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The 1990s in Latin America: Another Decade of Persistent Inequality

by

Miguel Székely and Marianne Hilgert*

December 1999

Abstract: This paper argues that there is no country in Latin America where we can confidently say that income inequality improved during the 1990s. We document this fact for the 15 countries where comparable household surveys, covering most of the population, are available. What we observe are genuine distributive changes, which are being driven neither by differences in the characteristics of the data nor by the way in which the data is treated. In 10 of the countries, the lack of progress is driven by increases in inequality among the first nine deciles. In the remaining 5, the reason is a greater concentration among the richest 10% of the population. We also observe that in 7 countries, the dynamics among individuals with 14 years or more of schooling are the main reason why income distribution has not improved in the 1990s. However, the lack of progress in income distribution is not exclusive to this region. We compare Latin America internationally and find that, with few exceptions, inequality has increased less in this region than in developed countries and in Eastern Europe.

Keywords: Inequality, distribution, income sources, Latin America.

JEL Classification: D31, O12, O54.

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Introduction

This paper argues that there is no country in Latin America where we can confidently say that income inequality improved during the 1990s. Apart from documenting this fact by using household survey data for the 15 countries in the region with information representative at the national level,¹ we pursue two other objectives. First, we verify if what we observe are genuine distributive changes, or if they are being driven by differences in the characteristics of the data or by the way in which the data is treated. Secondly, we explore what kinds of individuals and what kinds of incomes are driving the shifts that have taken place.

Studying the Latin American case is especially relevant for at least three reasons. The first is that it is the most unequal region in the world, and the changes in the 1990s give some indication of prospects for the future. The second is that the 1990s have been years of economic recovery and macro stability, as compared to the "lost decade" of the 1980s, which was characterized by high economic volatility and stagnation, and by a sharp deterioration in income distribution. Macroeconomic volatility and inflation usually have larger negative effects on the poor, but it is still not clear if a more stable environment leads to reductions in inequality or simply to a deceleration or an end of the deterioration.² Latin America is a good case to verify if there is a tendency for income distribution to improve after adverse macro conditions. This is important in light of the recent financial turmoil in East Asia, and of the unstable macroeconomic environment in several Eastern European countries. One of the best examples of why stable economic conditions do not necessarily imply improvements in the distribution is inflation. It is well known that high inflation rates affect the poor more because they do not have access to income smoothing mechanisms and because their incomes are more closely tied to minimum wages, which tend to deteriorate in these conditions. However, if inflation is

¹ As explained later, the only exception is Uruguay, where surveys cover around 90% of the total population in the country.

² There is a large list of works documenting deterioration in the distribution of income during recession, volatility and stabilization. One recent example is the collection of country studies in Ganuza, Taylor and Morley (1998).

controlled, this normally means that the additional pressure on inequality will be released. Inequality will not continue to grow, but there is no reason to expect that it will decline.

The third reason is that during the 1980s the Latin American economies initiated an intense process of economic reform.³ These kinds of measures imply an intense reallocation of resources in the economy that is likely to have short-term and longer-term effects over income distribution. Since several Eastern European economies are going through the initial phases of the same process at the moment, it is of interest to know if there is a tendency for distribution to improve or worsen during or right after the implementation of reform.

The paper is divided into five sections. Section 1 documents the changes in inequality in Latin America in the 1990s by using 49 household surveys from 15 countries, and compares them with changes in countries of other regions in the world in recent years. In all cases inequality is estimated directly with the micro data from household surveys. Section 2 verifies if our impression about the changes in inequality is modified when accounting for differences in geographic and income source coverage. Section 3 checks for the robustness of the changes to the use of different assumptions about adult equivalence scales, economies of scale in consumption, treatment of missing and zero values, and the use of alternative inequality measures. Section 4 explores what's behind the changes, but still with the sole idea of illustrating what aspects of distribution have been changing, rather than explaining the causes of the shifts. Section 5 concludes.

1. Changes in Inequality in the 1990s

To explore the dynamics of income distribution in Latin America in the 1990s we process the micro data in 49 household surveys for Bolivia, Brazil, Chile, Colombia, Costa Rica, Ecuador, El Salvador, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay

³ See IADB (1997).

and Venezuela.⁴ These countries cover 90% of the total population in Latin America (see Appendix tables A.1 and A.2 for a description of the data), and to our knowledge they constitute the most comprehensive and up-to-date comparison for the Latin American region for the 1990s. The specific countries and years analyzed are selected under two criteria. The first is that the countries should have surveys that are nationally representative. The only exception we make is Uruguay, where household surveys are restricted to urban areas but still include more than 90% of the country's population.

We apply this strong restriction to assure that a sufficiently large proportion of the population is covered. Focusing on the urban distribution due to the lack of national data in countries with large rural populations may give a misleading impression of the direction and the size of a distributive shift.⁵ Restricting the analysis to nationally representative information also guarantees that composition effects due to migration do not drive the changes we observe. By imposing this restriction, the number of data points we are left with is considerably reduced since countries with a long tradition of producing household surveys (to which we have access) are left out. One notable case is Argentina, where most of the surveys for the 1990s refer only to Gran Buenos Aires, or at best to other urban areas, but typically cover less than 70% of the population of the country. In some cases this restriction considerably shortens the period we are able to analyze. For instance, Bolivia, El Salvador, Ecuador and Paraguay have long series of urban surveys, but since they cover less than 50% of the total population the observations for those years have also been excluded from this study. Thus, for these countries, we restrict the comparison only to the years where a nationally representative survey is available to us.

