36 | 83.43 | 25.36 | 10.20 | 52.71 | 9.86 | 2.59 |
| Lakshadweep - Lakshadweep | 3.30 | 0.29 | 0.05 | 53.78 | 11.44 | 4.42 | 28.23 | 4.32 | 1.30 |
| Pondicherry - Pondicherry | 22.35 | 6.22 | 2.34 | 71.61 | 18.61 | 7.58 | 62.22 | 12.08 | 3.57 |
| All-India | 23.46 | 5.16 | 1.65 | 60.51 | 15.49 | 6.05 | 53.12 | 10.18 | 2.97 |

Table 7: Rank Correlation Matrix

| | C1-4' | 14 | C | Correlation between incidence of | | | | | | |
|-----------------|-----------------------------|-------------------------|----------------------------|----------------------------------|-------------------------|----------------------------|--|--|--|--|
| | Correlation | | iciaence of | | | cidence of | | | | |
| | poverty (P ₀) | and | | poverty and | | | | | | |
| | Cereal depr | ivation (no | rm I) | Cereal deprivation (Norm II) | | | | | | |
| | Incidence (P ₀) | Depth (P ₁) | Severity (P ₂) | Incidence (P ₀) | Depth (P ₁) | Severity (P ₂) | | | | |
| | | | | | | | | | | |
| Region rural | -0.3584* | -0.2958* | -0.2675** | -0.3335* | 0.2637** | -0.2241** | | | | |
| Region urban | 0.0519 | 0.0351 | 0.0066 | 0.0540 | 0.0268 | -0.0003 | | | | |
| | Correlation poverty and | | cidence of | Correlation poverty and | ı between in 1 | cidence of | | | | |
| | Calorie dep | rivation (N | orm I) | Calorie dep | rivation (N | orm II) | | | | |
| | Incidence (P ₀) | Depth (P ₁) | Severity (P ₂) | Incidence (P ₀) | Depth (P ₁) | Severity (P ₂) | | | | |
| Region rural | 0.3258* | 0.3904* | 0.4228* | 0.3630* | 0.4007* | 0.4164* | | | | |
| Region urban | 0.3649* | 0.4472* | 0.4629* | 0.3778* | 0.4614* | 0.4643* | | | | |

^{*} p-value less than 0.01 **p-value less than 0.05

Table 8: Proportion of Food Insecure People as per Calorie Equivalent Intake (%): Regions and All-India: 1999/2000

