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Growth and Income Poverty in Latin America and the Caribbean: Evidence from Household Surveys

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## CEDLAS

### Centro de Estudios Distributivos, Laborales y Sociales

Maestría en Economía Universidad Nacional de La Plata



### Growth and Income Poverty in Latin America and the Caribbean: Evidence from Household Surveys

Leonardo Gasparini, Federico Gutiérrez y Leopoldo Tornarolli

> Documento de Trabajo Nro. 30 Diciembre, 2005

# Growth and Income Poverty in Latin America and the Caribbean:

**Evidence from Household Surveys** \*

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#### **Abstract**

This paper provides evidence on growth and income poverty in Latin America and the Caribbean (LAC). Results are obtained by processing microdata from household surveys of 18 LAC countries covering the 1990s and early 2000s. Over this period the LAC economies experienced very heterogeneous patterns of growth and poverty changes. Most countries in the region had a rather meager performance in terms of poverty reduction. Episodes of positive, significant and unambiguously pro-poor income growth have been rare in Latin America.

Keywords: poverty, growth, inequality, pro-poor growth, Latin America.

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#### 1. Introduction

The empirical literature on growth and poverty has flourished since the late 1990s. Based on household survey microdata, several contributions have tried to elucidate whether economic growth tends to "lift all boats", in particular those of the poor. The concern for pro-poor growth is in part the consequence of evidence showing that in some countries the fruits of economic growth were not equally shared by all the population, and, more worrisome, evidence that in some growth episodes the well-being of the poor actually decreased.

This paper provides evidence on pro-poor growth for a sample of 18 Latin American and Caribbean (LAC) countries in the period 1989-2004. Assessing whether growth is associated to a sizeable reduction in poverty is a relevant issue everywhere, but it is particular so in Latin America, a region with arguably the highest levels of inequality in the world, and where the economic reforms that allowed most countries to grow since the early 1990s are still a hot issue of debate.

The literature on poverty and pro-poor growth in Latin America is comprised by two types of studies. On the one hand, there is a large number of country studies providing evidence on poverty and growth patterns for a given economy.<sup>2</sup> Although these contributions can be combined to get an overall picture for Latin America, the conclusions from this merge may be weak, since country studies significantly differ in many dimensions: the welfare indicator (income or consumption), the poverty line, the time period, and the statistics shown. They surely also differ in the hundreds of small decisions needed to get from the raw data to a poverty estimate (zero incomes, outliers, missing data, weights, and so on).

<sup>&</sup>lt;sup>1</sup> Adelman and Morris (1973) and Ahluwalia (1976) are early contributions to this literature. The recent contributions include Ravallion and Chen (1997), Baulch and McCullock (2000), Dollar and Kraay (2000), Kakwani and Pernia (2000), Morley (2001), Foster and Székely (2001), Ravallion and Chen (2003), Kakwani and Son (2004), López and Servén (2004), Ravallion (2004) and Son (2004), among others. Several recent World Bank Poverty Assessments include discussions and evidence on pro-poor growth at the country level.

<sup>&</sup>lt;sup>2</sup> The relevant country-specific papers are too many to fit in the typical space of a footnote. See World Bank (2005 a) for a sample.

The second strand of the literature tries to alleviate these problems by processing household surveys from many countries with a consistent methodology. The main international organizations in the region (Inter-American Development Bank (IADB), United Nations (through CEPAL), and the World Bank) have produced poverty and inequality studies including several countries.<sup>3</sup> This paper differs from that literature in two dimensions. On the one hand, we use a larger and more updated dataset than previous studies, and provide a more detailed explanation of the methodology to make the statistics comparable. More importantly, to the best of our knowledge this is the first paper in which a large consistent dataset of Latin American household surveys is used to compute and analyze a broad set of pro-poor growth measures. While previous studies are restricted to the traditional poverty and inequality estimates, this paper adds several indicators of pro-poor growth. By computing pro-poor growth rates, poverty equivalent growth rates, poverty-growth elasticities, growth-incidence curves and isopoverty curves with alternative poverty lines for all Latin American countries based on a large set of household surveys processed with a consistent well-documented methodology, we are able to provide a more rigorous and comprehensive picture of poverty and pro-poor growth in the region than the previous literature.

The results of the paper suggest a strong correlation between economic growth and income poverty reduction at the country level. On average, poverty has just slightly fallen in Latin America and the Caribbean since the early 1990s due to slow income growth (when income is measured with household survey data) and increases in inequality. The evidence shown in the paper suggests a remarkable heterogeneity of growth and poverty reduction patterns across LAC countries. However, almost none of these economies experienced sustainable strong growth along with significant equalizing distributional changes in the period 1989-2004. By means of microsimulations we illustrate the efforts in terms of neutral growth and simple redistributive policies needed by each LAC country to attain certain poverty-reduction targets. These efforts, sizeable in most countries, depend on the shape and central position of the income distribution.

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<sup>&</sup>lt;sup>3</sup> See Altimir (1994, 1996), Attanasio and Székely (2001), Behrman *et al.* (2002), CEPAL (2005), Fields (1989), Foster and Székely (2001), IADB (1998), Londoño and Székely (2000), Morley (2001), Székely

The rest of this paper is organized as follows. In section 2 we briefly introduce the dataset and the main methodological issues involved in measuring growth and income poverty. Section 3 starts with a basic question: have Latin American and the Caribbean countries grown in the last 15 years? In section 4 we study the distribution of growth rates across income strata by examining growth-incidence curves. Section 5 restricts the analysis to the lower tail of the income distribution. We compute measures of income poverty, and analyze whether growth has been associated to a reduction in the proportion of poor people in the population. Section 6 focuses not on the number of poor people, but on their incomes: has growth been associated to an increase in the incomes of the poor? We also study whether income growth has been higher or lower in poor strata compared to the rest of the population. The links between poverty, growth and inequality in the recent experiences of LAC economies are examined in section 7 by means of microsimulations. We also compute different configurations of neutral growth rates and redistributive policies needed to achieve certain poverty reduction targets. Section 8 closes with some concluding remarks.

#### 2. The data

Most of the statistics in this paper are obtained by processing microdata from household surveys, and are part of the Socioeconomic Database for Latin America and the Caribbean (SEDLAC), jointly developed by CEDLAS at the Universidad Nacional de La Plata (Argentina) and the World Bank's LAC poverty group (LCSPP). The SEDLAC contains information on more than 150 household surveys in 21 LAC countries. In this paper we restrict the sample to 57 household surveys carried out in 18 LAC countries during the 1990s and early 2000s (see Table A at the end of the paper). The sample includes data for Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay and Venezuela. The sample covers all countries in mainland Latin America (except for Guatemala), and two of the largest countries in the Caribbean (Dominican Republic and Jamaica). For most countries our sample has three observations corresponding to the early

and mid 1990s, and the early 2000s. In each period the sample represents around 92% of LAC total population (98% in Latin America and 29% in the Caribbean). Most household surveys included in the sample are nationally representative. The two exceptions are Argentina and Uruguay, where surveys cover only urban population, which nonetheless represents more than 85% of the total population in both countries.<sup>4</sup>

Most Latin American countries have experienced significant improvements in their household surveys in the last decades. In particular, major changes have been implemented in several LAC countries since mid 1990s after the implementation of the MECOVI Program. Although these changes are welcome, they pose significant comparison problems. An example of this situation is the increase in the geographical coverage of the survey. Since regions differ in their economic and social situations, adding a new region into the survey usually significantly affects the national statistics. In countries where changes in geographical coverage of the survey occurred we provide ways of assessing the impact of those changes. For instance, in Bolivia the household survey was urban in 1993 and nationally representative in 1997. We present two sets of statistics for Bolivia 1997: one for the whole sample and one only for those urban areas also surveyed in 1993.

Household surveys are not uniform across LAC countries. The issue of comparability is of a great concern. We have made an effort to make statistics comparable across countries and over time by using similar definitions of variables in each country/year, and by applying consistent methods of processing the data. However, perfect comparability is far from being assured. A trade-off between accuracy and coverage arises. The particular solution adopted contains an unavoidable degree of arbitrariness. We tried to be ambitious enough to include all countries in the analysis, and accurate enough so not to push the comparisons too much. In any case, we provide the reader with relevant information to assess the trade-offs throughout this paper, and in the guide of the dataset in the SEDLAC webpage. <sup>5</sup> That guide

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<sup>&</sup>lt;sup>4</sup> Some studies suggest that including rural areas would not substantially affect poverty estimates in these two Southern Cone countries (Haimovich and Winkler, 2005; Winkler, 2005). Some LAC countries introduced national household surveys in the mid 1990s. For time comparison purposes in some cases we restrict the analysis to urban areas (*e.g.* Colombia), despite the availability of recent national surveys.

www.depeco.econo.unlp.edu.ar/cedlas/sedlac/guide.htm (Gasparini, 2007).

is a companion document to this paper, and should be helpful to those interested in technical details.

We perform the poverty and pro-poor growth analysis using four alternative poverty lines: the international lines of USD 1 and USD 2 a day at PPP, and the moderate and extreme poverty lines used by national governments in each country. For the latter we replicate, whenever possible, the income/consumption variable used by the National Statistical Offices (NSO) to compute official poverty estimates in each country. In most cases it is an income variable, although in some cases (*e.g.* Mexico and Peru) it implies computing a consumption aggregate. These national "income" variables widely vary across countries, as they differ in the treatment of adult equivalent scales, regional prices, implicit rent from own housing, zero incomes, adjustments for non-response and misreporting, and other issues.

In contrast, to apply the international lines of USD 1 and USD 2 we construct a homogeneous household per capita income variable across countries/years that includes all the typical sources of current income. In the web site of the SEDLAC we include tables with all the items considered (or excluded) to compute a comparable income variable in each country/year.<sup>7</sup>

It is well known that household consumption is a better proxy for well-being than household income. Despite this dominance, nearly all comparative distributional and poverty studies in LAC use income as the well-being indicator. A simple reason justifies this practice: few countries in the region routinely conduct national household surveys with consumption/expenditures-based questionnaires, while all of them include questions on individual and household income. Some authors and agencies adjust average income to accord with consumption data from National Accounts to estimate poverty (CEPAL, 2003; Wodon *et al.*, 2000; WDI, 2002). However, it is not clear that the adjustment for

<sup>&</sup>lt;sup>6</sup> In those countries where there is not a national agency estimating poverty we either follow a World Bank Poverty Assessment or some well-know country study. In Brazil, for instance, we follow the methodology proposed by Barros, Carvalho and Franco (2004).

<sup>&</sup>lt;sup>7</sup> See www.depeco.econo.unlp.edu.ar/cedlas/sedlac

<sup>&</sup>lt;sup>8</sup> See for instance Deaton and Zaidi (2002).

consumption increases comparability, since the reliability of National Accounts need not be greater than the reliability of household surveys. Deaton (2003) strongly argues for the use of only survey data to compute poverty, as adjustments to match National Accounts "tend to overstate the reduction of poverty over time, and to exaggerate poverty differences across countries". In this paper we do not perform any adjustment to compute poverty from household surveys. WDI (2003) reports that poverty measures based on consumption and those based on income without adjustment do not significantly differ, due to two effects that roughly cancel each other out: mean income is higher than mean consumption, but income inequality is higher than consumption inequality. Since 2003 the WDI reports poverty statistics computed without adjusting income to match consumption from National Accounts.

Most household surveys report incomes obtained during the month previous to the survey. Some surveys also include information on incomes earned in the last six months (*e.g.* ENIGH in Mexico). In those cases, and for comparative purposes, we only include incomes earned in the last month. Incomes are transformed into monthly incomes if values are not reported on a monthly basis (*e.g.* weekly payments).

We apply consistent rules to deal with missing incomes. Suppose income from source s is missing for individual i. Should we record as missing that individual's total income? If we take that alternative, should we in turn record as missing the total income of individual i's household? We make the following (necessarily arbitrary) decisions. If s is not the main source of income for i, then we compute the individual total income ignoring source s. If instead s is the main source, we record total income as missing. This alternative has the advantage of not dropping from the dataset individuals who do not respond questions on income sources of secondary importance. The cost to be paid is the likely income underestimation for these individuals. Regarding household income, we record it as missing if the household head's total income is missing. Otherwise, we compute household income assigning zero income to non-heads with missing income.

<sup>&</sup>lt;sup>9</sup> Information identifying the main source of income is usually available in LAC surveys.

Our household income variable includes an estimate of the implicit rent from own housing. Some surveys include reliable self-reports of the implicit rent. In those surveys where this information is not available, or is clearly unreliable, we increase household income of housing owners by 10%, a value that is consistent with estimates of implicit rents in the region. All rural incomes are increased by a factor of 15% to capture differences in rural-urban prices. That value is an average of a set of detailed studies of regional prices in the region (Gasparini, 2007). Although certainly arbitrary, we believe this alternative is better than (i) ignoring the problem of regional prices altogether, or (ii) using for each country the available price information, despite the enormous differences in methodology, scope, and results.

#### 3. Growth: evidence on the mean

The region had a positive but modest performance in terms of per capita GDP growth between 1990 and 2004. The unweighted average annual growth rate was 1.3% when GDP is measured in real local currency units (LCU), and 1.4% when GDP is measured in PPP US dollars (adjusted by the implicit price deflator of GDP in the United States). Most countries in the region managed to grow. However, per capita GDP growth rates were rather modest: only a few countries grew at more than 3% per year. Around half of the countries in the region had disappointing rates of less than 1%. Growth was not uniform across regions and over time (see Table 1). After a bad performance during the 1980s ("the lost decade" in terms of growth), the LAC economies grew on average at around 2% in the 1990s fueled by favorable external conditions and market-oriented reforms. The region suffered a period of slower growth and recessions in the early 2000s, with deep crisis in some countries. The mean growth rate was a negligible 0.1% in the period 2000-2004. The state of the period 2000-2004.