The second and most important requirement is that the series of household surveys for the 1990s be strictly comparable within each country in terms of questionnaires, sampling techniques, and institutional origin.⁶ We do this to guarantee that what we observe are

⁴ Some of these surveys where obtained through MECOVI, a program sponsored by the Inter American Development Bank, the World Bank, and ECLAC to collect and organize the existing household surveys in Latin America and to promote the implementation of new surveys. The rest of the surveys were obtained directly through country statistical offices.

⁵ We illustrate this in Section 2.

⁶ For a recent discussion of the importance of these aspects for comparisons over time, see Pyatt (1999).

genuine distributive changes and not shifts caused by differences in the way in which the data is produced. For instance, in the case of Venezuela, household surveys are available for each year since 1990. We only use two of those surveys because the questionnaire and the instruments used to capture the information changed in 1994. Thus, the only surveys that are strictly comparable are those held either before 1994 or from 1995 on.⁷ This restriction also implies dropping the Dominican Republic from our sample. This country has surveys for 1992 and 1996, but since the surveys have different objectives and questionnaires we do not consider them.⁸

It is important to bear in mind that with these two strong restrictions we guarantee comparability within the countries included in the study, but cross-country comparability is not guaranteed. Some of the differences become apparent in the following sections.⁹

Our 49 observations for Latin America are plotted in Figures 1, 2 and 3.¹⁰ In Figure 1 we present the 8 cases where there is a statistically significant increase in the Gini coefficient between the first and last observation. The largest increases between the two end-points are observed in El Salvador, Nicaragua, Peru and Venezuela.¹¹ Among the countries with

⁷ The exceptions we make are one survey for Peru and two surveys for Honduras. The 1991, 1994 and 1997 Peruvian surveys are nationally representative, but the 1991 survey excludes the geographic areas of Costa Rural, Selva Urbana and Selva Rural, which account for 16% and 18% of the total population in 1994 and 1997, respectively. Throughout this work, we do not restrict the 1994 and 1997 samples to the same geographic areas as 1991 mainly because of the loss of information that this conveys. However, we check if our conclusions about the changes in inequality in Peru are modified when restricting the last two surveys to the geographic areas covered in 1991, but none of them is modified. In fact, the Gini coefficient computed with and without these geographic areas in 1994 and 1997 is not statistically significantly different from the Gini for the whole population. In the case of Honduras, the first three surveys we use are strictly comparable. The 1998 survey is identical except for the fact that it includes additional questions in the questionnaire to capture non-labor incomes. We have used the four surveys for our analysis and in Section 2 we show that the conclusions about the changes in inequality in this country hold when we only use the incomes that are strictly comparable throughout.

⁸ The 1992 data is from a consumption survey, while the 1996 data is from a labor force survey. The income sources covered, the timing, the sampling technique and the objectives of each are different. We do not know if, when they are compared, the differences reflect real changes in inequality or if they are only reflecting differences in the way in which the data is produced.

⁹ Székely and Hilgert (1999) present a detailed discussion of the differences across countries.

¹⁰ We end up with 5 observations for Colombia, and Costa Rica, 4 for Brazil, Chile, Honduras, Mexico, and Uruguay, 3 for El Salvador, Panama and Peru, and 2 for Bolivia, Ecuador, Nicaragua, Paraguay and Venezuela.

¹¹ As mentioned previously, national household surveys for Venezuela are available for years previous to 1995. We have not used this information here because the data is not comparable with the surveys for 1995 and 1997 (the main difference is the change in the questionnaire), although we do have access to household

more than two observations, we distinguish three patterns. First, in El Salvador, Panama and Peru inequality grows continuously throughout the period. Secondly, in Brazil and Uruguay, most of the deterioration took place during the early years of the decade. Thirdly, in Honduras there was a reduction in the early years of the decade, and a sharp deterioration thereafter.

Figure 2 presents the 6 countries where there is no statistically significant change in the Gini coefficient between the two end points of the 1990s. They are Bolivia (where the comparison is only available for 1996 and 1997), Chile, Colombia, Costa Rica, Ecuador and Mexico. Colombia and Chile are the only cases where the Gini shows some variation between the first and last observation. In Colombia there is a considerable increase in inequality between 1991 and 1993, and then a decline that fully compensates for the deterioration. In Chile there is a decline between 1990 and 1992, which is fully compensated by an increase in 1994 and 1996.

In Figure 3 we include Paraguay, which is apparently the only country where inequality declined (the figure has the same scales to facilitate the comparison). The solid line in the figure shows that that there is a substantial reduction in the Gini coefficient (of about 5 points) between 1995 and 1998. We present this country separately not only because it is apparently the only one where inequality decreased, but also because the 1995 survey, although comparable with 1998, is quite peculiar. As shown by Székely and Hilgert (1999), the high value of the Gini coefficient for 1995, which actually places the country as one of the most unequal in the world, is totally driven by a single outlier observation (out of a sample of around 22,000) with an income of US\$132,000 per month. This is an implausibly high figure for Paraguay, and it is actually the highest income captured by any of the household surveys in the 18 Latin American and the Caribbean countries with available data. The second highest income in the survey is eleven times smaller. Figure 4 plots all the incomes of the 1995 and 1998 surveys (in real terms and in the same scale)

surveys for Venezuela for 1989 and 1993. The Gini indexes computed from those data are .44 and .43, respectively. Including them in the picture would lead to the conclusion that inequality in this country increased by even more than is apparent in Figure 1, but this conclusion should be taken cautiously because the surveys are not strictly comparable.

and illustrates more clearly the degree to which this observation is an outlier. As explained by Cowell and Victoria Feser (1996), these kinds of observations are normally regarded as "contamination" in the data and in the literature for developed countries it is standard practice to eliminate them from the sample. The dotted line in Figure 3 presents the change in the Gini coefficient after excluding the highest observation in both years, and shows that our impression about the change in inequality in Paraguay between 1995 and 1998 is totally driven by this single outlier in 1995. After excluding the top observation from each sample, there is no statistically significant change between 1995 and 1998.