| | Rı | ıral | Urban | | |
|---------------------------------------|--------|---------|--------|---------|--|
| Region | Norm I | Norm II | Norm I | Norm II | |
| Andhra Pradesh - Costal | 41.05 | 21.23 | 24.31 | 19.58 | |
| Andhra Pradesh - Inland Northern | 56.02 | 35.84 | 35.27 | 30.35 | |
| Andhra Pradesh - South-Western | 55.57 | 34.33 | 46.78 | 42.36 | |
| Andhra Pradesh - Inland-Southern | 55.81 | 37.15 | 32.03 | 29.05 | |
| Arunachal Pradesh - Arunachal Pradesh | 43.73 | 29.53 | 27.56 | 26.34 | |
| Assam - Plains Eastern | 60.60 | 35.32 | 39.10 | 35.59 | |
| Assam - Plains Western | 58.36 | 35.23 | 23.11 | 19.20 | |
| Assam - Hills | 73.04 | 53.73 | 25.05 | 20.05 | |
| Bihar - Southern | 50.21 | 28.65 | 27.53 | 23.76 | |
| Bihar - Northern | 43.94 | 22.37 | 25.03 | 20.74 | |
| Bihar - Central | 38.64 | 21.91 | 16.35 | 13.70 | |
| Goa | 44.97 | 26.36 | 23.01 | 19.35 | |
| Gujarat - Eastern | 60.41 | 38.27 | 34.99 | 26.12 | |
| Gujarat - Plains Northern | 56.01 | 36.00 | 34.47 | 29.43 | |
| Gujarat - Plains Southern | 56.11 | 40.55 | 33.93 | 29.21 | |
| Gujarat - Dry Areas | 52.39 | 33.25 | 22.81 | 17.68 | |
| Gujarat - Saurashtra | 38.57 | 17.45 | 15.53 | 12.86 | |
| Haryana - Eastern | 27.62 | 11.06 | 27.33 | 22.29 | |
| Haryana - Western | 31.39 | 15.05 | 27.61 | 21.72 | |
| Himachal Pradesh - Himachal Pradesh | 21.77 | 6.76 | 7.22 | 6.24 | |
| Jammu & Kashmir - Mountainous | 21.76 | 9.58 | 5.17 | 3.03 | |
| Jammu & Kashmir - Outer Hills | 12.58 | 3.66 | 2.55 | 2.55 | |
| Jammu & Kashmir - Jhelam Valley | 17.65 | 3.62 | 7.48 | 5.35 | |
| Karnataka - Coastal & Ghats | 38.32 | 21.35 | 36.37 | 35.55 | |
| Karnataka - Inland Eastern | 48.86 | 24.45 | 17.79 | 15.97 | |
| Karnataka - Inland Southern | 51.71 | 33.69 | 27.42 | 23.90 | |
| Karnataka - Inland Northern | 53.92 | 36.46 | 37.67 | 34.37 | |
| Kerela - Northern | 62.48 | 45.37 | 41.05 | 37.11 | |
| Kerela - Southern | 41.24 | 24.01 | 24.33 | 21.27 | |
| Madhya Pradesh - Chattisgarh | 55.29 | 33.10 | 22.00 | 18.69 | |
| Madhya Pradesh - Vindhya | 33.46 | 17.62 | 19.40 | 14.84 | |
| Madhya Pradesh - Central | 49.31 | 31.95 | 41.71 | 37.80 | |
| Madhya Pradesh - Malwa | 44.71 | 30.14 | 28.80 | 24.80 | |
| Madhya Pradesh - South | 56.19 | 37.76 | 32.11 | 25.82 | |
| Madhya Pradesh - South Western | 62.86 | 38.24 | 29.82 | 24.29 | |
| Madhya Pradesh - Northern | 35.11 | 18.91 | 25.77 | 22.17 | |
| Maharashtra - Coastal | 57.02 | 33.40 | 30.83 | 26.25 | |
| Maharashtra - Inland Western | 51.52 | 27.78 | 28.41 | 25.79 | |
| Maharashtra - Inland Northern | 60.14 | 41.10 | 33.08 | 27.10 | |
| Maharashtra - Inland Central | 35.30 | 16.14 | 27.23 | 21.51 | |
| Maharashtra - Inland Eastern | 53.16 | 33.42 | 39.68 | 36.57 | |
| Maharashtra - Eastern | 56.86 | 39.37 | 26.31 | 23.54 | |
| Manipur - Plains | 30.44 | 9.61 | 5.63 | 4.32 | |
| Manipur - Hills | 36.32 | 6.91 | 2.88 | 2.88 | |
| Meghalaya - Meghalaya | 69.69 | 34.57 | 22.99 | 14.44 | |
| Mizoran -Mizoran | 44.47 | 25.48 | 18.58 | 15.88 | |
| Nagaland - Nagaland | 31.35 | 11.14 | 28.64 | 24.65 | |
| Orissa - Coastal | 29.84 | 14.61 | 12.67 | 10.24 | |
| Orissa - Southern | 60.00 | 35.10 | 11.32 | 8.25 | |
| Orissa - Northern | 41.49 | 22.37 | 13.90 | 10.86 | |