- Place Table 1 here –

<sup>&</sup>lt;sup>10</sup> Since around 2003 most countries have overcome the crisis and started to grow again at relatively high rates

Table 2 shows the annual growth rates for the countries included in this study. The unweighted average growth rate in the sample is 1.5% when measured in real LCU. Unfortunately, our analysis with survey microdata does not cover exactly the period 1990-2004 in each country. That mismatch is driven mainly by the unavailability of reasonably comparable household surveys in both years. Columns (iv) and (v) in Table 2 show the annual per capita GDP growth rates for the periods to be analyzed with the available household surveys in each country. On average the growth rates are somewhat smaller, mainly because for some countries our sample starts in the mid 1990s.

#### Place Table 2 here –

Column (vi) in Table 2 reports the annual growth rates in our homogeneous household per capita income variable computed from household survey microdata. Growth in that variable does not coincide with per capita GDP growth from National Accounts. Of course, they are two different concepts and there are many reasons why they may differ in practice. The linear correlation coefficient between growth rates in household surveys and in per capita GDP is positive and significant. However, some of the differences seem very large. In five countries the sign of the growth rates are different. Since poverty figures are drawn from household surveys, recorded poverty trends may be different from what is expected from looking at per capita GDP figures. Given that, should we adjust incomes in household surveys to match National Accounts? There are good arguments to avoid the adjusting, at least until differences in National Accounts and household surveys are well-understood (Deaton, 2005). A careful study of the reasons behind the differences would be extremely helpful, but it is beyond the scope of this paper. In section 5 we include poverty estimates obtained by adjusting mean income by National Accounts to provide a robustness check to our calculations.

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<sup>&</sup>lt;sup>11</sup> In Chile incomes from household survey are adjusted to match some National Accounts figures. Unfortunately, for this study we could not completely undo these adjustments to make Chile comparable to the rest of the countries. Pizzolitto (2005) reports that growth and poverty patterns are robust to these adjustments.

#### 4. Growth: evidence on its distribution

The growth-incidence curves introduced by Ravallion and Chen (2003) are simple and illustrative instruments to analyze growth rates along the income distribution. Specifically, they show the proportional income change at each percentile of the income distribution. They are frequently used to study the extent to which different segments of the population participate in the growth process (or suffer from a recession). The interpretation of such a simple instrument, however, should be made with caution. There are multiple factors that affect income changes, and all are reflected at the same time in a growth-incidence curve. Some of them may have nothing to do with the "growth process", and some may have complex interactions. Suppose half of the population lives in the countryside and is poor, while the other half lives in the cities and is not poor. Suppose in a given period the government has made investments in schools and infrastructure that allowed productivity to increase 50% in rural areas and 20% in urban areas. However, in the same period the international price of the main crop collapsed, reducing the price received by local farmers by 50%. In that scenario, the growth-incidence curve for the country might show stagnant incomes for the poor, and increasing incomes for the non-poor. Growth in this country is then typically characterized as "not pro-poor" in any of its definitions, despite the fact the increase in productivity driven by the government policies benefited (especially) the poor.

Figures 1 show the growth-incidence curves for all the countries in our sample. These curves are constructed from the household per capita income variable obtained in each country using the common methodology. These curves are known to be very volatile at the extremes, especially in the bottom percentiles. For this reason we have computed confidence intervals, and deleted from the figures those points where estimates seem very imprecise. A disappointing result should be noticed from the outset: almost none of the LAC countries experienced sustainable strong growth along with significant equalizing distributional changes. In fact, Nicaragua is the only country where the growth-incidence

<sup>&</sup>lt;sup>12</sup> Growth-incidence curves for the income/consumption variables used for the estimation of official poverty with national lines are available from the authors upon request.

<sup>&</sup>lt;sup>13</sup> Confidence intervals for all growth-incidence curves are available from the authors.

curve lies above the horizontal axis and is decreasing on income, that is, economic changes have benefited all the population, and particularly the poor.

#### - Place Figure 1 here –

The figures illustrate the heterogeneous growth patterns experienced by the LAC countries over the last 15 years. For instance, in the Southern Cone, while Chile has experienced sustainable growth along the income distribution, in Argentina income changes have been negative and clearly unequalizing. Although to a lesser extent, that was also the pattern for Uruguay. In contrast, between 1990 and 2003 incomes in Brazil increased a bit, in particular in the first half of the 1990s. The growth-incidence curve of Figure 1 suggests mild equalizing income changes in that country.

#### 5. Growth and poverty I: the proportion of poor people

As an economy grows incomes go up, and then it is expected that some people are able to jump out of poverty. The relationship between economic growth and income poverty is, however, a subject of much debate. Is there really a negative correlation between these two phenomena? Is the correlation strong? Are there many exceptions to the growth-poverty-reduction story? We start this section by showing poverty statistics, and then link them to growth figures.

We restrict the analysis to income poverty. Poverty is defined as the inability of achieving a certain minimum income level, known as the poverty line. Since there is a fundamental arbitrariness in defining poverty, different authors and agencies use different poverty lines. In this paper we compute a set of poverty indicators based on international poverty lines (USD 1 a day and USD 2 a day at PPP) and national poverty lines (extreme and moderate). Both approaches (international and national) are useful. While the measurement of poverty with national lines takes into consideration that societies differ in the criteria used to identify the poor, the international lines are unavoidable instruments to compare absolute poverty levels and trends across countries, and provide regional and world poverty counts.

The USD1-a-day line was proposed in Ravallion *et al.* (1991) and used in World Bank (1990). It is a value measured in 1985 international prices and adjusted to local currency using purchasing power parities (PPP) to take into account local prices. The USD 1 standard was chosen as being representative of the national poverty lines found among low-income countries. The line has been recalculated in 1993 PPP terms at \$1.0763 a day (Chen and Ravallion, 2001). This value is multiplied by 30.42 to get a monthly poverty line. The USD-2-a-day line is also extensively used in comparisons across middle-income countries (like most of LAC ones), and periodically presented in the World Development Indicators (WDI). Although the USD 1 or 2 lines have been criticized, their simplicity and the lack of reasonable and easy-to-implement alternatives have made them the standard for international poverty comparisons.<sup>14</sup>

Following Deaton (2003) and WDI (2004) we compute the poverty line for 1993 in local currency units using the PPP adjustment, and then take that value to the month(s) of a given survey using the national consumer price index of the country.

We also compute moderate and extreme poverty using national lines, whenever possible. Most LAC countries have official national extreme poverty lines which are mostly based on the cost of a basic food bundle, and moderate poverty lines computed from the extreme lines using the Engel/Orshansky ratio of food expenditures. Despite some similarities, methodologies for national poverty estimates substantially differ across nations. Some countries use expenditures (*e.g.* Mexico), others use incomes (*e.g.* Argentina) and others a mix of income and expenditures (*e.g.* Bolivia).

#### **5.1. Poverty changes**

suggest a remarkable heterogeneity. While some countries achieved significant poverty reductions (e.g. Brazil, Chile, El Salvador, Jamaica, Nicaragua), some others experienced large increases in the incidence of poverty (e.g. Argentina and Venezuela). Figure 2

Has poverty fallen in LAC countries during the last 15 years? The estimates in Table 3

<sup>&</sup>lt;sup>14</sup> See Srinivasan (2004), Kakwani (2004) and Ravallion (2004) for a discussion on the merits and demerits of the USD-1-a-day line.

illustrates these disparities by showing the change in the poverty headcount ratio (USD-2-aday poverty line) between the early 1990s and the estimated value for 2004. The results are robust to other poverty indicators. 16

- Place Table 3 here –
- Place Figure 2 here –

On average, the Latin American performance in terms of poverty reduction over the last 15 years has been rather disappointing (see Table 4). The population-weighted mean of the poverty headcount ratio has dropped 1.2 points when using the USD-2-a-day line. The fall in the unweighted mean has been larger, but still meager: just less than 2 points. Poverty moderately fell over the 1990s and increased in the early 2000s. 17 As the population has been growing, and the incidence of poverty did not significantly decay, the number of poor people in the region has increased. The recent recovery of the LAC economies is helping reducing poverty in most countries, but even in that scenario the overall assessment of the last two decades is not positive. Figure 3 shows a small drop in the LAC mean poverty headcount ratio between the early 1990s and 2004, and an increase in the number of poor people, using both the USD 1 and 2 lines.

- Place Table 4 here –
- Place Figure 3 here –

There are substantial differences across regions in poverty reduction. The unweighted poverty mean clearly went down in Central America. In contrast, the performance in South America has been weak, while poverty levels went up in the Andean community. The population-weighted results are somewhat different. As poverty decreased in the mostpopulated country of the region, Brazil, the poverty weighted-mean in the Mercosur went

<sup>&</sup>lt;sup>15</sup> Year 2004 poverty figures are estimated by combining per capita GDP growth rates with poverty-growth elasticities (see below). The same procedure is applied when we do not have estimates (own or from other sources) for the early 1990s for a given country.

<sup>&</sup>lt;sup>16</sup> See the SEDLAC webpage for estimations of the FGT(1) and FGT(2) for all country/years.

<sup>&</sup>lt;sup>17</sup> The general picture of poverty trends in Latin America from this paper is similar to that from other sources (CEPAL, 2005; WDI, 2003). CEPAL (2005) uses a methodology based on national consumption baskets, while WDI (2003) uses international poverty lines.

significantly down. In contrast, as poverty in Mexico stayed unchanged, the poverty record in Central America appears less impressive when taking weighted means.

As discussed in section 3 changes in incomes from household surveys do not match figures from National Accounts. Although our preferred option is to compute poverty only with data from household surveys, in order to check for robustness we also follow the methodology in Sala-i-Martin (2006) and anchor the mean of the distribution with the per capita GDP of each country. Table 5 reports changes in poverty under the two alternatives. The linear correlation between the two columns is positive and significant (0.78). However, in some countries the differences are sizeable. For instance, while poverty went up 11.4 points in Argentina according to household survey data, the increase is 4.4 points when adjusting the mean for National Accounts figures. In accordance with the findings of Deaton (2003), in most LAC countries poverty falls more (or increases less) when adjusting for GDP growth. That may be due to faster growth of some income sources not common among the poor (capital, benefits, rents). In that case, adjusting incomes in household surveys for GDP growth would overstate the fall in poverty.

- Place Table 5 here -

#### **5.2.** Growth and poverty

It is said that growth is a fundamental ingredient in the recipe for poverty reduction. In this section we examine whether growth in mean income was in fact associated to a reduction in the proportion of people below the poverty line, and how strong this link seems to be in Latin America.

The first panel in Figure 4 suggests a strong relationship between per capita GDP and poverty levels. The linear correlation coefficient is high (-0.84): countries that have grown in the past are those with the lower proportion of poor people. As expected, poor countries, in the sense of low per capita GDP, are also countries with a large proportion of poor people. Naturally, the association poverty – mean per capita income from household surveys is even stronger (second panel in Figure 4). The linear correlation coefficient is -0.93.

#### Place Figure 4 here –

The strong empirical relationship shown above could be the result of a tight association between economic development and poverty reduction that occurred in the past, but that no longer exists. In fact, some people argue that the new growth patterns in the globalization era are leaving the poor behind, and that aggregate economic growth is no longer closely linked to poverty reduction. Figure 5, however, suggests that there has been a significant relationship between economic growth and poverty reduction during the last two decades. The linear correlation when using per capita GDP growth rates is -0.62 in panel A and -0.68 in panel B. Notice, however, that those economies that have been stagnant or growing at very low rates (in terms of per capita GDP) have experienced poverty increases: the linear regression line lies above the origin. On average only economies that have grown at more than annual 1% have been able to reduce poverty. The relationship growth-poverty reduction is stronger when considering the annual growth rates in incomes from household surveys: the correlation coefficient is -0.87 in the two bottom scatterplots of Figure 5.

#### - Place Figure 5 here –

Of course, these simple correlations do not prove any causal relationship. That economic growth is empirically associated to a reduction in poverty does not mean that anything that makes mean income go up will make poverty go down. It also says nothing about the need for policy interventions and the appropriate policy instruments. However, the correlations shown suggest the relevant role that growth should have in any poverty-reduction strategy.

How strong is the link between growth and poverty reduction? Even if the relationship between these variables is statistically significant, it could be the case that fast growth is associated to a small poverty drop. Table 6 reports the annual proportional change in poverty and the income growth rate in each period, and the resulting poverty-growth elasticities. Although sometimes illustrative, these elasticities are highly sensitive to the specific location of the poverty line in the income distribution, and to the growth rate. In one extreme if the growth rate is zero, any change in poverty would imply infinite poverty-growth elasticity. For this reason in Table 6 we delete the elasticities when the growth rate is less than 1%.

#### Place Table 6 here –

In most countries episodes of economic growth are associated to growing disposable income and falling poverty, implying negative poverty-growth elasticities. The magnitude of these elasticities varies as we consider incomes from surveys or GDP from National Accounts, and alternative poverty lines. On average, the elasticity is around -1.4 when considering international poverty lines and income growth from household surveys, and -1.7 when using GDP growth from National Accounts. The results obtained from a cross-country regression are similar (Table 7). The results are just illustrative since we have only 30 observations. The estimated poverty-growth elasticities are around -1.6. The interactions of the growth rate with the distance between the poverty line and the mode of the income distribution, and with the change in the Gini coefficient do not appear to be statistically significant.

#### - Place Table 7 here –

#### 6. Growth and poverty II: the real and relative incomes of the poor

Frequently, the discussion about growth and poverty deals not with the change in the number of poor people, but with the income changes experienced by the poor. In this section we start by examining changes in real incomes of the poor population, and then turn to relative incomes.

#### 6.1. The real incomes of the poor

According to one well-know definition growth is said to be *pro-poor* if and only if poor people benefit in real terms (Ravallion and Chen, 2003; Ravallion, 2004). The growth-incidence curves computed in section 4 are useful instruments to assess changes in the real incomes of the poor. The fact that the curve is above the zero axis at all points up to the headcount ratio H means that real income has increased for all the poor population.<sup>18</sup> Define  $\alpha$  to be a weighted sum of the individual income growth rates  $g_{i}$ , *i.e.*  $\alpha = \sum_{i} \sigma_{i} g_{i}$ ,

where  $\sigma_i$  are the weights, which are non-increasing in income  $x_i$ . In a typical poverty analysis the weights attached to the non-poor are zero, *i.e.*  $\sigma_i$ =0 if  $x_i$ ≥z, where z is the poverty line. In this context growth is said to be pro-poor if  $\alpha$ >0. In particular, if  $\sigma_i$  is the same for all the poor people an equal to 1/NH, where N stands for total population, then  $\alpha$  is just the average of the growth rates of the poor. Ravallion and Chen (2003) argue for the use of this average as a measure of pro-poor growth. They show that this indicator is equal to the change in the Watts poverty index per unit time divided by the headcount index.