Therefore, we can confidently say that none of the 15 Latin American countries examined here show distributive progress in the 1990s. In the only case where there is an apparent improvement, the conclusion depends on a single outlier observation that is not very reliable, and which perhaps is better described as "contamination" in the data.¹²

Comparisons with Previous Decades

In a recent paper, Londoño and Székely (2000) (LS) show that the Gini index in Brazil, Honduras, Panama, Peru and Venezuela increased during the 1980s. According to our results, the 1990s have experienced a continuation of this trend, although there seems to

¹² To our knowledge, the only two other works examining changes in inequality in a number of Latin American countries in the 1990s are Wodon et al. (1999) and ECLAC (1998). Wodon et al. use household survey data for 12 countries, but five of them have only urban coverage and large rural populations. The other two (the Dominican Republic and Venezuela) have data representative at the national level, but the series of surveys are not strictly comparable over time. The six countries where the authors use the same data as ourselves are Brazil, Chile, Colombia, Honduras, Mexico and Uruguay. The trend observed in the aforementioned study for these countries is very similar to our results. Nevertheless, the conclusions on the changes during the 1990s are not exactly the same as in this study for the cases of Honduras, Colombia and Uruguay, but this is only because Wodon et al. cover a shorter time-span (their analysis stops in 1996 for these countries), and do not consider the shifts observed up to 1997 or 1998, which are quite important, especially for Honduras and Uruguay. Comparisons with the ECLAC study are more difficult for four reasons. First, ECLAC only reports income distribution measures for urban and rural areas separately, so it is not possible to draw conclusions about the evolution of inequality at the national level. Second, the study does not specify which household surveys were used for the computations, so we do not know whether the information is comparable over time within each country. Third, the methodology, and in particular, the adjustments to National Accounts, are not explained or documented, so we do not know if there is comparability even between the Gini for urban areas they present and those presented later in this document. Fourth, for Bolivia, Colombia and Paraguay, the results refer only to large metropolitan areas that do not cover the whole urban population.

be a slight deceleration in the deterioration.¹³ Londoño and Székely only consider countries with surveys in the 1980s that are nationally representative, so they do not include information for El Salvador, Nicaragua, and Uruguay, which also appear in Figure 1. However, for Uruguay we do have a previous survey for 1981 with the same geographic coverage as the later surveys. We compute the Gini coefficient for this year and find that inequality declined from .4329 in 1981 to .4064 in 1989. According to our calculations, the Gini index for Uruguay for 1997 is .43, so the slight improvement in the 1980s in this country seems to have ended during the present decade.

With respect to the countries in Figure 2, Londoño and Székely show that there was a sharp increase in inequality during the 1980s in Mexico and Chile. In the 1990s, inequality has remained at practically the same high level in these countries. Colombia and Costa Rica are the only countries in our sample where Londoño and Székely show that the Gini coefficient declined during the 1980s. During the 1990s, distribution has not continued to improve in any of these cases.

Comparisons with Countries in Other Regions

To place these changes in a wider context, we access household survey data from the *Luxembourg Income Study* for two points in time for 17 countries from outside the Latin American region, as well as several Socio-Economic Surveys for Thailand. We do this to verify whether the lack of distributive progress in the 1990s is exclusive to the Latin American region or if it is a more widespread phenomenon. Table 1 presents the results and includes the change between the first and last survey for each of the Latin American countries in our sample.¹⁴ The Gini coefficients refer to the distribution of household per capita income.

¹³ Strict comparability between the Londoño and Székely country estimates and those presented here is not guaranteed, even though they all refer to countries with nationally representative surveys. Thus, these comparisons should be taken cautiously.

¹⁴ Note that the comparison does not refer to the same years for each country. Note also that the last year in the comparison for the Latin American countries is generally closer to 1998 than in the other regions. To make the Gini coefficients more comparable, we compute inequality in the non-Latin American countries by using the full sample of individuals (excluding domestic servants and boarders), but we drop missing and zero values. In Table 1 we use income, rather than consumption, because most surveys report only

Of the 32 countries in the table, there is only one case (Thailand) where there is a statistically significant reduction in the Gini index in the 1990s. On average, the smallest yearly increase is actually observed in the group of countries comprised by Latin America. They are followed by North America (note, however, that the change in the United States is much greater than in Canada) and Western Europe. Eastern Europe is the region with the sharpest deterioration.

With respect to individual countries, the largest yearly increases (in Gini points) are registered in El Salvador (0.018), Poland (.017 points), Hungary (.015), Venezuela (.013) and Italy (.013 points). With the exception of El Salvador and Venezuela, the increase in the rest of the Latin American countries does not deviate considerably from the pattern in countries found outside the region. In fact, for most Latin American countries, the yearly change in inequality during the 1990s has been smaller than in the US.

