# Income Inequality and Progressive Income Taxation in China and India, 1986-2010 \*

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<u>Abstract</u> : This paper evaluates the prospects for income tax reform in China during the coming decade (with a comparison to India), and argues that such reforms should rank high on the policy agenda in these two countries. Due to high average income growth and sharply rising top income shares during the 1990s, progressive income taxation is about to raise non-trivial tax revenues in China and India and to become an important political object. According to our projections, the income tax should raise at least 4% of Chinese GDP in 2010 (versus less than 1% in 2000 and 0,1% in 1990), in spite of the 20% nominal rise in the exemption threshold that took effect in 2004. The fact that progressive income taxation is becoming an important policy tool has important consequences for China's ability to finance social spendings and to keep under control the rise in income inequality associated to globalization and growth. Due to faster income growth and to a higher fraction of wage earners in the labor force, the prospects for income tax development look better in China than in India. This potential is however limited by the fact that Chinese top wage-earners are currently severely under-taxed relatively to top non-wage income earners.

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### 1. Introduction

Current debates about policy reform in LDCs generally focus on improving the delivery of social services, the design of market-friendly economic institutions, the effectiveness of poverty reduction programmes, or the role of trade and market liberalization, and very rarely deal explicitly with tax reform and the need to develop modern income tax systems in those countries.<sup>1</sup>

This is unfortunate for at least three reasons. First, poor countries tend to rely excessively on highly distortionary tax instruments such as taxes on trade or indirect taxes on specific consumption goods. The gradual shift towards modern and transparent income and payroll tax systems is generally regarded as an important, efficiency-enhancing aspect of the modernization process.

Next, many LDCs need to raise more tax revenues in order to properly finance education and health investment, and income taxation can be part of the solution, especially in an international context characterized by sharp downward pressures on tariffs and various indirect taxes. In countries like China and India, in spite of very rapid growth, tax revenues are currently stagnating around 10%-15% of GDP, which is probably far too little. There is no example of a country in the West that has been able to develop a proper education and health system with total tax revenues around 10-15% of GDP. Improving the efficiency of social services delivery is probably a good idea, but might well be illusory in case those services are not properly funded.

Finally, many LDCs have witnessed a sharp rise in income inequality during the recent period. Progressive taxation is probably one of the least distortionary policy tools available to keep the rise in inequality under control and to redistribute a bit more equally the gains from growth (it is less distortionary than more radical policy tools such as nationalization, minimum wages or autarky). In India, the fact that many people did not benefit from the 5%-6% annual growth rates advertized by the government and felt left out of "shining India" probably played an important role in the recent electoral defeat of the BJP.

In this paper, we choose to focus on the case of progressive income taxation in China. Although a progressive individual income tax system has been in place in China since 1980, it has received very little attention so far, probably because the

<sup>&</sup>lt;sup>1</sup> See, e.g., the list of topics covered in World Development Reports over the past few years.

fraction of the population with income above the exemption threshold was negligible until the 1990s (less than 1%). Using annual, 1986-2001 tabulations from urban household income surveys collected by China's State Statistical Bureau (SSB), we compute series on levels and shares of top incomes in China over this period, as well as series on theoretical numbers of taxpayers and total income tax receipts (based on actual tax law).<sup>2</sup> We also make projections about the evolution of the number of taxpayers and total receipts over the 2002-2010, assuming that constant income trends and income tax schedules.

One additional motivation for computing theoretical numbers of taxpayers and tax receipts is the fact that there is widespread presumption that official Chinese income tax law is not being applied very rigorously by tax authorities. In particular, many observers seem to believe that tax authorities make deals with large firms and autonomous regions or cities whereby the latter offer a lump-sum payment to tax authorities and their employees and residents are not subject to the official income tax schedule. Although at this stage there does not seem to exist detailed tabulations of income tax returns by income brackets or tax liability in China (such tabulations exist in most countries with an income tax system), we were able to use aggregate 1996-2001 income tax receipts series (broken down by wage income, business income and capital income for 2000-2001) and compare them with our theoretical series. It turns out that although there is some evidence that the law is not fully applied, actual receipts and theoretical receipts are reasonably close.

We were also able to compare our Chinese findings with similar series for India. Contrarily to its Chinese counterpart, the Indian tax administration has been compiling detailed tabulations of income tax returns every year since the creation of a progressive income tax in India (1922). Indian tax returns tabulations were recently exploited by Banerjee and Piketty (2003) to study the long run evolution of top income shares in India, and we use their results for the 1986-2001 sub-period as a comparison point for our Chinese series.

<sup>&</sup>lt;sup>2</sup> A number of economists have used SSB's household surveys and have documented the rise in income inequality that took place in China during the 1990s (see e.g. Chen and Wang (2001), Eckaus, Lester and Qian (2003) and Ravallion and Chen (2001)). However these works generally focus on poverty: they generally do not deal specifically with the top of the distribution and (most importantly) do not look at the issue of progressive income taxation. Chen and Wang (2001) show that income dispersion has increased at the top of the distribution (which is fully consistent with our findings) but do not mention the issue of income taxation. For more details on the SSB tabulations used in this study (these tabulations were designed explicitly to focus on top income brackets and to facilitate tax simulations), see section 2 below.

Our main conclusions are the following. First, our general conclusion is that progressive income taxation is about to become an important economic and politcal object in China and India, and that income tax reform should rank high on the policy agenda in these two countries. Due to high average income growth and sharply rising top income shares during the 1990s, progressive income taxation is starting to hit non-negligible fraction of the population in both countries (as more and more workers pass the exemption threshold, following what happened in Western countries half-acentury ago) and to raise non-trivial tax revenues. According to our projections, the income tax should raise at least 4% of Chinese GDP in 2010 (versus less than 1% in 2000 and 0,1% in 1990), in spite of the 20% nominal rise in the exemption threshold that took effect in 2004. The fact that progressive income taxation is becoming an important policy tool has important consequences for China's ability to finance social spendings and to keep under control the rise in income inequality associated to globalization and growth. Due to faster income growth, to lower bracket indexation and to a higher fraction of wage earners in the labor force, the prospects for income tax development look better in China than in India. This potential is however limited by the fact that Chinese top wage-earners are currently severely under-taxed relatively to top non-wage income earners.

The rest of the paper is organized as follows. Section 2 briefly describes the SSB data used in this paper. In Section 3, we present our findings for the evolution of top income shares in China, and compare them to the Indian series of Banerjee and Piketty (2003). The results of our income tax simulations are presented and analyzed in section 4. Section 5 offers some concluding comments.

# 2. Data and Methodology

The Chinese data used in this paper comes from the urban household income surveys collected by China's State Statistical Bureau (SSB). These surveys are designed so as to representative of urban China. Between 13 000 and 17 000 households are being surveyed each year (see appendix Table A1). The micro-files for these surveys are unfortunately not available for all years,<sup>3</sup> and we asked SSB to

<sup>&</sup>lt;sup>3</sup> The micro-files for urban household surveys are available for researchers for years 1988 and 1995 only (see Eckaus, Lester and Qian (2003)).

provide us with annual, 1986-2001 tabulations based on the micro-files. We asked for two series of tabulations: household tabulations and individual tabulations.<sup>4</sup> Household tabulations report for a large number of income brackets (and in particular a large number of top income brackets) the number of households whose total household income falls into that bracket, their average total income and household size, as well as their average income broken down by income sources (wage income, business income, capital income and transfer income). Individual tabulations report for a large number of income brackets (and in particular a large number of top income brackets) the number of individuals whose individual income falls into that bracket, their average age, years of education, income and household size, as well as their average income broken down by income sources. In practice, some forms of income cannot be properly attributed to a specific individual within the household (this is particularly true for transfer income and capital income), so that the total income aggregates reported in household tabulations are larger than in individual tabulations, and various adjustments are necessary when one uses the latter (see appendix Tables A1 and A2). However the important advantage of individual tabulations is that China's income tax applies to individual income (rather than household income).

We used standard Pareto interpolation techniques to approximate the form of the Chinese household and individual distribution of income, and we then used these structural parameters to compute top fractiles incomes and to make income tax simulations.<sup>5</sup> The Chinese data appears to be very well approximated by a Pareto distribution (for any given year, Pareto coefficients are extremely stable within the top decile), although there is some presumption that top incomes are severely underestimated in the survey data (more on this below).<sup>6</sup>

We did not attempt to use similar tabulations from rural household surveys, but given that our focus is on top incomes and progressive income taxation this should

<sup>&</sup>lt;sup>4</sup> We also asked for "age tabulations" (reporting for each age cell the relevant number of individuals, their average years of education and income, as well as their average income broken down by income sources).We did not use these tables in the current version of this paper.

<sup>&</sup>lt;sup>5</sup> For recent use of Pareto interpolation techniques, see e.g. Piketty (2003) and Piketty and Saez (2003).

<sup>&</sup>lt;sup>6</sup> The Pareto coefficients, as defined by the ratio between average income above a given threshold and the threshold (the definition of a Pareto distribution is that this ratio does not depend on the threshold), appear to be extremely low in China (around 1.2 in the late 1980s, up to around 1.4 in the late 1990s and early 2000s), much lower than in any country for which we have seen similar data. In the 1990s, similarly defined Pareto coefficients are around 1.7-1.8 in France and 2.3-2.4 in the U.S. A higher Pareto coefficient means a fatter upper tail of the distribution (a coefficient equal to 1 means that there is nobody above the given threshold, i.e. the distribution is truncated) and generally implies higer top income shares.

not be too much of a problem: average rural income was in 2001 more than 3 times smaller than average urban income,<sup>7</sup> so that there are probably very few rural households and individuals in the national top decile, and even less so within the top incomes subject to progressive income taxation (agricultural income is exempt from the income tax and is being taxed separately).

We did not use any new Indian data in this research. All our series regarding India are borrowed from Barnerjee and Piketty (2003), who used Indian income tax returns tabulations published in "All-India Income Tax Statistics" brochures (annually available since 1922) to estimate top income levels and national accounts to compute the average income denominator. Top income shares estimates based upon income tax returns are likely to be higher than estimates based on survey data (as the latter generally underestimates top incomes), but there is no obvious reason why the trends should not be comparable. Note also that the standard household surveys used by economists working on India (NSS surveys) can hardly be used to compute top income shares, as these are mostly expenditure surveys: except for particular years, and contrarily to SSB surveys, NSS surveys contain no systematic information on incomes.<sup>8</sup>

# 3. Top Income Shares in China and India, 1986-2001

Did income inequality in China increase as much as in India during the 1990s? Before we look at our top income shares series, it is useful to recall one important difference between Chinese and Indian incomes during the past 15 to 20 years. While real per capita GDP increased by almost 160% in China between 1986 and 2001 (6,4% per year), it increased by slighty more than 60% in India (3,4% per year) (see Figure 1). According to the best available PPP conversion factors, real per capita GDP was virtually identical in China and India in 1986 (less than 20% larger in China), and it is almost twice as large in China as in India by 2001.<sup>9</sup> Note that the growth gap is even larger if we look at survey data rather than national accounts. While total 1986-2001 income growth is virtually the same in Chinese national

<sup>&</sup>lt;sup>7</sup> See appendix Table A0.

<sup>&</sup>lt;sup>8</sup> This important difference between China's SSB and India's NSS surveys has probably a lot to do with the fact that the Indian population includes a much higher fraction of independant workers with ill-defined income (including in the urban sector) and a much smaller fraction of formal wage-earners than China (more on this below).

<sup>&</sup>lt;sup>9</sup> See appendix Table A0.

accounts and household surveys, there exists a well-known "growth paradox" in Indian statistics: real GDP per capita (as measured by Indian national accounts) has increased by 64% between 1986 and 2001 (3,4% per year), but real consumption per capita (as measured by NSS surveys) has increased by only 24% (1,4% per year).<sup>10</sup> According to official Chinese statistics, there exists no such growth paradox in China: real GDP per capita (as measured by Chinese national accounts) has increased by 154% between 1986-2001 (6,4% per year), and real per capita income (as measured by SSB surveys) has increased by 140% (6,0% per year).<sup>11</sup>

Insert Figure 1: Real per capita GDP in China and India, 1986-2001

If we now look at the evolution of the top decile income shares in China over the same period, we find that income inequality has increased at a very high rate during the 1986-2001 period. According to our urban survey estimates, the top decile income share rose from about 17% in 1986 to almost 26% in 2001, i.e. by more than 50% (see Figure 2). The levels are probably underestimated (they are even lower than in the most egalitarian developed countries, e.g. Scandinavia), but the upward trend seems large and robust.

Insert Figure 2: The top 10% income share in China, 1986-2001

As we move up in the income hierarchy, the trend gets even bigger. For instance, the top 1% income share has almost doubled between 1986 and 2001, from slightly more than 2,5% in 1986 to over 5% in 2001 (see Figure 3). If we compare these results with those obtained for India,<sup>12</sup> we find that the levels are much lower in China

<sup>&</sup>lt;sup>10</sup> See appendix Table A0. This "Indian growth paradox" has attracted a lot of attention from economists. Here we use as an end point the latest NSS figures corrected by Deaton (2003) on the basis of the 1999-2000 NSS round (we adjusted upwards this figure to make it comparable to other estimates available for 2001). Deaton's corrections did reduce the size of the gap between national accounts and NSS figures (until these corrections, there was basically no growth at all in the NSS during the 1990s), but the gap is still substantial. Banerjee and Piketty (2003) argue that the gap can be partly explained by the rise in top incomes in India during the 1990s (top incomes are not properly recorded in the NSS).

<sup>&</sup>lt;sup>11</sup> See appendix Table A0. Note that rural per capita income has increased much less rapidly than urban per capita income and national per capita GDP (both increased at approximately the same rate), but that this was almost exactly compensated by the rise in the urban population share.

<sup>&</sup>lt;sup>12</sup> Banerjee and Piketty (2003) were only able to compute the income shares for the top percentile (and above) for India (and not the top decile), due to the low proportion of individuals subject to the income tax.

than in India (the Chinese 2001 top 1% share is lower than the Indian 1986 top 1% share), which again suggests that survey-based measures underestimate top incomes, but that the trend is substantially larger in China. The top 1% income share has increased by more than 90% in China between 1986 and 2001, and by less than 50% in India (see Figure 4).