The Ravallion and Chen's measure of pro-poor growth is computed in Table 8 for all the countries in our sample. In most cases we present the results for four alternatives poverty lines. In columns (iii) and (iv) we compute the mean growth rate of household per capita income for those below the USD1 and USD2 lines, respectively. In columns (v) and (vi) we compute the mean growth rate in the income (or consumption) variable used for official poverty estimates in each country, for those below the extreme and moderate lines. In all cases we compute growth rates for those percentiles below H in the initial period.

#### - Place Table 8 here -

The table reads as follows. Between 1992 and 2004 mean income in the Argentina's Encuesta Permanente de Hogares decreased at an annual 2.9%. The fall in per capita income for the poor was much harsher: around 7.9% per year for the USD 2 a day definition. Real incomes for the most disadvantaged fraction of the Argentine population have decreased at a fast rate.

Pro-poor growth rates have been positive in urban Bolivia, Brazil, Chile, Costa Rica, El Salvador, Jamaica, Panama, and Nicaragua, and negative in Argentina, Colombia, Mexico, Uruguay and Venezuela. Dominican Republic, Ecuador, Honduras and Paraguay also experienced negative pro-poor growth rates since mid 1990s.

<sup>&</sup>lt;sup>18</sup> It can be shown that it also means that poverty falls for a broad class of poverty measures (Atkinson, 1987).

#### **6.2.** The relative incomes of the poor

It is argued that the concept of pro-poor growth should make reference to situations where growth is associated to a proportionally larger income increase for the poor than for the rest of the population. According to this view growth is pro-poor if poverty falls more than it would have if all incomes had grown at the same rate (Baulch and McCullock, 2000; Kakwani and Pernia, 2000; Kakwani and Son, 2004; Son, 2004).

Perhaps surprisingly, the term *progressivity*, extensively used in tax and benefit-incidence analysis, has been rarely used in this literature. A program is said to be progressive if the benefits as a share of income are a decreasing function of income. In the same way, growth can be defined as progressive if the change in income as a share of initial income (i.e. the growth rate) is a decreasing function of income. Define  $\beta$  as a weighted sum of the difference between the individual income growth rate  $g_i$  and the growth rate of the mean  $g_{\mu}$ , i.e.  $\beta = \sum_{i} \sigma_{i}(g_{i} - g_{\mu})$ . Growth is said to be progressive if  $\beta > 0$ . In the case where  $\sigma_{i} = 0$  if  $x_i \ge z$ , and  $\sigma_i = 1/NH$  if  $x_i < z$ , then  $\beta$  is just the difference between the average of the growth rates of the poor and the growth rate of the mean. The last panel in Table 8 reports this measure of progressive growth for four alternative poverty lines. The experiences have been heterogeneous across countries. Only four countries have significant progressive growth rates. In the case of Dominican Republic and Paraguay that reflects the fact that the poor suffered less (in terms of income changes) than the non-poor in the recent economic contractions. In Panama and despite a stagnant mean income, the incomes of the poor have increased. Finally, Nicaragua is the only country that exhibits growth rates that are significant, positive and progressive.<sup>19</sup>

In summary, episodes where income growth was positive, significant and unambiguously pro-poor (in absolute and relative terms) have been rare in Latin America in the last 15 years. In contrast, the region has some cases of significant negative growth that strongly hit the poor: Argentina and Venezuela for the last decade, and several countries since the late 1990s fit into this category.

## 7. Poverty, growth and inequality: assessing the past and looking to the future

Driven by a multiplicity of factors individual real incomes change in a given period. These changes usually modify different dimensions of the income distribution, like the mean, the degree of dispersion, and the mass below certain cut-off points. In this sense growth, (associated to the change in the mean of the income distribution), changes in inequality (associated to changes in the income dispersion), and changes in poverty (associated to changes in the lower tail of the distribution) are all particular manifestations of the change in the whole income distribution. Growth, inequality and poverty are "endogenous variables", and then it is not valid, for instance, to think changes in poverty as *caused* by growth and changes in inequality.

Being said that, researchers have found useful to decompose the change in the whole income distribution into two steps: changes in its central position (growth) and changes in its dispersion (inequality). Each of these steps in turn implies changes in the lower tail of the distribution (poverty). In that analysis, then, changes in poverty are presented as the result of growth and changes in inequality. Growth rates in Latin America were analyzed in the previous sections. In this section we first take a look at inequality, and then discuss the decomposition of poverty changes into growth and redistribution effects.

#### 7.1. Inequality changes

The measurement of inequality faces many conceptual and practical issues that are treated in a vast literature.<sup>20</sup> In Table 9 we show changes in some of the most widespread inequality indicators computed over the distribution of household per capita income. The SEDLAC web page presents the levels of these inequality measures, estimates using other

<sup>&</sup>lt;sup>19</sup> However, notice that the assessment is not that good when taking consumption as the welfare indicator, that is, the variable that is used in Nicaragua to compute official poverty with national lines.

<sup>&</sup>lt;sup>20</sup> For practical issues in Latin America see Székely and Hilgert (2000), Gasparini (2004) and World Bank (2004 and 2005 b).

income variables, and confidence intervals for the Gini coefficients. Although the inequality ranking of countries varies as we consider different indices, the linear correlations among indices are high. Argentina, Costa Rica, Dominican Republic, Uruguay and Venezuela consistently rank as the most equal economies in the region, while Bolivia, Brazil, Ecuador, Panama and Paraguay occupy the last positions in the inequality ladder.

#### Place Table 9 here –

The assessment of the *changes* in inequality becomes more dependent on the index used (see Table 9).<sup>21</sup> The correlations are still positive and significant, but smaller in size than the correlations of inequality levels. Argentina and Colombia stand out as the countries that experienced the largest increases in inequality, with changes of around 6 Gini points. Bolivia, Costa Rica, Ecuador, Uruguay and Venezuela have also witnessed unequalizing distributional changes. Brazil is the only country for which all indices coincide in reporting a drop in income inequality. In Mexico all measures but the Atkinson index with inequality-aversion parameter 2 suggest a fall in inequality.

#### 7.2. Exploring the changes in poverty

As discussed above, changes in poverty can be statistically decomposed into growth and redistribution effects. In particular, we simulate the poverty change that would have occurred in a given period, had the mean income changed, but the shape of the distribution stayed fixed. In this simulation poverty changes as the "result" of changes in mean income, while inequality remains unchanged. This is the *growth effect* on poverty changes. The *redistribution effect* records the change in poverty that would have occurred if the shape of the distribution had changed in the way it did, but the mean had remained fixed.<sup>22</sup> Table 10 shows the results of decomposing poverty changes into growth and redistribution effects

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<sup>&</sup>lt;sup>21</sup> In contrast, the assessment does not depend on the income variable used. For instance, the correlation coefficients of the changes in inequality computed over the distribution of per capita income and over the distribution of household income adjusted for adult equivalent scales are around 0.99.

<sup>&</sup>lt;sup>22</sup> See Mahmoudi (1998). Datt and Ravallion (1992) introduced the poverty-change decompositions using parametric representations of the income distribution.

for each country in our dataset, using four alternative poverty lines. Negative numbers mean that income growth and drops in inequality have contributed to poverty reduction.

#### - Place Table 10 here -

Poverty as measured by the USD2 line increased 11.9 points in Argentina between 1992 and 2004 (column iv). If all incomes had changed (decreased in the Argentine case) at the same rate as the mean did, then the poverty headcount ratio would have increased 4.3 points (column v). The remaining 7.6 points of poverty increase (column vi) were driven by changes in the shape of the income distribution, which in the Argentine case were unequalizing. Notice that while the redistribution effect accounts for most of the poverty change when using the international and the national extreme lines, the growth effect becomes prominent when using the national moderate poverty line. This observation is mainly driven by the fact that the national moderate poverty line is close to the mode of the income distribution in Argentina.

Most of the successful stories of poverty reduction (using the USD 2 line) were driven by generalized growth: Bolivia (92-03), Chile (90-03), Costa Rica (92-03), El Salvador (91-03), Jamaica (90-02), and Nicaragua (93-01). Only in Brazil (90-03) and Panama (95-02) the redistribution effect was larger than the growth effect. Brazil and El Salvador are the only cases for which both the growth and the redistribution effect were significantly poverty-reducing for all poverty lines.

Unequalizing distributional changes are behind the increase in poverty in Argentina (92-04), Colombia (92-00), and Ecuador (94-98). In contrast, the raise in poverty is mainly or totally associated to a generalized income drop in Dominican Republic (00-04), Paraguay (97-02), Uruguay (89-03) and Venezuela (89-00). Argentina is the only country for which both the growth and the redistribution effect were significantly poverty-increasing for all poverty lines considered.

#### 7.3. Looking to the future: isopoverty curves

Poverty reduction is one of the main goals of national societies and international organizations. The roads leading to that goal are subject of great debate. In this section we simplify the issue by thinking poverty reduction as the result of either neutral per capita

income growth, or redistributive policies, or a combination of both. Of course, reality is much more complex: there might be no policy instrument that increase productivity proportionally for all the population, while redistributive policies may take a significant toll on efficiency, and hence on incomes. However, it is still illustrative to know what is the effort in terms of neutral economic growth and simple non-distortionary redistributive policies to attain a certain poverty target. This information is useful at least to have an idea of the "distance" of the country from the poverty target in terms of growth and redistribution.

Specifically, in this section we compute isopoverty curves, that is, combinations of neutral growth rates and simple redistributive policies that are capable of attaining a given poverty objective.<sup>23</sup> The starting point in each country is the latest income distribution available. We model growth by multiplying household income by a constant, thus assuming neutral growth. This exercise tell us at what rate the economy should grow, with unchanged Lorenz curve, to meet a given poverty target.

We also model two alternative distributive policies. In the first one we tax all income at the same rate and allocate the revenues in equal amounts per capita.<sup>24</sup> It can be shown that the fall in the Gini coefficient after this exercise is similar to the tax rate. This simple redistributive policy, although not targeted to the poor, is not far from the actual fiscal system of several countries in LAC, where taxes are approximately proportional and public expenditures per capita do not substantially vary with income.

The second redistributive policy minimizes the fiscal cost of a given poverty reduction, as measured by the headcount ratio, since only the poor who are closer to the poverty line receive the transfer (*i.e.* those that need a smaller transfer to escape out of poverty), and they receive only the minimum amount needed to reach the poverty line. In addition, uniform taxes are only paid by the non-poor. Although this policy would be probably undesirable (as the very poorest do not receive transfers), and difficult to implement (as it is perfectly targeted, with transfers depending on income), it is theoretically interesting as a

<sup>&</sup>lt;sup>23</sup> See Gasparini and Cicowiez (2005) for specific details on the computation of these curves.

<sup>&</sup>lt;sup>24</sup> See Paes de Barros et al. (2003) and Ferreira and Leite (2003).

lower bound for the fiscal effort to meet the poverty goal. In both redistributive policies we assume no efficiency costs (or gains).

#### Place Table 11 here –

For each LAC country in our sample we compute isopoverty curves using four alternative poverty lines. In each case we estimate three curves, corresponding to the goals of reducing poverty 25%, 50% and 75% from current levels in ten years. For instance, based on the 2003 figures Costa Rica will have to grow at an annual rate of more than 2% for the next decade to reduce poverty in 25%, assuming no changes in inequality (column (i) in Table 11). The corresponding growth rates for the target of reducing poverty in 50% are between 4.9% and 8.7%, depending on the poverty line chosen (column (ii)). Halving poverty through a simple redistributive linear policy demands an incremental tax rate of 5.1% if poverty is measured with the USD1 line, a rate of 8.5% if poverty is measured with the USD 2 line, and of 17% if moderate poverty wants to be halved (column (v)). Obviously, the possibility of combining the two policies reduces the growth and tax rates needed to reach a given poverty target (see Figure 6). However, notice that the values involved are still significant. If Costa Rica grows at an annual 3% for the next decade with no distributional changes, it will still need to implement a redistributive policy with a 3.4% incremental tax rate to be able to halve poverty, as measured with the USD 2 line. If Costa Rica were able to implement a perfectly targeted system of transfers, the fiscal effort to halve poverty would be small (incremental rate of around 0.2%).

#### - Place Figure 6 here –

The impact of a neutral growth rate on the *proportional* change in poverty depends on the shape of the income distribution below the poverty line. If the proportion of people "close" to the line is large compared to all the people below the line, then neutral growth will take a large proportion of people out of poverty. While 20% of the Uruguayans below the USD 2 poverty line have incomes that are just less than 10% lower than the line, the corresponding proportion in Paraguay is 7%. Figure 7 shows that Uruguay would need to growth at much smaller rates than Paraguay to halve poverty in 10 years. The linear correlation (across countries) between the fraction of the poor who are close to the line and the size of the growth effect in Table 11 is negative and large (-0.85).

#### - Place Figure 7 here –

The size of the redistribution policy needed to achieve a given poverty-reduction target is larger for the poorest countries (in terms of mean income from household surveys at USD PPP). Poorer countries have lower mean income - and hence lower revenues from a given tax rate -, and higher poverty – and hence need a greater effort to halve poverty. The second panel in Figure 7 ranks the countries in our dataset by the incremental tax rate needed to halve poverty in 10 years with no growth. The linear correlation coefficient between this rate and mean income at USD PPP is negative and large (-0.90). Figure 8 illustrates the incremental tax rate needed to halve poverty if the economies managed to grow at a neutral annual 3% rate for 10 years. For many countries the size of the redistribution involved is large.

#### Place Figure 8 here –

#### 8. Concluding remarks

In this paper we have provided evidence on the association between growth and poverty reduction in Latin America and the Caribbean over the period 1989-2004. We believe that the paper makes a contribution to the understanding of poverty and pro-poor growth in LAC by (i) applying an homogeneous and well-documented methodology to process microdata from household surveys of 18 countries, (ii) computing a large set of methodological instruments to study poverty and growth (pro-poor growth rates, poverty-equivalent growth rates, poverty-growth elasticities, growth-incidence curves and isopoverty curves), and (iii) assessing the robustness of the results to alternative poverty indicators and poverty lines.