It should be noted that the Eastern European countries that register the largest increases in inequality are still going through a period of economic liberalization and macroeconomic instability, which is similar to the macro context during the second half of the 1980s in Latin America. In contrast, the latest observations for Taiwan and Thailand are several years before the recent financial crisis in East Asia. Therefore, we are comparing changes in inequality post-crisis and during reform in Latin America, with inequality during crisis in Eastern Europe, with inequality pre-crisis in East Asia, and with inequality during mild, but positive, growth in industrial countries. More recent data for South East Asia and Eastern Europe would perhaps change this picture.

income. For a more detailed analysis of changes in inequality in developed and Eastern European countries, see Gottschalk and Smeeding (1998).

2. Changes in Inequality and Survey Characteristics

Results such as those presented in Figures 1 to 3 are commonly used to evaluate economic performance and may influence our impression about the effectiveness of the policies that countries pursue. Usually, countries where income distribution improves over time are regarded as successful, while the contrary occurs for countries where inequality increases. In this section we explore whether, even after restricting the sample of countries to those that have strictly comparable surveys, differences in survey characteristics or some other aspects of the surveys are driving the changes we observe across countries.

First, we turn to changes within each country. Even though the Gini indexes in the first column of Table 2 are computed from household surveys that are strictly comparable over time, the sample from which they are drawn can change in subtle ways, thereby distorting the picture of the changes in inequality. For instance, even though the survey questionnaire is strictly comparable, there may be changes in the sampling frame that modify the weight of some population groups, and therefore modify the value of the Gini coefficient even if there is no *real* distributive shift. Appendix Table A.2 shows the census used as the frame for the design of each of the surveys. In most cases, the frame is the same for all observations, but in Chile, Mexico, Nicaragua and Peru, it changes in some years. In Mexico it actually changes twice. In all these cases the difference is in the first years considered, so any conclusion driven by the early part of the decade should be taken with more caution.

A related issue is the size of the sample in each survey. On the one hand, larger samples improve the precision of any estimate, and on the other, by increasing population coverage, they might include a wider variety of socioeconomic groups. Since improvements in terms of the precision or in the increases in coverage do not have any clear effect on inequality estimates, we can do little more than document them. Table A.2 in the Appendix presents the sample sizes as well as the standard error of each

observation and shows that in Chile, Colombia, Honduras, El Salvador, Uruguay, and Venezuela there are considerable shifts in some years.

With respect to differences in survey characteristics across countries, the two most important issues are income source and geographic coverage. We now turn to assess their importance.

Differences in Income Source Coverage

One of the main differences across countries is the degree to which household surveys capture the range of possible income sources. The most complete surveys capture non-monetary incomes, labor incomes, income from capital, government transfers, property rents, and other incomes. As shown in Appendix Table A.2, most surveys capture some non-labor incomes, but it is common to capture these sources through a single question in the questionnaires rather than gathering information on each of them separately. This difference undoubtedly reduces the precision of the estimation of non-labor incomes. It can also be seen that there are important differences in the coverage of non-monetary incomes.

Table 2 presents in the first column the Gini coefficient estimated in a conventional way for Latin America – that is, using per capita income and dropping all zero and missing values – with the most complete definition available in each case (these are the observations plotted in Figures 1 to 3). The second column presents the Gini for labor incomes, including labor income from self-employment. This is the income source with the highest degree of comparability across countries and over time. If we restrict our comparison to this source, we would conclude that in 11 cases inequality increased during the 1990s (comparing the first and last points). In Bolivia, Costa Rica and Ecuador, the change is not statistically significant. Paraguay is the only country where there is a reduction, but, as shown in Figure 4, this conclusion is totally driven by a single outlier observation in the survey.

Therefore, if we restrict the Gini coefficient to measure inequality by using the same comparable income sources in all cases, some conclusions change. Chile, Colombia, and Mexico, which apparently have a better record in terms of income distribution in the 1990s, now appear to have significant increases in inequality, even similar to those observed in Honduras and Nicaragua. The reason why the first three countries at first glance have a better record than the last two is simply that their household surveys cover other income concepts that apparently have been better distributed than labor incomes.

Differences in Geographic Coverage

Since our sample of countries includes one where the surveys are not nationally representative, it is also of interest to compare the change in urban areas only, which is the only way of guaranteeing geographic comparability. The last columns of Table 2 present the Gini for urban and rural areas separately, as well as the relation between the average urban and rural incomes, and the proportion of urban population.¹⁵ According to the results, there are several cases where our impression of the change in inequality would be modified by restricting the samples to urban areas. In Bolivia, Chile, and Colombia, urban inequality increases during the 1990s, while in Costa Rica, Ecuador and Mexico urban inequality declines between the first and last observation. Interestingly, these are the six countries where there was no statistically significant change in the Gini coefficient for the whole population. Thus, the conclusions change if we restrict our comparison to the same geographic areas for all 15 countries. Most importantly, this comparison reveals that in countries where the rural population is relatively large (see the last column of the table), focusing only on urban areas, due to the lack of national household surveys, can give a totally misleading impression of how inequality has changed.

¹⁵ We present the data in this way, rather than through the traditional decomposition of the change in inequality into between and within group effects (by using members of the General Entropy family of inequality measures), because our objective is to determine whether our impression of the change in inequality depends on the geographic area that the surveys cover. For Venezuela 1997, we do not have access to the variable indicating the geographic location of each observation. For this reason we do not separate the data.

