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# 1 <br> Top Indian Incomes, 1922-2000 

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### 1.1 INTRODUCTION

This chapter presents series on top incomes and top wages in India between the years 1922 and 2000 based on individual tax returns data. We use tabulations of tax returns published each year by the Indian tax administration to compute the share of the top percentile of the distribution of total income, the top 0.5 per cent, the top 0.1 per cent, and the top 0.01 per cent. We do the same for the wage distribution. We do not go below the top percentile because incomes below this level are largely exempt from taxation in India.

Our series begin in 1922, when the income tax was created in India, and allow us to look at the impact of the Great Depression and the Second World War on inequality. We are particularly interested in the period starting in the 1950s, right at the beginning of India's experiment with socialism. This experiment was officially suspended in 1991 with the beginning of the liberalization process, which continued through the 1990s. One explicit goal of the socialist programme was to limit the economic power of the elite, in the context of a mixed economy. Our data offer us the opportunity to say something about the extent to which this programme, with all its well-known deficiencies, succeeded in its distributional objectives. This is important first, because it is a vital part of our assessment of this period. And second, because it offers a window into the broader question of the role of policy in affecting the distribution of income and wealth in a developing country. Given that much of the economic activity in these countries is outside the formal sector, it is not at all obvious that there is a lot that policy can affect. ${ }^{1}$

Our results are consistent with an important role for policy in shaping the distribution of income. In particular, we do find evidence of a substantial decline in the share of the elite during the years of socialist planning and a comparable

[^0]recovery in the post-liberalization era. However the rebound seems to start significantly before the official move towards liberalization.

Given that these results are likely to be controversial, it is worth emphasizing that there are a number of obvious problems with using tax data, not the least because of tax evasion. We discuss these at some length in section 1.4. While we conclude that our results are probably robust, we do not intend them to be definitive. Our view is rather that they provide a point of departure on an important question about which very little is known, primarily because of data limitations. There are good reasons to suspect that the usual sources of information on income distribution in India-such as consumer expenditure surveysare not particularly effective at picking up the very rich. This is in part because the rich are rare, and in part because they are much more likely to refuse to cooperate with the time-consuming and irksome process of being subjected to a consumer expenditure survey. ${ }^{2}$

While there is no hard evidence that the rich are indeed being undercounted in India (the Indian consumer expenditure surveys do not, for example, report refusal rates by potential income category), one reason to suspect that this is the case comes from what has been called the Indian growth paradox of the 1990s. According to the standard household expenditure survey conducted by the National Sample Survey (NSS), real per capita growth in India during the 1990s was fairly limited. Such a conclusion stands in sharp contrast with the substantial growth measured by national accounts statistics (NAS) over this same period. This puzzle has attracted quite a lot of attention during recent years ${ }^{3}$ and it has been widely suggested that it might simply be that a very large part of the growth went to the very rich. However there has been no attempt to directly quantify this possibility. ${ }^{4}$ Our data allow us to take a useful step in this direction. We are able to put bounds on the extent to which the growth gap can be explained simply in terms of undercounting the very rich. We conclude that it can explain between 20 per cent and 40 per cent of the puzzle. Although this is not negligible,

[^1]this leaves the bulk of the puzzle unaccounted for, largely because the share of the rich in total income is still relatively small. This suggests that there probably is some deeper problem with the way either the NSS or the NSO (which generates the NAS) collects its data. ${ }^{5}$

The rest of this chapter is organized as follows. Section 1.2 briefly outlines our data and methodology. Section 1.3 presents our long-run results. Section 1.4 discusses potential problems with this evidence. Section 1.5 uses this evidence to shed some light on the Indian growth paradox of the 1990s. Section 1.6 concludes.

### 1.2 DATA AND METHODOLOGY

The tabulations of tax returns published each year by the Indian tax administration in the 'All-India Income-Tax Statistics' (AIITS) series constitute the primary data source used in this chapter. The first year for which we have income data is 1922-3 while the last is 1999-2000. ${ }^{6}$

Due to the relatively high exemption levels, the number of taxpayers in India has always been rather small. The proportion of taxable tax units was around 0.5 per cent-1 per cent from the 1920s to the 1980s, and it rose sharply during the 1990s up to 3.5 per cent-4 per cent at the end of the decade, following the large increase in top nominal incomes (see Figure 1.1). ${ }^{7}$ Therefore our long-run series cannot go below the top percentile.

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Figure 1.1 The proportion of taxable tax units in India, 19222000
Source: Authors' computations using tax returns data (see Table 1A.1, col. (4)).

The tabulations published in AIITS report the number of taxpayers and the total income reported by these taxpayers for a large number of income brackets. By using standard Pareto extrapolation techniques we computed for each year the average incomes of the top percentile (P99-100), the top 0.5 per cent (P99.5100), the top 0.1 per cent (P99.9-100), and the top 0.01 per cent (P99.99-100) of the tax unit distribution of total income, as well as the income thresholds P99, P99.5, P99.9, and P99.99 and the average incomes of the intermediate fractiles P99-99.5, P99.5-99.9, and P99.9-99.99. ${ }^{8}$

To get a sense of the orders of magnitude, we report in Table 1.1 the results obtained for 1999-2000. There were almost 400 million tax units in India (396.4 million). Based on the national accounts statistics, the average income of those 400 million tax units was around Rs 25,000 per year ( $\$ 3,000$ in PPP terms). ${ }^{9}$ To

[^3]Table 1.1 Top Indian incomes in 19992000

| Thresholds <br> (1) | Income level <br> (Rs) <br> (2) | Income level <br> (US\$) <br> (market exhange rate) <br> (3) | Income level (US\$) (PPP conversion factor) <br> (4) | Fractiles <br> (5) | Number of tax units <br> (6) | Average income <br> (Rs) <br> (7) | Average income (US\$) (market exchange rate) <br> (8) | Average income <br> (US\$) (PPP conversion factor) (9) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Full Population | 396,400,000 | 25,670 | 596 | 2,968 |
| P99 | 87,633 | 2,035 | 10,131 | P99 99.5 | 1,982,000 | 98,842 | 2,295 | 11,427 |
| P99.5 | 147,546 | 3,427 | 17,057 | P99.5 99.9 | 1,585,600 | 216,929 | 5,038 | 25,079 |
| P99.9 | 295,103 | 6,853 | 34,116 | P99.9 99.99 | 356,760 | 590,488 | 13,713 | 68,264 |
| P99.99 | 1,383,930 | 32,140 | 159,992 | P99.99 100 | 39,640 | 4,034,289 | 93,690 | 466,392 |

[^4]belong to the top percentile (P99), which includes about 4 million tax units, one needed to make more than Rs 88,000 (around $\$ 10,000$ at PPP). The average income of the bottom half of the top percentile (fractile P99-99.5, about 2 million tax units) was about Rs 99,000 (less than $\$ 12,000$ at PPP). To belong to the top 0.01 per cent (about 40,000 tax units), one needs to make more than Rs 1.4 million ( $\$ 160,000$ at PPP), and the average income above that threshold was more than Rs 4 million ( $\$ 470,000$ at PPP)..$^{10}$

As in other countries, the top of India's income distribution appears to be very precisely approximated by the Pareto structural form. ${ }^{11}$ On the other hand the estimates for the recent period are subject to sampling error: the AIITS tabulations were based on the entire population until the early 1990s (as in most OECD countries), ${ }^{12}$ but they now seem to be based upon uniform samples of all tax returns. Although there is uncertainty about the new sampling procedure, the sampling rate seems to be sufficiently large to guarantee that the estimated trends for top income shares are statistically significant. ${ }^{13}$

AIITS publications also include tabulations reporting the amounts of the various income categories (wages, business income, dividends, interest, etc.) for each income bracket. In particular, AIITS offers separate tables for wage earners who are by far the largest subgroup. This allowed us to separate estimates for top wage fractiles, which we can compare to our top fractiles estimates for total income (see below). ${ }^{14}$
${ }^{10}$ In order to put these numbers in global perspective, one can note that India's 19992000 P99.99 threshold (about $\$ 160,000$ in PPP terms) is located midway in between US 1998 P95 and P99 thresholds for 1998 (resp. $\$ 107,000$ and $\$ 230,000$; see Piketty and Saez (2003: table 1)), and that India's 19992000 P99.9 threshold (about \$34,000 in PPP terms) is well below US 1998 P90 threshold $(\$ 82,000)$.
${ }^{11}$ In the same way as for other countries (see above for references), we checked that our extrapo lation results are virtually unaffected by the choice of extrapolation thresholds used to estimate the structural parameters. Pareto coefficients are locally very stable in India, just as in other countries. Prior to the 1990s, the fraction of individuals subject to tax was less than $1 \%$, and we used the lowest threshold available in order to estimate the top percentile threshold P99 (given that Pareto coefficients are in practice very stable, the resulting estimates appear to be as precise as estimates for thresholds P99.5 and above).
${ }^{12}$ Or on stratified samples with sampling rates close to $100 \%$ for top incomes.
${ }_{13}$ According to the tax administration statistics division, the sampling rate is about $1 \%$ and approximately uniform (no precise information about sampling design and rate is included in AIITS publications). Given India's large population, this implies that our estimate for the top $1 \%$ income share ( $8.95 \%$ of total income in 1999 2000) has a standard error of about $0.04 \%$, and that our estimate for the top $0.01 \%$ income share ( $1.57 \%$ of total income in 1999 2000) has a standard error of about $0.08 \%$. There is some evidence however that the sampling design is changing and that published tabulations are becoming more volatile by the end of the period. In particular, the tabulations for IY 19978 (AIITS 1998 9) contain far too many individual taxpayers above 1 million Rs, thereby suggesting that something went wrong in the sampling design during that year. The 19978 estimates were corrected downwards on the basis of 19967 and 19989 tabulations.
${ }^{14}$ Published wage tabulations for IY 19967 and 19978 appear to suffer from sampling design failures (top wages are clearly truncated in 1996 7, and they are too numerous in 1997 8), and our estimates for those two years were corrected on the basis of 19956 and 19989 data.

### 1.3 THE LONG-RUN DYNAMICS OF TOP <br> INCOME SHARES, 1922-2000

Figure 1.2 illustrates the basic pattern of our findings. Our results show that income inequality (as measured by the share of top incomes) has followed a U-shaped pattern over the 1922-2000 period. The top 0.01 per cent income share was fluctuating around 2-2.5 per cent of total income from the 1920s to the 1950s. It then gradually fell from about 1.5-2 per cent of total income in the 1950s to less than 0.5 per cent in the early 1980 s , and finally rose during the $1980 \mathrm{~s}-1990$ s, back to $1.5-2$ per cent during the late 1990s. What this means is that the average top 0.01 per cent income was about 150-200 times larger than the average income of the entire population during the 1950s. It went down to less than 50 times as large in the early 1980s, but went back to being 150-200 times larger during the late 1990s.

The exact turning point is also of some interest. We see that the decline in the share of the top 0.01 per cent is relatively rapid till 1974-5. Then it slows considerably but there is still a clear downward trend till 1980-1. Then it reverses: the trend is upwards throughout the 1980s, reaching a peak in 1988-9. Over the 1980s, the share of the top 0.01 per cent more than doubles-from less than 0.4 per cent to more than 0.8 per cent. But it then reverses once again, and by 1991-2 it is back below 0.6 per cent. Then it takes off and after 1995-6 remains in the $1.5-2$ per cent range.

One also observes a similar (though less pronounced) U-shaped pattern for the top 1 per cent income share, which went from about 12-13 per cent during the 1950s to $4-5$ per cent in the early 1980 s to $9-10$ per cent in the late 1990s (see Figure 1.4).


Figure 1.2 The top 0.01\% income share in India, 19222000
Source: Table 1A.5, col. (4).


Figure 1.3 The top 0.1\% income share in India, 19222000
Source: Table 1A.5, col. (3).


Figure 1.4 The top 1\% income share in India, 19222000
Source: Table 1A.5, col. (1).

Once again the turning point seems to be around 1980-1, and over the 1980s, the share of the top 1 per cent also doubles. Then, as with the share of the top 0.01 per cent, there is a period of retrenchment that lasts till 1991-2, followed by a renewed upward movement.

The comparison of Figures 1.2 and 1.3 reveals another intriguing fact: While in the 1980s the share of the top 1 per cent increases almost as quickly as the share of the top 0.01 per cent, in the 1990s there is a clear divergence between what is happening to the top 0.01 per cent and the rest of the top percentile. To confirm that this is the case, we break up the top percentile into four groups: those between the 99th percentile and the 99.5th percentile, those between the 99.5th percentile and the 99.9th percentile, those between the 99.9th percentile and the 99.99th percentile, and those in the top 0.01 percentile. Table 1.2 reports what happened to each of these groups in the 1987-2000 period. We see that only those in the top 0.1 per cent enjoyed income growth rates faster than the growth rate of GDP per capita. This contrasts with what we see when we look at the period that includes the 1980s (see Table 1.3). For this period we see evidence of aboveaverage growth for the entire top percentile.

While 1980-1 was clearly the year when the data series turn around, it is not possible to date the 'true' turnaround with quite so much precision, because the share of the rich is also affected by short-run, cyclical factors. It is possible that our data put the turning point in 1980-1 only because we have not made any allowances for the deep recession of 1979-80 and 1980-1, which hurt the rich. As a result, we see a sharp upward trend starting in 1981, even though perhaps what is really happening

Table 1.2 Top income growth in India during the 1990s: 19992000 vs. 19871988

|  | 1999 <br> (nominal growth) | 2009 vs. 1997 <br> (real growth) |
| :--- | :---: | :---: |
| Household consumption/capita (NSS) | $+242 \%$ | $+19 \%$ |
| GDP/capita (NAS) | $+337 \%$ | $+52 \%$ |
| Household consumption/capita (NAS) | $+304 \%$ | $+40 \%$ |
| National income/tax unit (NAS) | $+346 \%$ | $+55 \%$ |
| Top income fractile P99 100 (tax returns) | $+392 \%$ | $+71 \%$ |
| Top income fractile P99.5 100 (tax returns) | $+412 \%$ | $+78 \%$ |
| Top income fractile P99.9 100 (tax returns) | $+548 \%$ | $+125 \%$ |
| Top income fractile P99.99 100 (tax returns) | $+1009 \%$ | $+285 \%$ |
| Top income fractile P99 99.5 (tax returns) | $+331 \%$ | $+50 \%$ |
| Top income fractile P99.5 99.9 (tax returns) | $+317 \%$ | $+45 \%$ |
| Top income fractile P99.9 99.99 (tax returns) | $+393 \%$ | $+71 \%$ |
| Top income fractile P99.99 100 (tax returns) | $+1009 \%$ | $+285 \%$ |
| Consumer price index | $+188 \%$ |  |
| Share of growth gap accounted for by P99 100 |  | $20.1 \%$ |
| Share of growth gap accounted for by P99.5 100 |  | $17.2 \%$ |
| Share of growth gap accounted for by P99.9 100 |  | $12.7 \%$ |
| Share of growth gap accounted for by P99.99 100 |  | $8.0 \%$ |

Source: Authors' computations using tax return, NAS and NSS data (see Table 1A.2, Table 1A.3, and Table 1A.4, row 1999-2000/1987-8).