Insert Figure 3: The top 1% income share in China and India, 1986-2001 Insert Figure 4: The top 1% income share in China and India, 1986-2001 (1986=100)

These results can be used not only to evaluate the prospects for progressive income taxation in China and India (see Section 4 below), but also to shed some new light on the on-going debate about globalization and the rise in inequality. Although our data does 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 in both countries 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)), which would seem to imply more gradual shifts in the distribution. To the extent that the skill distribution is more unequal in India than in China (e.g. litteracy rates are substantially higher in China), the skill-based theory would also seem to imply that income inequality should have risen more rapidly in India than in China, whereas we find the opposite (as far as the top 1% income share is concerned).

## 4. Progressive Income Taxation in China and India, 1986-2010

We now come to the issue of progressive income taxation. Table 1 describes the evolution of Chinese income tax schedules during the 1980-2004 period.<sup>13</sup> The striking fact is that China's income tax law has remained basically unchanged since

<sup>&</sup>lt;sup>13</sup> Keeping track of all the changes in China's tax law is not an easy business, so ufortunately we cannot exclude the possibility that we missed some important changes. However to the best of our knowledge all parameters reported on Table 1 are accurate.

its creation in 1980. The only major change is that the nominal exemption threshold for wage earners has been raised from 9600 yuans per year in fiscal years 1980-1998 to 12000 yuans in 1999-2003 and 14400 yuans since 2004. Also note that the Chinese income tax systems treats wage income in a much more favourable manner than business income and capital income:<sup>14</sup> while wage-earners are subject to the income tax only if their annual wage is high enough, all business and capital income is subject to the tax.

Insert Table 1: Progressive Income Tax Schedules in China, 1980-2004

In contrast to the Chinese income tax, the Indian income tax (which is much older, since it was created in 1922) has always treated all income sources equally: the progressive tax schedules apply to total individual income, irrespective of where the income comes from. Another important difference is that the tax schedule has been changed almost constantly in India during the 1986-2004 period, resulting into a general decline in tax rates and a continuous increase in the exemption threshold (see Table 2).

Insert Table 2: Progressive Income Tax Schedules in India, 1986-2004

From our perspective, the first important implication of these differing evolutions is that the exemption threshold (for wage earners) has increased less than inflation (and much less than nominal incomes) in China since 1986, while it increased approximately at the same rate as inflation in India, resulting into a massive increase in the proportion of the population subject to the income tax in China and a more modest increase in India (see Figures 5, 6 and 7). In China, the exemption threshold in 1986 (9600 yuans) was about 7 times larger than average individual urban income (1394 yuans), so that less than 0,1% of all wage earners were subject to the the income tax. By 2001, the exemption threshold (12000 yuans) was less than 15% larger than average individual urban income (10787 yuans), so that 32,2% of all wage earners were subject to tax according to our estimates. In India, the exemption threshold has always been set around 2-3 times average income during the 1986-

<sup>&</sup>lt;sup>14</sup> A similar system existed in France when the income tax was put in place in 1914, and it was abolished in 1959.

2001 period, and it is only because of the rise in top income shares that the proportion of the population subject ot the income tax has increased somewhat during this period (from 0,7% in 1986 to 3,8% in 2001). This is an important rise from an historical perspective (the proportion of the population subject to the Indian income tax had been relatively stable around 0,5%-1% between the 1920s and the early 1990s), but this is clearly much less than in China: due to lower bracket indexation and higher real income growth, the Chinese income tax has become a mass tax during the 1990s, while it remains an elite tax in India. Assuming that China's 2004 income tax law applies until 2010 (i.e. there is no further rise in the exemption threshold after 2004) and the income trends (both in average income and top income shares) continue after 2001 at the same rate as during the 1996-2001 period, our projections indicate that almost two thirds of Chinese urban wage earners (over 200 millions individuals) will be subject to the income tax by 2010 (see Figure 8).

Insert Figure 5: Income tax exemption threshold, average income and P99 threshold in China, 1986-2001

Insert Figure 6: Income tax exemption threshold, average income and P99 threshold in India, 1986-2001

Insert Figure 7: The fraction of individuals subject to the income tax in China and India, 1986-2001

Insert Figure 8: Projected fraction of individuals subject to the income tax in China, 1986-2010

One important question, however, is whether the Chinese income tax law is really being applied in practice. I.e. do all individuals who are supposed to be subject to the income tax according to the law really pay the income tax? Many observers in and outside China seem to believe that tax authorities make deals with large firms and autonomous regions or cities whereby the latter offer a lump-sum payment to tax authorities and their employees and residents are not subject to the official income tax schedule. Unfortunately, there does not seem to exist any reliable statistics on the number of income tax taxpayers in China (let alone tabulations of taxpayers by income brackets, similar to what is being published in India and other countries), so we cannot compare our theoretical numbers of taxpayers with the actual numbers.<sup>15</sup> However we can use data on aggregate income tax revenues and compare it to theoretical tax revenues in order to evaluate how strictly the law is being applied. We compiled from China Tax Yearbooks aggregate income tax revenues series for 1996-2001, broken down by income source (wage income, business income, capital income and other income) for 2000-2001.<sup>16</sup> This very useful decomposition of tax revenues does not seem to be available prior to 2000. The comparison between actual tax revenues and theoretical tax revenues is given on Table 3.

Insert Table 3: Simulated vs Actual Income Tax Revenues in China, 1996-2001

The first conclusion emerging from Table 3 is that actual income tax tax revenues are reasonnably in line with theoretical tax revenues (as a first-order approximation), thereby suggesting that income tax collection in China is somewhat less chaotic and arbitrary than what many observers tend to assume. In 1996, actual income tax receipts made 0,28% of GDP, and theoretical receipts 0,33% of GDP; in 2001, actual income tax receipts made 1,02% of GDP, and theoretical receipts 0,66% of GDP (cf. Table 3). If we look separately at receipts by income source for 2001, we find theoretical receipts on capital income were equal to 40% of actual receipts (this reflects the fact capital income in under-reported in surveys), and that the corresponding figure was 64% for business income (business income is also under-reported in surveys, but less severely than capital income) and 96% for wage income. The latter figure could be interpreted as saying that wage income is fully reported in surveys, and that tax law if fully applied (all wage earners who are supposed to pay the income tax do pay it).

<sup>&</sup>lt;sup>15</sup> Estimates according to which there were approximately 10-11 millions income tax taxpayers in China in 1997-1998 have been published in the China Tax Yearbooks, but we were unable to find out what these numbers exactly refer to and how they were constructed. If they were true, these numbers would be substantially smaller than our theoretical estimates (about 25% of 200 millions wage-earners subject to income tax in 1997-1998, i.e. approximately 50 million taxpayers; see appendix Tables A2 and A6), which would seem to suggest that the law is not being applied properly. However the missing taxpayers might well have very low average tax liabilities, so it is hard to know how these figures should be interpreted (if the Chinese tax authorities were able to produce reliable estimates of the total number of taxpayers, they should also be able to break down this total number by income bracket or tax liability).

<sup>&</sup>lt;sup>16</sup> « Other income » includes small items such as « author's remuneration » and « property transferring income » (these income types are not properly recorded in income surveys, and we did not attempt to replicate the corresponding tax revenues).

Such an interpretation might well be misleading, however. There are good reasons to believe that top wages are under-reported in SSB household surveys, in which case the fact that theoretical receipts (based upon under-reported top wages) and actual receipts coïncide merely reflects the fact that collection rate is less than 100%. If we adjust top survey wages so as to obtain reasonable Pareto coefficients for the distribution,<sup>17</sup> we find that theoretical receipts for wage income are equal to 216% of actual income, i.e. the tax collection rate for wage income is less than 50%. Although the problem is probably less severe than what many observers tend to assume, these illustrative (and highly uncertain) computations suggest that there does exist a tax collection problem in China.

It is also interesting to note that actual receipts have increased at a significantly higher rate than theoretical receipts during the 1996-2001 period. One interpretation could be that tax collection has improved. Another interpretation is that household surveys underestimate not only the levels of top incomes, but also the upward trend in top income shares. In order to get a sense of the likely magnitude of this effect, we computed by how much the upward trend in top income shares needs to be upscaled in order to ensure that the trend theoretical receipts does match the trend in actual receipts. We find that the 2001 top 1% share should be upscaled by about 35% relatively to the top 1% share in 1996, which is substantial (see Figure 9).

Insert Figure 9: Using 1996-2001 Tax Receipts to Re-Evaluate the Rise of Top Income Shares in China

Although there is some uncertainty about the quality of tax collection and survey data, actual and theoretical tax receipts both show that income tax receipts (as a fraction of GDP) have increased substantially during the 1990s. The contrast with India is particularly striking: while Indian income tax revenues have stagnated around 0,5%-0,6% of GDP during the 1990s, Chinese income tax revenues have been multiplied by more than 10, from less than 0,1% of GDP in the early 1990s to over 1% of GDP in 2001 (see Figure 10). The stagnation of Indian tax revenues reflects the fact that tax rates have been continuously reduced (see Table 2) and that the

<sup>&</sup>lt;sup>17</sup> In order to obtain Pareto coefficients in line with what we observe in other countries, SSB coefficients (and therefore top decile wages) need to be raised by about 50% (see above). This is of course purely illustrative, as we have no reason to believe that the true Chinese Pareto coefficient is the same in the West.

proportion of individuals subject to tax has increased only modestly (see Figure 7). The substantial rise in Chinese tax revenues reflects the facts that tax rates have remained the same (see Table 1) and that the proportion of individuals subject to tax has increased enormously (see Figure 7).

Insert Figure 10: Income tax revenues as a fraction of GDP in China and India, 1986-2001

Note that Chinese tax revenues would be substantially larger in the absence of a preferential tax treatment given to top wage earners over top business and capital income earners. We computed that if the business income tax schedule was applied to wage income as well, then Chinese income tax revenues in 2001 would be more than 3% of GDP (instead of 1%). Although this preferential tax treatment of wage income might raise serious political problems in the medium run (as independent workers feel more and more disadvantaged as compared to top wage earners in large firms), as it did in other countries where similar preferential tax treatment was applied (such as France), removing this legal provision is however unnecessary to ensure the growth of Chinese income tax revenues. Because of the phenomenal growth in average incomes (and even more so of top incomes), income tax revenues should make much more than 1% of GDP in 2010. According to our projections, which are based on the assumption that tax law will not be changed after 2004 and that income trends will remain the same as in the 1996-2001 period, income tax revenues in China should make about 4,3% in GDP by 2010 (see Figure 11).<sup>18</sup> The assumption that the exemption threshold will not be raised after 2004 does not seem unreasonnable, given that the 2004 increase in the exemption threshold was fairly high (from 12000 to 14400 yuans, i.e. 20%) and that inflation is currently very close to 0%. Moreover our projected tax revenues estimates should be viewed as a lower bound, first because we assumed that the survey-based trends and levels in top shares were not under-estimated (in particular we did not make the adjustment reported on Figure 9), and next because we assumed that there would be no improvment in tax collection (1996-2001 show that there has been some improvment

<sup>&</sup>lt;sup>18</sup> We did not make similar projections for India, first because it depends a lot on how tax law will evolve (if exemption levels are increased as much as during the 1990s, then revenues won't increase very much), next because available income data is poorer than in China (we do not know much about incomes immediately below the current exemption threshold).

in tax collection and/or an under-estimated rise in survey-based top income shares). In other words, there are good reasons to believe that the income tax will raise at least 4% of GDP in China by 2010.

Insert Figure 11: Projected income tax revenues (as a fraction of GDP) in China, 1986-2010

If this happens, then China will have gone through its fiscal revolution. As Table 4 illustrates, moving from an elite income tax raising less than 1% of GDP to a mass income tax raising around 4-5% of GDP is exactly the kind of process through which Western countries during the 1914-1950 period (when their income levels were similar to current Chinese levels). Although Indian income tax revenues will probably increase during the coming years, the prospects for India look less good, both because of lower income growth and higher bracket indexation. One reason why India faces more difficulties than China in making its income tax a mass tax might also be that the proportion of formal wage earners in the labor force is ridiculously low in India.<sup>19</sup>

Insert Table 4: Income tax development in historical perspective

# 5. Concluding comments

One might be tempted to conclude from this paper that the high growth performance of the Chinese economy is going to solve every problem, including the fiscal modernization problem, and that there is nothing else to worry about. We indeed found that due to high income growth and low bracket indexation, income tax revenues are currently booming in China, and that they should exceed 4% of GDP by 2010 (assuming constant tax law and income trends). The prospects look much less promising in India, where the income tax will probably will probably remain an elite tax (rather than a mass tax) in the coming years.

The main conclusion that we draw from this paper, however, is that there is a lot policy makers and economists can do in order to improve the functionnings and

<sup>&</sup>lt;sup>19</sup> See e.g. Tendulkar (2003).

implications of progressive income taxation in countries like China and India. Given that income taxation is about to become something big, it is urgent to put income tax reform at the top of the policy agenda. For instance, China will not be able to underindex its exemption threshold forever, and the preferential tax treatment of wage earners will need to be addressed at some point. Next, there is clearly a problem with income tax collection in China (although our estimates suggest that it is less massive than what it sometimes assumed). At the very least, China's tax authorities should start compiling and publishing detailed income tax tabulations by income bracket and tax liability (which every other country in the world with an income tax actually does), so that the tax collection problem can be properly evaluated and adressed.