The differences between total inequality and urban inequality are the effects of the disparities within rural areas and the effect of differences between the average incomes of these two areas. Rural inequality increased in 7 out of the 13 cases where the comparison can be made. In Chile, Colombia and Paraguay it declined, and it remained practically unchanged in Costa Rica, Mexico and Panama. Differences between urban and rural areas have also changed quite significantly (see Table 2). In Bolivia, Ecuador, Honduras and Peru they had an inequality-reducing effect, while in Chile, Colombia, El Salvador, Mexico and Paraguay, they had the opposite impact. Restricting the comparison to urban populations ignores these important effects on distribution.

3. Do the Conclusions Survive Some Robustness Tests?

The Gini indexes in Figures 1 to 3 are computed by using income per capita as the welfare indicator and by dropping all missing and zero incomes. This is equivalent to assuming that there are no economies of scale in consumption, that each individual in the household has the same needs, and that all missing and zero values are unreliable observations and should be discarded. Although this is the standard way in which inequality estimates are computed in Latin America,¹⁶ there are equally valid alternative assumptions that could be used. In this section we check whether our conclusions depend on the specific methodological choices used so far. We also explore if the conclusions are robust to the choice of other inequality indexes.

3.1 Economies of Scale and Adult Equivalence Scales

As argued by Lanjow and Ravallion (1995), the assumption that there are no economies of scale in consumption is unrealistic because when an additional member joins the household it is not necessary to duplicate many of the basic expenditures, such as infrastructure. There can even be economies of scale in food production and

¹⁶ Londoño and Székely (2000).

consumption. Income per capita is computed by dividing total income (y) over the number of individuals in the household (n), but it can also be expressed as y/n^a , where **a** is a parameter indicating the extent to which there are economies of scale. Per capita income is obtained when a=1.

Unfortunately, there is no convincing theoretical argument to decide what the value of a should be within different contexts. One option, which we pursue here, is to define a range of values for the parameter, with which the sensitivity to the particular choice can be verified. For the purposes of this work, we choose four values for a:.975, .95, .925 and .9, which still imply rather conservative assumptions about economies of scale. If we assume the most extreme of these values, a=.9, a household of 5 members (the average in Latin America) is equivalent to a household size of 4.2 individuals. This yields a greater income for each member as compared to the assumption that a=1.

The first column in Table 3 presents the Gini index calculated using a=.9 (we do not present the results using other values of the parameter for brevity and because they show smaller variation). There are four countries where our conclusions change when we allow for economies of scale in consumption. In Chile and Ecuador inequality increases rather than remaining constant, although the shift is only statistically significant in Chile. In Uruguay, rather than an increase, there is no statistically significant change, while in Costa Rica inequality declines rather than remaining constant. For the rest of the countries, our conclusions remain unchanged when using the range of parameters mentioned above.

Apart from the possible existence of economies of scale, it is normally argued that different individuals have different needs. For instance, in the analysis of income distribution in developed countries, equivalence scales are widely used to adjust for differences in needs by age.¹⁷ In Latin America, the use of equivalence scales has been much more limited mainly because adequate estimates are not readily available. To check for the robustness of the results to adjusting the data for differences in needs, we use two

equivalence scales. The first is the "Amsterdam" scale in Deaton and Muellbauer (1980), which has been widely used in developed countries, and the second is a recent scale estimated by Contreras (1996) with data from Chile. The second column in Table 3 presents the results using the equivalence scale by Contreras, which is the one under which the Gini presents greater variation.¹⁸

If, rather than focusing on the conventional Gini, we allow for the use of equivalence scales, our conclusions from Section 1 change only marginally. In Ecuador there is a slight increase, rather than a stable Gini, while in Mexico there is a slight decline instead of no change.

3.2 Treatment of Missing and Zero Values

So far we have dropped missing and zero incomes from the sample. In the few countries that document how these cases are handled, most proceed in the same way.¹⁹ Usually the justification for doing so is that these observations are unreliable and introduce more noise than signal into the measurement of inequality. According to Juster and Smith (1998) missing values tend to be correlated with capital incomes, and are generally due to the reluctance of the rich to disclose their wealth. In the case of zero incomes, it is not quite clear if they are associated with specific income sources, income levels and socioeconomic characteristics, or if they represent a precise and reliable answer to survey questions at all. This is a potentially important issue in Latin America because, as shown in Table 3, the proportion of missing and zero incomes varies not only across countries, but also within the same country in many cases. The only countries where they are negligible are Mexico, Peru and Uruguay. But in Nicaragua, Costa Rica, Bolivia and El Salvador they account for more than 10% of the observations in the whole household survey for some years.

¹⁷ See, for instance, Gottschalk and Smeeding (1997).

¹⁸ This equivalence scale is taken from Ferreira and Litchfield (1997), who adjust the original scale by Contreras. For the typical 5-member household in Latin America, applying the Contreras equivalence scale implies reducing household size from 5 to 3.5.

¹⁹ Londono and Székely (2000).