Table 1.3 Top income growth in India during the 1980s 1990s: 19992000 vs. 19811982

|  | 1999 <br> (nominal growth) | 1999 <br> (real growth) |
| :--- | :---: | :---: |
| Household consumption/capita (NSS) | $+487 \%$ | $+25 \%$ |
| GDP/capita (NAS) | $+700 \%$ | $+70 \%$ |
| Household consumption/capita (NAS) | $+599 \%$ | $+49 \%$ |
| National income/tax unit (NAS) | $+688 \%$ | $+68 \%$ |
| Top income fractile P99 100 (tax returns) | $+1508 \%$ | $+242 \%$ |
| Top income fractile P99.5 100 (tax returns) | $+1747 \%$ | $+293 \%$ |
| Top income fractile P99.9 100 (tax returns) | $+2270 \%$ | $+404 \%$ |
| Top income fractile P99.99 100 (tax returns) | $+3980 \%$ | $+767 \%$ |
| Top income fractile P99 99.5 (tax returns) | $+992 \%$ | $+132 \%$ |
| Top income fractile P99.5 99.9 (tax returns) | $+1392 \%$ | $+217 \%$ |
| Top income fractile P99.9 99.99 (tax returns) | $+1698 \%$ | $+282 \%$ |
| Top income fractile P99.99 100 (tax returns) | $+3980 \%$ | $+767 \%$ |
| Consumer price index | $+370 \%$ |  |
| Share of growth gap accounted for by P99 100 |  | $39.7 \%$ |
| Share of growth gap accounted for by P99.5 100 |  | $33.5 \%$ |
| Share of growth gap accounted for by P99.9 100 |  | $19.1 \%$ |
| Share of growth gap accounted for by P99.99 100 |  | $9.3 \%$ |

Source: Authors' computations using tax return, NAS and NSS data (see Table 1A.2, Table 1A.3, and Table 1A.4, row 1999-00/1981-2).
in 1981-2 and 1982-3 is just a reversion to the pre-existing trend. Therefore rather than naming a single year, we date the turnaround to the early to mid 1980s.

The fact that the turning point is so early makes it hard to attribute it to the formal process of liberalization. Indeed, given the nature of our data, we cannot entirely rule out the possibility either that the driving factor was a shift in the global economic environment, or even that it was a part of the natural evolution of a mixed economy. However, the timing of the turnaround is also consistent with the view that there was a structural shift in the Indian economy in the early to mid 1980s. Delong (2001) and Rodrik and Subramanian (2004), based on macro time series data, date the acceleration in the growth rate of the Indian economy to the early to mid 1980s, rather than the early 1990s. They suggest that this may have to do with a shift of power within the ruling Congress Party towards a more technocratic/pro-business group associated with Rajiv Gandhi, who enters politics in 1981 following his brother's death, and becomes Prime Minister in 1984. Available macro series also show that the wage share in the private corporate sector has been declining in India since the early to mid 1980s (in contrast to the 1970s, when the profit share was declining), ${ }^{15}$ which is again consistent with our turning point.

Also, while the turnaround was earlier, the data suggest a definite acceleration in the growth of the share of the top 0.01 per cent after 1991. Moreover this

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Figure 1.5 The top 0.01\% income share in India, France, and the USA, 19132000
Source: Authors' computations using tax returns data (India: Table 1A.5, col. (4); France: Piketty (2003); US: Piketty and Saez (2003)).
contrasts with what we see in the case of the top 1 per cent, suggesting that what happened after 1991 was qualitatively different from what happened before, and even more biased in favour of the ultra-rich.

Finally, a tentative piece of evidence suggesting that what happened in India over this entire period was not simply a reflection of forces that were affecting countries all over the world. Figures 1.5, 1.6, and 1.7 compare what happened in India to the patterns obtained using similar data from France and the United States. During the 1950s-1960s, India was less egalitarian than either of these countries (they were actually quite similar at that time), in the sense that the top 0.01 per cent earned a substantially higher share of total income in India. Subsequently however, top income shares declined continuously in India during 1960s-1970s and fell below the Western levels during the early 1980s. The fact that the fall of top income shares occurred mostly during the 1950s-1970s in India (rather than during the inter-war period and the Second World War) seems consistent with the interpretation posited by Piketty (2003) and Piketty and Saez (2003) to explain the French and US trajectories. The shocks induced by the Great Depression of the 1930s and the Second World War were less severe in India, ${ }^{16}$ while tax progressivity was extremely high in India during the 1950s-1970s, which might have induced a very large impact on capital concentration and

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Figure 1.6 The top 0.1\% income share in India, France, the USA, and the UK, 19132000 Source: Authors' computations using tax returns data (India: Table 1A.5, col. (3); France: Piketty (2003); US: Piketty-Saez (2003); UK: Chapter 13, Table 13A.2).


Figure 1.7 The top 1\% income share in India, France, and the USA, 19132000
Source: Authors' computations using tax returns data (India: Table 1A.5, col. (1); France: Piketty (2003); US: Piketty-Saez (2003)).
pre-tax income inequality (even larger than in France or the USA). Available data do indeed seem to indicate that the fall in top shares observed during this period was primarily due to the fall of top capital incomes. ${ }^{17}$

Top income shares then went back up in India, following a pattern similar to the United States but not France, where the top shares remained fairly flat during the 1980s-1990s (the pattern in most other European countries is quite similar). ${ }^{18}$ The share of the very rich in Indian incomes is currently much higher than in Europe. As we show below, the rise of top Indian incomes during the recent period was not due to the revival of top capital incomes (the rise of top wages did play a key role, like in the USA). Although our data do not allow us to identify precisely the causal channels at work, and in particular to isolate the impact of globalization, we note that the fact that the rise in income inequality was so much concentrated within top incomes seems more consistent with a theory based on rents and market frictions (see e.g. Banerjee and Newman 2003) than with a theory based solely on skills and technological complementarity (i.e. inequality rises in the south because low-skill southern workers are too low-skill to benefit from globalization; see e.g. Kremer and Maskin 2003).

### 1.4 MEASUREMENT ISSUES

Our presumption so far has been that what we have measured is the actual income share of the rich. There are a number of reasons why this may not be true. First, despite our best efforts, we were unable to discover the exact changes that occurred during the 1990s in the procedure for generating the samples used to create the tax tables. Our sense, from informal conversations with Indian tax officials, is that, at least in recent years, the procedure is more an informal attempt to sample randomly than a precise random sample. To the extent that this increases the risk of the data being clustered, the implication is that the within sample variance might overstate the precision of our data. While this remains a possibility, we take some consolation from the fact that the trends, for the most part, seem quite stable. While our results for single years or sets of years may reflect sampling variation, the fact that in every year between 1973-4 and 1992-3, the share of the top 0.01 per cent was less than 0.85 per cent (and in every year but two it was less than 0.7 per cent) and that in every year including and after 1995-6

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Figure 1.8 The top $0.01 \%$ income share and the top marginal income tax rate in India, 19812000

Source: Authors' computations using tax returns data (Table 1A.5) and tax return law.
it was greater than 1.5 per cent, seems much more robust. Moreover the intervening two years, 1993-4 and 1994-5, do show, as we might have hoped for, shares for the top 0.01 per cent that were between 0.7 per cent and 1.5 per cent.

A more serious problem is that the surge in top incomes may reflect improvements in the income tax department's ability to measure (and hence tax) the incomes of the wealthy. One reason for this may be that tax cuts in the early 1990s simply reduced the incentives for evading taxes among the wealthy. Note however that the overall decline in the top marginal rate, though non-monotonic, was quite moderate: the top marginal tax rate dropped from 50 per cent in 1987-8 to 40 per cent in 1999-2000 (see Figure 1.8). By comparison the change in the share of the top 0.01 per cent was enormous: It went up from 0.7 per cent in 1987-8 to over 1.5 per cent in 1999-2000. If this entire change is to be explained by a shift in tax rates, the implied elasticity would have to be enormous.

In particular, the implied elasticity would need to be much larger than what has been estimated in the USA following the Tax Reform Act of 1986. The current consensus in the USA seems to be that while short-run elasticities can be substantial, ${ }^{19}$ the medium- and long-run elasticity of top taxable income with

[^8]respect to top tax rates is probably fairly modest. In particular, the rise in top income shares observed in the USA during the 1970-2000 period seems to reflect for the most part real economic change (rather than pure fiscal manipulation): top shares started rising much before TRA 1986, and the rise went on during the 1990s at an even higher pace, in spite of the 1993 rise in top tax rates. ${ }^{20}$ It is also interesting to note that top income shares rose enormously in China during the 1986-2001 period (twice as fast as in India), in spite of the fact that top Chinese income tax rates have remained unchanged since the early 1980s (see Chapter 2). This again suggests that the rise of top incomes can be explained by non-tax structural factors (changing social norms, booming economy, international trade and globalization, etc.) rather than by tax changes and increased incentives to report top incomes.

Of course, the effect of tax changes in India could have been reinforced by spectacular improvements in the collection technology (and not only by increased incentives on the taxpayer side). There were, after all, a number of innovations in tax collection in the 1990s, such as the introduction of the 'one in six rule' (in 1998) that required everyone who satisfied at least one out of six criteria (owning a car, travel abroad, etc.) to file a tax return.

To further investigate this issue, we redid the exercise above exclusively for wages. Wages are clearly much less subject to tax evasion than non-wage incomes, since taxes are typically deducted at source and the employer has a strong incentive to report what he pays, since he gets to deduct the wages from his own taxes. Therefore if all that was happening was better collection, we would expect wage incomes to grow much more slowly than other incomes. To see if this is the case, we compare the evolution of top wages (see Table 1.4 below) with the evolution of top incomes (see Table 1.2). We find that top wages have increased essentially in step with top incomes during the 1990s. In fact, wage growth among the top percentile of the wage distribution rose by 81 per cent between 1987-8 and 1999-2000, while the corresponding figure was 71 per cent for the top percentile of the income distribution. This is consistent with the fact that the share of wages within the total income of the top percentile has increased somewhat during this period (from 28 per cent to 31 per cent). Although very top incomes are still mostly made of non-wage income, the wage part has increased during the 1990s.

Note that the view that there was 'real' increase in top incomes (and especially top wages) in India during the 1990s is also consistent with the evolution of the public sector salary scale. Following a succession of Pay Commissions, including the well-known Fifth Pay Commission, whose recommendations were implemented in 1997, the salaries of central government employees were raised sharply in India during the 1990s. ${ }^{21}$ According to our computations (based upon published public sector salary scales), the Fifth Pay Commission alone can account for a substantial part of the rise in the number of top income tax payers in India

[^9]Table 1.4 Top wage growth in India during the 1990s: 19992000 vs. 19871988

|  | 1999 <br> (nominal growth) | 2000 vs. 1987 <br> (real growth) |
| :--- | :---: | :---: |
| Household consumption/capita (NSS) | $+242 \%$ | $+19 \%$ |
| GDP/capita (NAS) | $+337 \%$ | $+52 \%$ |
| Household consumption/capita (NAS) | $+304 \%$ | $+40 \%$ |
| National income/tax unit (NAS) | $+346 \%$ | $+55 \%$ |
| Top wage fractile P99 100 (tax returns) | $+420 \%$ | $+81 \%$ |
| Top wage fractile P99.5 100 (tax returns) | $+492 \%$ | $+105 \%$ |
| Top wage fractile P99.9 100 (tax returns) | $+551 \%$ | $+126 \%$ |
| Top wage fractile P99.99 100 (tax returns) | $+955 \%$ | $+266 \%$ |
| Top wage fractile P99 99.5 (tax returns) | $+246 \%$ | $+20 \%$ |
| Top wage fractile P99.5 99.9 (tax returns) | $+470 \%$ | $+98 \%$ |
| Top wage fractile P99.9 99.99 (tax returns) | $+448 \%$ | $+94 \%$ |
| Top wage fractile P99.99 100 (tax returns) | $+955 \%$ | $+266 \%$ |
| Consumer price index | $+188 \%$ |  |

Source: Authors' computations using tax return, NAS and NSS data (see Table 1A.2, Table 1A.6, and Table 1A.7, row 1999-2000/1987-8).
between 1994 and 1997. Central government employees made up about 7 per cent of all income tax payers in India in 1994 (less than 500,000 central government taxpayers, out of a total of about 7 million taxpayers), and they made up almost 30 per cent of all taxpayers by 1997 (about 3.2 million central government taxpayers, out of a total of 11 million). According to these computations, out of the 4 million extra taxpayers recorded between 1994 and 1997, around 2.7 million (almost 70 per cent) were central government employees. The very top wage of the central government salary scale was 98,000 Rs ( 9,000 Rs per month) in 1994 (which was just a little bit above the P99.5 threshold), and it was raised to 360,000 Rs ( 30,000 Rs per month) in 1997 (which was well above the P99.9 threshold). ${ }^{22}$ However it does not seem to be that public sector wage

[^10]increases were the primary driver behind the increase in inequality in the 1990s. Most of the rise in top Indian income shares actually took place before 1997, and it is likely that the revised scale put forward by the Fifth Commission was itself a response to the large rise in top private sector wages that had taken place in previous years. ${ }^{23}$

### 1.5 THE GROWTH PARADOX OF THE 1990S

Can the fact that the rich were getting richer help solve what has been called the Indian growth paradox of the 1990s? Table 1.2 illustrates this paradox: for the period 1987-2000, it compares the growth rate of average consumption as reported in the NSS, with the growth rate of average income and consumption from the national accounts (NAS), as well as the top incomes from the tax returns. The years 1987-8 and 1999-2000 were chosen because there were large rounds of the NSS surveys in those years, which makes our estimates of the NSSNAS gap more precise. ${ }^{24}$ To eliminate the effect of using different deflators, we first compare nominal growth performance, and then compute real growth performance by using the same deflator for all the series (namely, the CPI).