We highlight some few general results in this final section. The evidence in LAC suggests a strong correlation between economic growth and income poverty reduction. On average, economies that have grown (per capita GDP) at more than annual 1% have been able to reduce poverty. The relationship growth-poverty reduction is stronger when considering the growth rates in incomes from household surveys.

On average, poverty has just slightly fallen in Latin America and the Caribbean since the early 1990s. This frustrating pattern is associated to slow growth (especially when measured with household survey data) and increases in inequality. Almost none of the LAC countries experienced sustainable strong growth along with significant equalizing distributional changes in the last decade and a half. Most of the episodes of poverty reduction in the region were driven by generalized income growth, and not by redistribution.

By means of microsimulations we illustrate the efforts in terms of neutral growth and simple redistributive policies needed by each LAC country to attain certain poverty-reduction targets. We show that these efforts are sizeable, and depend on the shape of the income distribution below the poverty line, and on mean income.

Throughout the analysis we find that the LAC average is not a good representation of the country performances. The evidence suggests a remarkable heterogeneity of growth and poverty reduction patterns. Poverty has been consistently reduced in urban Bolivia, Brazil, Chile, Costa Rica, El Salvador, Jamaica, Panama, and Nicaragua. In contrast, the region exhibits some cases of significant negative growth that strongly hit the poor: Argentina, and Venezuela over the whole period under analysis, and several countries since the late 1990s fit into this category. This heterogeneity of experiences is a good scenario for researchers to identify the determinants of successful poverty reduction episodes, and in particular the role played by economic growth.

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Table A Household surveys in LAC Main characteristics

Encuesta Permanente de Hogares   EPH   1998   October   Urban   2,1,48	Country	Name	Acronym	Year	Field work	Coverage	Households	Individuals
Encuesta Permanente de Hogares - Continua   EPH-C   2002   First half   Urban   21,148   Encuesta Permanente de Hogares - Continua   EPH-C   2004   First half   Urban   23,147   28,	Argentina	Encuesta Permanente de Hogares		1992	October			67,775
Encuesta Demanente de Hogares - Curitirus   EPH-C   2004   First half   Urban   26,147								99,174
Bolivia								77,733
Encuesta Nacional de Empleo   ENE   1997   November   National   5.746		Encuesta Permanente de Hogares-Continua	EPH-C	2004	First half	Urban	26,147	93,214
Encuesta Confinitu de Hogares - MECOVI   ECH   2002 Nov/Dio   National   5,746	Bolivia		EIH	1993	November	Urban	4,297	20,160
Encuesta Confinitu de Hogares - MECOVI   ECH   2002 Nov/Dio   National   5,746		Encuesta Nacional de Empleo	ENE	1997	November	National	8,462	36,752
Pesquisa Nacional por Amostra de Domicilios   PNAD   1995   September   National   102.005   3   Pesquisa Nacional por Amostra de Domicilios   PNAD   1999   September   National   102.005   3   Pesquisa Nacional por Amostra de Domicilios   PNAD   2003   September   National   102.005   3   Pesquisa Nacional por Amostra de Domicilios   PNAD   2003   September   National   102.005   3   Pesquisa Nacional por Amostra de Domicilios   PNAD   2003   September   National   102.005   3   Pesquisa Nacional por Amostra de Domicilios   PNAD   2003   November   National   26,783   3   1   1   1   1   1   1   1   1		Encuesta Continua de Hogares- MECOVI	ECH	2002	Nov/Dic	National	5,746	24,933
Pesquisa Nacional por Amostra de Domicilios   PNAD   1999   September   National   102,005   3 Pesquisa Nacional pro-mostra de Domicilios   PNAD   2003   September   National   117,08   3 Pesquisa Nacional pro-mostra de Domicilios   PNAD   2003   September   National   22,733   4 Pesquisa Nacional pro-mostración Sociococomómica Nacional   CASEN   1996   November   National   22,733   4 Pesquisa   1992   November   National   26,813   2 Pesquisa   2 Pesqu	Brazil	Pesquisa Nacional por Amostra de Domicilios	PNAD	1990	September	National	78,512	305,967
Pesquisa Nacional por Amostra de Domicilios   PNAD   2003   September   National   117,008   3   17,008   3   17,008   3   18,000   17,000   18   18,000   19,000		Pesquisa Nacional por Amostra de Domicilios	PNAD	1995	September	National	92,198	334,263
Chile Encuesta de Caracterización Socioeconómica Nacional Encuesta de Caracterización Socioeconómica Nacional CASEN 1996 November National 33,636 1 Encuesta de Caracterización Socioeconómica Nacional CASEN 2003 November National 33,636 1 2 Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Continua de Hogares - ECH 2000 III quarter National 2, 27,135 1 Encuesta Continua de Hogares ECH 2000 III quarter National 2, 27,135 1 Encuesta Continua de Hogares ECH 2000 III quarter National 11,373 1 ENCUESTA		Pesquisa Nacional por Amostra de Domicilios						352,393
Encuesta de Caracterización Socioeconómica Nacional CASEN 1996   November National 33,636   15		Pesquisa Nacional por Amostra de Domicilios	PNAD	2003	September	National	117,008	384,825
Encuesta de Caracterízación Socioeconómica Nacional  CASEN 2003 November National 88,153 2  Colombia Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Continua de Hogares ENH-FT 2000 September National 7,7339 Encuesta Continua de Hogares ECH 2000 III quarter National 2,7135 1  Encuesta de Hogares de Propósitos Múltiples EHPM 1992 July National 8,479 Encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 9,923 Encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 10,332 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 10,332 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 10,332 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 10,332 Encuesta Nacional de Fuerza de Trabajo ENFT 2000 October National 5,696 Encuesta Nacional de Fuerza de Trabajo ENFT 2000 October National 7,696 Encuesta Nacional de Fuerza de Trabajo ENFT 2000 October National 7,696 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,696 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,696 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,696 Encuesta Nacional de Puerza de Trabajo ENFT 2003 October National 1,7,894 Encuesta de Condiciones de Vida ECV 1998 FebMay National 1,8,995 El Salvador Encuesta de Hogares de Propósitos Múltiples ENEMDU 2003 Jan-Dec National 1,8,995 Encuesta de Hogares de Propósitos Múltiples ENEMDU 2003 September National 1,8,955 Encuesta Destructor de Hogares de Propósitos Múltiples ENEMDU 2003 September National 1,7,804 Anatonal 1,7,804 Encuesta Permanente de Hogares de Propósitos Múltiples ENEMDU 2003 September National 1,773 Jan-Dec November National 1,773 Jan-Dec Encuesta Nacional de Hogares September National 1,773 Jan-Dec November National 1,773 Jan-Dec November National 1,773 Jan-Dec November National 1,773	Chile	Encuesta de Caracterización Socioeconómica Nacional	CASEN	1990	November	National	25,793	105,189
Colombia Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Nacional de Hogares - Fuerza de Trabajo Encuesta Continua de Hogares ECH 2000 September National 17,339 Encuesta Continua de Hogares ECH 2004 III quarter National 27,135 11,373 Encuesta Continua de Hogares ECH 2004 III quarter National 37,339 Encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 9,232 Encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 9,232 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 11,150 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 11,150 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 11,150 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 July National 11,150 Encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 8,905 ENEMDU 2003 December National 18,959 Encuesta de Hogares de Propósitos Múltiples EPHPM 2003 September National 18,959 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 17,758 Janatica Survey of Living Conditions JSLC 1999 June National 17,758 Janatica Survey of Living Conditions JSLC 1999 June National 17,758 Janatica Survey of Living Conditions JSLC 2002 National 10,108 National 11,758 Janatica Survey of		Encuesta de Caracterización Socioeconómica Nacional	CASEN	1996	November	National	33,636	134,262
Encuesta Nacional de Hogares – Fuerza de Trabajo encuesta Continua de Hogares ECH 2004 Ill quarter National 17,339 encuesta Continua de Hogares ECH 2004 Ill quarter National 11,373 encuesta Continua de Hogares ECH 2004 Ill quarter National 11,373 encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 8,479 encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 9,323 encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 5,686 encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 7,698 encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,698 encuesta Nacional de Fuerza de Trabajo ENET 2004 October National 7,698 encuesta Nacional de Fuerza de Trabajo ENET 2004 October National 7,698 encuesta Nacional de Fuerza de Trabajo ENET 2004 October National 7,698 encuesta de Condiciones de Vida ECV 1994 Juri/Oct National 4,391 Encuesta de Condiciones de Vida ECV 1998 Feb/May National 5,801 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 18,959 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 September National 18,959 Encuesta de Hogares de Propósitos Múltiples EPHPM 2003 September National 6,355 Encuesta Dermine Propósitos Múltiples EPHPM 2003 September National 1,758 Jamarica Survey of Living Conditions JSLC 1999 June National 1,758 Jamarica Survey of Living Conditions JSLC 1999 June National 1,758 Jamarica Survey of Living Conditions JSLC 1999 June National 1,758 Encuesta Nacional de Ingress y Gastos de los Hogares ENICH 1996 Sept/ Oct National 1,757 Encuesta Nacional de Ingress y Gastos de los Hogares ENICH 1996 Sept/ Oct National 1,759 Encuesta Nacional de Ingress y Gastos de los Hogares ENICH 2002 Sept/ Oct National 1,759 Encuesta N		Encuesta de Caracterización Socioeconómica Nacional	CASEN	2003	November	National	68,153	257,077
Encuesta Nacional de Hogares - Fuerza de Trabajo encuesta Continua de Hogares ECH 2000 Ill quarter National 1, 17,339 encuesta Continua de Hogares ECH 2004 Ill quarter National 2, 27,135 encuesta Continua de Hogares ECH 2004 Ill quarter National 3, 11,373 encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 8, 479 encuesta de Hogares de Propósitos Múltiples EHPM 1997 July National 9,923 Encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta de Hogares de Propósitos Múltiples EHPM 2001 July National 10,332 encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 5,696 encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 7,904 encuesta Nacional de Fuerza de Trabajo ENET 2000 October National 7,904 encuesta Nacional de Fuerza de Trabajo ENET 2003 October National 7,904 encuesta Nacional de Fuerza de Trabajo ENET 2004 October National 7,904 Encuesta Nacional de Fuerza de Trabajo ENET 2004 October National 7,904 Encuesta de Condiciones de Vida ECV 1994 JurvOct National 4,391 Encuesta de Condiciones de Vida ECV 1998 FebMay National 5,891 Encuesta de Hogares de Propósitos Múltiples ENEMD 2003 December National 18,959 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jun-Dec National 18,959 Encuesta de Hogares de Propósitos Múltiples EPHPM 1991 Oct 91-Apr 92 National 18,959 Encuesta de Hogares de Propósitos Múltiples EPHPM 2003 September National 6,355 Encuesta Dermanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 1,758 Jamaica Survey of Living Conditions JSLC 1999 June National 1,758 Jamaica Survey of Living Conditions JSLC 1999 June National 1,758 Jamaica Survey of Living Conditions JSLC 1999 June National 1,769 Encuesta Nacional de Ingress oy Gastos de los Hogares ENICH 1996 Sept/ Oct National 14,042 Encuesta Nacional de Ingress oy Gastos de los Hogares ENICH 1996 Sept/ Oct National 1,769 Encuesta Nacional de Ingress oy Gastos de los Hogares ENICH 2002	Colombia	Encuesta Nacional de Hogares - Fuerza de Trabaio	ENH-FT	1992	September	Urban	15.626	69.683
Encuesta Continua de Hogares   ECH   2000   III quarter   National   11,373   11,373   11,373   12,735   14,373   14,3								72,240
Encuesta de Hogares de Propósitos Múltiples   EHPM   1992   July   National   8,479						National *		113,231
Encuesta de Hogares de Propósitos Múltiples   EHPM   1997   July National   9,923   Encuesta de Hogares de Propósitos Múltiples   EHPM   2001   July National   11,150						National *		45,841
Encuesta de Hogares de Propósitos Múltiples   EHPM   1997   July National   9,923   Encuesta de Hogares de Propósitos Múltiples   EHPM   2001   July National   11,150	Costa Rica	Encuesta de Hogares de Propósitos Múltiples	EHPM	1992	July	National	8,479	37,251
Encuesta de Hogares de Propósitos Múltiples   EHPM   2001   July   National   10,332   EHPM   2003   July   National   11,150   EHPM   2004   Cotober   National   5,696   ENET   2000   Cotober   National   5,696   ENET   2000   Cotober   National   7,698   ENET   2004   Cotober   National   7,698   EQU   ENCUESTA NACIONAL   EFECT   2004   Cotober   National   7,698   EDECT   2004   EDECT   2004   Cotober   National   7,698   EDECT   2004   EDECT								41,277
Dominican R. Encuesta Nacional de Fuerza de Trabajo ENFT 1997 April National 3,757 Encuesta Nacional de Fuerza de Trabajo ENFT 2003 October National 5,896 Encuesta Nacional de Fuerza de Trabajo ENFT 2003 October National 5,896 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,898 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,698 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,698 Encuesta de Condiciones de Vida ENFT 2004 October National 4,391 Encuesta de Condiciones de Vida ECV 1998 Feb/May National 5,801 Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 December National 18,959 El Salvador Encuesta de Hogares de Propósitos Múltiples EHPM 2003 December National 18,959 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 16,808 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 16,808 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 8,053 September National 15,805 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 Jamaica Survey of Living Conditions JSLC 1990 November National 1,773 National 1,773 Natio			EHPM	2001	July	National	10,332	41,841
Encuesta Nacional de Fuerza de Trabajo Encuesta de Condiciones de Vida Encuesta de Condiciones de Vida Encuesta de Condiciones de Vida Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 Encuesta de Hogares de Propósitos Múltiples El Salvador Encuesta de Hogares de Propósitos Múltiples Encuesta de Hogares de Propósitos Múltiples Encuesta Permanente de Hogares de Propósitos Múltiples Encuesta Necional de Hogares de Propósitos Múltiples Encuesta Necional de Hogares de Propósitos Múltiples Encuesta Nacional de Hogares de Propósitos Múltiples Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 1992 Encuesta Nacional de Hogares de Ingresos y Gastos de los Hogares ENIGH 2000 Encuesta Nacional de Hogares de Ingresos y Gastos de los Hogares ENIGH 2000 Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares EPH 2002 Encuesta Nacional de Hogares EPH 2002 Encuesta Nacional de Ho		Encuesta de Hogares de Propósitos Múltiples	EHPM	2003	July	National	11,150	43,645
Encuesta Nacional de Fuerza de Trabajo ENFT 2000 October National 5,696 Encuesta Nacional de Fuerza de Trabajo ENFT 2003 October National 7,698 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,698 Encuesta Nacional de Fuerza de Trabajo ENFT 2004 October National 7,698 Encuesta de Condiciones de Vida ENCUE 1998 Feb/May National 1,891 Encuesta de Condiciones de Vida ENCUE 1998 Feb/May National 1,8959 Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 December National 18,959 El Salvador Encuesta de Hogares de Propósitos Múltiples ENEMDU 2003 December National 18,959 El Salvador Encuesta de Hogares de Propósitos Múltiples ENEMDU 2003 Jan-Dec National 16,808 Encuesta Desember Encuesta de Hogares de Propósitos Múltiples EPHPM 2003 Jan-Dec National 16,808 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 6,355 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 1,778 Jamaica Survey of Living Conditions JSLC 1999 June National 1,778 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,602 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 1992 Sept/ Oct National 10,500 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 1992 Sept/ Oct National 10,108 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 2000 Sept/ Oct National 10,108 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 2000 Sept/ Oct National 10,108 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 2000 Sept/ Oct National 10,108 Encuesta Nacional de Hogares sobre Medición de Nivel de Vida EMNV 1993 Feb/Jun National 4,454 Encuesta Nacional de Hogares sobre Medición de Nivel de Vida EMNV 1993 Apr/Jul National 4,454 Encuesta Nacional de Hogares Sobre Medición de Nivel de Vida EMNV 2001 Apr/Jul National 4,930 Sept/ Oct National 13,308 Encuesta Continua de Hogares ENIGH 2002 Nov/Dec National 13,308 Encuesta Continua de Hogares ENIGH 2002 Vigar Urban 17,65	Dominican F	s. Encuesta Nacional de Fuerza de Trabaio	ENFT	1997	April	National	3.757	15,754
Encuesta Vacional de Fuerza de Trabajo Encuesta de Condiciones de Vida Encuesta de Condiciones de Vida Encuesta de Encuesta de Endiciones de Vida Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 December National 18,959 El Salvador Encuesta de Hogares de Propósitos Múltiples El Salvador Encuesta de Hogares de Propósitos Múltiples El HPM 1991 Oct 91-Apr 92 National 18,955 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 16,808 Honduras Encuesta Permanente de Hogares de Propósitos Múltiples Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 8,955 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 8,053 Idamaica Jamaica Survey of Living Conditions JSLC 1990 November National 1,758 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,092 México Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares Encuesta Continua de Hogares Encuesta Continua de Hogares Encues			ENFT	2000				22,465
Ecuador Encuesta de Condiciones de Vida Encuesta de Condiciones de Vida Encuesta de Condiciones de Vida Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 December National 5,801 Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 December National 18,959 December National 18,959 Encuesta de Hogares de Propósitos Múltiples EHPM 1991 Oct 91-Apr 92 National 16,808 Honduras Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 16,808 Honduras Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 6,355 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 1,758 Jamaica Survey of Living Conditions JSLC 1990 November National 1,758 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 1999 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,774 June 1,775 June 1,7		Encuesta Nacional de Fuerza de Trabajo	ENFT	2003	October	National	7,904	29,771
Encuesta de Condiciones de Vida Encuesta de Empleo, Desempleo y Subempleo El Salvador Encuesta de Hogares de Propósitos Múltiples El Salvador Encuesta de Hogares de Propósitos Múltiples El HPM 2003 Cet 91-Apr 92 National 18,955 National 18,955 National 18,955 El Salvador Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Cet 91-Apr 92 National 16,808  Honduras Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 Ephember National 16,808  Honduras Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 Ephember National 1,758 September National 1,758 National 1,758 National 1,758 Jamaica Survey of Living Conditions JSLC 1990 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,753 National 1,753 Jamaica Survey of Living Conditions JSLC 2002 México Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Hogares y Gastos de los Hogares Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares EPHP 2002 Nov/Dec National 1,3,308 Paraguay Encuesta Nacional de Hogares Encuesta Continua de Hogares ENCH ENCH ENTREMBER  DATE		Encuesta Nacional de Fuerza de Trabajo	ENFT	2004	October	National	7,698	29,289
Encuesta de Condiciones de Vida Encuesta de Empleo, Desempleo y Subempleo ENEMDU 2003 December National 18,959 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 16,808 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 6,355 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 8,053 Iamaica Survey of Living Conditions JSLC 1990 November National 1,758 Jamaica Survey of Living Conditions JSLC 1999 June National 1,758 Jamaica Survey of Living Conditions JSLC 2002 June National 1,758 Jamaica Survey of Living Conditions JSLC 2002 June National 1,758 Jamaica Survey of Living Conditions JSLC 2002 June National 1,758 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 Jamaica Survey of Living Conditions JSLC 2002 June National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ Oct National 1,0530 Jamaica Survey of Living Conditions JSLC 2002 Sept/ O	cuador	Encuesta de Condiciones de Vida	ECV	1994	Jun/Oct	National	4.391	20,731
El Salvador Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 18,955 Encuesta de Hogares de Propósitos Múltiples EHPM 2003 Jan-Dec National 16,808 Honduras Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 6,355 Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 2003 September National 8,053 Janaica Survey of Living Conditions JSLC 1990 November National 1,758 Janaica Survey of Living Conditions JSLC 1999 June National 1,773 Janaica Survey of Living Conditions JSLC 2002 June National 1,773 Janaica Survey of Living Conditions JSLC 2002 June National 5,092 México Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 1996 Sept/ Oct National 10,530 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 2000 Sept/ Oct National 10,108 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 2000 Sept/ Oct National 10,108 Encuesta Nacional de Hogares Sobre Medición de Nivel de Vida EMNV 1993 Feb/Jun National 17,167 Parama Encuesta Nacional de Hogares sobre Medición de Nivel de Vida EMNV 1998 Apr/Aug National 4,191 Parama Encuesta Nacional de Hogares Sobre Medición de Nivel de Vida EMNV 2001 Apr/Jul National 4,191 Parama Encuesta Despresa Encuesta Nacional de Hogares Sobre Medición de Nivel de Vida EMNV 2001 Apr/Jul National 4,191 National 13,308 Paraguay Encuesta Despresa Encuesta Despresa ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares Encuesta ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August National 13,308 Encuesta Nacional de Hogares ENIGH 2002 August Natio			ECV	1998				26,129
Encuesta de Hogares de Propósitos Múltiples Encuesta Permanente de Hogares de Propósitos Múltiples Encuesta Permanente de Hogares de Propósitos Múltiples EPHPM 1997 September National 6,355 EPHPM 2003 September National 6,355 September National 8,063  Jamaica Jamaica Survey of Living Conditions JSLC 1999 June National 1,758 Jamaica Survey of Living Conditions JSLC 2002 June National 1,773 Jamaica Survey of Living Conditions JSLC 2002 June National 1,759 México Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 1992 Sept/ Oct National 10,108 Encuesta Nacional de Ingresos y Gastos de los Hogares ENIGH 2000 Sept/ Oct National 10,108 Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares sobre Medición de Nivel de Vida Encuesta Nacional de Hogares Septe Medición de Nivel de Vida Encuesta Dermanente de Hogares Encuesta de Hogares Encuesta de Hogares ENIGH 2002 August National 4,454 Encuesta de Hogares Encuesta Permanente de Hogares Encuesta Permanente de Hogares ENIGH 2002 August National 13,308 Encuesta Permanente de Hogares ENIGH 2002 Nov/Dec National 3,789  Peru Encuesta Nacional de Hogares ENIGH 2002 Por Viduarter National 18,598 ENAHO 2002 IV quarter National 18,598  Juruguay Encuesta Continua de Hogares ENAHO 1997 IV quarter National 18,698 ENAHO 2002 IV quarter National 18,473 Encuesta Continua de Hogares ENAHO 2001 Year Urban 18,473 Encuesta Continua de Hogares ENAHO 2002 IV quarter National 18,433 ENAHORES ECCH 2001 Year Urban 18,433 ENAMO 2001 Year Urban 18,602		Encuesta de Empleo, Desempleo y Subempleo	ENEMDU	2003	December	National	18,959	82,317
Fonduras   Encuesta Permanente de Hogares de Propósitos Múltiples   EPHPM   1997   September   National   8,053   8,	El Salvador							90,624 71,683
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Encuesta Nacional de Hogares sobre Medición de Nivel de Vida   EMNV   1993   Feb/Jun   National   4,454   Encuesta Nacional de Hogares sobre Medición de Nivel de Vida   EMNV   1998   Apr/Aug   National   4,040   Apr/Jul   National   4,191   Apr/Jul   Apr/Jul   National   4,191   Apr/Jul   Apr/Jul   National   4,191   Apr/Jul   Ap		Encuesta Nacional de Ingresos y Gastos de los Hogares Encuesta Nacional de Ingresos y Gastos de los Hogares						42,535 72,602
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Encuesta Permanente de Hogares  ENAHO Encuesta Nacional de Hogares ENAHO Encuesta Nacional de Hogares ENAHO		•			-			
Peru Encuesta Nacional de Hogares ENAHO 1997 IV quarter National 6,487 Encuesta Nacional de Hogares ENAHO 2002 IV quarter National 18,598 ENAHO 2002 IV quarter National 18,473 ENAHO 2002 ENAHO 2003 ENAHO 2002 IV quarter National 18,473 ENAHO 2002 ENAHO 2003 ENAHO 2002 IV quarter National 18,473 EN	Paraguay							20,664 17,600
Encuesta Nacional de Hogares  ENAHO  Encuesta Continua de Hogares  ECH  1989  Second half  Urban  9,482  Encuesta Continua de Hogares  Encuesta Continua de Hogares  Encuesta Continua de Hogares  ECH  1998  Year  Urban  17,656  Encuesta Continua de Hogares  ECH  2001  Year  Urban  18,473  Encuesta Continua de Hogares  ECH  2003  Year  Urban  18,473  Encuesta de Hogares  ECH  2003  Year  Urban  18,473  Encuesta de Hogares  EHM  1989  Second half  National  43,543  2  EHM  1995  Second half  National  18,702		•					•	
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Encuesta Continua de Hogares ECH 1998 Year Urban 17,656 Encuesta Continua de Hogares ECH 2001 Year Urban 18,473 ECH 2001 Year Urban 18,338 ECH 2003 Year Urban 18,473 ECH 2003 Year Urban 18,338 ECH 2003 Year Urb		•			·			
Encuesta Continua de Hogares ECH 2001 Year Urban 18,473 Encuesta Continua de Hogares ECH 2003 Year Urban 18,338 ENCUENTE ENCUESTA DE FORMA EN CONTINUA DE FO	uruguay							31,766
Encuesta Continua de Hogares ECH 2003 Year Urban 18,338  Venezuela Encuesta de Hogares Por Muestreo EHM 1989 Second half National 43,543 2 Encuesta de Hogares Por Muestreo EHM 1995 Second half National 18,702								56,854
Venezuela Encuesta de Hogares Por Muestreo EHM 1989 Second half National 43,543 2 Encuesta de Hogares Por Muestreo EHM 1995 Second half National 18,702								57,394
Encuesta de Hogares Por Muestreo EHM 1995 Second half National 18,702		Enduesia Continua de Pogares			теаг	orban		55,369
	/enezuela							225,286 92,450
Encuesia de nogares noi ividestreo Enivi 2000 Second natr National 16.809								92,450 80.417
								204,647