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Figure 1 : Real per capita GDP in China and India, 1986-2001 (1986 = 100)

Source: Authors' computations using national accounts (see Table A0, col. (5) and (16))





Source: Authors' computations using urban household surveys tabulations (Table A5, col. (1), ind.income)



Figure 3 : The top 1% income share in China and India, 1986-2001

India: auhors' computations using income tax returns data (see Banerjee and Piketty (2003, Table A3, col.(1)))



Figure 4 : The top 1% income share in China and India, 1986-2001 (1986 = 100)

Source: China: authors' computations using urban household surveys tabulations (Table A5, col. (4), ind. distribution) ; India: authors' computations using income tax returns data (see Banerjee and Piketty (2003, Table A3, col.(1)))



Figure 5: Income tax exemption threshold, average income and P99 threshold in China, 1986-2001 (current yuans)

Source: Exemption threshold: Chinese tax law (see Table 1); average income and P99 threshold: authors' computations using urban household surveys tabulations (Table A1, col. (10), and Table A4, col. (15))



Figure 6: Income tax exemption threshold, average income and P99 threshold in India, 1986-2001 (current Rs)

Source: Exemption threshold: Indian tax law (see Table 2); average income and P99 threshold: authors' computations using national accounts and income tax returns data (see Banerjee and Piketty (2003, Table A0, col. (7), and Table A1, col. (9))



Figure 7: The fraction of individuals subject to the income tax in China and India, 1986-2001

Source: China: authors' computations using urban household surveys tabulations (Table A6, col. (1)); India: authors' computations using tax returns data (see Banerjee and Piketty (2003, Table A0, col.(4)))



Figure 8: Projected fraction of individuals subject to the income tax in China, 1986-2010 (assumptions: tax law unchanged after 2004; post-2001 income trends similar to 1996-2001)

Source: China: authors' computations using urban household surveys tabulations (Table A6, col. (1)); India: authors' computations using tax returns data (see Banerjee and Piketty (2003, Table A0, col.(4)))



Figure 9 : Using 1996-2001 Tax Receipts to Re-Evaluate the Rise of Top Income Shares in China

Source: Authors' computations using urban household surveys tabulations and actual income tax receipts



Figure 10: Income tax revenues as a fraction of GDP in China and India, 1986-2001

Source: China: 1996-2001: actual tax receipts from China Tax Yearbook (see Table 3); 1986-1995: adjusted simulated tax receipts (see Table A6, col.(15)) ; India: actual tax receipts from All-India Income Tax Statistics (see Banerjee and Piketty (2003))



Figure 11: Projected income tax revenues (as a fraction of GDP) in China, 1986-2010 (assumptions: tax law unchanged after 2004; post-2001 income trends similar to 1996-2001)

Source: 1996-2001: actual tax receipts from China Tax Yearbook (see Table 3); 1986-1995 and 2002-2010: adjusted simulated tax receipts (see Table A6, col.(15))

		Wage inco	ome				(1000.)
1980-19	98	1999-20	03	2004-		Business incom	ie (1980-)
Brackets of annual income (yuans)	Marginal tax rate	Brackets of annual income (yuans)	Marginal tax rate	Brackets of annual income (yuans)	Marginal tax rate	Brackets of annual income (yuans)	Marginal tax rate
0-9600	0%	0-12000	0%	0-14400	0%	0-5000	5%
9600-15600	5%	12000-18000	5%	14400-20400	5%	5000-10000	10%
15600-33600	10%	18000-36000	10%	20400-38400	10%	10000-30000	15%
33600-69600	15%	36000-72000	15%	38400-74400	15%	30000-50000	20%
69600-249600	20%	72000-252000	20%	74400-254400	20%	50000-	35%
249600-489600	25%	252000-492000	25%	254400-494400	25%		
489600-729600	30%	492000-732000	30%	494400-734400	30%		
729600-969600	35%	732000-972000	35%	734400-974400	35%		
969600-1209600	40%	972000-1212000	40%	974400-1214400	40%		
over 1209600	45%	over 1212000	45%	over 1214400	45%		

Table 1: Progressive Income Tax Schedules in China, 1980-2004

Note : China's income tax applies to individual income (not to household income). The business income schedule applies to "income from production and business operations derived by individual industrialists and merchants" and "income from contracted or leased operation of enterprises and institutions". Most forms of transfer income are exempt from the income tax. Capital income (interest, dividends, royalties, rent, etc.) has always been taxed at a flat 20% rate (with no allowance), although there are some exemptions (interest income on saving deposits and national debt is exempt from income tax). Agricultural income is excluded from the income tax (peasants are subject to a separate, indirect income tax based on average yields). The exemption thresholds for wage earners reported on this table (9600 yuans in 1980-1998, 12000 yuans in 1999-2003, and 14400 yuans since 2004) are those applied in Beijing. The thresholds applied in other regions can be slightly different (e.g. in Shanghai the threshold was 9600 yuans until 1993, 12000 yuans in 1994-1998, and 14400 yuans since 1999).

1986-19	88	1989-19	90	1991		1992-19	93
Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate
0-15000	0%	0-18000	0%	0-18000	0%	0-22000	0%
15000-20000	20%	18000-25000	25%	18000-25000	20%	22000-30000	20%
20000-25000	25%	25000-50000	30%	25000-50000	30%	30000-60000	30%
25000-30000	30%	50000-100000	40%	50000-100000	40%	60000-100000	40%
30000-40000	35%	over 100000	50%	over 100000	50%	over 100000	50%
40000-50000	40%						
50000-70000	45%						
70000-100000	50%						
over 100000	55%						
1994		1995		1996-19	97	1998	
Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate
0-28000	0%	0-30000	0%	0-40000	0%	0-40000	0%
50000-100000	20%	50000-100000	20%	40000-60000	20%	40000-60000	15%
50000-100000	30%	50000-100000	30%	60000-120000	30%	60000-120000	30%
over 100000	40%	over 100000	40%	over 120000	40%	over 120000	40%
1999		2000-					
Brackets of annual income (Rs)	Marginal tax rate	Brackets of annual income (Rs)	Marginal tax rate				
0-40000	0%	0-50000	0%				
40000-60000	10%	50000-60000	10%				
60000-150000	20%	60000-150000	20%				
over 150000	30%	over 150000	30%				

#### Table 2: Progressive Income Tax Schedules in India, 1986-2004

Note : India's income tax applies to individual income, not to household income (except for Hindu Undivided Families). The general principle is that all income sources are subject to the same tax rates (the progressive tax schedule applies to the sum of all individual incomes, whatever the source). There are however special exemptions for particular forms of interest income, transfer income, etc. The tax schedules reported on this table do not include "temporary" tax surcharges (for instance, a 10% tax surcharge has been applied to all incomes above 60000 Rs since 2000, so that the effective top rate is 33% rather than 30%).

#### Table 3: Simulated vs Actual Income Tax Revenues in China, 1996-2001

			Actual income	Tax Revenues		
	Total Receipts	Wage income Receipts	Busines income receipts	Capital income receipts	Other receipts	Total Receipts
		(t	oillions current yuan	ıs)		(% GDP)
1996	19,3					0,28%
1997	26,0					0,35%
1998	33,9					0,43%
1999	41,4					0,51%
2000	66,0	28,3	13,3	19,0	5,5	0,74%
2001	99,6	41,1	16,0	34,8	7,7	1,02%

Actual Income Tax Revenues

		S	Simulated Incom	e Tax Revenue	s	
	Total Receipts	Wage income Receipts	Busines income receipts	Capital income receipts	Other receipts	Total Receipts
		(t	pillions current yuar	is)		(% GDP)
1996	22,2	12,0	2,2	8,0		0,33%
1997	32,0	18,6	3,3	10,0		0,43%
1998	37,6	22,1	4,0	11,4		0,48%
1999	36,5	19,7	4,9	11,9		0,45%
2000	48,5	28,0	8,3	12,2		0,54%
2001	63,7	39,6	10,3	13,8		0,66%
2001b	147,3	88,8	16,0	34,8	7,7	1,52%

#### Ratio Simulated/Actual Income Tax Revenues

	Total Receipts	Wage income Receipts	Busines income receipts	Capital income receipts		
1996	115%					*
1997	123%					
1998	111%					
1999	88%					
2000	73%	99%	63%	64%		
2001	64%	96%	64%	40%		
2001b	148%	216%	100%	100%	100%	

Source: Actual receipts: China Tax Yearbook, various issues (1997-2002); Simulated receipts: authors' computations using urban household surveys tabulations (see Table A6)

Note: Simulated receipts for 1996-2001 have been computed by applying the relevant tax schedule to the individual distribution of wage income, business income and capital income estimated from urban household survey tabulations and reported on Tables A2 and A3. The 2001b estimates have been computed by inflating business, capital and other income so as to matach actual tax receipts, and by inflating survey-based top decile wages by 50%, so as to obtain a realistic Pareto coefficient for the wage distribution.

	GDP/capita (PPP 2001 \$)	Total Tax Revenues (% GDP)	Income Tax Revenue (% GDP)	Income Tax Revenue (% Total Tax Revenue)	% Population Subject to the Income Tax
United States 1914	6 700	8,2%	0,1%	1,2%	0,9%
United States 1950	13 300	20,7%	5,8%	28,0%	85,0%
United States 2000	36 100	31,8%	10,3%	32,4%	95,3%
France 1914	4 500	12,6%	0,1%	0,8%	1,7%
France 1950	7 400	25,5%	1,9%	7,5%	32,1%
France 2000	27 200	46,2%	7,3%	15,8%	90,0%
China 1990	1 800	15,2%	0,1%	0,5%	0,2%
China 1995	3 000	10,3%	0,2%	2,2%	14,5%
China 2001	4 200	15,1%	1,0%	6,8%	32,2%
China 2010	7 300	18,3%	4,2%	23,1%	64,6%
India 1990	1 600	10,1%	0,5%	5,0%	0,9%
India 2000	2 200	9,1%	0,5%	5,5%	2,9%
India 2010	3 000				

Table 4: Income Tax Revenue in Historical Perspective

Source : National accounts and tax statistics. U.S.: see Piketty and Saez (2003). France: see Piketty (2003). China: see this paper (total tax revenues come from China Statistical Yearbook and China Tax Yearbook). India: see Banerjee and Piketty (2003) (total tax revenues come from WDI data base).

						Ch	ina									India			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)
	Population	GDP	CPI		GDP/capita		Urban		Income/cap	ita (SSB house	hold survey)		Population	CPI		GDP/capita		Consumption	/capita (NSS
	(milliona)	(billions cur.	(1096 - 100)	(0015 100000)	(2001	(2001 DDD @)	population	Urban	Rural	Urban	Rural	Total	(millions)	(1096 - 100)	(ourrent Do)	(2001 Da)	(2001 DDD @)	household	d survey)
	(minoris)	yuans)	(1900 - 100)	(cur. yuans)	(2001 yuans)	(2001FFF Ø)	(%)	(cur. yuans)	(cur. yuans)	(2001 yuans)	(2001 yuans)	(2001 yuans)	(minoris)	(1900 - 100)	(current rts)	(2001 1(3)	(2001 ΓΓΓ φ)	(current Rs)	(2001 Rs)
1986	1 075	1 020	100	949	3001	1654	24,5%	927	424	2 932	1 340	1 730	739	100	3 318	11934	1380	1655	5954
1987	1 093	1 196	107	1 094	3228	1780	25,3%	1 016	463	2 996	1 364	1 778	755	106	3 681	12544	1450		
1988	1 110	1 493	127	1 345	3340	1841	25,8%	1 212	545	3 010	1 354	1 781	771	115	4 027	12620	1459	1978	6200
1989	1 127	1 691	151	1 500	3149	1736	26,2%	1 369	602	2 873	1 263	1 685	788	125	4 481	12909	1492	2156	6210
1990	1 143	1 855	155	1 622	3304	1822	26,4%	1 549	686	3 156	1 398	1 862	805	137	5 210	13722	1586	2379	6265
1991	1 158	2 162	161	1 866	3672	2024	26,9%	1 738	709	3 420	1 394	1 940	822	145	5 890	14611	1689	2605	6463
1992	1 172	2 664	171	2 273	4206	2318	27,5%	2 129	784	3 938	1 450	2 134	839	158	6 765	15400	1780	2810	6396
1993	1 185	3 463	196	2 922	4718	2601	28,0%	2 673	922	4 316	1 488	2 279	856	180	7 636	15267	1765	3348	6692
1994	1 199	4 676	243	3 901	5070	2795	28,5%	3 706	1 221	4 816	1 587	2 507	872	201	8 579	15343	1774	3441	6154
1995	1 211	5 848	284	4 828	5367	2959	29,0%	4 459	1 578	4 957	1 754	2 684	891	214	9 643	16215	1875	3936	6618
1996	1 224	6 788	308	5 547	5692	3138	30,5%	4 991	1 926	5 122	1 977	2 935	908	236	11 122	16969	1962	4312	6579
1997	1 236	7 446	317	6 023	6013	3315	31,9%	5 379	2 090	5 369	2 086	3 134	927	260	12 750	17648	2040	4915	6802
1998	1 248	7 835	314	6 280	6322	3485	33,4%	5 754	2 162	5 792	2 177	3 382	943	283	14 443	18344	2121		
1999	1 258	8 191	310	6 512	6649	3666	34,8%	6 183	2 210	6 313	2 257	3 668	959	304	15 804	18731	2165	5518	6540
2000	1 267	8 934	312	7 049	7133	3932	36,2%	6 557	2 253	6 636	2 280	3 858	975	344	18 078	18922	2188		
2001	1 276	9 723	316	7 618	7618	4200	37,7%	7 113	2 366	7 113	2 366	4 154	991	360	19 562	19562	2261	7362	7362
2001/1986	1,19	9,53	3,16	8,03	2,54	2,54	1,54	7,67	5,58	2,43	1,77	2,40	1,34	3,60	5,90	1,64	1,64	4,45	1,24
2001/1000	1,2%	16,2%	8,0%	14,9%	6,4%	6,4%	2,9%	14,6%	12,1%	6,1%	3,9%	6,0%	2,0%	8,9%	12,6%	3,3%	3,3%	10,5%	1,4%
2001/1996	1,04	1,43	1,03	1,37	1,34	1,34	1,24	1,43	1,23	1,39	1,20	1,42	1,09	1,53	1,76	1,15	1,15	1,71	1,12
	0,8%	7,5%	0,5%	6,6%	6,0%	6,0%	4,3%	7,3%	4,2%	6,8%	3,7%	7,2%	1,8%	8,8%	12,0%	2,9%	2,9%	11,3%	2,3%

#### Table A0 : Reference totals for population, GDP and survey income in China and India, 1986-2001

Sources: China: Population and SSB household survey income: China Statistical Yearbook 2002 (SSB); GDP and CPI: World Development Indicators 2002 data base (World Bank); India: see Banerjee and Piketty (2003, Table A0). Incomes expressed in 2001 yuans have been converted into 2001 \$ by applying the 2001 average PPP conversion factor (1\$ = 1,814 yuans) (average 2001 exchange rate: 1\$ = 8,270 yuans). Incomes expressed in 2001 Rs have been converted into 2001 \$ by applying the 2001 exchange rate: 1\$ = 43,16 Rs) (source: WDI).