According to the NSS, real growth was fairly limited in India during the 1990s: per capita consumption increased by only 19 per cent in real terms between 1987-8 and 1999-2000. According to National Accounts (NAS), however, real growth was more than twice as large: both per capita GDP and national income increased by more than 50 per cent in real terms, and per capita household consumption increased by 40 per cent. This NSS-NAS gap is what has been called the Indian growth paradox and has been the subject of much discussion in recent years. ${ }^{25}$

Table 1.2 raises the possibility that the very large growth of top incomes during the 1990s might help solve this puzzle. The average income growth among the top percentile of the tax units was 71 per cent in real terms between 1987-8 and 19992000, which is substantially more than average growth according to the national

[^11]accounts. Moreover, the higher one goes within the top percentile, the higher the growth (up to +285 per cent for the top 0.01 per cent income fractile).

What fraction of the NSS-NAS gap can be explained by the huge growth performance of very top incomes? Let us assume that the NSS is unable to record any of the extra growth enjoyed by the top percentile (say the people in the top percentile do not report their extra growth to the NSS, or do not report anything at all). According to our calculations, the top percentile share in total consumption was around 8 per cent in 1987-8.26 Since the average income of the top percentile increased by 71 per cent in real terms between 1987-8 and 1999-2000 according to the tax returns (as opposed to +19 per cent for average NSS consumption), this implies that NSS growth was 3.55 per cent less than what it would have been without the misreporting. ${ }^{27}$ This implies that the growing incomes among the top percentile can explain at most 20.1 per cent of the total NSS-NAS gap (see Table 1.2). ${ }^{28}$ This is significant, but leaves 80 per cent of the puzzle unexplained. The problem lies in the fact that almost all the extraordinary growth was among the top 0.1 per cent, and the weight of this group is simply not large enough to have an impact on aggregate statistics of the necessary magnitude. For the rise of inequality to explain fully the NSS-NAS gap, there would have to have been very high income growth at the bottom of the top percentile, and not simply among those in the top 0.1 per cent.

Top income growth can explain a larger proportion of the NSS-NAS gap if we start in the 1980s. For instance, under the same assumptions, the top percentile can explain almost 40 per cent of the cumulative NSS-NAS gap over the 19812000 period (see Table 1.3). This is because the bottom of the top percentile enjoyed rapid income growth in the 1980s (see Figures 1.2 to 1.4). The booming Indian elite of the 1980s-1990s seems too thin to explain all of the growth puzzle, but large enough to account for a non-negligible part of it.

### 1.6 CONCLUSION

Our results suggest that the gradual liberalization of the Indian economy did make it possible for the rich (the top 1 per cent) to substantially increase their share of total income. However, while in the 1980s the gains were shared by everyone in the top percentile, in the 1990s it was only those in the top 0.1 per cent who had big gains. The 1990s was also the period when the economy was opened. This suggests the possibility that the ultra-rich were able to corner most

[^12]of the income gains in the 1990s because they alone were in a position to sell what the world markets wanted. ${ }^{29}$ It would be interesting to see whether in the coming years, as more and more people position themselves to benefit from the world markets, the share of the rich and the ultra-rich stops growing and even shrinks. For this and other reasons, we hope that this study will launch a trend towards more research (and better data) that focuses on the rich.
${ }_{29}$ The point is that one does not have to be rich on a global scale to be counted among the rich in India and even among the ultra rich (see Table 1.1). Even those who got paid like an average American make it into the group of the ultra rich.

## APPENDIX 1A: TABLES OF SOURCES AND RESULTS

This appendix contains Table 1A. 1 with details of the income tax sources, Table 1A. 2 with the reference totals used, Tables 1A. 3 to 1A. 5 with results on income levels and shares, and Tables 1A. 6 and 1A. 7 on wage levels and shares.

Table 1A. 1 References of official publications with India's income tax tabulations by income bracket, 19222000

| Assessment Year | Exact name of publication | Publisher, place and year of publication | Table number |
| :---: | :---: | :---: | :---: |
| 19223 | 'All India Income tax Returns for the year...' | Central Board of Revenue, Superintendent Government Printing, Calcutta, 1924 | Return IV |
| 19234 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1925 | Return IV |
| 19245 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1926 | Return IV |
| 19256 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1927 | Return IV |
| 19267 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1928 | Return IV |
| 19278 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1929 | Return IV |
| 19289 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1930 | Return IV |
| 192930 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1931 | Return IV |
| 19301 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1932 | Return IV |


| 1931 | 2 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Central Publication Branch, Calcutta, 1933 | Return IV |
| :---: | :---: | :---: | :---: | :---: |
| 1932 | 3 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, New Delhi, 1934 | Return IV |
| 1933 | 4 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, New Delhi, 1935 | Return IV |
| 1934 | 5 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1936 | Return IV |
| 1935 | 6 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1937 | Return IV |
| 1936 | 7 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1938 | Return IV |
| 1937 | 8 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1939 | Return IV |
| 1938 | 9 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1940 | Return IV |
| 1939 | 40 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1941 | Return IV |
| 1940 | 1 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1942 | Statement 5 |
| 1941 | 2 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1943 | Statement 5 |
| 1942 | 3 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1944 | Statement 5 |
| 1943 | 4 | Not available | Not available | N.a. |
| 1944 | 5 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1947 | Statement 5 |
| 1945 | 6 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1948 | Statement 5 |
| 1946 | 7 | 'All India Income tax Report and Returns for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1950 | Statement 5 |
| 1947 | 8 | Not available | Not available | N.a. |
| 1948 | 9 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1950 | Statement 5 |
| 1949 | 50 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1951 | Statement 5 |

Table 1A. 1 Continued

| Assessment <br> Year |  | Exact name of publication | Publisher, place and year of publication | Table number |
| :---: | :---: | :---: | :---: | :---: |
| 1950 | 1 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1952 | Statement 5 |
| 1951 | 2 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1953 | Statement 5 |
| 1952 | 3 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Calcutta, 1954 | N.a. |
| 1953 | 4 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1955 | N.a. |
| 1954 | 5 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1956 | Statement 5 |
| 1955 | 6 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1957 | Statement 5 |
| 1956 | 7 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1958 | Statement 5 |
| 1957 | 8 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1959 | Statement 5 |
| 1958 | 9 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1960 | Statement 5 |
| 1959 | 60 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1961 | Statement 5 |
| 1960 | 1 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1962 | Statement 5 |
| 1961 | 2 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Revenue, Government of India Press, Delhi, 1963 | Statement 5 |
| 1962 | 3 | 'All India Income tax Revenue Statistics for the year...' | Central Board of Direct Taxes, Government of India Press, Delhi, 1964 | Statement 5 |
| 1963 | 4 | 'All India Income tax Statistics for the year...' | Central Board of Direct Taxes, Government of India Press, Delhi, 1965 | Statement 5 |
| 1964 | 5 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1966 | Statement 5 |
| 1965 | 6 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1967 | Statement 5 |
| 1966 | 7 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1968 | Statement 5 |
| 1967 | 8 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1969 | Statement 5 |
| 1968 | 9 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1971 | Statement 5 |


| 1969 | 70 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1972 | Statement 5 |
| :---: | :---: | :---: | :---: | :---: |
| 1970 | 1 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1972 | Statement 5 |
| 1971 | 2 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1973 | Statement 5 |
| 1972 | 3 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1974 | Statement 5 |
| 1973 | 4 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1975 | Statement 5 |
| 1974 | 5 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1976 | Statement 5 |
| 1975 | 6 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1977 | Statement 5 |
| 1976 | 7 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1978 | Statement 5 |
| 1977 | 8 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1979 | Table 5 |
| 1978 | 9 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1980 | Table 5 |
| 1979 | 80 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1981 | Table 5 |
| 1980 | 1 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1982 | Table 5 |
| 1981 | 2 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1983 | Table 5 |
| 1982 | 3 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1984 | Table 5 |
| 1983 | 4 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1985 | Table 5 |
| 1984 | 5 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1986 | Table 4 |
| 1985 | 6 | 'All India Income tax Statistics for the year...' | Directorate of Inspection, Delhi, 1987 | Table 3 |
| 1986 | 7 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1988 | Table 3 |
| 1987 | 8 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1989 | Table 3 |
| 1988 | 9 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1990 | Table 3 |
| 1989 | 90 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1991 | Table 3 |
| 1990 | 1 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1992 | Table 3 |
| 1991 | 2 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1994 | Table 3 |
| 1992 | 3 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1994 | Table 3 |
| 1993 | 4 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1995 | Table 3 |
| 1994 | 5 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1996 | Table 3 |
| 1995 | 6 | 'All India Income tax Statistics for the year...' | Directorate of Income Tax, Delhi, 1997 | Table 3 |

Table 1A. 1 Continued

| Assessment <br> Year | Exact name of publication | Publisher, place and year of <br> publication | Table number |
| :--- | :--- | :--- | :--- |
| 19967 | 'All India Income tax Statistics <br> for the year...' <br> 'All India Income tax Statistics <br> for the year...' | Directorate of Income Tax, <br> Delhi, 1999 <br> Directorate of Income Tax, <br> Delhi, 2000 <br> 'All India Income tax Statistics <br> for the year...' <br> Delhi, 2001 of Income Tax, <br> 'All India Income tax Statistics | Directorate of Income Tax, |
| Dable 3 <br> for the year...' | Table 3 |  |  |

Table 1A. 2 Reference totals for tax units and income, India, 19222000

\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|c|}
\hline \& (1) Population (millions) \& (2)
N.tax
units

(millions) \& (3) N.tax returns (millions) \& (3)/(2)

(\%) \& \begin{tabular}{l}
(5) GDP/capita <br>
(current Rs)

 \& 

(6) <br>
Hous. consump./ capita (NAS) <br>
(current Rs)

\end{tabular} \& (7) National income/ tax unit (current Rs) \& (8) Hous. consump./ capita (NSS) (current Rs) \& \[

$$
\begin{gathered}
\begin{array}{c}
(9) \\
\mathrm{CPI}
\end{array} \\
\substack{\mathrm{p}(1999-00) \\
/ \mathrm{p}(\mathrm{n}))}
\end{gathered}
$$

\] \& \[

$$
\begin{gathered}
(10) \\
\text { GDP/ } \\
\text { capita }
\end{gathered}
$$

\] \& | (11) |
| :--- |
| Hous. consump./ capita (NAS) |
| (1999- |
| 2000 Rs) | \& (12) National income/ tax unit (19992000 Rs ) \& (13) Hous. consump./ capita (NSS) (19992000 Rs \& (14) Nat.Inc./ capita real growth rate (\%) \& \[

$$
\begin{gathered}
\begin{array}{c}
(15) \\
\text { Inflation } \\
\text { rate }
\end{array} \\
\\
(\%)
\end{gathered}
$$
\] <br>