Source: SEDLAC (2006). \* Although the Colombia's survey is national, in this study we work only with the urban observations.

Table 1 Annual growth rates, 1990-2004 Per capita GDP

rer capita GD	Г				
Constant LCU					
	90-93	93-97	97-00	00-04	90-04
South America	2.8	2.7	-1.1	-0.8	0.9
Central America	1.9	1.6	2.4	0.0	1.4
The Caribbean	1.1	1.9	2.8	8.0	1.6
LAC	1.8	2.1	1.5	0.1	1.3
PPP					
	90-93	93-97	97-00	00-04	90-04
South America	2.7	2.7	-1.1	0.2	1.1
Central America	1.2	1.5	2.4	0.4	1.3
The Caribbean	1.1	1.9	2.8	1.0	1.7
LAC	1.6	2.1	1.5	0.7	1.4

Source: WDI and IMF, World Economic Outlook Database.

Table 2
Annual growth rates
Per capita GDP and per capita income from household surveys

	Growth rate 1990	p/c GDP -2004	Period in survey	Growth rate period col		Growth rate p/c income
	Real LCU	PPP	dataset	Real LCU	PPP	survey
	(i)	(ii)	(iii)	(iv)	(v)	(vi)
Argentina	1.8	1.7	1992-2004	0.6	0.5	-2.9
Bolivia	1.2	1.2	1993-2002	1.0	1.0	3.0
Brazil	1.4	1.3	1990-2003	1.2	1.1	0.5
Chile	4.1	4.1	1990-2003	4.1	4.1	3.3
Colombia	0.9	0.8	1992-2004	0.8	0.8	1.2
Costa Rica	2.2	2.1	1992-2003	2.2	2.2	3.9
Dominican Republic	3.2	3.1	2000-2004	0.6	0.2	-9.5
Ecuador	2.8	0.7	1994-1998	0.5	0.5	2.0
El Salvador	1.9	1.0	1991-2003	1.4	1.4	1.8
Honduras	0.5	0.4	1997-2003	-0.1	-0.1	-0.6
Jamaica	0.0	-0.1	1990-2002	-0.2	-0.3	4.7
Mexico	1.3	1.3	1992-2002	1.1	1.1	-0.9
Nicaragua	0.5	0.5	1993-2001	2.3	2.3	3.4
Panama	3.1	3.1	1995-2002	2.9	2.9	0.4
Paraguay	-0.8	-0.8	1997-2002	-2.4	-2.4	-8.8
Peru	2.2	2.0	1997-2002	-0.1	-0.1	-0.1
Uruguay	1.4	1.3	1989-2003	0.6	0.6	-1.4
Venezuela	-0.4	-0.7	1989-2003	-1.2	-1.2	-3.7
Average	1.5	1.3		0.9	0.8	-0.2

Source: Own calculations based on household surveys and WDI and

IMF, World Economic Outlook Database.