Note: Chinese data refers to calendar years, whereas Indian data refers to fiscal years (i.e. 1986 refers to 1985-6,..., and 2001 refers to 2000-1). The rows 2001/1996 and 2001/1996 provide interyear ratios and corresponding annual growth rates.

				Household tab		Indi	vidual tabulatio	ns (all individ	uals with p	ositive incon	ne)			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	Sampling	Number of	Average	Average household	Income con	nposition by s	ource (% of to	tal income)	Number of	Average	Income con	nposition by s	ource (% of to	tal income)
	rate (1/)	observations (households)	nousenoid size	income (current yuans)	Wage income	Property income	Transfer income	Business income	(individuals)	(current yuans)	Wage income	Property income	Transfer income	Business income
1986	5 579	12 437	3,8	3 523	83,2%	0,6%	15,4%	0,9%	23 584	1 394	100,0%	0,0%	0,0%	0,0%
1987	5 522	13 189	3,8	3 860	83,3%	0,6%	15,1%	1,0%	24 643	1 464	100,0%	0,0%	0,0%	0,0%
1988	5 785	13 761	3,6	4 363	78,8%	0,6%	19,3%	1,2%	24 054	1 963	88,9%	0,4%	9,6%	1,1%
1989	6 217	13 199	3,6	4 927	77,0%	0,9%	21,0%	1,2%	22 829	2 231	88,3%	0,4%	10,0%	1,3%
1990	6 306	13 681	3,5	5 422	77,6%	1,1%	20,4%	0,9%	23 691	2 438	89,5%	0,6%	8,9%	1,0%
1991	6 627	13 849	3,4	5 910	77,6%	1,1%	20,2%	1,0%	23 838	2 688	89,5%	0,6%	8,8%	1,1%
1992	5 773	16 890	3,3	7 025	74,2%	1,5%	16,5%	1,1%	29 607	3 152	85,8%	0,8%	4,6%	1,0%
1993	6 010	16 725	3,3	8 822	73,0%	1,6%	17,0%	1,2%	28 634	4 006	85,0%	0,9%	4,4%	1,2%
1994	6 322	16 889	3,2	11 859	72,0%	1,9%	18,4%	1,4%	27 728	5 462	85,7%	0,9%	4,2%	1,4%
1995	6 508	16 891	3,2	14 270	73,3%	2,0%	18,0%	1,4%	27 504	6 614	87,2%	0,9%	3,9%	1,5%
1996	6 898	16 900	3,2	15 971	72,7%	2,1%	18,1%	1,6%	27 508	7 407	86,7%	1,0%	3,9%	1,8%
1997	7 316	16 850	3,2	17 213	76,3%	2,4%	19,3%	2,1%	26 698	8 020	92,3%	1,1%	4,3%	2,3%
1998	7 895	17 000	3,1	17 837	74,9%	2,4%	20,5%	2,2%	26 326	8 274	92,2%	1,0%	4,3%	2,5%
1999	8 350	16 900	3,1	19 167	73,9%	2,2%	21,6%	2,3%	25 743	8 955	91,9%	1,0%	4,5%	2,7%
2000	8 762	16 900	3,1	20 327	70,7%	2,0%	23,9%	3,3%	23 761	9 825	90,4%	0,9%	4,7%	4,0%
2001	9 120	17 000	3,1	22 051	70,0%	2,0%	24,5%	3,4%	23 532	10 787	90,2%	0,9%	4,7%	4,3%

Table A1 : China's Urban Household Income Surveys (SSB), 1986-2001 - Summary Statistics

Note: The samples used by SSB urban household surveys are designed so as to be representative of urban China (iwth approximately uniform sampling rates). The implicit sampling rate was computed by using the demographic data reported on Table A0. E.g.  $3,8 \times 12437 = 47261$  individuals (with or without positive income, including children) are covered by the 1986 survey, and total urban population of China was equal to  $24,5\% \times 1075$  millions = 264 millions in 1986, hence a sampling rate equal to (1/...) 264 millions/47261 = 5579. Note that total income reported in household-level distributions is always 30-40% larger than total income reported in individual-level distributions (e.g., in 1986,  $5579 \times 12437 \times 3523 = 244$  billions yuans, while  $5579 \times 23584 \times 1394 = 183$  billions yuans; see Table A2). This is due to the fact that some forms of income cannot be attributed to a specific individual within the household (this is particularly true for transfer and property income; in 1986-1987, only wage income was individualized). The urban per capita income series reported on Table A0 was computed using household-level data (e.g., in 1986, 3523/3.8 = 927) and coïncide with the urban per capita income series published in China Statistical Yearbook.

		Househ	ons				Indi	vidual tabula	ations			
billions	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	N. wage	N. bus. inc.
current	Total income	Wage income	Property	Transfer	Business	Total income	Wage income	Property	Transfer	Business	earners	earners
yuans		Wage moonle	income	income	income		Wage moorne	income	income	income	(millions	s workers)
1986	244,4	203,3	1,5	37,7	2,1	183,4	183,4	0,0	0,0	0,0	145,8	1,5
1987	281,1	234,2	1,6	42,5	2,9	199,2	199,2	0,0	0,0	0,0	160,0	2,0
1988	347,3	273,8	2,0	67,2	4,1	273,1	242,7	1,0	26,2	3,1	139,5	2,1
1989	404,3	311,3	3,5	84,9	4,8	316,6	279,5	1,3	31,7	4,0	139,6	2,1
1990	467,8	363,0	5,0	95,5	4,3	364,3	326,2	2,0	32,5	3,6	148,9	1,8
1991	542,4	421,1	6,2	109,5	5,6	424,7	380,2	2,5	37,3	4,7	156,6	2,1
1992	685,0	508,1	10,4	113,1	7,3	538,8	462,0	4,1	24,6	5,3	161,2	2,3
1993	886,8	647,4	14,6	151,0	10,9	689,4	586,2	6,4	30,3	8,3	161,6	2,7
1994	1266,3	912,1	24,1	232,7	17,2	957,5	821,0	8,7	40,0	13,8	167,0	3,2
1995	1568,6	1149,1	31,1	282,9	21,4	1183,8	1031,7	10,8	45,9	17,9	173,7	3,2
1996	1861,9	1354,1	40,0	336,5	30,5	1405,5	1218,4	13,9	54,5	25,4	182,8	4,1
1997	2121,9	1619,0	50,0	409,0	43,9	1566,6	1445,2	17,7	67,7	35,9	201,9	5,5
1998	2394,0	1794,2	57,1	490,5	52,1	1719,7	1586,1	17,9	73,1	42,7	216,9	6,3
1999	2704,9	1999,0	59,5	585,2	61,2	1924,9	1768,4	18,8	86,5	51,2	223,2	6,8
2000	3010,1	2129,2	60,8	720,8	99,3	2045,5	1848,7	18,9	95,5	82,5	216,7	10,1
2001	3418,9	2393,7	69,0	838,4	117,9	2315,1	2087,9	20,5	107,7	99,1	221,9	10,9

Table A2 : China's Urban Household Income Surveys (SSB), 1986-2001 - Total Income Aggregates

Note: The total income aggregates reported on this table were computed using the series on sampling rates, number of observations, average income and income composition by source reported on Table A1 (see example in the note to Table A1). The numbers of wage earners and business income earners reported on this table were computed by dividing the relevant total income aggregate (household tabulation) by average individual income (average wage by wage earner and average business income bubusiness income earner are approximately equal to average individual income by positive income earner, due to the fact that income composition shares do not vary very much by income bracket: business income is somewhat more prevalent both in low income brackets and high income brackets, and both effects approximately cancel out; for simplicity we assume strict equality). E.g., for 1986, 203,3 billions/1394 = 145,8 millions wage earners.

Table A3 : Top fractiles incomes levels in China, 1986-2001 (household distribution)

current	P0-100	P90-100	P95-100	P99-100	P99,5-100	P99,9-100	P0-90	P90-95	P95-99	P99-99,5	P99,5-99,9	P99,9-100	P90	P95	P99	P99,5	P99,9
yuans	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1986	3 523	6 577	7 463	9 869	11 214	16 794	3 183	5 691	6 861	8 525	9 820	16 794	5 377	6 102	8 163	8 870	12 019
1987	3 860	7 126	8 117	10 603	12 051	18 206	3 497	6 135	7 496	9 154	10 512	18 206	5 787	6 592	8 644	9 825	13 095
1988	4 363	8 240	9 445	12 925	14 743	19 554	3 932	7 035	8 575	11 106	13 541	19 554	6 493	7 599	10 520	12 006	16 544
1989	4 927	9719	11 390	16 235	18 691	24 422	4 395	8 048	10 178	13 780	17 258	24 422	7 518	8 701	12 936	14 955	20 697
1990	5 422	10 697	12 546	18 106	20 730	28 026	4 836	8 849	11 156	15 482	18 907	28 026	8 238	9 661	14 459	16 830	22 601
1991	5 910	11 719	13 840	20 393	24 425	38 296	5 265	9 598	12 202	16 360	20 957	38 296	8 893	10 549	15 228	17 766	27 608
1992	7 025	14 793	17 877	27 774	33 538	52 433	6 162	11 709	15 402	22 010	28 814	52 433	10 745	12 989	20 285	24 348	37 415
1993	8 822	19 916	24 219	37 083	44 514	67 361	7 589	15 612	21 003	29 653	38 802	67 361	14 150	17 664	27 353	32 541	51 522
1994	11 859	27 716	33 812	51 671	60 127	84 362	10 097	21 621	29 347	43 215	54 068	84 362	19 517	24 281	39 493	48 388	66 094
1995	14 270	32 819	39 874	59 652	69 683	96 637	12 209	25 765	34 930	49 621	62 944	96 637	23 360	29 195	46 478	54 078	78 096
1996	15 971	37 171	45 226	68 658	80 714	110 747	13 616	29 115	39 368	56 602	73 206	110 747	26 314	32 618	52 220	62 084	90 099
1997	17 213	40 959	49 981	78 278	93 016	128 273	14 574	31 936	42 907	63 540	84 202	128 273	28 705	35 873	57 865	70 352	100 194
1998	17 837	42 435	52 154	82 151	98 688	138 349	15 103	32 717	44 654	65 613	88 773	138 349	29 766	36 618	60 371	72 000	113 345
1999	19 167	46 368	57 067	89 719	107 562	156 381	16 145	35 669	48 904	71 876	95 357	156 381	32 350	40 070	64 924	80 357	120 896
2000	20 327	49 701	60 733	93 669	110 864	158 301	17 063	38 669	52 499	76 475	99 004	158 301	35 118	43 537	69 680	85 650	123 450
2001	22 051	54 826	67 416	105 871	126 760	193 819	18 410	42 236	57 802	84 983	109 995	193 819	37 847	47 802	77 630	94 825	142 272
2001 ушарс	P0-100	P90-100	P95-100	P99-100	P99,5-100	P99,9-100	P0-90	P90-95	P95-99	P99-99,5	P99,5-99,9	P99,9-100	P90	P95	P99	P99,5	P99,9
2001 yuans	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1986	11 140	20 798	23 600	31 212	35 465	53 110	10 067	17 996	21 698	26 958	31 054	53 110	17 006	19 297	25 815	28 050	38 008
1987	11 385	21 017	23 941	31 272	35 544	53 698	10 315	18 094	22 108	27 000	31 006	53 698	17 068	19 443	25 495	28 978	38 623
1988	10 837	20 468	23 462	32 106	36 623	48 574	9 767	17 475	21 301	27 588	33 636	48 574	16 129	18 877	26 132	29 824	41 096
1989	10 344	20 402	23 910	34 082	39 236	51 268	9 226	16 895	21 367	28 928	36 228	51 268	15 782	18 266	27 156	31 393	43 448
1990	11 045	21 790	25 555	36 880	42 226	57 086	9 851	18 025	22 724	31 535	38 511	57 086	16 779	19 679	29 452	34 282	46 036
1991	11 627	23 054	27 226	40 117	48 049	75 336	10 357	18 881	24 004	32 184	41 227	75 336	17 495	20 751	29 957	34 949	54 311
1992	12 996	27 365	33 070	51 380	62 042	96 997	11 400	21 660	28 493	40 717	53 304	96 997	19 878	24 029	37 526	45 041	69 215
1993	14 242	32 153	39 101	59 870	71 866	108 752	12 252	25 205	33 909	47 874	62 645	108 752	22 844	28 518	44 161	52 536	83 181
1994	15 411	36 018	43 939	67 147	78 135	109 629	13 121	28 096	38 137	56 159	70 262	109 629	25 363	31 553	51 322	62 881	85 890
1995	15 864	36 484	44 327	66 313	77 464	107 429	13 573	28 642	38 830	55 162	69 973	107 429	25 969	32 455	51 668	60 117	86 818
1996	16 391	38 146	46 413	70 460	82 832	113 653	13 973	29 879	40 402	58 088	75 127	113 653	27 005	33 474	53 590	63 714	92 464
1997	17 182	40 886	49 893	78 139	92 852	128 045	14 548	31 880	42 831	63 427	84 053	128 045	28 654	35 809	57 762	70 227	100 017
1998	17 957	42 721	52 505	82 704	99 352	139 280	15 205	32 937	44 955	66 055	89 371	139 280	29 966	36 865	60 777	72 485	114 108
1999	19 572	47 347	58 271	91 613	109 832	159 682	16 486	36 422	49 936	73 394	97 370	159 682	33 033	40 916	66 295	82 053	123 448
2000	20 571	50 297	61 462	94 793	112 194	160 201	17 268	39 133	53 129	77 393	100 192	160 201	35 539	44 059	70 516	86 678	124 931
2001	22 051	54 826	67 416	105 871	126 760	193 819	18 410	42 236	57 802	84 983	109 995	193 819	37 847	47 802	77 630	94 825	142 272
2001/1986	1,98	2,64	2,86	3,39	3,57	3,65	1,83	2,35	2,66	3,15	3,54	3,65	2,23	2,48	3,01	3,38	3,74
2001/1000	4,7%	6,7%	7,2%	8,5%	8,9%	9,0%	4,1%	5,9%	6,8%	8,0%	8,8%	9,0%	5,5%	6,2%	7,6%	8,5%	9,2%
2001/1996	1,35	1,44	1,45	1,50	1,53	1,71	1,32	1,41	1,43	1,46	1,46	1,71	1,40	1,43	1,45	1,49	1,54
2001/1990	6,1%	7,5%	7,8%	8,5%	8,9%	11,3%	5,7%	7,2%	7,4%	7,9%	7,9%	11,3%	7,0%	7,4%	7,7%	8,3%	9,0%