Excluding zero and missing values from the computation of the Gini is, however, only one among several options. We may also choose to believe that individuals reporting zero income are providing reliable information or, alternatively, we can impute incomes for zero income respondents rather than discarding them. For the purposes of this work we tried several combinations of dropping and imputing missing and zero values one at a time. The option under which the greatest variation was identified is the case where missing values are imputed and zero incomes are taken at their face value. For the imputations we follow a two-step procedure. The first step consists of estimating income regressions for each income source separately, where each individual's income is the dependent variable, and the independent variables are all personal and household characteristics. The coefficients are used to predict each income-earner's income for that source, including non-respondents. The second step consists of ranking all income earners of the source in question (including non-respondents) according to their predicted income. For non-responses, the error term is calculated by averaging the residual of the observation immediately above and below, and the total imputed income corresponds to the predicted plus the estimated residual. Household incomes are added up after the procedure.²⁰

The fourth column of Table 3 presents the Gini coefficient for each year by treating missing and zero incomes in the way just described. The results are quite striking. Now, instead of having 8 countries with a statistically significant change in inequality during the 1990s, we have 10 cases. We now have 5 countries where the shift is not significant, but the countries in this group are very different from those in Figure 2. Finally, there is not even one case, including Paraguay, where inequality appears to decline in a statistically significant manner. Bolivia, Chile, Colombia, and Ecuador are the countries where the pattern is modified from no shift to a significant increase. Nicaragua and Panama are the two cases where the original Gini increased, but after imputation of missing incomes and taking zero's at their face value the distribution remains unchanged.

²⁰ Brick and Kalton (1996), Kalton and Kasprzyk (1986), and Rubin (1987) review other methods for dealing with missing values.

In Paraguay, rather than having a sharp decline (although driven by a single outlier), there is no statistically significant change.

3.3 Use of Different Indexes for Measuring Inequality

Undoubtedly the Gini coefficient is the most commonly used measure of inequality, but there is a long list of equally acceptable alternative measures. The main difference is that different measures apply different weights to different sections of the distribution (for instance, the Gini applies more weight to the middle). The family of Generalized Entropy Inequality measures (E) explained by Cowell and Jenkins (1995) are some of the most transparent measures in the sense that they explicitly allow different weights to be applied to different sections of the distribution through the choice of a simple parameter.²¹

Columns 5 and 6 in Table 3 show changes in inequality by using two members of the entropy family of indexes: one that applies greater weight to changes at the lower tail of the distribution (b@-1), and another that applies more weight at the top (b@1). According to these results, our conclusions on the change in inequality for Costa Rica, El Salvador, Honduras, Nicaragua, Peru, Uruguay and Venezuela hold for either of these two indexes. In the case of Brazil and Panama, the bottom-sensitive index declines while the top-sensitive index and the Gini increases. Overall inequality measured by the Gini in these countries increases because the improvements at the bottom are counterbalanced by the greater concentration at the top of the distribution.

Perhaps the most interesting result is that, for five out of the six countries where the Gini remains stable during the 1990s (see Figure 2), the use of an alternative index leads to the conclusion that inequality actually increased. In Bolivia and Colombia the conclusion of

$E = 1 - [(1/n_x) S_{i=1} (y_i/m_x)^b]^{(1/b)}$

²¹ These indexes take the following form:

where **b** is a parameter that can be assigned any real value, n_x is the size of the population, and y_i and m_x are the income of each individual, and the average income of population x, respectively. Specifying a high

stability is reversed by the use of a bottom-sensitive index, while for Chile, Ecuador and Mexico the top-sensitive index yields a deterioration in the distribution of income.

Thus, in 7 out of the 15 cases, our impression of changes in inequality depends on the way in which we choose to summarize income distribution. In Table 5 we restrict the choice of measure to only two entropy indexes,²² but in Appendix Table A.3 we present some other commonly used summary inequality measures. The first column shows the income ratio of individuals at the top and bottom 10% of the distribution, respectively. The second compares the top 10% with the bottom 30%, while the third compares the richest and the poorest quintile. Interestingly, in 12 countries – including Chile, Colombia, and Ecuador, where the Gini remains unchanged – the income gap between the poorest and richest 10% expands. It only declines in Costa Rica, Mexico and Paraguay (although in the latter country the result is driven by the outlier observation at the top 10% and bottom 30% expand in 11 countries, but the gap does not widen as much as in the previous comparison. The same applies to the comparison of the top and bottom quintile. The income gap expands in most cases, but the change is only important in Brazil, Ecuador, El Salvador, Honduras, Nicaragua, Peru and Venezuela.

For a more general approach we perform first order stochastic dominance tests with the micro data to determine whether the whole distribution for the first year is unambiguously more equal than the distribution for the last year available. The last column in Table 3 shows the year that Lorenz dominates (is more equal) the distribution of the current year (blank spaces indicate that there is no first order stochastic dominance between the year in question and other year). The test is only performed for the endpoints for simplicity. In Bolivia, Brazil, Chile, Costa Rica, Mexico, Panama and Uruguay, the Lorenz curves for the first and last years intersect at some point, so the direction of the change in inequality is ambiguous. In the rest of the countries, the last

positive value yields an index that is more sensitive to redistributions at the upper tail of the distribution, while a negative value yields indices attaching larger weights to changes at the lower tail.

year is dominated by the first, so there is an unambiguous increase in inequality, although the shift is not always statistically significant.

4. What is Driving the Changes?

This section explores what is driving the changes in inequality in Latin America during the 1990s. First we analyze the role played by some specific socioeconomic groups, and then we focus on the role of the different income sources. We stress that our objective is not to explain the shifts, but rather to provide an idea about what aspects of the data are driving the lack of distributive progress.