\hline 1922-3 \& 310.4 \& 124.2 \& 0.3 \& 0.2 \& \& \& 187 \& \& 51.630 \& \& \& 9,660 \& \& \& <br>
\hline 1923-4 \& 313.6 \& 125.4 \& 0.3 \& 0.2 \& \& \& 173 \& \& 56.870 \& \& \& 9,813 \& \& 1.6 \& 9.2 <br>
\hline 1924-5 \& 316.7 \& 126.7 \& 0.3 \& 0.2 \& \& \& 192 \& \& 57.583 \& \& \& 11,039 \& \& 12.5 \& 1.2 <br>
\hline 1925-6 \& 319.9 \& 128.0 \& 0.3 \& 0.2 \& \& \& 188 \& \& 54.965 \& \& \& 10,333 \& \& 6.4 \& 4.8 <br>
\hline 1926-7 \& 323.2 \& 129.3 \& 0.3 \& 0.2 \& \& \& 185 \& \& 53.933 \& \& \& 9,990 \& \& 3.3 \& 1.9 <br>
\hline 1927-8 \& 326.4 \& 130.6 \& 0.3 \& 0.2 \& \& \& 181 \& \& 55.766 \& \& \& 10,088 \& \& 1.0 \& 3.3 <br>
\hline 1928-9 \& 329.7 \& 131.9 \& 0.3 \& 0.2 \& \& \& 179 \& \& 56.730 \& \& \& 10,172 \& \& 0.8 \& 1.7 <br>
\hline 1929-30 \& 333.1 \& 133.2 \& 0.3 \& 0.2 \& \& \& 172 \& \& 58.912 \& \& \& 10,136 \& \& 0.4 \& 3.7 <br>
\hline 1930-1 \& 336.4 \& 134.6 \& 0.4 \& 0.3 \& \& \& 135 \& \& 71.575 \& \& \& 9,663 \& \& 4.7 \& 17.7 <br>
\hline 1931-2 \& 341.0 \& 136.4 \& 0.6 \& 0.4 \& \& \& 117 \& \& 82.350 \& \& \& 9,628 \& \& 0.4 \& 13.1 <br>
\hline 1932-3 \& 345.8 \& 138.3 \& 0.7 \& 0.5 \& \& \& 111 \& \& 87.693 \& \& \& 9,770 \& \& 1.5 \& 6.1 <br>
\hline 1933-4 \& 350.7 \& 140.3 \& 0.7 \& 0.5 \& \& \& 104 \& \& 93.778 \& \& \& 9,755 \& \& 0.1 \& 6.5 <br>
\hline 1934-5 \& 355.6 \& 142.2 \& 0.7 \& 0.5 \& \& \& 108 \& \& 91.536 \& \& \& 9,889 \& \& 1.4 \& 2.4 <br>
\hline 1935-6 \& 360.6 \& 144.2 \& 0.4 \& 0.3 \& \& \& 106 \& \& 89.748 \& \& \& 9,505 \& \& 3.9 \& 2.0 <br>
\hline 1936-7 \& 365.7 \& 146.3 \& 0.3 \& 0.2 \& \& \& 110 \& \& 88.709 \& \& \& 9,730 \& \& 2.4 \& 1.2 <br>
\hline 1937-8 \& 370.9 \& 148.4 \& 0.3 \& 0.2 \& \& \& 110 \& \& 87.028 \& \& \& 9,579 \& \& 1.5 \& 1.9 <br>
\hline 1938-9 \& 376.1 \& 150.4 \& 0.3 \& 0.2 \& \& \& 109 \& \& 89.052 \& \& \& 9,722 \& \& 1.5 \& 2.3 <br>
\hline 1939-40 \& 381.4 \& 152.6 \& 0.4 \& 0.2 \& \& \& 121 \& \& 84.159 \& \& \& 10,214 \& \& 5.1 \& 5.8 <br>
\hline 1940-1 \& 386.8 \& 154.7 \& 0.4 \& 0.3 \& \& \& 130 \& \& 82.646 \& \& \& 10,740 \& \& 5.1 \& 1.8 <br>
\hline 1941-2 \& 391.7 \& 156.7 \& 0.4 \& 0.2 \& \& \& 156 \& \& 72.938 \& \& \& 11,361 \& \& 5.8 \& 13.3 <br>
\hline 1942-3 \& 396.3 \& 158.5 \& \& 0.0 \& \& \& 221 \& \& 53.807 \& \& \& 11,902 \& \& 4.8 \& 35.6 <br>
\hline 1943-4 \& 400.9 \& 160.4 \& 0.4 \& 0.3 \& \& \& 305 \& \& 30.553 \& \& \& 9,306 \& \& 21.8 \& 76.1 <br>
\hline 1944-5 \& 405.6 \& 162.2 \& 0.4 \& 0.3 \& \& \& 301 \& \& 31.259 \& \& \& 9,403 \& \& 1.0 \& 2.3 <br>
\hline 1945-6 \& 410.4 \& 164.2 \& 0.4 \& 0.3 \& \& \& 294 \& \& 31.174 \& \& \& 9,150 \& \& 2.7 \& 0.3 <br>
\hline 1946-7 \& 415.2 \& 166.1 \& \& 0.0 \& \& \& 287 \& \& 28.936 \& \& \& 8,316 \& \& 9.1 \& 7.7 <br>
\hline 1947-8 \& 344.4 \& 137.8 \& 0.5 \& 0.3 \& \& \& 378 \& \& 26.561 \& \& \& 10,037 \& \& 20.7 \& 8.9 <br>
\hline 1948-9 \& 350.0 \& 140.0 \& 0.4 \& 0.3 \& \& \& 385 \& \& 22.976 \& \& \& 8,836 \& \& 12.0 \& 15.6 <br>
\hline 1949-50 \& 355.0 \& 142.0 \& 0.5 \& 0.3 \& \& \& 397 \& \& 22.569 \& \& \& 8,950 \& \& 1.3 \& 1.8 <br>
\hline 1950-1 \& 359.0 \& 143.6 \& 0.6 \& 0.4 \& \& \& 418 \& \& 21.274 \& \& \& 8,891 \& \& 0.6 \& 6.1 <br>
\hline
\end{tabular}

Table 1A. 2 Continued

|  | (1) <br> Population <br> (millions) | (2) N.tax units <br> (millions) | (3) N.tax returns (millions) | (4) <br> (3)/(2) <br> (\%) | (5) GDP/capita <br> (current Rs) | (6) <br> Hous. consump./ capita (NAS) <br> (current Rs) | (7) National income/ tax unit <br> (current Rs) | (8) <br> Hous. consump./ capita (NSS) <br> (current Rs) | $(9)$ CPI $(\mathrm{p}(1999-00)$ $/ \mathrm{p}(\mathrm{n}))$ | $\begin{gathered} \text { (10) } \\ \text { GDP/ } \\ \text { capita } \\ \\ \text { (1999- } \\ 2000 \text { Rs) } \end{gathered}$ | (11) <br> Hous. <br> consump./ capita (NAS) $\begin{gathered} (1999- \\ 2000 \text { Rs }) \end{gathered}$ | (12) <br> National income/ tax unit <br> (1999- <br> 2000 Rs) | (13) <br> Hous. consump./ capita (NSS) $\begin{gathered} (1999- \\ 2000 \mathrm{Rs}) \end{gathered}$ | (14) <br> Nat.Inc./ <br> capita real growth rate <br> (\%) | (15) Inflation rate <br> (\%) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1951-2 | 365.0 | 146.0 |  | 0.0 |  |  | 433 |  | 20.624 |  |  | 8,933 |  | 0.5 | 3.1 |
| 1952-3 | 372.0 | 148.8 |  | 0.0 |  |  | 418 |  | 23.081 |  |  | 9,644 |  | 8.0 | 10.6 |
| 1953-4 | 379.0 | 151.6 | 0.5 | 0.3 |  |  | 448 |  | 21.221 |  |  | 9,501 |  | 1.5 | 8.8 |
| 1954-5 | 386.0 | 154.4 | 0.5 | 0.3 |  |  | 409 |  | 26.756 |  |  | 10,945 |  | 15.2 | 20.7 |
| 1955-6 | 393.0 | 157.2 | 0.5 | 0.3 |  |  | 408 |  | 25.299 |  |  | 10,320 |  | 5.7 | 5.8 |
| 1956-7 | 401.0 | 160.4 | 0.6 | 0.4 | 334 |  | 479 | 221 | 22.371 | 7,464 |  | 10,712 | 4,941 | 3.8 | 13.1 |
| 1957-8 | 409.0 | 163.6 | 0.8 | 0.5 | 334 |  | 478 | 238 | 21.388 | 7,153 |  | 10,228 | 5,094 | 4.5 | 4.6 |
| 1958-9 | 418.0 | 167.2 | 0.8 | 0.5 | 366 |  | 522 | 259 | 20.537 | 7,518 |  | 10,712 | 5,310 | 4.7 | 4.1 |
| 1959-60 | 426.0 | 170.4 | 0.9 | 0.5 | 377 |  | 535 | 258 | 20.638 | 7,786 |  | 11,051 | 5,327 | 3.2 | 0.5 |
| 1960-1 | 434.0 | 173.6 | 1.0 | 0.6 | 405 |  | 574 | 275 | 20.686 | 8,386 |  | 11,879 | 5,687 | 7.5 | 0.2 |
| 1961-2 | 444.0 | 177.6 | 1.0 | 0.6 | 420 |  | 589 | 281 | 20.330 | 8,541 |  | 11,976 | 5,707 | 0.8 | 1.8 |
| 1962-3 | 454.0 | 181.6 | 1.1 | 0.6 | 442 |  | 615 |  | 19.628 | 8,674 |  | 12,065 |  | 0.7 | 3.6 |
| 1963-4 | 464.0 | 185.6 |  |  | 496 |  | 689 | 292 | 19.067 | 9,457 |  | 13,130 | 5,565 | 8.8 | 2.9 |
| 1964-5 | 474.0 | 189.6 | 1.6 | 0.8 | 567 |  | 789 | 339 | 16.821 | 9,530 |  | 13,273 | 5,698 | 1.1 | 13.4 |
| 1965-6 | 486.0 | 194.4 | 1.6 | 0.8 | 582 |  | 809 | 359 | 15.364 | 8,940 |  | 12,431 | 5,523 | 6.3 | 9.5 |
| 1966-7 | 495.0 | 198.0 | 1.5 | 0.7 | 646 |  | 891 | 395 | 13.865 | 8,959 |  | 12,360 | 5,479 | 0.6 | 10.8 |
| 1967-8 | 506.0 | 202.4 | 1.8 | 0.9 | 740 |  | 1,029 | 427 | 12.264 | 9,074 |  | 12,617 | 5,240 | 2.1 | 13.1 |
| 1968-9 | 518.0 | 207.2 | 1.8 | 0.9 | 766 |  | 1,058 | 429 | 11.908 | 9,119 |  | 12,596 | 5,111 | 0.2 | 3.0 |
| 1969-70 | 529.0 | 211.6 |  |  | 826 |  | 1,139 | 454 | 11.840 | 9,777 |  | 13,482 | 5,370 | 7.0 | 0.6 |
| 1970-1 | 541.0 | 216.4 | 2.0 | 0.9 | 845 | 696 | 1,181 | 465 | 11.266 | 9,525 | 7,843 | 13,302 | 5,244 | 1.3 | 5.1 |
| 1971-2 | 554.0 | 221.6 | 2.0 | 0.9 | 885 | 733 | 1,223 |  | 10.929 | 9,670 | 8,014 | 13,366 |  | 0.5 | 3.1 |
| 1972-3 | 567.0 | 226.8 |  |  | 953 | 790 | 1,312 | 577 | 10.266 | 9,786 | 8,106 | 13,469 | 5,926 | 0.8 | 6.5 |
| 1973-4 | 580.0 | 232.0 | 2.1 | 0.9 | 1,133 | 931 | 1,580 | 680 | 8.779 | 9,947 | 8,170 | 13,870 | 5,974 | 3.0 | 16.9 |
| 1974-5 | 593.0 | 237.2 | 2.1 | 0.9 | 1,309 | 1,103 | 1,809 |  | 6.827 | 8,935 | 7,528 | 12,348 |  | 11.0 | 28.6 |
| 1975-6 | 607.0 | 242.8 | 2.1 | 0.9 | 1,375 | 1,102 | 1,863 |  | 6.456 | 8,878 | 7,117 | 12,029 |  | 2.6 | 5.7 |
| 1976-7 | 620.0 | 248.0 | 2.2 | 0.9 | 1,451 | 1,121 | 1,962 |  | 6.990 | 10,143 | 7,839 | 13,717 |  | 14.0 | 7.6 |
| 1977-8 | 634.0 | 253.6 | 1.6 | 0.6 | 1,606 | 1,263 | 2,201 | 877 | 6.453 | 10,362 | 8,149 | 14,205 | 5,657 | 3.6 | 8.3 |
| 1978-9 | 648.0 | 259.2 | 1.5 | 0.6 | 1,704 | 1,344 | 2,304 |  | 6.294 | 10,726 | 8,458 | 14,500 |  | 2.1 | 2.5 |
| 1979-80 | 664.0 | 265.6 | 1.2 | 0.5 | 1,825 | 1,424 | 2,433 |  | 5.924 | 10,813 | 8,436 | 14,415 |  | 0.6 | 6.3 |



| $\underset{O}{\pi}$ | $\frac{10}{2}$ |  | ¢ | $\stackrel{N}{N}$ |
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Table 1A. 3 Top fractiles incomes levels in India, 19562000 (incomes are expressed in current Rs)

|  | P99 100 <br> (1) | $\begin{gathered} \text { P99.5 } 100 \\ (2) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 100 \\ (3) \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (4) \end{gathered}$ | P99 99.5 <br> (5) | $\begin{gathered} \text { P99.5 } 99.9 \\ (6) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 99.99 \\ (7) \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (8) \end{gathered}$ | P99 <br> (9) | $\begin{gathered} \text { P99.5 } \\ (10) \end{gathered}$ | $\begin{gathered} \text { P99.9 } \\ (11) \end{gathered}$ | $\begin{gathered} \text { P99.99 } \\ (12) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19223 | 2,381 | 3,732 | 10,592 | 37,508 | 1,029 | 2,017 | 7,601 | 37,508 | 836 | 1,311 | 3,808 | 19,231 |
| 19234 | 2,311 | 3,613 | 10,190 | 35,714 | 1,008 | 1,969 | 7,354 | 35,714 | 820 | 1,283 | 3,735 | 18,453 |
| 19245 | 2,197 | 3,520 | 10,301 | 35,196 | 873 | 1,825 | 7,535 | 35,196 | 702 | 1,125 | 3,802 | 18,690 |
| 19256 | 2,328 | 3,626 | 10,130 | 34,603 | 1,029 | 2,000 | 7,411 | 34,603 | 839 | 1,307 | 3,785 | 18,444 |
| 19267 | 2,388 | 3,713 | 10,323 | 34,637 | 1,063 | 2,061 | 7,621 | 34,637 | 868 | 1,349 | 3,885 | 18,706 |
| 19278 | 2,410 | 3,760 | 10,534 | 35,787 | 1,060 | 2,066 | 7,728 | 35,787 | 863 | 1,347 | 3,919 | 18,859 |
| 19289 | 2,443 | 3,804 | 10,612 | 35,425 | 1,081 | 2,103 | 7,855 | 35,425 | 882 | 1,373 | 3,973 | 18,936 |
| 192930 | 2,248 | 3,528 | 9,933 | 32,685 | 968 | 1,926 | 7,405 | 32,685 | 787 | 1,234 | 3,829 | 17,261 |
| 19301 | 1,961 | 3,079 | 8,631 | 28,463 | 843 | 1,691 | 6,427 | 28,463 | 685 | 1,075 | 3,358 | 15,283 |
| 19312 | 1,882 | 2,934 | 8,111 | 26,421 | 830 | 1,639 | 6,077 | 26,421 | 676 | 1,054 | 3,232 | 14,304 |
| 19323 | 1,798 | 2,817 | 7,829 | 25,900 | 780 | 1,564 | 5,821 | 25,900 | 634 | 993 | 3,104 | 13,969 |
| 19334 | 1,780 | 2,781 | 7,689 | 25,505 | 780 | 1,553 | 5,710 | 25,505 | 635 | 991 | 3,069 | 13,709 |
| 19345 | 1,825 | 2,846 | 7,868 | 26,078 | 805 | 1,590 | 5,845 | 26,078 | 656 | 1,023 | 3,116 | 14,147 |
| 19356 | 1,835 | 2,842 | 7,769 | 25,597 | 828 | 1,611 | 5,788 | 25,597 | 677 | 1,048 | 3,120 | 13,812 |
| 19367 | 1,709 | 2,660 | 7,385 | 25,391 | 759 | 1,479 | 5,385 | 25,391 | 619 | 963 | 2,772 | 13,495 |
| 19378 | 1,711 | 2,662 | 7,384 | 25,582 | 760 | 1,482 | 5,362 | 25,582 | 620 | 964 | 2,904 | 13,294 |
| 19389 | 1,945 | 3,013 | 8,326 | 31,607 | 877 | 1,685 | 5,739 | 31,607 | 717 | 1,110 | 3,068 | 15,088 |
| 193940 | 1,955 | 3,092 | 8,962 | 34,991 | 818 | 1,624 | 6,070 | 34,991 | 662 | 1,047 | 3,036 | 16,042 |
| 19401 | 2,098 | 3,335 | 9,781 | 38,778 | 862 | 1,724 | 6,559 | 38,778 | 696 | 1,106 | 3,242 | 18,044 |
| 19412 | 2,191 | 3,527 | 10,663 | 42,564 | 854 | 1,744 | 7,119 | 42,564 | 685 | 1,103 | 3,334 | 19,917 |
| 19423 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19434 | 3,142 | 5,005 | 14,754 | 56,908 | 1,279 | 2,568 | 10,071 | 56,908 | 1,032 | 1,643 | 4,844 | 26,221 |
| 19445 | 3,348 | 5,293 | 15,332 | 60,073 | 1,403 | 2,783 | 10,361 | 60,073 | 1,135 | 1,795 | 5,200 | 27,082 |
| 19456 | 3,349 | 5,291 | 15,299 | 59,606 | 1,407 | 2,789 | 10,376 | 59,606 | 1,140 | 1,800 | 5,206 | 26,150 |
| 19467 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19478 | 4,245 | 6,837 | 20,539 | 85,816 | 1,653 | 3,411 | 13,286 | 85,816 | 1,326 | 2,136 | 7,145 | 33,820 |
| 19489 | 4,553 | 7,145 | 20,346 | 82,673 | 1,961 | 3,845 | 13,420 | 82,673 | 1,593 | 2,499 | 7,117 | 34,442 |
| 194950 | 4,760 | 7,417 | 20,778 | 83,082 | 2,102 | 4,077 | 13,856 | 83,082 | 1,713 | 2,670 | 7,479 | 34,846 |
| 19501 | 5,609 | 8,670 | 23,388 | 86,597 | 2,549 | 4,990 | 16,365 | 86,597 | 2,086 | 3,224 | 9,490 | 39,737 |