Table A4 : Top fractiles incomes levels in China,	1986-2001 (individual distribution)
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yuma         (1)         (2)         (3)         (4)         (9)         (9)         (10)         (11)         (12)         (14)         (15)         (16)         (17)           1967         1464         2607         290         3905         4300         6802         1377         2403         2473         3411         3412         3616         653         1989         2202         3200         3112         361         3616         653         1989         2201         4404         5226         7694         9053         12521         1989         3622         4608         6329         8183         12521         3661         3631         5826         6624         10411           1990         2438         4715         5537         6118         5244         627         662         1915         16365         9073         11534         1534           1993         4069         9073         1103         17275         2714         2714         2705         1818         1842         1633         1534         1534           1994         5421         5767         15725         2412         2846         3103         10774         13033         10747	current	P0-100	P90-100	P95-100	P99-100	P99,5-100	P99,9-100	P0-90	P90-95	P95-99	P99-99,5	P99,5-99,9	P99,9-100	P90	P95	P99	P99,5	P99,9
1966         1.544         2.421         2.732         3.801         4.201         6.533         1.280         2.110         2.442         3.182         3.616         6.539         1.999         2.266         3.003         3.417         4.447           1987         1.444         2.607         3.500         3.500         1.337         2.263         2.073         2.254         1.341         2.321         2.331         2.226         3.031         5.822         6.944         3.511         3.331         5.822         6.944         3.311         3.332         3.832         5.821         3.814         4.847         5.833         8.837         5.715         9.905         1.221         1.989         3.622         5.928         1.933         1.822         5.833         4.842         6.731         8.422         1.835         1.976         3.933         8.82         2.944         4.271         5.835         9.937         1.962         1.973         1.888         2.9869         6.101         7.830         1.935         1.935         1.935         1.935         1.935         1.935         1.935         1.936         1.937         1.930         1.235         1.935         1.936 <th1.931< th=""> <th1.931< th=""> <th1.931< t<="" td=""><td>yuans</td><td>(1)</td><td>(2)</td><td>(3)</td><td>(4)</td><td>(5)</td><td>(6)</td><td>(7)</td><td>(8)</td><td>(9)</td><td>(10)</td><td>(11)</td><td>(12)</td><td>(13)</td><td>(14)</td><td>(15)</td><td>(16)</td><td>(17)</td></th1.931<></th1.931<></th1.931<>	yuans	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1987         1444         2607         2 920         3 905         4 430         6 802         1 72         3 203         2 73         3 441         3 77         6 802         2 180         2 302         3 200         3 112         3 342           1988         1983         3 757         4 745         5 256         6 837         7 16         9 505         1 2521         1 969         3 602         5 211         6 451         1 2241         3 616         6 824         6 214         5 738         1 16         3 738         6 6163         1 534           1992         4 606         9 073         1 1063         1 7575         2 044         2 780         7 642         1 957         1 535         8 593         1 083         1 554           1994         4 066         9 073         1 108         1 757         2 044         4 834         1 0027         1 3 624         1 9479         2 1614         4 181         1 0171         1 301         1 244         2 1403         3 154           1995         6 141         5 717         5 208         3 300         4 060         5 303         1 942         1 3 132         1 837         2 171         3 131         2 842         3 144         3 142	1986	1 394	2 421	2 732	3 691	4 201	6 539	1 280	2 110	2 492	3 182	3 616	6 539	1 999	2 256	3 003	3 417	4 487
1988         1983         3787         4 544         6 564         7 927         12 254         1 782         3 180         5 201         6 445         12 254         2 246         3 283         4 637         6 7 15         9 000           1989         2 331         4 044         5 537         8 118         9 056         1 3822         2 185         3 804         4 692         6 731         8 425         1 3823         3 623         4 264         6 218         7 388         10 941           1992         3 152         6 502         7 891         1 2492         1 5 057         2 3 741         2 780         5 144         9 927         1 2865         2 3 741         2 780         3 613         1 5 057         2 1 2861         3 15 2         6 410         7 800         1 2 653         1 5 85         2 3 804         1 943         1 6 335         2 7814         4 771         5 868         2 889         3 16 31         1 6 341         1 947         1 6 336         2 7800         3 6 23         6 6 410         1 942         1 3 443         1 941         1 6 335         2 846         3 2 84         3 7 71         1 8 82         2 8 803         3 1 4 2 8 40         3 2 8 4 8 7 9 71 78         7 780         2 7 8 9 2 9 3 7 8 7 4 7 4 7 8 7 8 7	1987	1 464	2 607	2 920	3 905	4 350	6 802	1 337	2 293	2 673	3 461	3 737	6 802	2 150	2 392	3 200	3 112	3 942
1969         2 231         4 404         5 228         7 694         0 059         12 521         3 813         1 2511         3 381         3 931         2 582         6 229         8 425         1 582         3 623         3 623         3 623         3 624         4 252         5 635         8 118         6 505         1 522         2 185         3 444         4 272         5 485         7 682         9 195         1 3 351         3 6 376         4 677         7 686         1 6 385         3 788         4 257         5 2485         7 652         9 195         1 6 345         3 778         4 256         2 771         1 8 382         3 623         4 257         1 6 385         3 788         4 257         1 6 385         3 771         1 8 384         2 2808         6 410         7 680         1 2 631         1 5 532         2 3 605           1995         6 411         1541         1 5621         2 1080         5 303         1 4065         5 303         1 4062         1 730         1 4082         1 730         1 4082         1 730         2 309         5 303         1 4082         1 730         2 308         3 634         6 70         1 403         1 3024         2 301         1 344         2 417         2 417	1988	1 963	3 767	4 354	6 564	7 927	12 254	1 762	3 180	3 802	5 201	6 845	12 254	2 946	3 253	4 837	5 715	9 090
1990         2.438         4715         5.537         8118         9.505         13.822         2.185         3.804         4.892         67.31         63.255         2.646         5.433         6.255         4.667         7.562         9.156         15.355         3.974         4.667         7.988         11.534           1993         4.006         9.073         11.633         17.374         2.2760         5.114         6.741         9.927         13.828         2.9469         6.410         7.800         12.653         15.533         2.2664           1994         5.462         12.975         15.725         24.122         2.9495         4.1831         4.033         10.027         13.626         19.749         2.5161         4.1831         4.03         2.2102         2.917         3.744         2.8403         3.1543           1996         6.614         15.472         12.166         13.942         13.842         4.8370         12.917         13.038         17.928         2.8603         3.4615         5.3546           1997         8.025         2.333         2.7492         4.778         15.642         15.642         15.933         3.864         15.777         18.914         14.13         15.9	1989	2 231	4 404	5 226	7 694	9 059	12 521	1 989	3 582	4 609	6 329	8 193	12 521	3 361	3 931	5 862	6 924	10 411
1991         2.688         5.243         6.215         9.096         10 6.27         16 355         2.404         4.222         5.495         7.562         2.3741         4.716         5.466         8.910         0.890         10 8.34         16 3.45           1994         5.462         12.676         15.725         24.122         28.495         3.443         7.062         9.510         14.071         13 388         29.690         4.10         13 388         29.690         4.10         13 388         29.690         4.10         13 301         15.244         21.840         31.543           1996         6.41         15.472         14.785         6.3700         6.257         13.618         19.633         2.4015         30.864         6.050         15.853         15.303         17.208         15.366         2.5.97         30.747         4.698           1997         8.020         19.675         2.4565         32.004         4.157         7.167         13.03         18.624         14.062         17.650         2.9603         36.67         53.048           1998         8.274         2.0450         2.5.263         30.961         15.776         4.191         17.174         2.3.689         4.9224	1990	2 438	4 715	5 537	8 118	9 505	13 822	2 185	3 894	4 892	6 731	8 425	13 822	3 623	4 254	6 218	7 398	10 144
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1991	2 688	5 243	6 215	9 095	10 627	16 355	2 404	4 272	5 495	7 562	9 195	16 355	3 978	4 667	7 086	8 163	11 534
1994       5 4006       9073       11 083       17 378       20 864       29 869       3443       7 082       9 510       14 073       13 388       29 869       6 410       7 860       12 626       15 539       23 066         1995       6 614       15 112       18 560       21 2070       12 309       11 8244       21 400       31 440       25 357       30 747       46 984         1997       1007       13 7760       21 902       34 773       41 745       63 790       6 257       13 618       18 844       27 800       36 234       63 790       12 309       15 386       25 597       30 747       46 984         1997       8 274       20 450       25 264       40 76       47 787       71 871       71 871       71 871       71 891       14 082       77 875       71 891       14 082       14 083       86 457       53 646       53 646       53 646       53 646       53 646       53 646       51 576       94 189       71 75 80       34 685       54 509       65 948       10 26 35       88 92       21 210       29 734       3 070       56 76       10 2 655       89 84       99 99.50       79 99.99       99.5       999.99.90       71 58       42 216	1992	3 152	6 502	7 891	12 492	15 057	23 741	2 780	5 114	6 741	9 927	12 886	23 741	4 771	5 636	8 893	10 993	16 345
1994       5.462       12.876       15.725       24.122       28.495       41.831       46.38       10.027       13.626       19.749       25.161       41.831       9.107       11.301       18.244       21.402       27.109       37.331         1996       6.44       15.4412       18.860       25.97       33.903       46.950       62.57       13.618       18.684       27.000       36.234       63.790       12.309       15.386       25.987       30.747       46.844         1997       8.020       19.75       24.566       39.209       47.105       72.176       17.611       21.860       34.677       77.8181       14.002       17.602       29.865       35.667       53.646         1998       8.955       22.33       27.462       47.03       50.389       75.18       17.468       17.142       23.689       34.67       44.447       76.218       15.510       19.443       31.953       30.68       57.042       24.142       24.216       39.529       47.824       74.428         2001       10.787       7.9790       34.689       54.509       69.941.99       19.028       19.699       19.99.599       P9.599       P9.59       P9.99       P9.95       P	1993	4 006	9 073	11 083	17 378	20 684	29 869	3 443	7 062	9 510	14 073	18 388	29 869	6 410	7 890	12 653	15 539	23 606
1996       6 614       15 412       18 860       28 959       3 903       46 050       5 636       11 964       16 336       24 015       30 866       46 050       12 304       12 304       12 302       12 307       17 46       94 48         1997       8 020       19 875       24 566       39 209       47 105       72 176       6 703       15 184       20 905       31 312       40 837       72 176       13 603       17 208       28 860       34 615       5 30 39         1998       8 274       20 400       25 226       40 076       47 784       71 891       16 674       21 613       32 689       14 767       71 891       14 402       17 650       29 905       38 646       70 42         2000       9 825       25 082       31 318       49 925       60 098       94 189       81 29       19 028       26 539       38 951       15 167       94 189       17 144       15 180       21 143       39 529       79 293       36 698       43 320       67 683         2001       10 767       72 950       34 689       95 99       99 99.5       10 263       18 449       72 14       13 494       61 0.61       16 11       12 016       11 (11       12	1994	5 462	12 876	15 725	24 122	28 495	41 831	4 638	10 027	13 626	19 749	25 161	41 831	9 107	11 301	18 244	21 840	31 543
1996       7.407       17.700       21.902       34.773       41.745       66.790       62.27       13.618       18.684       27.900       36.234       63.790       12.200       15.886       25.397       30.747       46.984         1997       8.020       19.875       2.4666       39.029       47.105       72.176       6703       15.164       2.1513       32.386       17.677       17.891       14.062       17.650       2.960       33.612       40.837       72.176       13.603       17.690       2.9860       34.615       53.6364         1998       8.252       22.033       27.492       42.200       9.825       60.084       19.174       2.8693       34.657       44.941       17.642       15.693       36.684       54.300       67.893         2001       10.767       27.950       34.689       54.509       69.941       19.025       88.80       21.210       29.734       43.070       56.776       10.2635       18.876       24.216       39.529       79.93.9100       P9.95       P9.95       P9.95       17.66       15.11       15.11       12.11       11.61       19.11       11.627       11.61       19.10       12.20       10.62       11.436       10	1995	6 614	15 412	18 860	28 959	33 903	46 050	5 636	11 964	16 336	24 015	30 866	46 050	10 842	13 440	22 012	27 019	37 361
1997       8 020       19 875       24 566       39 209       47 105       72 176       1 303       17 208       28 660       34 615       5 3 364         1998       8 955       22 333       27 492       42 703       50 839       76 218       74 681       1 4083       72 176       1 3603       17 208       28 660       34 615       5 3 364         2000       9 825       25 082       31 154       49 525       60 098       94 189       81 29       10 028       28 593       38 591       51 576       94 189       17 154       24 216       39 529       47 824       74 428         2001       yuas       P0-100       P99-100       P99-100       P99-100       P99-100       P9-30       P9-39       P9-30       P9-3	1996	7 407	17 760	21 902	34 773	41 745	63 790	6 257	13 618	18 684	27 800	36 234	63 790	12 309	15 386	25 397	30 747	46 984
1998       8 274       20 460       25 226       40 076       47 784       71 891       6 921       15 674       21 674       21 689       34 667       44 494       76 218       17 600       29 905       35 667       53 446       57 428         2000       9 825       25 0202       31 136       49 525       60 098       94 189       8129       19028       26 539       38 951       51 576       94 189       17 154       21 680       35 687       53 446       57 442         2001       10 787       27 950       34 689       54 509       65 948       10 2635       8 880       21 210       29 734       43 070       66 776       102 635       18 878       24 16       39 529       47 824       74 428         2001       yuans       (1)       (2)       (3)       (4)       (5)       (6)       (7)       (8)       (9)       (10)       (11)       (12)       (13)       (14)       (15)       (16)       (17)       1488       8486       16181       11 619       12 249       20 062       34 44       176       7 1891       14 025       12 305       14 530       12 304       14 530       12 561       12 005       30 439       7318       80	1997	8 020	19 875	24 566	39 209	47 105	72 176	6 703	15 184	20 905	31 312	40 837	72 176	13 603	17 208	28 860	34 615	53 039
1999       9 855       22 33       27 492       42 703       50 839       76 218       7 468       17 174       22 66 59       38 667       44 494       76 218       15 510       19 441       31 959       36 048       57 042         2001       10787       27 950       34 685       54 606       56 948       10 2 635       88 80       21 210       29 734       43 070       56 776       94 189       17 154       21 569       36 568       43 320       67 833         2001       yuas       P0-100       P90-100       P93.510       P93.510       P0.60       P93.95       P93.95       P93.95       P93.9100       P93.700       P10.10       P11.11       P10.10       P10.10       P10.11       P11.11       P10.10       P10.11       P10.11       P10.11       P10.11       P10.10       P	1998	8 274	20 450	25 226	40 076	47 784	71 891	6 921	15 674	21 513	32 368	41 757	71 891	14 082	17 650	29 905	35 657	53 646
2000         9 825         25 082         31 136         49 525         60 089         94 189         8 129         19 028         26 539         38 951         51 576         94 189         17 154         21 569         36 688         43 320         67 893           2001         10 787         27 950         34 689         54 509         65 948         102 635         8 880         21 210         29 734         43 070         56 776         102 655         18 878         24 216         39 559         74 823           2001         yuas         P0-100         P95-100         P99-100         P99-100         P95-100         P99-100         P99-100         P100         110         (1) <td>1999</td> <td>8 955</td> <td>22 333</td> <td>27 492</td> <td>42 703</td> <td>50 839</td> <td>76 218</td> <td>7 468</td> <td>17 174</td> <td>23 689</td> <td>34 567</td> <td>44 494</td> <td>76 218</td> <td>15 510</td> <td>19 441</td> <td>31 959</td> <td>38 048</td> <td>57 042</td>	1999	8 955	22 333	27 492	42 703	50 839	76 218	7 468	17 174	23 689	34 567	44 494	76 218	15 510	19 441	31 959	38 048	57 042
2001         10 787         27 950         34 689         54 509         65 948         102 635         8 880         21 210         29 734         43 070         56 776         102 635         18 878         24 216         39 529         47 824         74 428           2001 yuans         P90-100         P90-100         P95-100         P99-100         P99-100         P90-100         P90-100         P95-100         P99-100         P90-100         (11)         (12)         (13)         (14)         (15)         (16)         (17)           1986         4 407         7 656         8 640         11 673         13 24         20 678         4 047         6 755         7 882         10 062         11 435         20 678         6 321         7 134         9 496         10 807         14 189           1987         4 683         9 245         10 971         16 151         19 016         26 283         4 176         7 519         9 676         13 286         17 200         26 283         7 056         8 252         12 305         14 532         21 855           1990         4 967         9 605         11 2 266         16 505         19 30         21 174         7 30         9 466         12 470         13 304<	2000	9 825	25 082	31 136	49 525	60 098	94 189	8 129	19 028	26 539	38 951	51 576	94 189	17 154	21 569	35 698	43 320	67 893
P0-100         P9-100         P9-100<	2001	10 787	27 950	34 689	54 509	65 948	102 635	8 880	21 210	29 734	43 070	56 776	102 635	18 878	24 216	39 529	47 824	74 428
2001 yuans         P0-100         P99-100         P99-5100         P99-5100         P99-5100         P99-99         P99-99         P99-50         P99-99         P99-50         P30-50         P10-100																		
10.0000       (1)       (2)       (3)       (4)       (5)       (6)       (7)       (8)       (9)       (10)       (11)       (12)       (13)       (14)       (15)       (16)       (17)         1986       4 407       7 656       8 640       11 673       13 284       20 678       4 047       6 675       7 882       10 062       11 438       20 678       6 321       7 134       9 496       10 807       14 189         1987       4 318       7 668       8 612       11 519       1282       20 062       3 444       6 765       7 885       10 201       10 062       6 321       7 138       8 080       12 014       14 195       22 580         1988       4 683       9 245       10 971       16 151       19 016       26 283       4 176       7 519       9 676       13 286       17 200       26 28 154       7 379       8 665       12 200       14 536       21 856       15 069       20 663       14 706       8 404       10 814       2174       7 826       9 182       13 940       16 658       22 691       13 940       12 470       18 364       23 838       43 919       8 827       10 426       16 451       20 337       30 236	2001 vuans	P0-100	P90-100	P95-100	P99-100	P99,5-100	P99,9-100	P0-90	P90-95	P95-99	P99-99,5	P99,5-99,9	P99,9-100	P90	P95	P99	P99,5	P99,9