| Punjab - Northern | 26.83 | 13.11 | 25.56 | 21.05 |
|--|-------|-------|-------|-------|
| Punjab - Southern | 30.99 | 16.00 | 24.23 | 20.80 |
| Rajasthan - Western | 16.94 | 7.34 | 11.20 | 10.00 |
| Rajasthan - North-Eastern | 19.32 | 7.29 | 17.38 | 12.75 |
| Rajasthan - Southern | 36.57 | 15.88 | 15.63 | 14.09 |
| Rajasthan - South-Eastern | 29.94 | 13.95 | 23.74 | 20.16 |
| Sikkim - Sikkim | 57.95 | 32.74 | 29.12 | 25.72 |
| Tamil Nadu - Coastal Northern | 70.66 | 55.20 | 34.78 | 30.77 |
| Tamil Nadu - Coastal | 50.55 | 34.17 | 24.56 | 21.91 |
| Tamil Nadu - Southern | 65.95 | 49.01 | 38.39 | 33.02 |
| Tamil Nadu - Inland | 65.52 | 47.29 | 39.15 | 36.15 |
| Tripura - Tripura | 52.66 | 27.24 | 15.80 | 12.51 |
| Uttar Pradesh - Himalayan | 22.06 | 9.68 | 11.86 | 10.07 |
| Uttar Pradesh - Western | 29.82 | 16.42 | 27.08 | 22.39 |
| Uttar Pradesh - Central | 25.85 | 12.74 | 34.78 | 32.10 |
| Uttar Pradesh - Eastern | 34.91 | 17.20 | 23.27 | 19.85 |
| Uttar Pradesh - Southern | 21.39 | 8.59 | 34.83 | 29.63 |
| West Bengal - Himalayan | 43.73 | 20.79 | 25.99 | 23.59 |
| West Bengal - Eastern Plains | 51.62 | 28.16 | 26.30 | 22.35 |
| West Bengal - Central Plains | 42.00 | 20.18 | 28.87 | 23.92 |
| West Bengal - Western Plains | 44.78 | 26.93 | 24.62 | 17.52 |
| Andaman & Nicobar Islands | 45.27 | 20.87 | 23.94 | 17.18 |
| Chandigarh - Chandigarh | 40.76 | 27.86 | 19.51 | 16.50 |
| Dadra & Nagar Haveli - Dadra & Nagar Hav | 42.62 | 18.52 | 20.77 | 17.87 |
| Daman & Diu - Daman & Diu | 28.91 | 13.34 | 17.89 | 12.02 |
| Delhi - Delhi | 71.67 | 56.27 | 28.11 | 23.68 |
| Lakshadweep - Lakshadweep | 17.27 | 10.44 | 7.65 | 6.59 |
| Pondicherry - Pondicherry | 52.34 | 33.20 | 32.34 | 26.95 |
| All-India | 43.28 | 25.04 | 28.19 | 24.18 |

Table 9: Rank Correlation Matrix

| | Correlation between incidence of poverty and Calorie equivalent deprivation | | | | | |
|--------------|---|---------|--|--|--|--|
| | Norm I | Norm II | | | | |
| Region rural | 0.3365* | 0.3491* | | | | |
| Region urban | 0.3913* | 0.3997* | | | | |

^{*} p-value less than 0.01

Table 10: Percentage of People that Are Food Insecure as per the Calorie Equivalent Intake Norm I & II by Population Type – All India 1999/2000

| Population | Noi | rm I | Norm II | | | |
|------------|-------------|-------|---------|-------|--|--|
| type | Rural Urban | | Rural | Urban | | |
| Non-poor | 31.34 | 19.02 | 14.75 | 15.56 | | |
| Poor | 75.57 | 58.10 | 52.87 | 52.28 | | |
| Total | 43.28 | 28.19 | 25.04 | 24.18 | | |

Source: NSS Unit record data

Table 11: Percentage of People that Are Food Insecure as per the Calorie Equivalent Intake Norm I & II by Population Type – Region Wise 1999/2000