| 19534 | 5,339 | 8,430 | 23,037 | 82,778 | 2,247 | 4,778 | 16,400 | 82,778 | 1,856 | 2,992 | 9,600 | 37,790 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19545 | 5,556 | 8,636 | 23,218 | 82,197 | 2,476 | 4,990 | 16,665 | 82,197 | 2,020 | 3,140 | 9,845 | 38,395 |
| 19556 | 5,877 | 9,095 | 24,131 | 82,180 | 2,658 | 5,336 | 17,681 | 82,180 | 2,174 | 3,365 | 10,412 | 39,596 |
| 19567 | 6,115 | 9,434 | 24,786 | 81,028 | 2,796 | 5,596 | 18,536 | 81,028 | 2,290 | 3,533 | 10,855 | 40,821 |
| 19578 | 6,378 | 9,813 | 25,373 | 80,446 | 2,943 | 5,922 | 19,254 | 80,446 | 2,413 | 3,713 | 11,282 | 41,850 |
| 19589 | 6,553 | 10,060 | 25,671 | 78,667 | 3,047 | 6,157 | 19,783 | 78,667 | 2,501 | 3,840 | 11,635 | 42,272 |
| 195960 | 6,619 | 10,109 | 25,543 | 77,281 | 3,128 | 6,251 | 19,794 | 77,281 | 2,574 | 3,932 | 11,677 | 41,715 |
| 19601 | 7,072 | 10,849 | 27,481 | 84,244 | 3,294 | 6,691 | 21,174 | 84,244 | 2,705 | 4,150 | 12,879 | 44,920 |
| 19612 | 7,160 | 10,946 | 27,176 | 81,036 | 3,375 | 6,889 | 21,191 | 81,036 | 2,776 | 4,244 | 13,104 | 44,063 |
| 19623 | 7,121 | 10,756 | 26,074 | 77,912 | 3,485 | 6,927 | 20,314 | 77,912 | 2,883 | 4,355 | 12,856 | 42,148 |
| 19634 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19645 | 7,618 | 11,024 | 25,492 | 82,357 | 4,211 | 7,407 | 19,173 | 82,357 | 3,556 | 5,146 | 13,826 | 43,080 |
| 19656 | 8,836 | 13,313 | 31,770 | 98,289 | 4,360 | 8,699 | 24,379 | 98,289 | 3,612 | 5,441 | 15,859 | 51,309 |
| 19667 | 8,901 | 13,501 | 32,652 | 103,613 | 4,302 | 8,713 | 24,767 | 103,613 | 3,552 | 5,387 | 16,036 | 51,888 |
| 19678 | 10,298 | 15,625 | 36,070 | 105,843 | 4,971 | 10,513 | 28,318 | 105,843 | 4,104 | 6,227 | 18,479 | 56,515 |
| 19689 | 10,526 | 15,901 | 36,765 | 106,656 | 5,151 | 10,685 | 29,000 | 106,656 | 4,135 | 6,817 | 19,285 | 56,254 |
| 196970 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19701 | 11,828 | 18,276 | 40,477 | 121,128 | 5,380 | 12,726 | 31,516 | 121,128 | 4,403 | 6,803 | 21,368 | 62,738 |
| 19712 | 10,358 | 15,444 | 34,652 | 107,641 | 5,273 | 10,642 | 26,543 | 107,641 | 4,389 | 6,544 | 17,926 | 50,914 |
| 19723 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19734 | 11,087 | 16,551 | 35,034 | 100,832 | 5,623 | 11,930 | 27,723 | 100,832 | 4,678 | 6,983 | 18,942 | 51,851 |
| 19745 | 12,028 | 17,244 | 36,385 | 97,844 | 6,812 | 12,459 | 29,556 | 97,844 | 5,777 | 8,283 | 20,500 | 55,455 |
| 19756 | 13,486 | 19,745 | 41,961 | 116,200 | 7,228 | 14,190 | 33,712 | 116,200 | 6,070 | 8,886 | 22,790 | 64,828 |
| 19767 | 14,260 | 20,384 | 42,413 | 120,749 | 8,136 | 14,877 | 33,708 | 120,749 | 6,630 | 10,344 | 23,559 | 62,706 |
| 19778 | 13,595 | 20,017 | 41,740 | 113,129 | 7,174 | 14,586 | 33,808 | 113,129 | 5,702 | 10,365 | 23,726 | 61,514 |
| 19789 | 13,927 | 19,945 | 41,588 | 118,213 | 7,908 | 14,534 | 33,074 | 118,213 | 6,475 | 10,121 | 23,100 | 61,389 |
| 197980 | 13,653 | 18,967 | 40,369 | 111,311 | 8,338 | 13,617 | 32,487 | 111,311 | 7,177 | 9,971 | 21,803 | 64,027 |
| 19801 | 13,630 | 18,834 | 39,690 | 112,687 | 8,427 | 13,619 | 31,580 | 112,687 | 7,272 | 10,048 | 21,521 | 62,971 |
| 19812 | 14,287 | 19,520 | 39,453 | 98,891 | 9,054 | 14,537 | 32,848 | 98,891 | 7,854 | 10,731 | 22,137 | 58,397 |
| 19823 | 15,803 | 21,925 | 46,707 | 120,377 | 9,681 | 15,730 | 38,521 | 120,377 | 8,338 | 11,568 | 25,026 | 75,296 |
| 19834 | 26,038 | 35,032 | 73,804 | 192,063 | 17,043 | 25,339 | 60,664 | 192,063 | 14,892 | 20,036 | 37,920 | 104,054 |
| 19845 | 28,001 | 39,226 | 82,447 | 218,454 | 16,777 | 28,420 | 67,336 | 218,454 | 14,384 | 20,150 | 46,370 | 116,071 |

Table 1A. 3 Continued

|  | $\text { P99 } 100$ <br> (1) | $\begin{gathered} \text { P99.5 } 100 \\ (2) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 100 \\ (3) \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (4) \end{gathered}$ | P99 99.5 <br> (5) | $\begin{gathered} \text { P99.5 } 99.9 \\ (6) \end{gathered}$ | P99.9 99.99 <br> (7) | $\begin{gathered} \text { P99.99 } 100 \\ (8) \end{gathered}$ | $\begin{gathered} \text { P99 } \\ (9) \end{gathered}$ | P99.5 <br> (10) | $\begin{gathered} \text { P99.9 } \\ (11) \end{gathered}$ | $\begin{gathered} \text { P99.99 } \\ (12) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19856 | 39,382 | 57,183 | 116,987 | 315,792 | 21,581 | 42,232 | 94,898 | 315,792 | 18,193 | 26,416 | 68,265 | 144,159 |
| 19867 | 44,800 | 66,715 | 135,420 | 361,637 | 22,885 | 49,538 | 110,285 | 361,637 | 19,061 | 28,386 | 78,641 | 180,974 |
| 19878 | 46,691 | 70,441 | 144,222 | 363,859 | 22,941 | 51,995 | 119,818 | 363,859 | 18,991 | 28,651 | 82,609 | 197,872 |
| 19889 | 57,293 | 85,827 | 182,253 | 557,193 | 28,760 | 61,720 | 140,593 | 557,193 | 23,888 | 35,784 | 95,133 | 269,775 |
| 198990 | 62,272 | 93,790 | 180,718 | 589,964 | 30,754 | 72,058 | 135,246 | 589,964 | 25,478 | 38,374 | 93,553 | 287,260 |
| 19901 | 64,731 | 90,059 | 160,196 | 554,137 | 39,402 | 72,525 | 116,425 | 554,137 | 33,255 | 49,744 | 62,419 | 273,884 |
| 19912 | 69,768 | 95,115 | 172,442 | 557,553 | 44,421 | 75,783 | 129,652 | 557,553 | 38,574 | 52,588 | 67,281 | 265,655 |
| 19923 | 76,319 | 105,333 | 209,611 | 649,042 | 47,304 | 79,264 | 160,785 | 649,042 | 40,842 | 56,369 | 96,319 | 372,766 |
| 19934 | 107,003 | 151,099 | 359,483 | 1,444,041 | 62,906 | 99,004 | 238,976 | 1,444,041 | 53,731 | 75,874 | 168,457 | 458,739 |
| 19945 | 118,486 | 170,320 | 382,798 | 1,565,554 | 66,653 | 117,200 | 251,380 | 1,565,554 | 56,456 | 81,153 | 183,753 | 550,353 |
| 19956 | 144,270 | 219,979 | 585,834 | 3,407,454 | 68,560 | 128,516 | 272,320 | 3,407,454 | 56,467 | 86,100 | 229,296 | 584,003 |
| 19967 | 163,179 | 241,932 | 576,276 | 2,877,818 | 84,426 | 158,346 | 320,549 | 2,877,818 | 70,470 | 104,479 | 258,770 | 646,416 |
| 19978 | 221,152 | 347,131 | 900,157 | 3,884,501 | 95,172 | 208,875 | 568,564 | 3,884,501 | 84,379 | 142,068 | 284,146 | 1,332,547 |
| 19989 | 213,587 | 335,257 | 869,367 | 3,751,628 | 91,916 | 201,730 | 549,115 | 3,751,628 | 81,493 | 137,208 | 274,427 | 1,286,966 |
| 199900 | 229,679 | 360,517 | 934,868 | 4,034,289 | 98,842 | 216,929 | 590,488 | 4,034,289 | 87,633 | 147,546 | 295,103 | 1,383,930 |
| $\begin{array}{ll} 1999 & 2000 / \\ 1987 & 1988 \end{array}$ | 4.92 | 5.12 | 6.48 | 11.09 | 4.31 | 4.17 | 4.93 | 11.09 | 4.61 | 5.15 | 3.57 | 6.99 |
| $\begin{array}{ll} 1999 & 2000 / \\ 1981 & 1982 \end{array}$ | 16.08 | 18.47 | 23.70 | 40.80 | 10.92 | 14.92 | 17.98 | 40.80 | 11.16 | 13.75 | 13.33 | 23.70 |