4.1 Are the Changes Due to Greater Concentration Among the Rich?

We are especially interested in determining which parts of the distribution have been shifting in Latin America in the 1990s because theoretically it is not clear if, after periods of macroeconomic instability and economic reform, there are specific groups of the population who are better able to take advantage of the opportunities that are being generated. To examine this issue, we first focus on the influence of the richest sectors of the population and, secondly, we try to establish the effect of other groups characterized by their schooling.

A simple way to verify if the lack of distributive progress is due to a concentration of resources among the richest individuals is to re-compute the Gini coefficient by truncating the distribution at the top.²³ Specifically, we estimate inequality by excluding

²² In fact, we computed the entropy measures with a wide variety of values for the parameter α . We only present the cases for **b**@1 and **b**@-1 here because these are enough to make the point that different measures may lead to different conclusions.

²³ The standard way to measure the influence on a change in inequality of a certain portion of the population is to classify the population according to certain personal characteristic and to decompose the change in inequality into the effect of the redistribution within and between groups, respectively, and the effect of population shifts from one group to another (see, for instance, Mokerjee and Shorrocks (1982). We do not use this method here because we are interested in one very specific subgroup.

the richest 10 households, the richest 1% of the population, the richest 2%, the richest 5% and the richest 10%, respectively, and verify if the direction and magnitude of the distributive shift is similar to the results in Table 2. Table 4 presents the results.

In Bolivia, Chile, Costa Rica, El Salvador, Honduras, Uruguay and Venezuela, truncating the distribution at the richest 10% or above does not make much of a difference. The change in inequality in these cases is practically the same as in Table 2. In the last four countries there is a raise in the Gini, which is therefore caused by shifts among the first 9 deciles of the population.

In six out of the remaining eight countries, changes in inequality in the 1990s are strongly influenced by the greater concentration among the richest 10% of the population. For instance, in Brazil and Peru the increase in inequality documented in Table 2 is mainly due to the income gains of centiles 90 to 95. We arrive at this conclusion because when truncating the distribution at the top 10% there is a much smaller deterioration. But if the distribution is truncated at the top 5% the increase is much more considerable and very similar to the change in Table 2. In Nicaragua and Panama the situation is similar, although the income concentration that drives the increase in inequality is observed at centiles 95 to 98. The shifts in Mexico and Paraguay have the same features, although the main distributive effect is observed higher in the distribution. In Mexico, inequality among the first 98 centiles declined in a statistically significant way, but the greater concentration among the richest 2% resulted in no change in the overall distribution. The case of Paraguay is already documented in Figure 3. Excluding the highest observation in this survey changes the conclusion about the evolution of inequality. Table 4 confirms this.

Londoño and Székely (2000) find that most of the increases in inequality in Latin America during the 1980s are precisely due to a higher concentration at the top decile. Therefore, the results for these six countries can be regarded as a continuation of the trend. In the remaining two countries, Ecuador and Colombia, the top 10% also has a significant influence on changes over time, but in these cases the dynamics are quite the opposite. In Ecuador, the overall Gini does not change, but if the distribution is truncated at the 95th centile, the conclusion would be that inequality increased. Thus, the change in income among the two richest centiles actually contributed to improve the overall distribution. Colombia is a similar case. Truncating the distribution below the ten richest households results in a considerable increase in the Gini. After including these households in the computation, the Gini presents no statistically significant shift.

As already mentioned, it is common in developed countries to truncate the distribution at the top (generally the top 1%) and exclude it from the sample, because extreme incomes are regarded as less reliable. The main reason is that even if the richest individuals were willing to report all their income, it is difficult to determine their size with precision because they are usually derived from a variety of assets. Therefore, the first two columns in Table 4 could also be interpreted as an exercise where some of the observations that are suspected of having larger measurement error are excluded from the sample. The Gini with this truncation could be regarded as a "cleaner" comparison across countries. Under this interpretation, the first two columns of Table 4 would lead us to change our impression about how inequality has shifted in the 1990s in Chile, Colombia and Paraguay. Rather than having no change and a significant decline, respectively, we have a raise in the first two countries and no change in the third.

Are the Changes Due to More Concentration Among the Most Educated?

Another way of looking at the influence of specific subgroups is to divide the population according to years of schooling rather than by the position in the income distribution. This has an advantage in that most individuals in Latin America do not continue their formal schooling after age 20 and it is therefore possible to roughly follow about the same group of individuals across surveys.²⁴ Table 5 presents our estimations by

²⁴ There will be changes in composition due to the incorporation of individuals formerly below 20 in the first survey, but since we are not looking at long periods of time, these composition effects are not expected to be strong.

excluding different groups of individuals at the top of the schooling (rather than the income) distribution. The first column excludes individuals over 20 years of age with at least 20 years of formal schooling (typically these individuals at least have post-graduate education). The second column excludes individuals with 18 years or more (with at least a college degree), the third column truncates the schooling distribution at 15 years (some college education), while the last column refers to the Gini index computed for individuals with at least 12 years (some post-secondary). The change in overall inequality is the result of the inequality within the group we are considering (those below each schooling threshold), plus the inequality among those in the subgroup excluded from the calculation, plus the inequality due to the difference in average income between the two groups. In Table 5 we are only considering the distribution within the specific group below the threshold.