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2001 Juano	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
1987       4 318       7 688       8 612       11 519       12 829       20 062       3 944       6 765       7 885       10 209       11 021       20 062       6 341       7 056       9 437       9 180       11 627         1988       4 875       9 358       10 816       16 306       19 691       30 439       4 377       7 899       9 443       12 221       17 005       30 439       7 318       8 080       12 014       14 195       22 580         1989       4 967       9 605       11 278       16 535       19 300       28 154       4 452       7 931       9 646       13 710       17 162       28 154       7 379       8 665       12 666       15 609       20 653         1991       5 288       10 315       12 226       17 891       20 906       32 174       4 730       8 404       10 810       14 876       18 089       32 174       7 826       9 182       13 940       16 658       22 691         1992       5 832       12 029       14 648       17 849       20 057       33 394       48 223       5 555       11 402       12 533       22 720       26 87       34 313       51 193       12 052       14 941       24 470       3	1986	4 407	7 656	8 640	11 673	13 284	20 678	4 047	6 673	7 882	10 062	11 436	20 678	6 321	7 134	9 496	10 807	14 189
1988       4 875       9 358       10 816       16 306       19 691       30 439       4 377       7 899       9 443       12 921       17 005       30 439       7 318       8 080       12 014       14 195       22 580         1999       4 967       9 605       11 278       16 535       19 360       28 154       4 452       7 931       9 964       13 710       17 102       28 154       7 379       8 665       12 666       15 609       20 663         1991       5 288       10 315       12 226       17 891       20 906       32 174       4 730       8 404       10 810       14 876       18 089       32 174       7 826       9 182       13 940       16 058       22 691         1992       5 832       12 029       14 598       23 109       27 854       43 919       5 143       9 460       12 470       18 364       23 838       43 919       8 827       10 426       16 451       20 337       30 236         1993       6 468       14 648       17 894       28 057       33 94       48 223       5 559       11 402       15 553       22 720       26 687       43 23       10 348       12 738       20 429       25 087       38 112 </td <td>1987</td> <td>4 318</td> <td>7 688</td> <td>8 612</td> <td>11 519</td> <td>12 829</td> <td>20 062</td> <td>3 944</td> <td>6 765</td> <td>7 885</td> <td>10 209</td> <td>11 021</td> <td>20 062</td> <td>6 341</td> <td>7 056</td> <td>9 437</td> <td>9 180</td> <td>11 627</td>	1987	4 318	7 688	8 612	11 519	12 829	20 062	3 944	6 765	7 885	10 209	11 021	20 062	6 341	7 056	9 437	9 180	11 627
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1988	4 875	9 358	10 816	16 306	19 691	30 439	4 377	7 899	9 443	12 921	17 005	30 439	7 318	8 080	12 014	14 195	22 580
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1989	4 683	9 245	10 971	16 151	19 016	26 283	4 176	7 519	9 676	13 286	17 200	26 283	7 056	8 252	12 305	14 536	21 856
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1990	4 967	9 605	11 278	16 535	19 360	28 154	4 452	7 931	9 964	13 710	17 162	28 154	7 379	8 665	12 666	15 069	20 663
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1991	5 288	10 315	12 226	17 891	20 906	32 174	4 730	8 404	10 810	14 876	18 089	32 174	7 826	9 182	13 940	16 058	22 691
1993       6 468       14 648       17 894       28 057       33 394       48 223       5 559       11 402       15 353       22 720       29 687       48 223       10 348       12 738       20 429       25 087       38 112         1994       7 098       16 733       20 435       31 347       37 029       54 359       6 028       13 031       17 707       25 664       32 697       54 359       11 835       14 685       23 708       28 882       40 990         1995       7 352       17 134       20 967       32 193       37 689       51 193       6 266       13 300       18 160       26 697       34 313       51 193       12 652       14 944       24 470       30 036       41 534         1996       7 602       18 226       22 477       35 685       42 241       65 645       12 657       30 185       66 645       12 632       15 579       26 664       31 554       42 217         1997       8 006       19 840       24 522       39 139       47 021       72 049       6 691       15 157       20 868       31 257       40 765       72 049       13 579       17 178       28 809       34 554       52 945       19 95       19 19       77	1992	5 832	12 029	14 598	23 109	27 854	43 919	5 143	9 460	12 470	10 264	~~ ~~~	13 010	8 827	10 426	16 451	20 337	30 236
19947 08816 73320 43531 34737 02954 3596 02813 03117 70725 66432 69754 35911 83514 68523 70828 38240 99019957 35217 13420 96732 19337 68951 1936 26613 30018 16026 69734 31351 19312 05214 94124 47030 03641 53419967 60218 22622 47735 68542 84165 4656 42113 97519 17528 53037 18565 46512 63215 79026 60431 55448 21719978 00619 84024 52239 13947 02172 0496 69115 15720 68831 25740 76572 04913 57917 17828 80934 55452 94519988 32920 58825 39640 34648 10672 3756 96715 157721 68832 58642 03872 37514 17717 76930 10735 89754 00719999 14422 80428 07243 60451 91277 8277 62617 53724 18935 29645 43377 82715 83719 85232 63338 85158 24620009 94225 38331 51050 11960 81995 3198 22719 25626 85839 41852 19595 31917 36021 82836 12743 84066 708200110 78727 95034 68954 50965 94810 2 635 <t< td=""><td>1993</td><td>6 468</td><td>14 640</td><td></td><td></td><td></td><td></td><td>0.10</td><td></td><td></td><td>10 304</td><td>23 838</td><td>43 313</td><td>0 021</td><td>10 420</td><td>10 431</td><td></td><td></td></t<>	1993	6 468	14 640					0.10			10 304	23 838	43 313	0 021	10 420	10 431		
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2000         9.942         25.383         31.510         50.119         60.819         95.319         8.227         19.256         26.858         39.418         52.195         95.319         17.360         21.828         36.127         43.840         68.708           2001         10.787         27.950         34.689         54.509         65.948         102.635         8.880         21.210         29.734         43.070         56.776         102.635         18.878         24.216         39.529         47.824         74.428           2001/1986         2.45         3.65         4.01         4.67         4.96         2.19         3.18         3.77         4.28         4.96         4.96         2.99         3.39         4.16         4.43         5.25           2001/1986         6.1%         9.0%         9.7%         10.8%         11.3%         15.4%         8.0%         9.3%         10.2%         11.3%         11.3%         5.25           2001/1996         1.42         1.53         1.54         1.57         1.38         1.52         1.55         1.51         1.53         1.57         1.49         1.53         1.52         1.54           2001/1996         1.42         1.53	1995 1996 1997 1998	7 098 7 352 7 602 8 006 8 329	14 648 16 733 17 134 18 226 19 840 20 588	17 894 20 435 20 967 22 477 24 522 25 396	28 057 31 347 32 193 35 685 39 139 40 346	33 394 37 029 37 689 42 841 47 021 48 106	48 223 54 359 51 193 65 465 72 049 72 375	5 559 6 028 6 266 6 421 6 691 6 967	11 402 13 031 13 300 13 975 15 157 15 779	15 353 17 707 18 160 19 175 20 868 21 658	22 720 25 664 26 697 28 530 31 257 32 586	23 838 29 687 32 697 34 313 37 185 40 765 42 038	48 223 54 359 51 193 65 465 72 049 72 375	10 348 11 835 12 052 12 632 13 579 14 177	12 738 14 685 14 941 15 790 17 178 17 769	20 429 23 708 24 470 26 064 28 809 30 107	25 087 28 382 30 036 31 554 34 554 35 897	38 112 40 990 41 534 48 217 52 945 54 007
2001         10 787         27 950         34 689         54 509         65 948         102 635         8 880         21 210         29 734         43 070         56 776         102 635         18 878         24 216         39 529         47 824         74 428           2001/1986         2.45         3.65         4.01         4.67         4.96         2.19         3.18         3.77         4.28         4.96         4.96         2.99         3.39         4.16         4.43         5.25           6.1%         9.0%         9.7%         10.8%         11.3%         11.3%         5.4%         8.0%         9.3%         10.2%         11.3%         11.3%         11.7%           2001/1996         1.42         1.53         1.54         1.57         1.38         1.52         1.55         1.51         1.53         1.57         1.49         1.53         1.52         1.54           2001/1996         1.42         1.53         1.54         1.57         1.38         1.52         1.55         1.51         1.53         1.57         1.49         1.53         1.52         1.54           2001/1996         7.2%         8.9%         9.1%         8.8%         9.0%         9.4%	1995 1996 1997 1998 1999	7 098 7 352 7 602 8 006 8 329 9 144	14 648 16 733 17 134 18 226 19 840 20 588 22 804	17 894 20 435 20 967 22 477 24 522 25 396 28 072	28 057 31 347 32 193 35 685 39 139 40 346 43 604	33 394 37 029 37 689 42 841 47 021 48 106 51 912	48 223 54 359 51 193 65 465 72 049 72 375 77 827	5 559 6 028 6 266 6 421 6 691 6 967 7 626	11 402 13 031 13 300 13 975 15 157 15 779 17 537	15 353 17 707 18 160 19 175 20 868 21 658 24 189	22 720 25 664 26 697 28 530 31 257 32 586 35 296	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433	48 223 54 359 51 193 65 465 72 049 72 375 77 827	10 348 11 835 12 052 12 632 13 579 14 177 15 837	12 738 14 685 14 941 15 790 17 178 17 769 19 852	20 429 23 708 24 470 26 064 28 809 30 107 32 633	25 087 28 382 30 036 31 554 34 554 35 897 38 851	38 112 40 990 41 534 48 217 52 945 54 007 58 246
2001/1986         2,45         3,65         4,01         4,67         4,96         4,96         2,19         3,18         3,77         4,28         4,96         4,96         2,99         3,39         4,16         4,43         5,25           6,1%         9,0%         9,7%         10,8%         11,3%         11,3%         5,4%         8,0%         9,3%         10,2%         11,3%         11,3%         7,6%         8,5%         10,0%         10,4%         11,7%           2001/1996         1,42         1,53         1,54         1,57         1,38         1,52         1,55         1,51         1,53         1,54         1,52         1,54           7,2%         8,9%         9,1%         8,8%         9,0%         9,4%         6,7%         8,7%         9,2%         8,6%         8,8%         9,4%         8,7%         8,7%         9,1%	1995 1996 1997 1998 1999 2000	7 098 7 352 7 602 8 006 8 329 9 144 9 942	14 646 16 733 17 134 18 226 19 840 20 588 22 804 25 383	17 894 20 435 20 967 22 477 24 522 25 396 28 072 31 510	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319	5 559 6 028 6 266 6 421 6 691 6 967 7 626 8 227	11 402 13 031 13 300 13 975 15 157 15 779 17 537 19 256	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858	22 720 25 664 26 697 28 530 31 257 32 586 35 296 39 418	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319	10 348 11 835 12 052 12 632 13 579 14 177 15 837 17 360	12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708
2001/1986         2.45         3.65         4.01         4.67         4.96         4.96         2.19         3.18         3.77         4.28         4.96         2.99         3.39         4.16         4.43         5.25           2001/1986         6,1%         9,0%         9,7%         10,8%         11,3%         5,4%         8,0%         9,3%         10,2%         11,3%         11,3%         7,6%         8,5%         10,0%         10,4%         11,7%           2001/1996         1.42         1.53         1.54         1.57         1.38         1,52         1.55         1.51         1.53         1.57         1.49         1.53         1.52         1.54           7,2%         8,9%         9,1%         8,8%         9,0%         9,4%         6,7%         8,7%         9,2%         8,6%         8,8%         9,4%         8,4%         8,9%         8,7%         9,1%	1995 1996 1997 1998 1999 2000 2001	7 098 7 352 7 602 8 006 8 329 9 144 9 942 10 787	14 646 16 733 17 134 18 226 19 840 20 588 22 804 25 383 27 950	17 894 20 435 20 967 22 477 24 522 25 396 28 072 31 510 34 689	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119 54 509	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819 65 948	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635	5 559 6 028 6 266 6 421 6 691 6 967 7 626 8 227 8 880	11 402 13 031 13 300 13 975 15 157 15 779 17 537 19 256 21 210	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858 29 734	22 720 25 664 26 697 28 530 31 257 32 586 35 296 39 418 43 070	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195 56 776	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635	10 348 11 835 12 052 12 632 13 579 14 177 15 837 17 360 18 878	12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828 24 216	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127 39 529	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840 47 824	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708 74 428
6,1%       9,0%       9,7%       10,8%       11,3%       15,3%       5,4%       8,0%       9,3%       10,2%       11,3%       11,3%       11,7%         0.1/1996         1,42       1,53       1,54       1,57       1,38       1,52       1,55       1,51       1,53       1,57       1,49       1,53       1,52       1,54         2001/1996       1,42       1,53       1,54       1,57       1,38       1,52       1,55       1,51       1,53       1,57       1,49       1,53       1,52       1,54         7,2%       8,9%       9,1%       8,8%       9,0%       9,4%       6,7%       8,7%       9,2%       8,6%       8,8%       9,4%       8,9%       8,7%       8,7%       9,1%	1995 1996 1997 1998 1999 2000 2001	7 098 7 352 7 602 8 006 8 329 9 144 9 942 10 787	14 646 16 733 17 134 18 226 19 840 20 588 22 804 25 383 27 950	17 894 20 435 20 967 22 477 24 522 25 396 28 072 31 510 34 689	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119 54 509	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819 65 948	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635	5 559 6 028 6 266 6 421 6 691 6 967 7 626 8 227 8 880	11 402 13 031 13 300 13 975 15 157 15 779 17 537 19 256 21 210	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858 29 734	18 304 22 720 25 664 26 697 28 530 31 257 32 586 35 296 39 418 43 070	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195 56 776	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635	10 348 11 835 12 052 12 632 13 579 14 177 15 837 17 360 18 878	12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828 24 216	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127 39 529	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840 47 824	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708 74 428
2001/1996         1.42         1.53         1.54         1.54         1.57         1.38         1.52         1.55         1.51         1.53         1.57         1.49         1.53         1.52         1.54         1.54           7.2%         8.9%         9.1%         8.8%         9.4%         6.7%         8.7%         9.2%         8.6%         8.8%         9.4%         8.7%         9.1%	1995 1996 1997 1998 1999 2000 2001 2001/1986	7 098 7 352 7 602 8 006 8 329 9 144 9 942 10 787 2,45	14 646 16 733 17 134 18 226 19 840 20 588 22 804 25 383 27 950 3,65	17 894 20 435 20 967 22 477 24 522 25 396 28 072 31 510 34 689 4,01	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119 54 509 4,67	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819 65 948 4,96	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96	5 559 6 028 6 266 6 421 6 691 6 967 7 626 8 227 8 880 2,19	11 402 13 031 13 001 13 975 15 157 15 779 17 537 19 256 21 210 3,18	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858 29 734	18       304         22       720         25       664         26       697         28       530         31       257         32       586         35       296         39       418         43       070	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195 56 776 4,96	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635	10 348 11 835 12 052 12 632 13 579 14 177 15 837 17 360 18 878 2,99	12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828 24 216	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127 39 529 4,16	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840 47 824 4,43	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708 74 428 5,25
2001/1996         1.42         1.53         1.54         1.54         1.57         1.38         1.52         1.55         1.51         1.53         1.57         1.49         1.53         1.52         1.54           7.2%         8.9%         9.1%         8.8%         9.0%         9.4%         6.7%         8.7%         9.2%         8.6%         8.8%         9.4%         8.7%         9.1%	1995 1996 1997 1998 1999 2000 2001 2001/1986	7 098 7 352 7 602 8 006 8 329 9 144 9 942 10 787 2,45 6,1%	14 648 16 733 17 134 18 226 19 840 20 588 22 804 25 383 27 950 3,65 9,0%	17 894 20 435 20 967 22 477 24 522 25 396 28 072 31 510 34 689 4,01 9,7%	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119 54 509 4,67 10,8%	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819 65 948 4,96 11,3%	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96 11,3%	5 110 5 559 6 028 6 266 6 421 6 691 7 626 8 227 8 880 2,19 5,4%	11 402 13 031 13 300 13 975 15 157 15 779 17 537 19 256 21 210 3,18 8,0%	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858 29 734 3,77 9,3%	22 720 25 664 26 697 28 530 31 257 32 586 35 296 39 418 43 070 4,28 10,2%	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195 56 776 4,96 11,3%	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96 11,3%	10 348 11 835 12 052 13 579 14 177 15 837 17 360 18 878 2,99 7,6%	12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828 24 216 3,39 8,5%	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127 39 529 4,16 10,0%	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840 47 824 4,43 10,4%	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708 74 428 5,25 11,7%
$7.2\% \hspace{0.5cm} 8.9\% \hspace{0.5cm} 9.1\% \hspace{0.5cm} 8.8\% \hspace{0.5cm} 9.0\% \hspace{0.5cm} 9.4\% \hspace{0.5cm} 6.7\% \hspace{0.5cm} 8.7\% \hspace{0.5cm} 9.2\% \hspace{0.5cm} 8.6\% \hspace{0.5cm} 8.8\% \hspace{0.5cm} 9.4\% \hspace{0.5cm} 8.4\% \hspace{0.5cm} 8.9\% \hspace{0.5cm} 8.7\% \hspace{0.5cm} 8.7\% \hspace{0.5cm} 9.1\% \hspace{0.5cm} $	1995 1996 1997 1998 1999 2000 2001 2001/1986	7 098 7 352 7 602 8 006 8 329 9 144 9 942 10 787 2,45 6,1%	14 646 16 733 17 134 18 226 19 840 20 588 22 804 25 383 27 950 3,65 9,0%	17 894 20 435 20 967 22 477 24 522 25 396 28 072 31 510 34 689 4,01 9,7%	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119 54 509 4,67 10,8%	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819 65 948 4,96 11,3%	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96 11,3%	5 159 6 028 6 266 6 421 6 691 6 967 7 626 8 227 8 880 2,19 5,4%	11 402 13 031 13 300 13 975 15 157 15 779 17 537 19 256 21 210 3,18 8,0%	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858 29 734 3,77 9,3%	22 720 25 664 26 697 28 530 31 257 32 586 35 296 39 418 43 070 4,28 10,2%	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195 56 776 4,96 11,3%	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96 11,3%	10 345 11 835 12 052 12 632 13 579 14 177 15 837 17 360 18 878 2,99 7,6%	12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828 24 216 3,39 8,5%	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127 39 529 4,16 10,0%	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840 47 824 4,43 10,4%	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708 74 428 5,25 11,7%
	1995 1996 1997 1998 1999 2000 2001 2001/1986	7 098 7 352 7 602 8 006 8 329 9 144 9 942 10 787 2,45 6,1% 1,42	14 048 16 733 17 134 18 226 19 840 20 588 22 804 25 383 27 950 3,65 9,0%	17 884 20 435 20 967 22 477 24 522 25 396 28 072 31 510 34 689 4,01 9,7%	28 057 31 347 32 193 35 685 39 139 40 346 43 604 50 119 54 509 4,67 10,8% 1,53	33 394 37 029 37 689 42 841 47 021 48 106 51 912 60 819 65 948 4,96 11,3% 1,54	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96 11,3%	5 159 6 028 6 266 6 421 6 691 6 967 7 626 8 227 8 880 2,19 5,4%	11 402 13 031 13 300 13 975 15 157 15 779 17 537 19 256 21 210 3,18 8,0% 1,52	15 353 17 707 18 160 19 175 20 868 21 658 24 189 26 858 29 734 3,77 9,3%	22 720 25 664 26 697 28 530 31 257 32 586 35 296 39 418 43 070 4,28 10,2%	23 838 29 687 32 697 34 313 37 185 40 765 42 038 45 433 52 195 56 776 4,96 11,3%	48 223 54 359 51 193 65 465 72 049 72 375 77 827 95 319 102 635 4,96 11,3%	10 348 11 835 12 052 12 632 13 579 14 177 15 837 17 360 18 878 2,99 7,6% 1,49	10 420 12 738 14 685 14 941 15 790 17 178 17 769 19 852 21 828 24 216 3,39 8,5%	20 429 23 708 24 470 26 064 28 809 30 107 32 633 36 127 39 529 4,16 10,0% 1,52	25 087 28 382 30 036 31 554 34 554 35 897 38 851 43 840 47 824 4,43 10,4% 1,52	38 112 40 990 41 534 48 217 52 945 54 007 58 246 68 708 74 428 5,25 11,7%