Table 3
Poverty headcount ratios, levels and change
USD-2-a-day and national moderate poverty lines

	_	USI	2 a day pove	rty line	Nationa	I moderate po	verty lines
	Period	Year t1	Year t2	Change	Year t1	Year t2	Change
	(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)
Argentina	1992-2004	4.2	15.6	11.4	19.7	44.3	24.6
Bolivia -urban	1993-2002	33.6	24.6	-9.0	60.4	50.6	-9.7
Bolivia -national	1997-2002	36.2	43.1	6.9			
Brazil	1990-2003	28.8	20.2	-8.6	40.1	33.0	-7.1
Chile	1990-2003	14.4	5.1	-9.3	38.6	19.0	-19.6
Colombia (*)	1992-2000	9.1	16.7	7.6	53.8	59.8	6.0
Colombia (*)	2000-2004	17.5	21.7	4.2	59.8	56.8	-3.0
Costa Rica	1992-2003	12.8	8.8	-4.1	33.2	21.4	-11.8
Dominican R.	2000-2004	8.8	16.4	7.6	20.6	34.6	14.0
Ecuador	1994-1998	36.2	39.2	3.0	19.0	29.5	10.5
El Salvador	1991-2003	49.7	39.1	-10.6	65.7	42.9	-22.8
Honduras	1997-2003	32.6	36.2	3.6	72.3	71.4	-0.9
Jamaica	1990-2002	59.0	44.1	-14.8	29.2	23.3	-5.9
Mexico	1992-2002	26.8	28.0	1.1	52.6	51.7	-0.9
Nicaragua	1993-2001	61.6	48.4	-13.3	50.5	45.8	-4.7
Panama	1995-2002	20.5	17.7	-2.9	37.8	36.7	-1.1
Paraguay	1997-2002	29.4	39.3	9.9	34.8	46.4	11.5
Peru	1997-2002	32.2	32.0	-0.1	42.6	54.2	11.6
Uruguay	1989-2003	3.2	5.0	1.8	28.3	31.4	3.0
Venezuela	1989-2000	18.5	30.8	12.3	36.1	47.3	11.2

Source: Own calculations based on household surveys.

Note: Year t1 refers to the first year in column (i) Year t2 refers to the last year in column (i)

(\*) In Colombia estimates in column (ii) to (iv) are only for urban areas, while estimates in columns (v) to (vii) are national.

Table 4
Poverty in Latin America
Headcount ratio and number of poor people
USD-2-a-day poverty line

	Early 1990s	Early 2000s	Last survey	Change
	(i)	(ii)	(iii)	(iii) -(i)
A. Mercosur				
Poverty (weighted) (%)	23.6	19.0	18.8	-4.9
Poverty (unweighted) (%)	18.1	16.2	17.1	-1.1
Population (million)	204.4	244.4	246.4	42.1
Number of poor (million)	48.3	46.5	46.2	-2.1
B. Andean community				
Poverty (weighted) (%)	24.8	34.9	31.4	6.6
Poverty (unweighted) (%)	30.6	37.2	34.0	3.4
Population (million)	94.4	118.3	118.0	23.6
Number of poor (million)	23.4	41.3	37.1	13.7
C. Central America				
Poverty (weighted) (%)	30.5	29.2	29.2	-1.3
Poverty (unweighted) (%)	36.5	30.0	30.1	-6.4
Population (million)	112.7	140.4	139.6	26.8
Number of poor (million)	34.4	41.0	40.8	6.4
Latin America (A+B+C)				
Poverty (weighted) (%)	25.8	25.6	24.6	-1.2
Poverty (unweighted) (%)	29.3	28.1	27.4	-1.9
Population (million)	411.5	503.1	504.0	92.6
Number of poor (million)	106.1	128.8	124.1	18.0

Source: Own calculations based on household surveys.

Mercosur: Argentina, Brazil, Chile, Paraguay and Uruguay

Andean region: Bolivia, Colombia, Ecuador, Peru and Venezuela

Central America: Costa Rica, El Salvador, Honduras, Mexico, Nicaragua and Panama

Table 5
Change in the poverty headcount ratio
USD-2-a-day poverty line
Alternative calculations using (i) data only from household surveys,
and (ii) survey data adjusted with per capita GDP growth from National Accounts

		Only household	Adjusted with
		survey data	p/c GDP growth
		(i)	(ii)
Argentina	1992-2004	11.4	4.4
Bolivia -urban	1993-2002	-9.0	-1.7
Bolivia -national	1997-2002	6.9	0.9
Brazil	1990-2003	-8.6	-10.9
Chile	1990-2003	-9.3	-10.2
Colombia	1992-2000	7.6	7.5
Colombia	2000-2004	4.2	5.8
Costa Rica	1992-2003	-4.1	-1.4
Dominican R.	2000-2004	7.6	-1.8
Ecuador	1994-1998	3.0	6.0
El Salvador	1991-2003	-10.6	-12.5
Honduras	1997-2003	3.6	2.3
Mexico	1992-2002	1.1	-4.8
Nicaragua	1993-2001	-13.3	-9.5
Panama	1995-2002	-2.9	-6.6
Paraguay	1997-2002	9.9	-0.6
Peru	1997-2002	-0.1	-0.2
Uruguay	1989-2003	1.8	-0.8
Venezuela	1989-2000	12.3	1.6

Source: Own calculations based on household surveys, WDI and

IMF, World Economic Outlook Database.

Table 6 Poverty-growth elasticities

		Ann	ual chang	e in povert	y (%)						F	Poverty-gro	wth elasticity			
		Internation	onal lines	Natio	nal lines	Inco	me growth	rate	USE	USD 1		USD 2		Extreme		erate
		USD 1	USD 2	Extreme	Moderate	p/c income	national	p/c GDP	income	GDP	income	GDP	income	GDP	income	GDP
		(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)	(xi)	(xii)	(xiii)	(xiv)	(xv)
Argentina	1992-2004	12.2	11.5	13.2	7.0	-2.9	-3.1	0.6	-4.3		-4.0		-4.3		-2.3	
Bolivia (urb.)	1993-2002	-4.1	-3.4	-2.8	-1.9	3.0	2.4	1.0	-1.4	-4.0	-1.1	-3.3	-1.2	-2.8	-0.8	-1.9
Brazil	1990-2003	-2.8	-2.7	-2.1	-1.5	0.5	0.7	1.2		-2.3		-2.2		-1.8		-1.2
Chile	1990-2003	-6.4	-7.6	-7.3	-5.3	3.3	3.3	4.1	-1.9	-1.6	-2.3	-1.9	-2.2	-1.8	-1.6	-1.3
Costa Rica	1992-2003	-2.6	-3.4	-4.2	-3.9	3.9	4.1	2.2	-0.7	-1.2	-0.9	-1.5	-1.0	-1.8	-1.0	-1.7
Dominican R.	2000-2004	14.6	16.9	14.0	13.9	-9.5	-9.9	0.6	-1.5		-1.8		-1.4		-1.4	
Ecuador	1994-1998	4.3	2.0	13.8	11.6	2.0	2.0	0.5	2.2		1.0		6.9		5.8	
El Salvador	1991-2003	-2.3	-2.0	-4.8	-3.5	1.8	1.1	1.4	-1.3	-1.6	-1.1	-1.4	-4.6	-3.4	-3.3	-2.5
Honduras	1997-2003	2.9	1.8	-0.1	-0.2	-0.6	-2.2	-0.1					0.0		0.1	
Jamaica	1990-2002	-1.8	-2.4		-1.9	4.7	0.6	-0.2	-0.4		-0.5					
Mexico	1992-2002	1.9	0.4	-1.0		-0.9		1.1	-2.0	1.6	-0.4	0.4	1.1	-0.9		
Nicaragua	1993-2001	-7.4	-3.0	-2.6	-1.2	3.4	-1.6	2.3	-2.2	-3.2	-0.9	-1.3	1.6	-1.1	0.7	-0.5
Panama	1995-2002	-8.5	-2.1	-2.6	-0.4	0.4	0.4	2.9		-2.9		-0.7		-0.9		-0.2
Paraguay	1997-2002	4.4	6.0	0.9	5.9	-8.8	-9.1	-2.4	-0.5	-1.8	-0.7	-2.5	-0.1	-0.4	-0.6	-2.4
Peru	1997-2002	-1.6	-0.1	5.7	4.9	-0.1	-2.2	-0.1					-2.6		-2.3	
Uruguay	1989-2003	4.6	3.3	-0.2	0.7	-1.4	-1.9	0.6	-3.2		-2.3		0.1		-0.4	
Venezuela	1989-2000	5.2	4.7	3.5	2.5	-2.5	-2.4	0.2	-2.1		-1.9		-1.4		-1.0	

Source: Own calculations based on household surveys.

Note: "national" income (column vi) means the income or consumption variable used to compute official poverty with national lines in each country.

Table 7 Poverty-growth elasticity Estimates from a pooled regression model
Dependent variable: annual change in poverty headcount ratio (%) - USD 2 line

	(i)	(ii)	(iii)	(v)
income growth rate	-1.506	-1.659	-1.505	-1.657
	(0.157)	(0.275)	(0.161)	(0.290)
Interactions with:				
*distance poverty line-mode		0.122		0.119
•		(0.228)		(0.242)
*change in the Gini coefficient			0.004	0.005
			(0.136)	(0.147)
N	30	30	30	30
Adjusted R2	0.750	0.745	0.741	0.735

Note: Standard errors in parenthesis.

Table 8 Ravallion and Chen's pro-poor growth rates and progressive growth rates

				Ra	vallion and Chen	pro-poor growth	rates		Progressive gr		
		Income	growth rate	Inter	national lines	Natio	nal lines	Interr	national lines	Natio	nal lines
		p/c income (i)	national (ii)	USD1 (iii)	USD2 (iv)	Extreme (v)	Moderate (vi)	USD1 (vii)	USD2 (viii)	Extreme (ix)	Moderate (x)
Argentina	1992-1998	0.2	0.1	(111)	-8.1	-8.1	-5.0	(*11)	-8.4	-8.2	-5.1
, a goriana	1998-2002	-11.9	-11.9	-13.8	-16.0	-15.9	-16.1	-2.0	-4.1	-4.0	-4.2
	2002-2004	11.6	10.6	14.4	17.7	16.6	15.3	2.8	6.1	6.0	4.7
				14.4				2.0			
	1992-2004	-2.9	-3.1		-7.9	-8.1	-6.3		-5.1	-5.0	-3.2
Bolivia (urban)	1993-1997	8.2	8.3	13.0	9.9	10.0	9.1	4.8	1.7	1.7	0.8
	1997-2002	-0.9	-2.1	-4.2	-3.3	-4.6	-3.8	-3.3	-2.4	-2.4	-1.7
	1993-2002	3.0	2.4	3.3	2.6	1.8	1.8	0.3	-0.4	-0.5	-0.6
Bolivia (national)	1997-2002	-3.1		-12.8	-8.6			-9.6	-5.5		
Brazil	1990-1995	2.2	2.5	1.5	2.7	3.5	3.8	-0.7	0.5	1.0	1.3
	1995-2003	-0.6	-0.4	-1.9	-0.4	0.4	0.4	-1.3	0.2	0.7	0.8
	1990-2003	0.5	0.7	0.0	0.9	1.6	1.7	-0.4	0.5	0.9	1.0
	1990-2003	0.5	0.7	0.0	0.9	1.0	1.7	-0.4	0.5	0.3	1.0
Chile	1990-1996	5.8	5.7	8.5	6.4	6.4	5.9	2.7	0.6	0.7	0.2
	1996-2003	1.2	1.3	0.6	1.3	0.4	1.1	-0.6	0.1	-0.8	-0.1
	1990-2003	3.3	3.3	4.3	3.9	3.6	3.3	1.0	0.5	0.2	0.0
Colombia (urb.)	1992-2000	0.5			-9.8				-10.3		
	2000-2004	2.7			1.4				-1.3		
	1992-2004	1.1			-5.4				-6.5		
	1332-2004	1.1			-5.4				-0.5		
Costa Rica	1992-1997	4.5	4.4	13.4	8.3	8.6	5.6	8.8	3.8	4.2	1.2
	1997-2003	3.4	3.8	-2.8	-1.3	-1.4	0.1	-6.2	-4.7	-5.2	-3.7
	1992-2003	3.9	4.1	4.5	3.1	3.2	2.7	0.6	-0.8	-0.9	-1.4
Dominican R.	2000-2004	-9.5	-9.9	-3.9	-5.0	-4.3	-6.7	5.6	4.6	5.6	3.2
Ecuador	1994-1998	2.0		-5.6	-2.0			-7.5	-3.9		
El Salvador	1991-2003	1.8	1.1	1.9	2.1	0.5	0.7	0.2	0.3	-0.6	-0.4
Honduras	1997-2003	-0.6	-2.2	0.3	-0.9	-1.8	-1.7	0.9	-0.3	0.4	0.5
Jamaica	1990-1999	7.9	1.8	9.4	9.1		2.1	1.5	1.2		0.3
	1990-2002	4.7	0.6	2.6	3.2		0.4	-2.2	-1.6		-0.2
Mexico	1992-1996	-7.1		-13.1	-9.1			-6.0	-2.0		
	1996-2002	3.4		0.5	3.2			-2.8	-0.2		
	1992-2002	-0.9		-6.1	-2.1			-5.1	-1.2		
Nissans	1002 1000	4.0	0.5	40.0	0.4	0.0	2.0	0.0	4.4	0.5	0.7
Nicaragua	1993-1998	4.0	-0.5	10.2	8.1	3.0	2.2	6.3	4.1	3.5	2.7
	1998-2001	2.5	-3.5	6.2	3.7	-2.0	-2.0	3.6	1.1	1.5	1.5
	1993-2001	3.4	-1.6	8.3	6.4	1.1	0.6	4.9	3.0	2.7	2.3
Panama	1995-2002	0.4			7.0				6.6		
Peru	1997-2002	-0.1	-2.2	2.4	1.3	-0.8	-1.9	2.5	1.4	1.3	0.3
Paraguay	1997-2002	-8.8		-3.9	-5.1			5.0	3.7		
Uruguay	1989-1998	1.7	1.1		-2.0	-2.0	-0.8		-3.7	-3.1	-1.9
	1998-2003	-6.8	-7.0	2.9	-0.4	0.4	-3.9	9.8	6.5	7.4	3.1
	1989-2003	-1.4	-1.9		-1.5	-1.6	-2.4		-0.1	0.3	-0.5
Venezuela	1000 1005	2.0	-2.6	2.0	1.4	0.4	1.0	6.0	1.0	2.0	0.0
Venezuela	1989-1995	-2.9	-2.6 -4.2	3.9 -6.2	-1.1 -3.8	0.4 -4.7	-1.8 -3.5	6.8	1.9 0.6	3.0 -0.5	0.8
	1995-2003	-4.4						-1.9		-0.5	0.7

Source: Own calculations based on household surveys.