| | Norm I | | | | Norm II | | | |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| . | Rural | | Urban | | Rui | al | Urban | |
| Region | Non- Poor | | Non- Poor | | Non- Poor | | Non- Poor | |
| | poor | 1 001 |
| Andhra Pradesh - Costal | 37.15 | 91.87 | 12.75 | 52.52 | 16.90 | 77.52 | 9.54 | 44.07 |
| Andhra Pradesh - Inland | 37.13 | 71.07 | 12.73 | 32.32 | 10.70 | 11.52 | 7.54 | 77.07 |
| Northern | 52.30 | 92.33 | 26.94 | 63.70 | 30.63 | 86.78 | 22.15 | 58.33 |
| Andhra Pradesh - South- | 02.50 | 72.55 | 20.7 | 05.70 | 20.02 | 00.70 | | 00.00 |
| Western | 46.21 | 96.33 | 22.16 | 80.80 | 22.05 | 87.76 | 18.00 | 76.03 |
| Andhra Pradesh - Inland- | | | | | | | | |
| Southern | 43.21 | 95.09 | 18.20 | 60.22 | 21.56 | 85.72 | 17.53 | 52.56 |
| Arunachal Pradesh - Arunachal | | | | | | | | |
| Pradesh | - | 43.73 | 26.28 | 52.28 | - | 29.53 | 25.00 | 52.28 |
| Assam – Plains Eastern | 46.23 | 87.39 | 33.07 | 95.18 | 19.89 | 64.08 | 29.18 | 95.18 |
| Assam - Plains Western | 36.69 | 87.17 | 20.53 | 60.58 | 13.99 | 63.47 | 17.20 | 48.21 |
| Assam - Hills | 47.36 | 94.95 | 22.78 | 75.58 | 18.14 | 84.11 | 17.55 | 75.58 |
| Bihar - Southern | 24.15 | 76.33 | 11.27 | 66.96 | 9.91 | 47.43 | 8.19 | 61.55 |
| Bihar - Northern | 24.04 | 73.78 | 9.33 | 47.99 | 7.54 | 44.63 | 5.12 | 43.58 |
| Bihar - Central | 17.13 | 64.05 | 7.14 | 35.32 | 4.98 | 41.91 | 4.97 | 31.67 |
| Goa | 44.97 | - | 19.20 | 80.66 | 26.36 | - | 15.76 | 73.53 |
| Gujarat - Eastern | 51.54 | 86.21 | 22.67 | 78.17 | 27.47 | 69.65 | 15.05 | 64.92 |
| Gujarat - Plains Northern | 52.05 | 96.47 | 25.30 | 90.38 | 31.49 | 82.00 | 20.17 | 85.88 |
| Gujarat - Plains Southern | 53.36 | 73.68 | 26.54 | 76.12 | 37.93 | 57.24 | 21.13 | 75.40 |
| Gujarat - Dry Areas | 46.45 | 95.85 | 11.96 | 66.39 | 24.80 | 95.09 | 5.93 | 64.84 |
| Gujarat - Saurashtra | 36.18 | 98.25 | 11.07 | 44.28 | 14.87 | 81.78 | 9.46 | 34.73 |
| Haryana - Eastern | 23.84 | 85.81 | 19.81 | 98.38 | 8.18 | 55.52 | 14.86 | 92.57 |
| Haryana - Western | 25.67 | 84.34 | 20.11 | 87.71 | 9.77 | 63.94 | 14.13 | 82.53 |
| Himachal Pradesh - Himachal | 17.51 | 72.05 | 4.70 | 50.01 | 4.60 | 22.21 | 2.76 | 50.01 |