household	P90-100	P95-100	P99-100	P99,5-100	P99,9-100	P90-95	P95-99	P99-99,5	P99,5-99,9	P99,9-100
distribution	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1986	18,7%	10,6%	2,8%	1,6%	0,5%	8,1%	7,8%	1,2%	1,1%	0,5%
1987	18,5%	10,5%	2,7%	1,6%	0,5%	7,9%	7,8%	1,2%	1,1%	0,5%
1988	18,9%	10,8%	3,0%	1,7%	0,4%	8,1%	7,9%	1,3%	1,2%	0,4%
1989	19,7%	11,6%	3,3%	1,9%	0,5%	8,2%	8,3%	1,4%	1,4%	0,5%
1990	19,7%	11,6%	3,3%	1,9%	0,5%	8,2%	8,2%	1,4%	1,4%	0,5%
1991	19,8%	11,7%	3,5%	2,1%	0,6%	8,1%	8,3%	1,4%	1,4%	0,6%
1992	21,1%	12,7%	4,0%	2,4%	0,7%	8,3%	8,8%	1,6%	1,6%	0,7%
1993	22,6%	13,7%	4,2%	2,5%	0,8%	8,8%	9,5%	1,7%	1,8%	0,8%
1994	23,4%	14,3%	4,4%	2,5%	0,7%	9,1%	9,9%	1,8%	1,8%	0,7%
1995	23,0%	14,0%	4,2%	2,4%	0,7%	9,0%	9,8%	1,7%	1,8%	0,7%
1996	23,3%	14,2%	4,3%	2,5%	0,7%	9,1%	9,9%	1,8%	1,8%	0,7%
1997	23,8%	14,5%	4,5%	2,7%	0,7%	9,3%	10,0%	1,8%	2,0%	0,7%
1998	23,8%	14,6%	4,6%	2,8%	0,8%	9,2%	10,0%	1,8%	2,0%	0,8%
1999	24,2%	14,9%	4,7%	2,8%	0,8%	9,3%	10,2%	1,9%	2,0%	0,8%
2000	24,5%	14,9%	4,6%	2,7%	0,8%	9,5%	10,3%	1,9%	1,9%	0,8%
2001	24,9%	15,3%	4,8%	2,9%	0,9%	9,6%	10,5%	1,9%	2,0%	0,9%
_										
individual	P90-100	P95-100	P99-100	P99,5-100	P99,9-100	P90-95	P95-99	P99-99,5	P99,5-99,9	P99,9-100
individual distribution	P90-100 (2)	P95-100 (3)	P99-100 (4)	P99,5-100 (5)	P99,9-100 (6)	P90-95 (8)	P95-99 (9)	P99-99,5 (10)	P99,5-99,9 (11)	P99,9-100 (12)
individual distribution 1986	P90-100 (2) 17,4%	P95-100 (3) 9,8%	P99-100 (4) 2,6%	P99,5-100 (5) 1,5%	P99,9-100 (6) 0,5%	P90-95 (8) 7,6%	P95-99 (9) 7,2%	P99-99,5 (10) 1,1%	P99,5-99,9 (11) 1,0%	P99,9-100 (12) 0,5%
individual distribution 1986 1987	P90-100 (2) 17,4% 17,8%	P95-100 (3) 9,8% 10,0%	P99-100 (4) 2,6% 2,7%	P99,5-100 (5) 1,5% 1,5%	P99,9-100 (6) 0,5% 0,5%	P90-95 (8) 7,6% 7,8%	P95-99 (9) 7,2% 7,3%	P99-99,5 (10) 1,1% 1,2%	P99,5-99,9 (11) 1,0% 1,0%	P99,9-100 (12) 0,5% 0,5%
individual distribution 1986 1987 1988	P90-100 (2) 17,4% 17,8% 19,2%	P95-100 (3) 9,8% 10,0% 11,1%	P99-100 (4) 2,6% 2,7% 3,3%	P99,5-100 (5) 1,5% 1,5% 2,0%	P99,9-100 (6) 0,5% 0,5% 0,6%	P90-95 (8) 7,6% 7,8% 8,1%	P95-99 (9) 7,2% 7,3% 7,7%	P99-99,5 (10) 1,1% 1,2% 1,3%	P99,5-99,9 (11) 1,0% 1,0% 1,4%	P99,9-100 (12) 0,5% 0,5% 0,6%
individual distribution 1986 1987 1988 1989	P90-100 (2) 17,4% 17,8% 19,2% 19,7%	P95-100 (3) 9,8% 10,0% 11,1% 11,7%	P99-100 (4) 2,6% 2,7% 3,3% 3,4%	P99,5-100 (5) 1,5% 1,5% 2,0% 2,0%	P99,9-100 (6) 0,5% 0,5% 0,6% 0,6%	P90-95 (8) 7,6% 7,8% 8,1% 8,0%	P95-99 (9) 7,2% 7,3% 7,7% 8,3%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4%	P99,5-99,9 (11) 1,0% 1,0% 1,4% 1,5%	P99,9-100 (12) 0,5% 0,5% 0,6% 0,6%
individual distribution 1986 1987 1988 1989 1990	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3%	P99,5-100 (5) 1,5% 2,0% 2,0% 1,9%	P99,9-100 (6) 0,5% 0,5% 0,6% 0,6%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 8,0%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4%	P99,5-99,9 (11) 1,0% 1,0% 1,4% 1,5% 1,4%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6%
individual distribution 1986 1987 1988 1989 1990 1991	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4%	P99,5-100 (5) 1,5% 2,0% 2,0% 1,9% 2,0%	P99,9-100 (6) 0,5% 0,5% 0,6% 0,6% 0,6%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 8,0% 7,9%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,0% 8,2%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4%	P99,5-99,9 (11) 1,0% 1,0% 1,4% 1,5% 1,4% 1,4%	P99,9-100 (12) 0,5% 0,5% 0,6% 0,6% 0,6%
individual distribution 1986 1987 1988 1989 1990 1991 1992	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0%	P99,5-100 (5) 1,5% 1,5% 2,0% 2,0% 1,9% 2,0% 2,0% 2,4%	P99,9-100 (6) 0,5% 0,5% 0,6% 0,6% 0,6% 0,6% 0,8%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 8,0% 7,9% 8,1%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,4%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,4% 1,4%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3%	P99,5-100 (5) 1,5% 2,0% 2,0% 1,9% 2,0% 2,0% 2,4% 2,6%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 8,0% 7,9% 8,1% 8,8%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,6% 1,8%	P99,5-99,9 (11) 1,0% 1,4% 1,4% 1,4% 1,4% 1,4% 1,6% 1,8%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993 1994	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4%	P99,5-100 (5) 1,5% 2,0% 2,0% 1,9% 2,0% 2,4% 2,6% 2,6%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 8,0% 7,9% 8,1% 8,8% 9,2%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,6% 1,6% 1,8% 1,8%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6% 23,3%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4% 14,3%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4% 4,4%	P99,5-100 (5) 1,5% 2,0% 2,0% 1,9% 2,0% 2,4% 2,6% 2,6% 2,6% 2,6%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 7,9% 8,0% 7,9% 8,1% 8,8% 9,2% 9,0%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0% 9,9%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,9%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6% 23,6% 23,3% 24,0%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4% 14,3% 14,8%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4% 4,4% 4,4%	P99,5-100 (5) 1,5% 2,0% 2,0% 2,0% 2,0% 2,0% 2,6% 2,6% 2,6% 2,6% 2,6% 2,8%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,8%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 7,9% 8,1% 8,8% 9,2% 9,0% 9,2%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0% 9,9% 10,1%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,9% 2,0%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,9%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6% 23,6% 23,3% 24,0% 24,8%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4% 14,3% 14,3% 14,8% 15,3%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4% 4,4% 4,4% 4,7% 4,9%	P99,5-100 (5) 1,5% 2,0% 2,0% 2,0% 2,0% 2,0% 2,6% 2,6% 2,6% 2,6% 2,6% 2,8% 2,9%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,9%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 7,9% 8,0% 7,9% 8,1% 8,8% 9,2% 9,0% 9,2% 9,0% 9,5%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0% 9,9% 10,1% 10,4%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8% 1,9% 2,0%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,4% 1,6% 1,8% 1,8% 1,9% 2,0% 2,0%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,9%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6% 23,6% 23,3% 24,0% 24,8% 24,7%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4% 14,3% 14,3% 14,8% 15,3%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4% 4,4% 4,4% 4,4% 4,4% 4,4% 4,8%	P99,5-100 (5) 1,5% 2,0% 2,0% 2,0% 2,0% 2,0% 2,6% 2,6% 2,6% 2,6% 2,6% 2,8% 2,9% 2,9%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,9% 0,9%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 7,9% 8,1% 8,8% 9,2% 9,0% 9,2% 9,5%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0% 9,9% 10,1% 10,4%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8% 1,8% 2,0% 2,0%	P99,5-99,9 (11) 1,0% 1,4% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,9% 2,0% 2,0%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,8% 0,7% 0,9%
individual distribution 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999	P90-100 (2) 17,4% 17,8% 19,2% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6% 23,6% 23,3% 24,0% 24,8% 24,7% 24,9%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4% 14,3% 14,3% 14,8% 15,3% 15,2% 15,4%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4% 4,4% 4,4% 4,4% 4,4% 4,4% 4,8% 4,8	P99,5-100 (5) 1,5% 2,0% 2,0% 2,0% 2,0% 2,4% 2,6% 2,6% 2,6% 2,6% 2,6% 2,6% 2,8% 2,9% 2,9% 2,9%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,9% 0,9% 0,9%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 7,9% 8,1% 8,8% 9,2% 9,0% 9,2% 9,5% 9,5% 9,5% 9,6%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0% 9,9% 10,1% 10,4% 10,4% 10,6%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8% 1,8% 2,0% 2,0% 2,0% 1,9%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8% 2,0% 2,0% 2,0% 2,0%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,8% 0,7% 0,9% 0,9%
individual distribution 1986 1987 1988 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000	P90-100 (2) 17,4% 17,8% 19,2% 19,7% 19,3% 19,5% 20,6% 22,6% 23,6% 23,6% 23,3% 24,0% 24,8% 24,7% 24,9% 25,5%	P95-100 (3) 9,8% 10,0% 11,1% 11,7% 11,4% 11,6% 12,5% 13,8% 14,4% 14,3% 14,4% 14,3% 15,3% 15,2% 15,2% 15,4%	P99-100 (4) 2,6% 2,7% 3,3% 3,4% 3,3% 3,4% 4,0% 4,3% 4,4% 4,4% 4,4% 4,4% 4,4% 4,4% 4,8% 5,0%	P99,5-100 (5) 1,5% 2,0% 2,0% 2,0% 2,0% 2,6% 2,6% 2,6% 2,6% 2,6% 2,6% 2,6% 2,8% 2,9% 2,9% 2,8% 3,1%	P99,9-100 (6) 0,5% 0,6% 0,6% 0,6% 0,6% 0,6% 0,7% 0,8% 0,7% 0,8% 0,7% 0,9% 0,9% 0,9% 0,9% 1,0%	P90-95 (8) 7,6% 7,8% 8,1% 8,0% 7,9% 8,1% 8,8% 9,2% 9,2% 9,2% 9,2% 9,5% 9,5% 9,5% 9,5% 9,5% 9,5%	P95-99 (9) 7,2% 7,3% 7,7% 8,3% 8,0% 8,2% 8,6% 9,5% 10,0% 9,9% 10,1% 10,4% 10,4% 10,4% 10,6% 10,8%	P99-99,5 (10) 1,1% 1,2% 1,3% 1,4% 1,4% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8% 1,8% 2,0% 2,0% 1,9% 2,0%	P99,5-99,9 (11) 1,0% 1,4% 1,5% 1,4% 1,4% 1,6% 1,8% 1,8% 1,8% 1,8% 2,0% 2,0% 2,0% 2,0% 2,0% 2,0%	P99,9-100 (12) 0,5% 0,6% 0,6% 0,6% 0,6% 0,8% 0,7% 0,8% 0,7% 0,8% 0,7% 0,9% 0,9% 0,9% 1,0%