Notes: "National" income (column ii) means the income or consumption variable used to compute official poverty with national lines in each country.

Ravallion and Chen's pro-poor growth rate = mean of income growth rates for the poor

Progressive growth rates = difference between the mean of the growth rates for the poor and the growth rate of the mean.

Table 9 Changes in inequality measures
Distribution of household per capita income

		Share o	of deciles	Incon	ne ratios				- In	nequality i	ndices		
	-	1	10	10/1	90/10	Gini	Theil	CV	A(.5)	A(1)	A(2)	E(0)	E(2)
		(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(viii)	(ix)	(x)	(xi)
Argentina	1992-1998	-0.5	3.6	11.2	3.3	0.05	0.10	0.20	0.04	0.07	0.10	0.11	0.24
•	1998-2002	-0.2	2.5	9.4	3.2	0.03	0.06	0.05	0.03	0.04	0.05	0.07	0.07
	2002-2004	0.1	-1.9	-6.0	-2.0	-0.02	-0.04	0.04	-0.02	-0.03	-0.03	-0.05	0.06
	1992-2004	-0.6	4.2	14.3	4.4	0.06	0.12	0.30	0.05	0.08	0.11	0.12	0.37
Bolivia (urban)	1993-1997	0.0	-0.9	0.0	0.2	0.00	-0.07	-0.93	-0.01	0.00	0.01	0.00	-1.92
, ,	1997-2002	-0.2	3.2	8.1	1.4	0.03	0.05	0.00	0.02	0.04	0.06	0.06	0.00
	1993-2002	-0.3	2.4	8.2	1.6	0.02	-0.02	-0.93	0.01	0.03	0.07	0.05	-1.92
Bolivia (national)	1997-2002	-0.2	1.9	83.7	11.2	0.02	0.04	-0.10	0.02	0.06	0.12	0.13	-0.18
Brazil	1990-1995	0.1	-0.6	-4.5	-1.4	-0.01	-0.03	-0.22	-0.01	-0.02	-0.06	-0.03	-0.42
	1995-2003	0.0	-1.6	-3.2	-1.5	-0.02	-0.04	-0.07	-0.01	-0.02	0.01	-0.03	-0.12
	1990-2003	0.1	-2.1	-7.7	-2.8	-0.03	-0.08	-0.29	-0.03	-0.04	-0.05	-0.07	-0.54
Chile	1990-1996	0.0	-0.7	-1.5	0.2	0.00	-0.03	-0.13	-0.01	-0.01	-0.03	-0.01	-0.23
010	1996-2003	0.0	0.5	-0.5	-1.1	0.00	0.04	0.47	0.00	0.00	-0.01	-0.01	0.94
	1990-2003	0.1	-0.2	-2.0	-0.8	-0.01	0.01	0.34	0.00	-0.01	-0.04	-0.02	0.71
Colombia (urban)	1992-2000	-0.8	5.5	28.3	5.1	0.07	0.17	0.34	0.06	0.11	0.22	0.18	0.51
Coloribia (dibari)	2000-2004	-0.2	-1.2	6.8	2.1	0.00	-0.05	-0.27	-0.01	0.01	0.03	0.01	-0.53
Costa Rica	1992-1997	0.1	0.2	-1.0	0.3	0.00	0.00	-0.02	0.00	0.00	-0.02	0.00	-0.03
Oosia Mica	1997-2003	-0.3	3.5	8.3	1.6	0.04	0.00	0.21	0.03	0.05	0.02	0.08	0.25
	1992-2003	-0.2	3.7	7.3	1.9	0.04	0.03	0.18	0.03	0.05	0.05	0.08	0.23
Dominican R.	2000-2004	0.2	0.3	-4.8	-0.9	-0.01	0.01	0.17	0.00	-0.01	-0.04	-0.02	0.26
Ecuador	1994-1998	-0.2	1.6	15.6	1.7	0.02	0.07	0.28	0.02	0.04	0.06	0.07	0.52
El Salvador	1991-2003	-0.2	-2.6	5.0	1.3	-0.02	-0.06	-0.23	-0.01	0.00	0.03	0.00	-0.36
Honduras	1997-2003	0.1	0.9	-0.8	1.0	0.01	0.00	-0.09	0.01	0.01	-0.05	0.01	-0.16
Jamaica	1990-1999	0.1	-2.7	-19.9	-3.5	-0.02	-0.01	0.36	-0.02	-0.02	0.02	-0.05	0.64
damaida	1990-2002	-0.2	1.0	74.9	11.7	0.02	0.08	0.38	0.03	0.06	0.10	0.13	0.66
Mexico	1992-1996	0.1	-1.7	-6.3	-1.6	-0.02	-0.02	0.54	-0.01	-0.02	-0.01	-0.03	1.35
	1996-2002	-0.1	-2.9	-0.1	0.4	-0.03	-0.15	-1.36	-0.03	-0.02	0.02	-0.04	-2.84
	1992-2002	0.0	-4.7	-6.4	-1.2	-0.04	-0.17	-0.82	-0.04	-0.04	0.00	-0.07	-1.48
Nicaragua	1993-1998	0.3	-0.9	-17.8	-4.9	-0.02	-0.03	0.08	-0.02	-0.04	-0.05	-0.08	0.14
Ü	1998-2001	0.2	1.0	-6.9	-1.9	0.00	0.07	0.58	0.01	-0.01	-0.04	-0.01	1.23
	1993-2001	0.5	0.1	-24.7	-6.8	-0.02	0.04	0.65	-0.01	-0.05	-0.09	-0.09	1.37
Panama	1995-2002	0.2	1.7	-10.4	-0.4	0.01	0.04	0.11	0.01	0.00	-0.06	0.00	0.17
Paraguay	1997-2002	0.0	1.7	2.0	-1.6	0.01	0.07	0.37	0.01	0.00	-0.01	0.01	0.67
Peru	1997-2002	0.1	2.0	-3.4	-1.9	0.01	0.06	0.23	0.01	0.00	-0.02	0.00	0.41
Uruguay	1989-1998	-0.3	0.4	3.4	1.4	0.02	-0.01	-0.28	0.01	0.02	0.07	0.03	-0.32
3 7	1998-2003	0.3	1.4	-2.1	-0.6	0.01	0.02	0.08	0.00	0.00	0.07	0.00	0.09
	1989-2003	0.0	1.7	1.2	0.8	0.03	0.01	-0.20	0.01	0.02	0.15	0.03	-0.23
Venezuela	1989-1995	-0.4	3.3	5.1	1.3	0.04	0.08	0.15	0.03	0.05	0.08	0.07	0.15
	1995-2003	-0.2	-0.9	1.8	0.6	0.00	-0.01	-0.04	0.00	0.00	0.43	0.00	-0.05
	1989-2000	-0.3	0.9	3.0	0.8	0.02	0.03	0.04	0.01	0.03	0.06	0.04	0.04
	1989-2003	-0.6	2.5	6.9	1.9	0.04	0.06	0.10	0.03	0.05	0.51	0.07	0.11

Source: Own calculations based on household surveys.

Income ratios: 10/1=decile 10 /decile 1, 90/10=percentile 90/percentile 10

CV=coefficient of variation, A(e)=Atkinson's index with parameter e, E(k)=generalized entropy index with parameter k.

Table 10
Decomposition of changes in the poverty headcount ratio
Growth and redistribution effects

				JSD1			JSD2			treme			derate
		Total	Growth	Redistribution									
		(i)	(ii)	(iii)	(iv)	(v)	(vi)	(vii)	(viii)	(ix)	(x)	(xi)	(xii)
Argentina	1992-1998	1.8	0.0	1.8	4.1	-0.1	4.2	3.8	-0.1	3.9	8.4	-0.5	8.9
	1998-2002	6.4	3.2	3.3	15.3	10.9	4.4	19.1	11.3	7.7	27.5	22.6	5.0
	2002-2004	-3.8	-2.7	-1.0	-8.6	-5.0	-3.5	-9.9	-5.0	-4.9	-12.6	-8.2	-4.4
	1992-2004	4.7	1.0	3.7	11.9	4.3	7.6	13.6	4.0	9.6	25.2	16.0	9.2
Bolivia (urban)	1993-1997	-6.2	-5.1	-1.1	-13.4	-12.6	-0.7	-8.6	-11.0	2.3	-9.1	-14.2	5.1
,	1997-2002	2.8	1.0	1.8	4.4	1.8	2.6	1.6	4.8	-3.2	-0.7	5.6	-6.3
	1993-2002	-3.4	-4.4	1.1	-9.0	-10.7	1.7	-7.0	-7.2	0.2	-9.7	-8.2	-1.6
Bolivia (national)	1997-2002	5.5	3.3	2.2	6.9	5.4	1.5	-1.2	7.2	-8.4	2.7	7.5	-4.7
Brazil	1990-1995	-3.9	-1.9	-1.9	-8.5	-3.7	-4.8	-4.1	-2.9	-1.2	-6.5	-4.5	-2.0
	1995-2003	0.2	0.4	-0.2	-0.1	0.9	-1.0	-0.4	0.6	-1.0	-0.6	1.0	-1.6
	1990-2003	-3.6	-1.3	-2.3	-8.6	-2.6	-6.0	-4.5	-2.3	-2.2	-7.1	-3.6	-3.5
Chile	1990-1996	-1.8	-1.3	-0.5	-7.6	-7.3	-0.3	-7.4	-6.7	-0.7	-15.7	-14.9	-0.8
Jillio													
	1996-2003	-0.1	-0.2	0.1	-1.6	-1.4	-0.3	-1.0	-1.3	0.2	-4.3	-3.4	-1.0
	1990-2003	-1.9	-1.6	-0.4	-9.3	-8.4	-0.8	-8.4	-7.9	-0.5	-20.0	-18.4	-1.6
Colombia (urban)	1992-2000	5.2	-0.1	5.3	7.6	-0.9	8.5						
	2000-2004	1.9	3.1	-1.1	4.2	11.2	-7.0						
Costa Rica	1992-1997	-2.0	-0.8	-1.2	-4.3	-3.1	-1.2	-4.2	-2.7	-1.4	-9.6	-9.1	-0.5
	1997-2003	0.6	-0.6	1.2	0.2	-1.8	2.0	-0.1	-2.3	2.2	-2.3	-7.7	5.3
	1992-2003	-1.4	-1.6	0.2	-4.1	-5.3	1.2	-4.2	-5.3	1.1	-11.9	-16.8	4.8
Dominican R.	2000-2004	1.4	3.6	-2.1	7.6	8.5	-0.8	4.8	6.4	-1.5	13.9	15.1	-1.2
Ecuador	1994-1998	2.7	-1.4	4.2	3.0	-3.3	6.3						
El Salvador	1991-2003	-5.9	-5.0	-0.9	-10.6	-8.6	-2.0	-15.1	-5.4	-9.7	-23.1	-5.7	-17.4
Honduras	1997-2003	2.3	1.1	1.2	3.6	1.6	2.0	-0.3	2.3	-2.5	-0.9	1.7	-2.6
Jamaica	1990-1999	-21.1	-9.2	-11.9	-25.8	-17.5	-8.3				-13.5	-11.8	-1.6
	1990-2002	-7.9	-8.0	0.1	-14.8	-15.3	0.5				-7.4	-6.4	-1.1
Mexico	1992-1996	5.0	4.0	0.9	10.5	9.7	0.8						
	1996-2002	-2.6	-3.1	0.5	-9.3	-7.3	-2.0						
	1992-2002	2.4	0.9	1.4	1.1	1.9	-0.7						
Nicaragua	1993-1998	-11.6	-5.9	-5.7	-9.4	-6.6	-2.8	-1.3	0.9	-2.1	-2.7	1.2	-3.9
	1998-2001	-4.6	-2.1	-2.5	-3.9	-3.3	-0.6	-2.3	4.3	-6.7	-2.0	6.2	-8.3
	1993-2001	-16.1	-7.9	-8.2	-13.3	-10.0	-3.3	-3.6	4.7	-8.3	-4.7	6.7	-11.4
Panama	1995-2002	-6.0	0.2	-6.2	-2.9	0.6	-3.4	-3.4	0.2	-3.6	-1.1	0.7	-1.8
Paraguay	1997-2002	4.4	6.2	-1.8	9.9	10.8	-0.9						
Peru	1997-2002	-1.0	0.0	-1.0	-0.1	0.0	-0.1	5.8	4.0	1.8	11.6	6.4	5.2
Uruguay	1989-1998	0.5	-0.1	0.7	0.2	-1.3	1.5	-1.1	-0.8	-0.3	-10.9	-4.5	-6.4
	1998-2003	-0.2	0.7	-0.9	1.6	3.8	-2.2	1.0	2.5	-1.5	13.9	12.9	1.0
	1989-2003	0.3	0.3	0.0	1.8	1.8	0.0	-0.1	2.8	-2.9	3.0	13.3	-10.3
Venezuela	1989-1995	3.7	1.0	2.7	11.4	3.1	8.3	5.7	1.3	4.3	9.6	3.0	6.6
	1995-2003	0.8	3.9	-3.1	0.9	7.5	-6.6	1.3	6.3	-5.0	2.3	9.7	-7.4
	1989-2000	4.5	3.1	1.4	12.3	9.6	2.6	7.0	6.3	0.6	11.9	12.3	-0.4
	1989-2003	13.2	7.5	5.7	26.0	20.2	5.8	17.9	13.6	4.3	25.2	23.4	1.8

Source: Own calculations based on household surveys.