| Pradesh Jammu & Kashmir - | 17.51 | 72.05 | 4.78 | 58.01 | 4.60 | 32.31 | 3.76 | 58.01 |
| Mountainous | 16.38 | 78.53 | 4.30 | 40.96 | 4.96 | 58.36 | 3.06 | 1.62 |
| Jammu & Kashmir - Outer | 10.36 | 76.33 | 4.30 | 40.90 | 4.30 | 36.30 | 3.00 | 1.02 |
| Hills | 10.93 | 41.86 | 2.55 | _ | 3.09 | 13.75 | 2.55 | _ |
| Jammu & Kashmir - Jhelam | 10.55 | 11.00 | 2.00 | | 3.07 | 13.70 | 2.00 | |
| Valley | 17.26 | 73.45 | 6.98 | 100.00 | 3.47 | 24.65 | 4.84 | 100.00 |
| Karnataka - Coastal & Ghats | 36.14 | 92.84 | 13.68 | 80.79 | 19.06 | 78.66 | 13.32 | 79.09 |
| Karnataka - Inland Eastern | 47.09 | 100.00 | 9.13 | 47.63 | 22.16 | 90.39 | 8.04 | 43.30 |
| Karnataka - Inland Southern | 46.73 | 93.08 | 21.81 | 68.92 | 27.62 | 84.18 | 18.24 | 65.77 |
| Karnataka - Inland Northern | 41.16 | 91.95 | 17.14 | 65.91 | 24.61 | 71.77 | 14.84 | 61.24 |
| Kerela - Northern | 56.12 | 98.64 | 24.70 | 79.11 | 36.49 | 95.89 | 20.30 | 76.27 |
| Kerela - Southern | 38.49 | 89.15 | 16.64 | 76.04 | 20.92 | 77.80 | 14.24 | 68.53 |
| Madhya Pradesh - Chattisgarh | 32.74 | 81.85 | 12.04 | 41.75 | 14.25 | 55.30 | 8.89 | 38.10 |
| Madhya Pradesh - Vindhya | 18.71 | 63.34 | 6.21 | 37.00 | 5.95 | 41.26 | 3.76 | 29.62 |
| Madhya Pradesh - Central | 29.58 | 84.85 | 30.56 | 64.45 | 13.78 | 64.68 | 27.29 | 59.23 |
| Madhya Pradesh - Malwa | 30.38 | 85.85 | 16.34 | 58.71 | 15.35 | 72.62 | 13.14 | 52.78 |
| Madhya Pradesh - South | 34.98 | 76.83 | 16.82 | 56.87 | 15.26 | 59.65 | 12.67 | 47.10 |
| Madhya Pradesh - South | 47.47 | 06.20 | 15.40 | 55.67 | 22.41 | (0.45 | 11.70 | 47.00 |
| Western | 47.47 | 86.39 | 15.49 | 55.67 | 22.41 | 62.45 | 11.70 | 47.00 |
| Madhya Pradesh - Northern | 24.30 | 78.66 | 12.31 25.22 | 49.08 | 10.15 | 54.21 | 10.36 | 42.62 |
| Maharashtra - Coastal Maharashtra - Inland Western | 48.21 46.12 | 96.23 96.79 | 15.61 | 77.26 61.88 | 21.57 22.18 | 86.04 74.75 | 21.08 13.79 | 69.02 57.16 |
| Maharashtra - Inland Northern | 40.12 | 97.50 | 14.20 | 60.83 | 20.32 | 85.74 | 10.15 | 52.01 |
| | T4.70 | 11.50 | 17.40 | 00.03 | 40.34 | 05.74 | 10.13 | J∠.UI |
| Maharashtra - Inland Central | 24.77 | 68.10 | 8.70 | 42.85 | 7.67 | 42.52 | 5.96 | 34.61 |