[^13]Table 1A. 4 Top fractiles incomes levels in India, 19562000 (incomes are expressed in 19992000 Rs)

|  | P99 100 <br> (1) | $\begin{gathered} \text { P99.5 } 100 \\ (2) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 100 \\ (3) \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (4) \end{gathered}$ | P99 99.5 <br> (5) | $\begin{gathered} \text { P99.5 } 99.9 \\ (6) \end{gathered}$ | P99.9 99.99 <br> (7) | $\begin{gathered} \text { P99.99 } 100 \\ (8) \end{gathered}$ | P99 <br> (9) | P99.5 <br> (10) | $\begin{aligned} & \text { P99.9 } \\ & (11) \end{aligned}$ | $\begin{gathered} \text { P99.99 } \\ (12) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19223 | 122,910 | 192,683 | 546,875 | 1,936,560 | 53,137 | 104,135 | 392,466 | 1,936,560 | 43,187 | 67,703 | 196,616 | 992,889 |
| 19234 | 131,411 | 205,482 | 579,514 | 2,031,062 | 57,339 | 111,974 | 418,231 | 2,031,062 | 46,660 | 72,960 | 212,388 | 1,049,438 |
| 19245 | 126,489 | 202,718 | 593,187 | 2,026,708 | 50,260 | 105,100 | 433,907 | 2,026,708 | 40,418 | 64,776 | 218,933 | 1,076,202 |
| 19256 | 127,935 | 199,292 | 556,802 | 1,901,954 | 56,577 | 109,915 | 407,340 | 1,901,954 | 46,123 | 71,849 | 208,070 | 1,013,797 |
| 19267 | 128,807 | 200,266 | 556,751 | 1,868,081 | 57,347 | 111,145 | 411,048 | 1,868,081 | 46,794 | 72,755 | 209,518 | 1,008,879 |
| 19278 | 134,385 | 209,670 | 587,414 | 1,995,698 | 59,100 | 115,234 | 430,938 | 1,995,698 | 48,144 | 75,115 | 218,556 | 1,051,673 |
| 19289 | 138,580 | 215,825 | 601,998 | 2,009,664 | 61,335 | 119,281 | 445,590 | 2,009,664 | 50,007 | 77,882 | 225,368 | 1,074,248 |
| 192930 | 132,428 | 207,813 | 585,191 | 1,925,509 | 57,043 | 113,469 | 436,267 | 1,925,509 | 46,340 | 72,719 | 225,597 | 1,016,873 |
| 19301 | 140,361 | 220,369 | 617,759 | 2,037,199 | 60,353 | 121,021 | 460,044 | 2,037,199 | 49,017 | 76,957 | 240,383 | 1,093,858 |
| 19312 | 154,955 | 241,581 | 667,932 | 2,175,730 | 68,328 | 134,993 | 500,399 | 2,175,730 | 55,681 | 86,809 | 266,162 | 1,177,900 |
| 19323 | 157,712 | 247,031 | 686,559 | 2,271,200 | 68,394 | 137,149 | 510,487 | 2,271,200 | 55,610 | 87,104 | 272,212 | 1,225,000 |
| 19334 | 166,932 | 260,756 | 721,065 | 2,391,820 | 73,107 | 145,679 | 535,426 | 2,391,820 | 59,520 | 92,974 | 287,832 | 1,285,637 |
| 19345 | 167,082 | 260,466 | 720,213 | 2,387,050 | 73,699 | 145,529 | 535,009 | 2,387,050 | 60,060 | 93,628 | 285,219 | 1,294,945 |
| 19356 | 164,687 | 255,078 | 697,219 | 2,297,251 | 74,297 | 144,542 | 519,438 | 2,297,251 | 60,735 | 94,070 | 280,043 | 1,239,607 |
| 19367 | 151,631 | 235,970 | 655,127 | 2,252,387 | 67,292 | 131,181 | 477,654 | 2,252,387 | 54,884 | 85,412 | 245,883 | 1,197,089 |
| 19378 | 148,892 | 231,678 | 642,592 | 2,226,384 | 66,106 | 128,949 | 466,615 | 2,226,384 | 53,920 | 83,901 | 252,716 | 1,156,923 |
| 19389 | 173,215 | 268,336 | 741,412 | 2,814,694 | 78,095 | 150,067 | 511,047 | 2,814,694 | 63,834 | 98,889 | 273,230 | 1,343,655 |
| 193940 | 164,521 | 260,192 | 754,270 | 2,944,786 | 68,849 | 136,672 | 510,880 | 2,944,786 | 55,722 | 88,125 | 255,466 | 1,350,059 |
| 19401 | 173,427 | 275,647 | 808,376 | 3,204,867 | 71,206 | 142,465 | 542,099 | 3,204,867 | 57,491 | 91,378 | 267,978 | 1,491,271 |
| 19412 | 159,775 | 257,287 | 777,757 | 3,104,547 | 62,264 | 127,170 | 519,224 | 3,104,547 | 49,956 | 80,445 | 243,178 | 1,452,725 |
| 19423 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19434 | 96,004 | 152,928 | 450,786 | 1,738,684 | 39,081 | 78,463 | 307,687 | 1,738,684 | 31,520 | 50,209 | 148,002 | 801,118 |
| 19445 | 104,648 | 165,450 | 479,268 | 1,877,826 | 43,846 | 86,995 | 323,872 | 1,877,826 | 35,492 | 56,113 | 162,545 | 846,577 |
| 19456 | 104,408 | 164,944 | 476,948 | 1,858,192 | 43,873 | 86,942 | 323,477 | 1,858,192 | 35,526 | 56,124 | 162,288 | 815,215 |
| 19467 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19478 | 112,744 | 181,587 | 545,546 | 2,279,373 | 43,900 | 90,597 | 352,899 | 2,279,373 | 35,220 | 56,725 | 189,770 | 898,298 |
| 19489 | 104,605 | 164,164 | 467,452 | 1,899,455 | 45,046 | 88,342 | 308,341 | 1,899,455 | 36,593 | 57,427 | 163,522 | 791,334 |
| 194950 | 107,422 | 167,402 | 468,952 | 1,875,089 | 47,441 | 92,015 | 312,715 | 1,875,089 | 38,668 | 60,259 | 168,805 | 786,447 |
| 19501 | 119,331 | 184,435 | 497,543 | 1,842,237 | 54,226 | 106,158 | 348,133 | 1,842,237 | 44,373 | 68,582 | 201,893 | 845,350 |

Table 1A. 4 Continued

|  | $\begin{aligned} & \text { P99 } 100 \\ & (1) \end{aligned}$ | $\begin{gathered} \text { P99.5 } 100 \\ (2) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 100 \\ \text { (3) } \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (4) \end{gathered}$ | P99 99.5 <br> (5) | $\begin{gathered} \text { P99.5 } 99.9 \\ (6) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 99.99 \\ (7) \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (8) \end{gathered}$ | P99 <br> (9) | $\begin{gathered} \text { P99.5 } \\ (10) \end{gathered}$ | $\begin{gathered} \text { P99.9 } \\ (11) \end{gathered}$ | $\begin{gathered} \text { P99.99 } \\ (12) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19512 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19523 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19534 | 113,292 | 178,893 | 488,882 | 1,756,642 | 47,692 | 101,395 | 348,020 | 1,756,642 | 39,392 | 63,500 | 203,731 | 801,960 |
| 19545 | 148,643 | 231,051 | 621,223 | 2,199,240 | 66,236 | 133,508 | 445,888 | 2,199,240 | 54,053 | 84,020 | 263,408 | 1,027,295 |
| 19556 | 148,677 | 230,099 | 610,483 | 2,079,083 | 67,254 | 135,003 | 447,306 | 2,079,083 | 54,999 | 85,119 | 263,421 | 1,001,744 |
| 19567 | 136,799 | 211,042 | 554,473 | 1,812,655 | 62,556 | 125,184 | 414,676 | 1,812,655 | 51,235 | 79,041 | 242,835 | 913,189 |
| 19578 | 136,402 | 209,868 | 542,669 | 1,720,548 | 62,935 | 126,668 | 411,793 | 1,720,548 | 51,611 | 79,409 | 241,293 | 895,080 |
| 19589 | 134,584 | 206,602 | 527,202 | 1,615,547 | 62,566 | 126,452 | 406,275 | 1,615,547 | 51,365 | 78,851 | 238,936 | 868,131 |
| 195960 | 136,597 | 208,638 | 527,159 | 1,594,948 | 64,555 | 129,008 | 408,515 | 1,594,948 | 53,125 | 81,143 | 241,001 | 860,933 |
| 19601 | 146,287 | 224,429 | 568,479 | 1,742,680 | 68,145 | 138,416 | 438,012 | 1,742,680 | 55,961 | 85,854 | 266,405 | 929,205 |
| 19612 | 145,569 | 222,533 | 552,475 | 1,647,440 | 68,604 | 140,048 | 430,812 | 1,647,440 | 56,434 | 86,271 | 266,397 | 895,797 |
| 19623 | 139,765 | 211,123 | 511,775 | 1,529,248 | 68,407 | 135,959 | 398,723 | 1,529,248 | 56,594 | 85,488 | 252,344 | 827,278 |
| 19634 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19645 | 128,135 | 185,431 | 428,790 | 1,385,308 | 70,838 | 124,591 | 322,510 | 1,385,308 | 59,810 | 86,555 | 232,562 | 724,644 |
| 19656 | 135,767 | 204,546 | 488,125 | 1,510,151 | 66,988 | 133,651 | 374,567 | 1,510,151 | 55,489 | 83,600 | 243,656 | 788,331 |
| 19667 | 123,420 | 187,197 | 452,729 | 1,436,632 | 59,643 | 120,815 | 343,407 | 1,436,632 | 49,247 | 74,695 | 222,345 | 719,448 |
| 19678 | 126,301 | 191,630 | 442,383 | 1,298,115 | 60,972 | 128,942 | 347,301 | 1,298,115 | 50,336 | 76,373 | 226,640 | 693,130 |
| 19689 | 125,339 | 189,342 | 437,790 | 1,270,021 | 61,335 | 127,230 | 345,319 | 1,270,021 | 49,238 | 81,173 | 229,643 | 669,861 |
| 196970 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19701 | 133,250 | 205,891 | 456,000 | 1,364,580 | 60,609 | 143,364 | 355,047 | 1,364,580 | 49,603 | 76,644 | 240,724 | 706,786 |
| 19712 | 113,206 | 168,787 | 378,713 | 1,176,400 | 57,625 | 116,306 | 290,082 | 1,176,400 | 47,970 | 71,523 | 195,913 | 556,435 |
| 19723 |  |  |  |  |  |  |  |  |  |  |  |  |
| 19734 | 97,336 | 145,308 | 307,579 | 885,240 | 49,363 | 104,740 | 243,394 | 885,240 | 41,068 | 61,309 | 166,301 | 455,223 |
| 19745 | 82,114 | 117,722 | 248,394 | 667,966 | 46,506 | 85,054 | 201,775 | 667,966 | 39,440 | 56,543 | 139,950 | 378,584 |
| 19756 | 87,073 | 127,477 | 270,914 | 750,224 | 46,669 | 91,618 | 217,657 | 750,224 | 39,188 | 57,372 | 147,141 | 418,549 |
| 19767 | 99,674 | 142,482 | 296,462 | 844,032 | 56,867 | 103,987 | 235,621 | 844,032 | 46,344 | 72,303 | 164,673 | 438,315 |
| 19778 | 87,730 | 129,169 | 269,348 | 730,014 | 46,292 | 94,125 | 218,163 | 730,014 | 36,796 | 66,887 | 153,102 | 396,949 |
| 19789 | 87,661 | 125,544 | 261,775 | 744,088 | 49,777 | 91,487 | 208,184 | 744,088 | 40,759 | 63,708 | 145,406 | 386,413 |
| 197980 | 80,881 | 112,364 | 239,150 | 659,410 | 49,398 | 80,667 | 192,454 | 659,410 | 42,518 | 59,068 | 129,163 | 379,299 |
| 19801 | 72,505 | 100,185 | 211,133 | 599,435 | 44,826 | 72,448 | 167,988 | 599,435 | 38,681 | 53,448 | 114,482 | 334,973 |


| 19812 | 67,188 | 91,799 | 185,535 | 465,055 | 42,578 | 68,365 | 154,477 | 465,055 | 36,936 | 50,465 | 104,106 | 274,624 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19823 | 68,885 | 95,571 | 203,592 | 524,714 | 42,199 | 68,566 | 167,912 | 524,714 | 36,345 | 50,425 | 109,084 | 328,208 |
| 19834 | 101,455 | 136,501 | 287,572 | 748,364 | 66,409 | 98,734 | 236,373 | 748,364 | 58,024 | 78,068 | 147,755 | 405,441 |
| 1984 | 100,724 | 141,099 | 296,573 | 785,804 | 60,348 | 102,230 | 242,214 | 785,804 | 51,741 | 72,482 | 166,800 | 417,519 |
| 19856 | 134,205 | 194,867 | 398,668 | 1,076,154 | 73,544 | 143,917 | 323,391 | 1,076,154 | 61,997 | 90,020 | 232,635 | 491,264 |
| 19867 | 140,409 | 209,094 | 424,429 | 1,133,425 | 71,724 | 155,261 | 345,651 | 1,133,425 | 59,741 | 88,966 | 246,474 | 567,202 |
| 19878 | 134,502 | 202,918 | 415,461 | 1,048,166 | 66,087 | 149,782 | 345,160 | 1,048,166 | 54,707 | 82,534 | 237,972 | 570,008 |
| 19889 | 150,884 | 226,028 | 479,970 | 1,467,390 | 75,739 | 162,543 | 370,256 | 1,467,390 | 62,909 | 94,239 | 250,537 | 710,464 |
| 198990 | 154,481 | 232,669 | 448,314 | 1,463,549 | 76,292 | 178,758 | 335,510 | 1,463,549 | 63,205 | 95,196 | 232,080 | 712,617 |
| 19901 | 147,360 | 205,021 | 364,688 | 1,261,498 | 89,699 | 165,104 | 265,042 | 1,261,498 | 75,706 | 113,242 | 142,097 | 623,500 |
| 19912 | 139,481 | 190,155 | 344,748 | 1,114,667 | 88,807 | 151,507 | 259,202 | 1,114,667 | 77,118 | 105,136 | 134,510 | 531,102 |
| 19923 | 136,488 | 188,378 | 374,868 | 1,160,748 | 84,598 | 141,756 | 287,547 | 1,160,748 | 73,041 | 100,810 | 172,256 | 666,654 |
| 19934 | 179,917 | 254,063 | 604,444 | 2,428,050 | 105,772 | 166,467 | 401,821 | 2,428,050 | 90,345 | 127,577 | 283,248 | 771,336 |
| 19945 | 180,767 | 259,846 | 584,010 | 2,388,467 | 101,688 | 178,805 | 383,515 | 2,388,467 | 86,131 | 123,810 | 280,340 | 839,639 |
| 19956 | 199,685 | 304,476 | 810,860 | 4,716,301 | 94,895 | 177,880 | 376,922 | 4,716,301 | 78,157 | 119,172 | 317,371 | 808,326 |
| 19967 | 207,253 | 307,276 | 731,925 | 3,655,103 | 107,229 | 201,114 | 407,127 | 3,655,103 | 89,503 | 132,699 | 328,662 | 821,010 |
| 19978 | 262,106 | 411,415 | 1,066,853 | 4,603,855 | 112,796 | 247,556 | 673,853 | 4,603,855 | 100,005 | 168,376 | 336,766 | 1,579,315 |
| 19989 | 223,561 | 350,913 | 909,965 | 3,926,823 | 96,209 | 211,151 | 574,758 | 3,926,823 | 85,298 | 143,615 | 287,242 | 1,347,065 |
| 199900 | 229,679 | 360,517 | 934,868 | 4,034,289 | 98,842 | 216,929 | 590,488 | 4,034,289 | 87,633 | 147,546 | 295,103 | 1,383,930 |
| $\begin{array}{ll} 1999 & 2000 / \\ 1987 & 1988 \end{array}$ | 1.71 | 1.78 | 2.25 | 3.85 | 1.50 | 1.45 | 1.71 | 3.85 | 1.60 | 1.79 | 1.24 | 2.43 |
| $\begin{aligned} & 19992000 / \\ & 1981 \quad 1982 \end{aligned}$ | 3.42 | 3.93 | 5.04 | 8.67 | 2.32 | 3.17 | 3.82 | 8.67 | 2.37 | 2.92 | 2.83 | 5.04 |

Source: Authors' computations using income tax returns data (All India Income Tax Statistics, 1922 2000).