Table 11
Income neutral growth rate and incremental tax rate needed to achieve a certain poverty-reduction target in 10 years

_		neutral growth			stribution 1			istribution 2	
Poverty-reduction target	25% (i)	50% (ii)	75% (iii)	25% (iv)	50% (v)	75% (vi)	25% (vii)	50% (viii)	75% (ix)
Argentina (2004)	(1)	(11)	(111)	(10)	(V)	(VI)	(VII)	(VIII)	(IA)
USD 1 a day	1.7	4.9		2.0	4.8	11.6	0.0	0.1	
USD 2 a day	2.2	5.0	10.2	5.6	10.5	15.8	0.1	0.4	0.9
Extreme official	2.1	5.3	9.7	6.0	12.2	17.2	0.1	0.4	1.0
Moderate official	2.9	6.1	11.6	24.4	36.5	46.2	1.0	3.5	7.5
Bolivia (2002) USD 1 a day	4.0	10.4	23.1	8.6	15.4	20.2	0.2	0.9	1.9
USD 2 a day	3.5	8.6	20.8	19.0	31.4	40.9	0.7	3.0	6.7
Extreme official	2.0	4.7	8.4	11.6	21.1	28.5	0.4	1.5	3.4
Moderate official	3.4	7.0	11.7	50.4	63.8	70.6	2.6	9.2	19.0
Brazil (2003) USD 1 a day	2.8	8.6		2.8	6.2	10.6	0.0	0.1	
USD 2 a day	2.6	5.4	12.8	5.3	9.9	15.9	0.1	0.1	1.0
Extreme official	1.9	4.7	10.5	3.4	6.9	11.3	0.1	0.4	0.5
Moderate official	2.6	5.9	10.9	10.3	18.0	24.6	0.3	1.3	2.9
Chile (2003)									
USD 1 a day	2.4	5.5	11.4	1.7	3.3	5.1	0.0	0.0	0.0
USD 2 a day	1.4	3.4	8.1	2.3	4.8	8.7	0.0	0.1	0.1
Extreme official	1.4	3.5	8.3	2.1	4.6	8.3	0.0	0.0	0.1
Moderate official	1.5	3.4	6.8	5.0	9.9	15.6	0.1	0.4	0.9
Colombia (2004)	5.0			F 2	40.5	40.5	0.1		
USD 1 a day USD 2 a day	3.1	9.9		5.3 8.2	12.5 17.0	12.5 25.1	0.1 0.2	0.8	
Costa Rica (2003)	3.1	5.5		0.2	17.0	23.1	0.2	0.0	
USD 1 a day	2.8	8.7		2.2	5.1	8.6	0.0	0.0	
USD 2 a day	2.6	6.1	14.2	4.5	8.5	13.3	0.0	0.2	0.4
Extreme official	2.7	6.4	16.3	4.4	8.4	13.4	0.0	0.1	0.3
Moderate official	2.1	4.9	10.6	9.2	17.0	25.3	0.2	0.8	1.8
Dominican R. (2004)									
USD 1 a day	1.6	2.9	6.2	2.0	3.5	6.1	0.0	0.0	0.1
USD 2 a day	1.5	3.4	6.3	4.4	8.7	13.2	0.1	0.3	0.6
Extreme official	1.3	3.3	6.3	3.2	7.2	11.4	0.0	0.2	0.4
Moderate official Ecuador (2003)	2.0	4.8	8.5	11.8	21.6	29.2	0.4	1.5	3.4
USD 1 a day	2.1	5.0	12.0	5.3	10.1	16.5	0.1	0.3	0.7
USD 2 a day	2.1	5.4	10.5	14.5	25.2	34.3	0.5	1.9	4.2
El Salvador (2003)	2.0	5.4	10.0	14.0	20.2	04.0	0.0	1.5	7.2
USD 1 a day	2.8	7.1	20.8	7.5	14.2	22.1	0.1	0.6	1.3
USD 2 a day	2.7	6.4	13.9	19.0	31.8	42.2	0.6	2.5	5.8
Extreme official	2.1	4.9	10.7	7.4	13.9	21.3	0.1	0.5	1.2
Moderate official	2.5	5.8	11.0	24.5	38.6	48.7	0.8	3.2	7.2
Honduras (2003)									
USD 1 a day	1.6	3.4	6.8	3.8	7.0	11.2	0.1	0.2	0.5
USD 2 a day	2.3	5.6	9.8	12.8	22.9	30.1	0.4	1.7	3.8
Extreme official	2.9	6.7	12.0	23.4	36.9	45.3	1.1	4.0	8.7
Moderate official Jamaica (2002)	4.8	9.4	15.7	90.3	93.6	95.0	5.0	17.1	34.0
USD 1 a day	8.4	39.5		12.0	19.2	19.8	0.5	1.8	
USD 2 a day	7.3	21.4		24.8	35.9	39.5	1.2	4.4	
Moderate official	1.4	3.4	6.1	10.4	19.7	27.8	0.2	0.8	1.9
Mexico (2002)									
USD 1 a day	4.5	17.5		7.0	14.6	17.6	0.1	0.4	
USD 2 a day	2.6	7.2	25.9	10.9	21.4	32.8	0.3	1.2	3.0
Nicaragua (2001)									
USD 1 a day	1.6	4.0	8.7	5.2	10.7	17.4	0.1	0.4	1.0
USD 2 a day	2.5	5.5	9.8	20.9	33.2	42.0	0.9	3.3	7.3
Extreme official	1.3	3.1	5.3	6.1	12.2	17.7	0.1	0.3	0.8
Moderate official Panama (2002)	2.2	4.6	8.1	27.8	41.5	51.4	0.1	0.3	0.8
USD 1 a day	1.8	4.2	9.2	1.7	3.4	5.9	0.0	0.1	0.1
USD 2 a day	2.2	5.3	10.1	4.4	8.8	12.9	0.1	0.3	0.8
Extreme official	2.2	5.4	10.1	4.3	8.5	12.4	0.1	0.3	0.7
Moderate official	2.9	6.9	12.6	13.7	23.4	30.5	0.5	1.9	4.2
Paraguay (2002)									
USD 1 a day	4.3	12.9		7.8	14.7	19.8	0.2	0.8	
USD 2 a day	3.7	9.5	27.2	16.8	28.0	37.3	0.7	2.5	5.6
Peru (2002)									
USD 1 a day	1.8	4.1	7.6	3.6	7.0	10.6	0.0	0.2	0.4
USD 2 a day	2.4	5.5	10.2	11.1	19.6	26.9	0.3	1.3	3.0
Extreme official	1.6	3.5	6.4	9.1	16.6	24.0	0.2	0.8	1.7
Moderate official	2.4	4.9	8.2	42.7	57.4	66.1	1.6	5.8	12.4
Uruguay (2003) USD 1 a day	1.2	2.7	6.5	1.3	2.6	5.0	0.0	0.0	0.0
USD 1 a day USD 2 a day	1.2	2.7	5.4	2.7	2.6 5.5	9.5	0.0	0.0	0.0
Extreme official	1.1	2.0	4.7	2.7	3.9	7.4	0.0	0.0	0.1
Moderate official	1.8	4.0	6.9	14.3	24.8	33.2	0.4	1.4	3.2
Venezuela (2000)							J		J.L
USD 1 a day	1.8	5.2	13.5	4.9	11.1	18.3	0.1	0.2	0.6
USD 2 a day	2.1	4.8	9.2	14.4	25.3	34.8	0.4	1.5	3.4
Extreme official	1.9	4.4	9.6	7.8	14.8	23.1	0.1	0.5	1.3
Moderate official	2.6	5.5	10.3	31.2	45.3	55.4	1.0	4.0	8.8

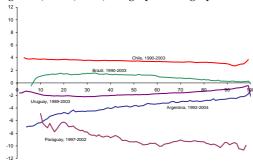
Source: Own calculations based on household surveys.

Note: Redistribution 1=tax rate t on all the population, and equal expenditures per capita.

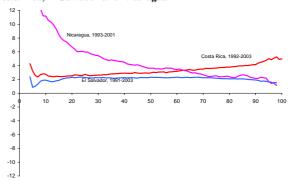
Redistribution 2=tax rate t on all the non-poor, and minimum expenditures needed to reduce poverty headcount ratio.

Figure 1 Growth-incidence curves Household per capita income

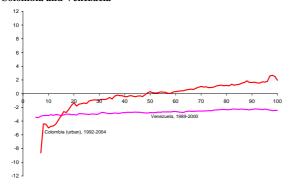
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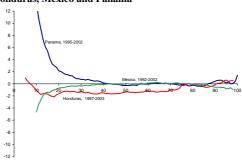
#### Costa Rica, El Salvador and Nicaragua



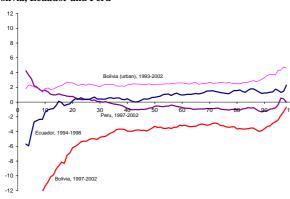
#### Colombia and Venezuela



#### Honduras, Mexico and Panama



#### Bolivia, Ecuador and Peru



#### **Dominican Republic and Jamaica**

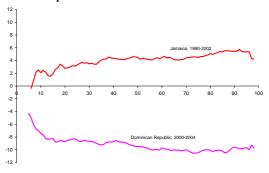
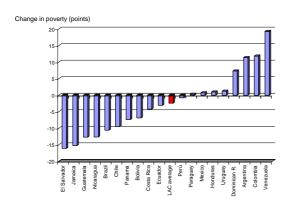
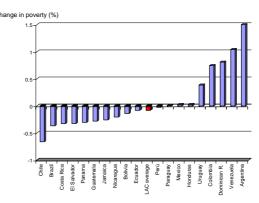


Figure 2 Change in the poverty headcount ratio between early 1990s and estimated value for 2004 USD 2-a-day poverty line





Note: poverty change in Argentina truncated in 1.5, real value is 2.702.

Source: Own calculations based on microdata of household surveys.

Figure 3 Poverty headcount ratio and number of poor people

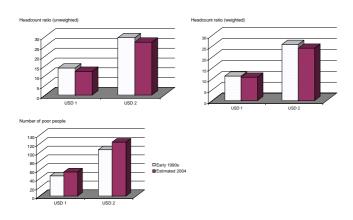
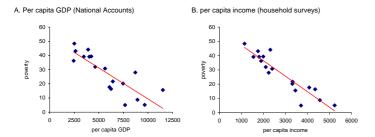


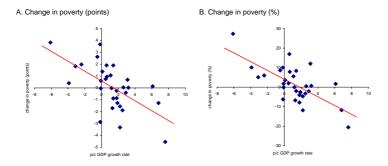
Figure 4 Scatterplot Poverty headcount ratio (USD-2-a-day poverty line) - per capita GDP or income (in PPP USD)



Source: Own calculations based on microdata of household surveys. Note: values refer to the last available survey in our dataset (early 2000s).

Figure 5 Scatterplot Change in the poverty headcount ratio (USD-2-a-day poverty line) and annual growth rates

1. per capita GDP annual growth rate (from National Accounts)



2. per capita income annual growth rate (from household surveys)

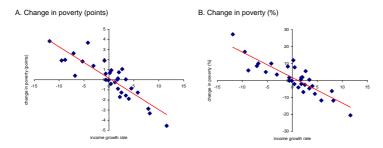


Figure 6
Isopoverty curves
Combinations of neutral growth rates and incremental tax rate needed to achieve a certain poverty-reduction target in 10 years
USD-2-a-day poverty line

Argentina Bolivia Brazii

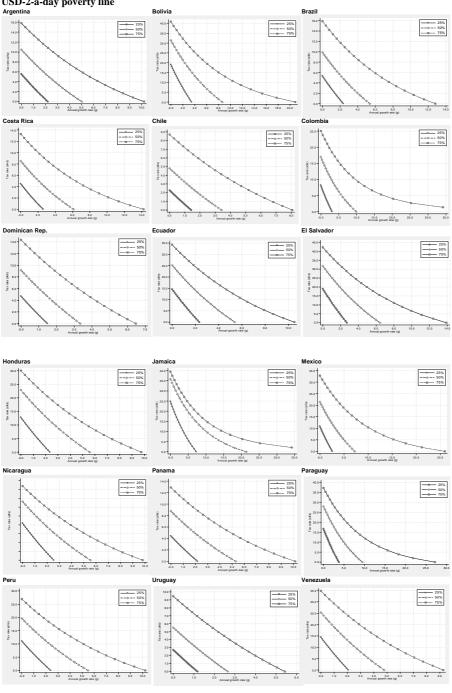
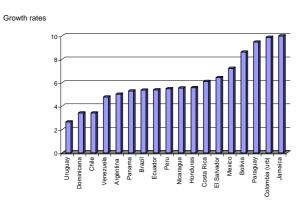
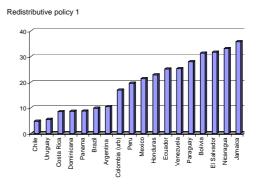


Figure 7
Neutral growth rate and incremental tax rate needed to achieve poverty reduction of 50% in 10 years (intercepts of isopoverty curves)

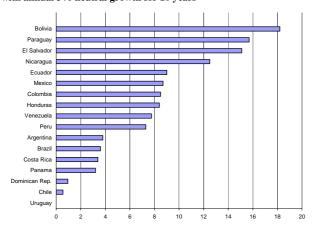
USD-2-a-day poverty line





Source: Own calculations based on microdata of household surveys.

Figure 8 Incremental tax rate needed to achieve poverty reduction of 50% with annual 3% neutral growth for 10 years



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