| Maharashtra - Eastern | 39.75 | 80.37 | 12.37 | 62.08 | 22.22 | 62.93 | 8.52 | 62.08 |
|-------------------------------|-------|--------|-------|--------|-------|--------|-------|--------|
| Manipur - Plains | 28.12 | 62.66 | 5.34 | 60.00 | 6.54 | 52.20 | 4.02 | 60.00 |
| Manipur - Hills | 26.97 | 66.83 | 2.89 | 0.00 | 6.01 | 9.85 | 2.89 | 0.00 |
| Meghalaya - Meghalaya | 67.95 | 97.14 | 22.99 | - | 31.54 | 82.59 | 14.44 | - |
| Mizoran -Mizoran | 43.43 | 80.34 | 18.58 | - | 23.89 | 80.34 | 15.88 | - |
| Nagaland - Nagaland | 31.21 | 100.00 | 28.64 | - | 10.96 | 100.00 | 24.65 | - |
| Orissa - Coastal | 15.80 | 60.00 | 3.09 | 26.29 | 4.53 | 36.22 | 2.53 | 21.21 |
| Orissa - Southern | 18.57 | 66.09 | 2.39 | 22.71 | 3.50 | 39.74 | 0.85 | 17.68 |
| Orissa - Northern | 16.45 | 66.71 | 4.92 | 24.55 | 4.87 | 40.00 | 4.60 | 18.27 |
| Punjab - Northern | 23.18 | 88.69 | 23.16 | 83.59 | 10.14 | 63.51 | 18.79 | 75.71 |
| Punjab - Southern | 27.29 | 83.81 | 20.29 | 67.66 | 12.33 | 68.50 | 17.47 | 57.49 |
| Rajasthan - Western | 11.89 | 60.74 | 3.60 | 48.85 | 4.14 | 35.09 | 3.22 | 43.63 |
| Rajasthan - North-Eastern | 14.70 | 55.25 | 13.64 | 31.55 | 4.83 | 26.45 | 9.74 | 24.14 |
| Rajasthan - Southern | 29.31 | 59.70 | 11.59 | 57.74 | 10.04 | 34.48 | 9.90 | 57.74 |
| Rajasthan - South-Eastern | 18.71 | 84.54 | 12.58 | 49.61 | 7.45 | 45.53 | 8.91 | 46.23 |
| Sikkim - Sikkim | 52.29 | 78.41 | 26.26 | 85.26 | 25.80 | 57.86 | 22.77 | 83.41 |
| Tamil Nadu - Coastal Northern | 59.51 | 94.99 | 23.06 | 80.90 | 39.62 | 89.18 | 18.84 | 77.72 |
| Tamil Nadu - Coastal | 43.79 | 96.54 | 13.97 | 58.22 | 26.66 | 85.34 | 11.45 | 55.15 |
| Tamil Nadu - Southern | 59.11 | 96.36 | 26.65 | 70.67 | 39.34 | 92.00 | 21.11 | 65.73 |
| Tamil Nadu - Inland | 60.84 | 97.04 | 26.64 | 84.13 | 40.60 | 92.38 | 23.26 | 82.53 |
| Tripura - Tripura | 45.86 | 86.90 | 14.29 | 85.13 | 18.88 | 69.30 | 11.41 | 62.93 |
| Uttar Pradesh - Himalayan | 17.17 | 48.70 | 4.76 | 55.32 | 6.10 | 29.18 | 4.12 | 46.46 |
| Uttar Pradesh - Western | 19.69 | 66.26 | 14.98 | 54.98 | 8.52 | 44.86 | 11.32 | 47.93 |
| Uttar Pradesh - Central | 10.62 | 46.77 | 21.75 | 60.69 | 3.43 | 25.54 | 20.87 | 54.43 |
| Uttar Pradesh - Eastern | 19.13 | 62.47 | 11.97 | 48.33 | 6.63 | 35.64 | 9.03 | 43.87 |
| Uttar Pradesh - Southern | 17.96 | 34.40 | 18.77 | 58.05 | 8.52 | 8.85 | 15.20 | 50.48 |
| West Bengal - Himalayan | 28.86 | 74.50 | 11.74 | 82.06 | 8.95 | 45.28 | 11.09 | 72.74 |
| West Bengal - Eastern Plains | 32.65 | 82.35 | 12.84 | 60.12 | 8.51 | 59.99 | 10.33 | 52.55 |
| West Bengal - Central Plains | 32.21 | 80.79 | 24.22 | 65.04 | 12.88 | 49.10 | 19.74 | 56.45 |
| West Bengal - Western Plains | 25.71 | 75.33 | 16.83 | 52.62 | 8.85 | 55.88 | 11.33 | 39.77 |
| Andaman & Nicobar Islands | 45.13 | 100.00 | 23.52 | 100.00 | 20.67 | 100.00 | 16.73 | 100.00 |
| Chandigarh - Chandigarh | 35.88 | 100.00 | 17.27 | 90.99 | 21.92 | 100.00 | 14.19 | 90.07 |
| Dadra & Nagar Haveli - Dadra | | | | | | | | |
| & Nagar Hav | 36.29 | 74.69 | 17.87 | 41.47 | 12.14 | 50.87 | 16.07 | 30.74 |
| Daman & Diu - Daman & Diu | 28.91 | - | 11.48 | 70.76 | 13.34 | - | 8.24 | 43.22 |
| Delhi - Delhi | 71.46 | 100.00 | 23.38 | 74.21 | 55.95 | 100.00 | 18.98 | 69.45 |
| Lakshadweep - Lakshadweep | 17.27 | - | 7.56 | 10.22 | 10.44 | - | 6.47 | 10.22 |
| Pondicherry - Pondicherry | 46.25 | 99.34 | 21.37 | 70.44 | 25.78 | 90.46 | 15.83 | 65.60 |
| Total | 32.05 | 74.29 | 18.50 | 59.28 | 15.29 | 51.94 | 15.06 | 53.44 |

Source: NSS Unit record data