Table 1A. 5 Top fractiles income shares in India, 19562000 (income shares are expressed as $\%$ of total income)

|  |  | P99 100 P99.5 100 P99.9 100 P99.99 100 P99 99.5 P99.5 99.9 P99.9 99.99 P99.99 100 |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
| 1922 | 3 | 12.72 | 9.97 | 5.66 | 2.00 | 2.75 | 4.31 | 3.66 | 2.00 |
| 1923 | 4 | 13.39 | 10.47 | 5.91 | 2.07 | 2.92 | 4.56 | 3.84 | 2.07 |
| 1924 | 5 | 11.46 | 9.18 | 5.37 | 1.84 | 2.28 | 3.81 | 3.54 | 1.84 |
| 1925 | 6 | 12.38 | 9.64 | 5.39 | 1.84 | 2.74 | 4.25 | 3.55 | 1.84 |
| 1926 | 7 | 12.89 | 10.02 | 5.57 | 1.87 | 2.87 | 4.45 | 3.70 | 1.87 |
| 1927 | 8 | 13.32 | 10.39 | 5.82 | 1.98 | 2.93 | 4.57 | 3.84 | 1.98 |
| 1928 | 9 | 13.62 | 10.61 | 5.92 | 1.98 | 3.01 | 4.69 | 3.94 | 1.98 |
| 1929 | 30 | 13.07 | 10.25 | 5.77 | 1.90 | 2.81 | 4.48 | 3.87 | 1.90 |
| 1930 | 1 | 14.53 | 11.40 | 6.39 | 2.11 | 3.12 | 5.01 | 4.28 | 2.11 |
| 1931 | 2 | 16.09 | 12.55 | 6.94 | 2.26 | 3.55 | 5.61 | 4.68 | 2.26 |
| 1932 | 3 | 16.14 | 12.64 | 7.03 | 2.32 | 3.50 | 5.62 | 4.70 | 2.32 |
| 1933 | 4 | 17.11 | 13.37 | 7.39 | 2.45 | 3.75 | 5.97 | 4.94 | 2.45 |
| 1934 | 5 | 16.90 | 13.17 | 7.28 | 2.41 | 3.73 | 5.89 | 4.87 | 2.41 |
| 1935 | 6 | 17.33 | 13.42 | 7.34 | 2.42 | 3.91 | 6.08 | 4.92 | 2.42 |
| 1936 | 7 | 15.58 | 12.13 | 6.73 | 2.31 | 3.46 | 5.39 | 4.42 | 2.31 |
| 1937 | 8 | 15.54 | 12.09 | 6.71 | 2.32 | 3.45 | 5.38 | 4.38 | 2.32 |
| 1938 | 9 | 17.82 | 13.80 | 7.63 | 2.90 | 4.02 | 6.17 | 4.73 | 2.90 |
| 1939 | 40 | 16.11 | 12.74 | 7.38 | 2.88 | 3.37 | 5.35 | 4.50 | 2.88 |
| 1940 | 1 | 16.15 | 12.83 | 7.53 | 2.98 | 3.32 | 5.31 | 4.54 | 2.98 |
| 1941 | 2 | 14.06 | 11.32 | 6.85 | 2.73 | 2.74 | 4.48 | 4.11 | 2.73 |
| 19423 |  |  |  |  |  |  |  |  |  |
| 1943 | 4 | 10.32 | 8.22 | 4.84 | 1.87 | 2.10 | 3.37 | 2.98 | 1.87 |
| 1944 | 5 | 11.13 | 8.80 | 5.10 | 2.00 | 2.33 | 3.70 | 3.10 | 2.00 |
| 1945 | 6 | 11.41 | 9.01 | 5.21 | 2.03 | 2.40 | 3.80 | 3.18 | 2.03 |
| 19467 |  |  |  |  |  |  |  |  |  |
| 1947 | 8 | 11.23 | 9.05 | 5.44 | 2.27 | 2.19 | 3.61 | 3.16 | 2.27 |
| 1948 | 9 | 11.84 | 9.29 | 5.29 | 2.15 | 2.55 | 4.00 | 3.14 | 2.15 |
| 1949 | 50 | 12.00 | 9.35 | 5.24 | 2.10 | 2.65 | 4.11 | 3.14 | 2.10 |
| 1950 | 1 | 13.42 | 10.37 | 5.60 | 2.07 | 3.05 | 4.78 | 3.52 | 2.07 |
| 19512 |  |  |  |  |  |  |  |  |  |
| 19523 |  |  |  |  |  |  |  |  |  |
| 1953 | 4 | 11.92 | 9.41 | 5.15 | 1.85 | 2.51 | 4.27 | 3.30 | 1.85 |
| 1954 | 5 | 13.58 | 10.55 | 5.68 | 2.01 | 3.03 | 4.88 | 3.67 | 2.01 |
| 1955 | 6 | 14.41 | 11.15 | 5.92 | 2.01 | 3.26 | 5.23 | 3.90 | 2.01 |
| 1956 | 7 | 12.77 | 9.85 | 5.18 | 1.69 | 2.92 | 4.67 | 3.48 | 1.69 |
| 1957 | 8 | 13.34 | 10.26 | 5.31 | 1.68 | 3.08 | 4.95 | 3.62 | 1.68 |
| 1958 | 9 | 12.56 | 9.64 | 4.92 | 1.51 | 2.92 | 4.72 | 3.41 | 1.51 |
| 1959 | 60 | 12.36 | 9.44 | 4.77 | 1.44 | 2.92 | 4.67 | 3.33 | 1.44 |
| 1960 | 1 | 12.31 | 9.45 | 4.79 | 1.47 | 2.87 | 4.66 | 3.32 | 1.47 |
| 1961 | 2 | 12.15 | 9.29 | 4.61 | 1.38 | 2.86 | 4.68 | 3.24 | 1.38 |
| 1962 | 3 | 11.58 | 8.75 | 4.24 | 1.27 | 2.83 | 4.51 | 2.97 | 1.27 |
| 19634 |  |  |  |  |  |  |  |  |  |
| 1964 | 5 | 9.65 | 6.99 | 3.23 | 1.04 | 2.67 | 3.75 | 2.19 | 1.04 |
| 1965 | 6 | 10.92 | 8.23 | 3.93 | 1.21 | 2.69 | 4.30 | 2.71 | 1.21 |
| 1966 | 7 | 9.99 | 7.57 | 3.66 | 1.16 | 2.41 | 3.91 | 2.50 | 1.16 |
| 1967 | 8 | 10.01 | 7.59 | 3.51 | 1.03 | 2.42 | 4.09 | 2.48 | 1.03 |
| 1968 | 9 | 9.95 | 7.52 | 3.48 | 1.01 | 2.43 | 4.04 | 2.47 | 1.01 |
| 196970 |  |  |  |  |  |  |  |  |  |

Abhijit Banerjee and Thomas Piketty

| 1970 | 1 | 10.02 | 7.74 | 3.43 | 1.03 | 2.28 | 4.31 | 2.40 | 1.03 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1971 | 2 | 8.47 | 6.31 | 2.83 | 0.88 | 2.16 | 3.48 | 1.95 | 0.88 |
| 1972 | 3 |  |  |  |  |  |  |  |  |
| 1973 | 4 | 7.02 | 5.24 | 2.22 | 0.64 | 1.78 | 3.02 | 1.58 | 0.64 |
| 1974 | 5 | 6.65 | 4.77 | 2.01 | 0.54 | 1.88 | 2.76 | 1.47 | 0.54 |
| 1975 | 6 | 7.24 | 5.30 | 2.25 | 0.62 | 1.94 | 3.05 | 1.63 | 0.62 |
| 1976 | 7 | 7.27 | 5.19 | 2.16 | 0.62 | 2.07 | 3.03 | 1.55 | 0.62 |
| 1977 | 8 | 6.18 | 4.55 | 1.90 | 0.51 | 1.63 | 2.65 | 1.38 | 0.51 |
| 1978 | 9 | 6.05 | 4.33 | 1.81 | 0.51 | 1.72 | 2.52 | 1.29 | 0.51 |
| 1979 | 80 | 5.61 | 3.90 | 1.66 | 0.46 | 1.71 | 2.24 | 1.20 | 0.46 |
| 1980 | 1 | 4.78 | 3.30 | 1.39 | 0.40 | 1.48 | 1.91 | 1.00 | 0.40 |
| 1981 | 2 | 4.39 | 3.00 | 1.21 | 0.30 | 1.39 | 1.79 | 0.91 | 0.30 |
| 1982 | 3 | 4.51 | 3.13 | 1.33 | 0.34 | 1.38 | 1.79 | 0.99 | 0.34 |
| 1983 | 4 | 6.46 | 4.35 | 1.83 | 0.48 | 2.11 | 2.51 | 1.35 | 0.48 |
| 1984 | 5 | 6.39 | 4.48 | 1.88 | 0.50 | 1.91 | 2.59 | 1.38 | 0.50 |
| 1985 | 6 | 8.24 | 5.98 | 2.45 | 0.66 | 2.26 | 3.54 | 1.79 | 0.66 |
| 1986 | 7 | 8.64 | 6.43 | 2.61 | 0.70 | 2.21 | 3.82 | 1.91 | 0.70 |
| 1987 | 8 | 8.12 | 6.13 | 2.51 | 0.63 | 2.00 | 3.62 | 1.88 | 0.63 |
| 1988 | 9 | 8.52 | 6.38 | 2.71 | 0.83 | 2.14 | 3.67 | 1.88 | 0.83 |
| 1989 | 90 | 8.19 | 6.17 | 2.38 | 0.78 | 2.02 | 3.79 | 1.60 | 0.78 |
| 1990 | 1 | 7.42 | 5.16 | 1.84 | 0.64 | 2.26 | 3.33 | 1.20 | 0.64 |
| 1991 | 2 | 7.12 | 4.85 | 1.76 | 0.57 | 2.27 | 3.09 | 1.19 | 0.57 |
| 1992 | 3 | 6.96 | 4.81 | 1.91 | 0.59 | 2.16 | 2.89 | 1.32 | 0.59 |
| 1993 | 4 | 8.53 | 6.02 | 2.86 | 1.15 | 2.51 | 3.16 | 1.71 | 1.15 |
| 1994 | 5 | 8.09 | 5.82 | 2.61 | 1.07 | 2.28 | 3.20 | 1.55 | 1.07 |
| 1995 | 6 | 8.67 | 6.61 | 3.52 | 2.05 | 2.06 | 3.09 | 1.47 | 2.05 |
| 1996 | 7 | 8.72 | 6.47 | 3.08 | 1.54 | 2.26 | 3.39 | 1.54 | 1.54 |
| 1997 | 8 | 10.70 | 8.40 | 4.36 | 1.88 | 2.30 | 4.04 | 2.48 | 1.88 |
| 1998 | 9 | 8.95 | 7.02 | 3.64 | 1.57 | 1.93 | 3.38 | 2.07 | 1.57 |
| 1999 | 00 | 8.95 | 7.02 | 3.64 | 1.57 | 1.93 | 3.38 | 2.07 | 1.57 |

[^14]Table 1A. 6 Top fractile wage levels in India, 19872000 (wages are expressed in current Rs)

|  | $\begin{gathered} \text { P99 } 100 \\ \text { (1) } \end{gathered}$ | $\begin{aligned} & \text { P99.5 } 100 \\ & \text { (2) } \end{aligned}$ | $\underset{(3)}{\mathrm{P} 99.9} 100$ | P99.99 100 <br> (4) | P99 99.5 <br> (5) | P99.5 99.9 <br> (6) | P99.9 $(7)$ | $\begin{gathered} \text { P99.99 } 100 \\ (8) \end{gathered}$ | P99 <br> (9) | $\begin{gathered} \text { P99.5 } \\ (10) \end{gathered}$ | P99.9 <br> (11) | $\begin{gathered} \text { P99.99 } \\ (12) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19878 | 22,860 | 32,470 | 43,262 | 80,942 | 13,250 | 29,772 | 39,075 | 80,942 | 11,238 | 15,962 | 25,901 | 47,310 |
| 19889 | 28,051 | 39,563 | 54,670 | 123,950 | 16,539 | 35,786 | 46,972 | 123,950 | 14,135 | 19,936 | 29,827 | 64,502 |
| 198990 | 29,933 | 42,456 | 58,197 | 133,071 | 17,411 | 38,521 | 49,877 | 133,071 | 14,841 | 21,049 | 31,240 | 68,131 |
| 19901 | 32,718 | 44,935 | 58,380 | 131,744 | 20,500 | 41,574 | 50,229 | 131,744 | 17,740 | 24,365 | 26,363 | 57,958 |
| 19912 | 36,956 | 48,712 | 63,142 | 158,045 | 25,199 | 45,104 | 52,597 | 158,045 | 22,230 | 29,301 | 26,922 | 71,978 |
| 19923 | 43,215 | 51,650 | 70,759 | 178,481 | 34,780 | 46,872 | 58,790 | 178,481 | 32,099 | 38,364 | 30,171 | 84,610 |
| 19934 | 42,126 | 63,482 | 144,468 | 487,871 | 20,770 | 43,236 | 106,312 | 487,871 | 17,203 | 25,924 | 72,935 | 151,514 |
| 19945 | 56,211 | 80,710 | 155,368 | 452,012 | 31,712 | 62,045 | 122,408 | 452,012 | 26,875 | 38,588 | 85,933 | 146,952 |
| 19956 | 64,379 | 93,558 | 180,337 | 532,192 | 35,199 | 71,864 | 141,242 | 532,192 | 29,660 | 43,104 | 97,135 | 164,540 |
| 19967 | 74,035 | 107,592 | 207,387 | 612,021 | 40,479 | 82,643 | 162,428 | 612,021 | 34,109 | 49,569 | 111,705 | 189,221 |
| 19978 | 81,439 | 118,351 | 228,126 | 673,223 | 44,526 | 90,908 | 178,671 | 673,223 | 37,520 | 54,526 | 122,876 | 208,143 |
| 19989 | 110,663 | 178,710 | 262,134 | 794,328 | 42,616 | 157,853 | 203,001 | 794,328 | 34,145 | 55,141 | 72,901 | 166,757 |
| 199900 | 118,962 | 192,113 | 281,794 | 853,903 | 45,812 | 169,693 | 218,226 | 853,903 | 36,706 | 59,277 | 78,369 | 179,263 |
| 1999 2000/ | 5.20 | 5.92 | 6.51 | 10.55 | 3.46 | 5.70 | 5.58 | 10.55 | 3.27 | 3.71 | 3.03 | 3.79 |
| 19871988 |  |  |  |  |  |  |  |  |  |  |  |  |