Table A5 : Top fractiles incomes shares in total income in urban China, 1986-2001

Source: Authors' computations based on top fractiles incomes levels reported on Tables A2 and A3

	(1)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	% wage earner		Wage income receipts (billions curr	Business income	Capital income	Total receipts		Effective aver Wage earners		rage tax rates Business income earners			Adjusted simulations: Total receipts	
subject to income tax		·		receipts ent vuans)	s receipts	(% GDP)	P0-100	P90-100	P99-100	P0-100	P90-100	P99-100	(billions cur.yuans)	% GDP
1986	0.0%	0.4	0.0	0.1	0.3	0.0%	0.0%	0.0%	0.0%	5.0%	5.0%	5.2%	0.4	0.0%
1987	0,0%	0,4	0,0	0,1	0,3	0,0%	0,0%	0,0%	0,0%	5.0%	5.0%	5,2%	0,4	0,0%
1988	0.1%	0,6	0,0	0,1	0.4	0.0%	0.0%	0,0%	0.2%	5.0%	5.2%	6.4%	0.7	0.0%
1989	0.1%	1.0	0,0	0.2	0,4	0.1%	0.0%	0.0%	0.2%	5.1%	5.3%	6.9%	1.0	0.1%
1990	0.2%	1,0	0,0	0.2	1.0	0.1%	0.0%	0.0%	0.3%	5.1%	5.4%	7.2%	1,0	0.1%
1991	0.2%	1.6	0,0	0.3	1,0	0.1%	0.0%	0.1%	0.4%	5.2%	5.6%	7.6%	1,3	0.1%
1992	0.8%	2.8	0.3	0.4	2 1	0.1%	0.1%	0.3%	1.5%	5.3%	6.3%	9.0%	2.9	0.1%
1993	2.6%	4.4	0.8	0.6	2.9	0.1%	0.1%	0.6%	3.0%	5.6%	7.7%	10.7%	4.4	0.1%
1994	8.4%	9.4	3.5	1.0	4.8	0.2%	0.4%	1.6%	4.9%	6.0%	9.2%	12.1%	8.7	0.2%
1995	14.5%	14.5	6.8	1.4	6.2	0.2%	0.6%	2.5%	5.9%	6.6%	10.2%	12.7%	13.0	0.2%
1996	20.3%	22.2	12.0	2.2	8.0	0.3%	0.9%	3.3%	7.0%	7.2%	11.1%	14.3%	19.3	0.3%
1997	25,0%	32,0	18,6	3,3	10,0	0,4%	1,2%	3,9%	7,7%	7,6%	11,6%	15,1%	26,0	0,3%
1998	27,8%	37,6	22,1	4,0	11,4	0,5%	1,2%	4,0%	7,8%	7,7%	11,7%	15,2%	33,9	0,4%
1999	20,3%	36,5	19,7	4,9	11,9	0,4%	1,0%	3,6%	7,4%	8,0%	12,1%	15,7%	41,4	0,5%
2000	25,9%	48,5	28,0	8,3	12,2	0,5%	1,3%	4,3%	8,6%	8,4%	12,7%	17,0%	66,0	0,7%
2001	32,2%	63,7	39,6	10,3	13,8	0,7%	1,7%	5,0%	9,2%	8,7%	13,2%	18,1%	99,6	1,0%
2002	37,4%	82,1	52,7	14,0	15,4	0,8%	2,0%	5,6%	9,8%	9,1%	13,8%	19,0%	115,2	1,1%
2003	42,5%	105,0	68,8	19,1	17,2	0,9%	2,3%	6,0%	10,3%	9,4%	14,3%	20,1%	144,3	1,3%
2004	35,2%	126,8	81,2	26,5	19,1	1,1%	2,4%	6,7%	10,9%	10,0%	14,9%	21,3%	173,7	1,4%
2005	40,2%	167,4	109,5	36,6	21,3	1,3%	2,9%	7,3%	11,5%	10,5%	15,5%	22,5%	224,2	1,7%
2006	45,6%	219,6	145,5	50,3	23,8	1,6%	3,4%	7,9%	12,1%	11,0%	16,1%	23,6%	289,1	2,1%
2007	50,7%	285,9	190,0	69,3	26,5	1,9%	4,0%	8,4%	12,6%	11,6%	16,9%	24,6%	371,8	2,5%
2008	55,6%	372,6	247,2	95,7	29,6	2,3%	4,7%	9,0%	13,3%	12,2%	18,0%	25,5%	479,9	3,0%
2009	60,3%	480,6	316,1	131,5	33,0	2,8%	5,3%	9,6%	13,8%	12,8%	19,0%	26,3%	615,4	3,6%
2010	64,6%	614,8	398,2	179,8	36,8	3,3%	6,0%	10,2%	14,4%	13,4%	19,9%	27,1%	785,2	4,2%

#### Table A6 : Simulating Income Tax Receipts in China, 1986-2010

Source: Authors' computations based on top fractiles incomes levels reported on Tables A2 and A3 and on income tax schedules reported on Table 1. Adjusted simulations results (col. (14) and (15)) were computed in the following way: for 1996-2001, adjusted simulation results are equal to actual receipts reported on Table 3; for 1986-1996, adjusted simulation results were obtained by upscaling each income source rax simulation by the same adjusted/raw ratios as for 1996; for 2002-2010; for 2002-2010, adjusted simulation results were obtained by upscaling each income source rax simulation by the same adjusted/raw ratios as for 2001.