[^15]Table 1A. 7 Top fractile wage levels in India, 19872000 (wages are expressed in 19992000 Rs)

|  | $\begin{gathered} \text { P99 } 100 \\ (1) \end{gathered}$ | $\begin{gathered} \text { P99.5 } 100 \\ (2) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 100 \\ \text { (3) } \end{gathered}$ | $\begin{gathered} \text { P99.99 } 100 \\ (4) \end{gathered}$ | P99 99.5 <br> (5) | $\begin{gathered} \text { P99.5 } 99.9 \\ (6) \end{gathered}$ | $\begin{gathered} \text { P99.9 } 99.99 \\ (7) \end{gathered}$ | $\begin{array}{r} \text { P99.99 } 100 \\ (8) \end{array}$ | P99 <br> (9) | $\begin{gathered} \text { P99.5 } \\ (10) \end{gathered}$ | $\begin{gathered} \text { P99.9 } \\ (11) \end{gathered}$ | $\begin{gathered} \text { P99.99 } \\ (12) \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 19878 | 65,853 | 93,537 | 124,624 | 233,169 | 38,169 | 85,765 | 112,563 | 233,169 | 32,373 | 45,982 | 74,612 | 136,286 |
| 19889 | 73,874 | 104,190 | 143,974 | 326,427 | 43,557 | 94,244 | 123,702 | 326,427 | 37,226 | 52,503 | 78,552 | 169,868 |
| 198990 | 74,257 | 105,322 | 144,371 | 330,114 | 43,192 | 95,560 | 123,733 | 330,114 | 36,816 | 52,218 | 77,498 | 169,014 |
| 19901 | 74,482 | 102,295 | 132,904 | 299,915 | 46,669 | 94,643 | 114,347 | 299,915 | 40,386 | 55,467 | 60,017 | 131,943 |
| 19912 | 73,882 | 97,385 | 126,234 | 315,965 | 50,379 | 90,173 | 105,152 | 315,965 | 44,442 | 58,579 | 53,822 | 143,899 |
| 19923 | 77,286 | 92,370 | 126,546 | 319,196 | 62,201 | 83,826 | 105,140 | 319,196 | 57,406 | 68,610 | 53,959 | 151,316 |
| 19934 | 70,832 | 106,741 | 242,912 | 820,320 | 34,923 | 72,698 | 178,755 | 820,320 | 28,925 | 43,589 | 122,635 | 254,760 |
| 19945 | 85,757 | 123,134 | 237,035 | 689,606 | 48,381 | 94,659 | 186,750 | 689,606 | 41,001 | 58,871 | 131,102 | 224,195 |
| 19956 | 89,107 | 129,495 | 249,606 | 736,614 | 48,719 | 99,467 | 195,494 | 736,614 | 41,053 | 59,660 | 134,446 | 227,741 |
| 19967 | 94,032 | 136,652 | 263,401 | 777,325 | 51,412 | 104,965 | 206,299 | 777,325 | 43,322 | 62,958 | 141,877 | 240,328 |
| 19978 | 96,520 | 140,268 | 270,371 | 797,895 | 52,772 | 107,742 | 211,758 | 797,895 | 44,468 | 64,623 | 145,631 | 246,688 |
| 19989 | 115,830 | 187,055 | 274,375 | 831,422 | 44,606 | 165,225 | 212,481 | 831,422 | 35,740 | 57,716 | 76,306 | 174,544 |
| 199900 | 118,962 | 192,113 | 281,794 | 853,903 | 45,812 | 169,693 | 218,226 | 853,903 | 36,706 | 59,277 | 78,369 | 179,263 |
| 1999 2000/ | 1.81 | 2.05 | 2.26 | 3.66 | 1.20 | 1.98 | 1.94 | 3.66 | 1.13 | 1.29 | 1.05 | 1.32 |
| 19871988 |  |  |  |  |  |  |  |  |  |  |  |  |

Source: Authors' computations using income tax returns data (All India Income Tax Statistics, 1922 2000).

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    ${ }^{1}$ Especially tax policy.

[^1]:    ${ }^{2}$ See, e.g., Szekely and Hilgert (1999), who look at a large number of Latin American household surveys and find that the ten largest incomes reported in surveys are often not very much larger than the salary of an average manager in the given country at the time of survey. For a systematic comparison of survey and national accounts aggregates in developing countries, see Ravallion (2001).
    ${ }^{3}$ See, e.g., Datt (1999), Ravallion (2000), World Bank (2000), Sundaram and Tendulkar (2001). Recently released data from the 19992000 NSS round have revealed that NSS growth was larger than expected during the 1990s and that poverty rates did decline over this period, contrarily to what most observers believed on the basis of pre 19992000 NSS rounds (see Deaton and Drèze 2002 and Deaton 2003a, 2003b). However the overall NSS NAS growth gap still appears to be substantial, even after this correction (see Table 1.2 below), and this substantial gap remains to be explained. The existence of a discrepancy between NSS and NAS statistics was already a subject of enquiry in India during the 1980s (see, e.g., Minhas 1988 and Minhas and Kansal 1990), but the gap observed during the 1990s appears to be substantially larger than during previous decades. For a broader, international perspective on the survey vs. national accounts debate, see Deaton (2003c).
    ${ }^{4}$ Sundaram and Tendulkar (2001) find that the NSS NAS gap is particularly important for commodities that are more heavily consumed by higher income groups, thereby providing indirect evidence for the explanation based on rising inequality.

[^2]:    ${ }^{5}$ See Bhalla (2002) for a negative view of the NSS approach. For more balanced discussions of the relative merits of survey and national accounts aggregates in developing countries, see Ravallion (2001) and Deaton (2003c).

    6 All references to the relevant AIITS publications are given in Table 1A.1. Financial years run from 1 April to 31 March in India (1922 3 refers to the period running from 1 April 1922 to 31 March 1923, etc., and 19992000 to the period running from 1 April 1999 to 31 March 2000). Note also that AIITS publications always refer to assessment years (AY), i.e. years during which incomes are assessed, while we always refer to income years (IY) (IY AY 1). For instance, AIITS 19234 contains the data on IY 1922 3, etc., and AIITS 19992000 contains the data on IY 1998 9. AIITS 20001 (IY 1999 2000) was not yet available when we revised this paper, and our IY 19992000 figures for top incomes were obtained by inflating the 19989 figures by the nominal 1999 2000/1998 9 per tax unit national income growth rate. This approximation probably leads us to underestimate top income growth. We did this because there was no large NSS round for 19989 so it was easier to make comparison with 19992000 as the end point.

    7 Throughout the chapter, 'tax units' should be thought of as individuals (all of our estimates have been obtained by summing up tax returns filed by individuals and those filed by 'Hindu undivided families' (HUF); the latter make less than $5 \%$ of the total in the 1990s, down from about $20 \%$ in the inter war period). The total, theoretical number of tax units was set to be equal to $40 \%$ of the total population of India throughout the period (see Table 1A.1, col. (2)). This represents a rough estimate of the potential 'positive income population' of India: this is lower than India's adult population (the 15 year and over population makes up about $605 \%$ of total population since the 1950 s), but is very close to India's labour force (the labour force consists of about $405 \%$ of total population since the 1950s).

[^3]:    8 The Pareto law is given by $1 \mathrm{~F}(\mathrm{y})(\mathrm{k} / \mathrm{y})^{\mathrm{a}}$ (where $1 \mathrm{~F}(\mathrm{y})$ is the fraction of the population with income above $y$, and $\mathrm{k}>0$ and $\mathrm{a}>1$ are the structural Pareto parameters). For a recent use of Pareto extrapolation techniques with similar tax return data, see Piketty (2003) and Piketty and Saez (2003). See also Atkinson (2007; chapter 4 in Volume I) and Dell (2007; chapter 9 in Volume I).
    ${ }^{9}$ Our average income series (see Table 1A.2, col. (7)) was set to be equal to $70 \%$ of national income per tax unit (the $30 \%$ deduction is assumed to represent the fraction of national income that goes to undistributed profits, non taxable income, etc.; the national income series was taken from Sivasu bramonian 2000, from whom we also took our population series). We also report in Table 1A. 1 other income aggregates based on GDP and NAS household consumption (both taken from the World Bank's WDI database, from which we also extracted our CPI series, as well as the PPP exchange rate used in Table 1.1) and on NSS household consumption (computed from Datt 1997, 1999, for the 195698 series and Deaton and Drèze (2002: n. 24) for the corrected 1999 2000/1993 4 growth rate).

[^4]:    Source: Table 1A. 2 and Table 1A.3, row 1999-00. Amounts in $\$$ have been computed by applying the average 1999-2000 market exchange rate (that is, $1 \$=43.06 \mathrm{Rs}$ ) and the average 1999-2000 PPP conversion factor (that is, $1 \$=8.65 \mathrm{Rs}$ ) to amounts in current 1999-2000 Rs.

[^5]:    15 See Nagaraj (2000: figure 7) and Tendulkar (2003: table 14).

[^6]:    ${ }^{16}$ Note that unlike in France, the USA, or the UK, top income shares were actually rising in India during the Great Depression of the 1930s. Top Indian nominal incomes do decline during the 1930s,

[^7]:    but less rapidly than the national income and wage series computed by Sivasubramonian (2000). This probably reflects the fact that India had a very different position from France, the USA, or the UK in the world division of labour during the 1930s (Indian entrepreneurs might have benefited from the drop in world manufacturing output and raw prices).
    ${ }^{17}$ Unfortunately AIITS publications do not provide a complete set of tabulations broken down by income sources, so we were not able to study the point in greater detail.
    ${ }^{18}$ Top shares series recently constructed for Germany by Dell (2007; chapter 9 in Volume I) confirm that France is fairly representative of continental Europe. The UK appears to be intermediate between continental Europe and the USA: there was a rise in top shares since the early 1980s, but it was much less pronounced than in the USA (see Atkinson 2007; chapter 4 in Volume I).

[^8]:    19 This reflected mostly income relabelling or changes in timing of exercise for bonuses or stock options.

[^9]:    ${ }^{20}$ See, e.g., Goolsbee (2000) and Piketty and Saez (2003).
    ${ }^{21}$ See, e.g., Kochar (2003).

[^10]:    22 All our computations on public sector wages were made using the 1994 and 1997 (post Fifth Commission) central government salary scales published in the 'Report of the 5th Central Pay Commission' ('Distribution of Filled Posts in Central Government and Union Territories in Different Scales of Pay, as on 31.3.1994', New Delhi: Government of India Press, 1997) and in the 'Gazette of India' (Special Issue, The First Schedule Part A, 'Revised scales for posts carrying present scales in Group A, B, C and D', New Delhi: Government of India Press, 1997). In 1994, the central government scale ranked from scale 1 ( $9,000 \mathrm{Rs} /$ month) to scale 62 ( $750 \mathrm{Rs} /$ month), and all employees in scales 1 to 46 (approximately 500,000 employees) were subject to tax (i.e. had annual incomes over 28,000 Rs, which was the base exemption level in 1994, excluding all special deductions). In 1997, the (revised) scale ranked from scale S 34 ( $30,000 \mathrm{Rs} /$ month, previously scale 1) to scale S 1 ( $2,550 \mathrm{Rs} / \mathrm{month}$, previously scale 62), and all employees in (revised) scales S 34 to S 3 (i.e. approximately 3.2 million employees) were subject to tax (i.e. had annual incomes over 40,000 Rs, which was the base exemption level in 1997, excluding all special deductions). Note that these numbers only include central government employees strictly speaking, and that they would need to be scaled up substantially in order to take other government employees into account. In 1994, there were about 4 million central government employees, and the total number of workers employed by state governments,

[^11]:    quasi government bodies, and local bodies was about 3.5 times as large. In principle the Fifth Pay Commission revised scales also applied to these non central government employees. Unfortunately we were unable to find the salary distribution for these employees (such a document apparently only exists for the central government).
    ${ }^{23}$ Such a view would be consistent with the fact the ceiling on private sector executive compen sation was repealed as early as 1991.
    ${ }^{24}$ Intermediate NSS surveys were conducted between the two large surveys of 19878 and 19934 and between the two large surveys of 19934 and 19992000 but these were based on smaller samples, and are generally considered as less reliable. Note that we used the 19992000 per capita consumption estimates reported by Deaton and Drèze (2002), who implement a procedure for correcting the data for changes in the recall period (all surveys until 19934 were conducted with a thirty day recall period, but the NSS has experimented with seven day recall periods since then).
    ${ }^{25}$ See the references above. Real growth during the 1990s would be somewhat higher if one was to use the GDP deflator instead of the CPI, but the NSS NAS gap would obviously not change.

[^12]:    ${ }^{26}$ According to our estimates (computed with $70 \%$ of national income as the income denomin ator), the top percentile income share was $8.12 \%$ in 19878 (see Table 1A.5).
    $270.0812 \times(1.71 / 1.191) 3.55$.
    28 3.55/(1.40/1.19 1) 20.1. This is in a sense a lower bound, since we are using the 19878 top percentile share as our baseline for this computation, and the share was higher for later years.

[^13]:    Source: Authors' computations using income tax returns data (All India Income Tax Statistics, 1922 2000)

[^14]:    Source: Authors' computations using income tax returns data (All India Income Tax Statistics, 1922 2000).

[^15]:    Source: Authors' computations using income tax returns data (All India Income Tax Statistics, 1922 2000).