In Bolivia, Brazil, Costa Rica, El Salvador, Honduras, Paraguay, Peru and Venezuela, the conclusion about the magnitude of the change in inequality remains practically unchanged after truncating the schooling distribution. In Colombia, Ecuador, Nicaragua and Uruguay, excluding all individuals with more than 14 years of school would lead to the conclusion that inequality declined in the first two (rather than remaining constant), and remained constant (rather than increasing) in the other two. Thus, the subgroup of individuals with more than 14 years of schooling exacerbates inequality. Their inclusion cancels out the improvements in the distribution among individuals with less education. In Chile and Panama, the same effect is observed but for individuals with more than 17 years of schooling. In Mexico, excluding all individuals with less than 19 years would lead to the conclusion that there was a significant decline in the Gini index. Thus, the dynamics among the most highly educated are driving the lack of progress in distribution.

4.2 Which Income Sources are Behind the Changes?

Now we ask which types of income sources have been behind the changes in inequality. We have already presented some information on this in Table 2, but to provide a more precise idea of the contribution of each source, we apply the decomposition suggested by Székely (1998). This method allows us to identify the effect that changes in the distribution within each source and changes in the factor shares have on total inequality.²⁵

Table 6 presents the decomposition of the change between the first and the last year available for each country (Bolivia is excluded because all effects are negligible). We divide total income into four different sources: labor income for employees, labor income for the self-employed, non-labor income, and non-monetary income. The split of labor income into self-employment and employees is because presumably, one of the effects of economic reform is the creation of market opportunities, which could be reflected in a surge in self-employment.

In all cases but El Salvador, Honduras and Paraguay, the factor share effect, which accounts for changes in the relative weight of each income source, plays a minor role in the change in income distribution. In Honduras and Paraguay, the main effect is that the relative importance of labor income from self-employment increased during the 1990s. Since this source has a more unequal distribution than labor income for employees, the shift has a positive contribution to the increase in inequality. A similar situation arises in Mexico and Uruguay, although the factor share effect is much smaller. In the case of El Salvador most of the effect is driven by the increase in the importance of labor incomes for employees. The share of labor income for the self-employed also increased, and since these sources have a less egalitarian distribution the change contributes to increased inequality.

In all cases but El Salvador and Venezuela, there is a deterioration in the distribution of labor incomes for employees, which accounts for a major inequality increasing effect.

²⁵ The decomposition consists on expressing a change in inequality as:

 $[\]Delta I = \sum_{i=1} I_k \Delta \mathbf{b}_k + \sum_{i=1} \mathbf{b}_k \Delta I_k$

where I is overall inequality, I_k is inequality within source k and β_k is the income share of source k. The first term on the right hand side of the equation is the "factor share effect," while the second term is the "inequality effect." The equation is derived from Shorrocks (1982) and provides an exact decomposition that can be applied equally well to any inequality measure.

There is also a strong inequality-reducing effect from the improvement in the distribution of labor income from the self-employed (two exceptions are Nicaragua and Colombia, where both effects are positive). These two shifts may be responding to the same incentives. The inequality-increasing effect may be reflecting a rise in the return to skills, while the negative effect from the self-employed may be associated with a displacement of individuals with relatively high incomes and education, who might have shifted toward the jobs with the highest remuneration among employees.

Non-labor incomes have had un-equalizing effects in all countries except for El Salvador and Venezuela. In these cases, the factor share and the inequality effect have contributed to reducing inequality, but the effect has been totally counterbalanced by the regressive effects of labor incomes from employees (and labor incomes from self-employment in El Salvador). In the rest of the countries, non-labor incomes have been part of the reason why inequality has failed to decline in the 1990s. It should be stressed, however, that non-labor incomes tend to be captured with lower precision than labor income. So, part of the reason why this source does not play a predominant role may simply be that household surveys are not able to register them appropriately.

Only five countries in the Table have information for non-monetary incomes, and even among these few cases there are differences in the definition of this source.²⁶ In Colombia and Uruguay these sources have had a modest contribution to the increase in inequality, while in Chile and Peru they have been an important cause for the shift. In Mexico, non-monetary incomes have had a modest contribution in reducing inequality.

In sum, there is not a very clear pattern about the role that different income sources play over the changes in inequality. The only regularity is a substantial contribution of labor incomes of employees to the increase in inequality. This is to some extent counterbalanced by the improvement in the distribution of labor incomes from selfemployment.

²⁶ Specifically, in some cases only income in kind is included, while in others gifts and imputed rents are also accounted for.

5. Conclusions

This paper uses 49 household surveys from 15 Latin America countries in order to explore what has happened to inequality during the 1990s. We restrict the comparison to the countries that have data that is representative at the national level, and to household surveys that are strictly comparable over time. This limits the number of countries and years, but there are two important advantages. First, since the surveys are national, we are sure that our conclusions apply practically to the whole population of each country, rather than to restricted subgroups, as is the case with surveys that only have urban coverage. Second, comparability assures that our conclusions refer to genuine distributive shifts, and not to "artificial" variation introduced by differences in the survey methodology over time.

We can confidently say that in the 15 countries where comparable national household surveys are available, income distribution has not improved in the 1990s. There are five cases – El Salvador, Honduras, Nicaragua, Peru and Venezuela – where inequality has definitely increased sharply. In 3 other cases, the Gini coefficient estimated in a conventional way also shows a statistically significant rise, but if inequality is measured with alternative inequality indexes (for Brazil and Panama), or economies of scale in consumption are allowed for (in Uruguay), inequality declines or remains constant.

There are six countries where there is no statistically significant shift in the Gini during the 1990s, when the coefficient is estimated in the standard way. However, if rather than discarding missing and zero incomes – which is quite standard in Latin America but not in other regions – we impute missing values and take zero incomes at their face value, the Gini for Bolivia, Chile, Colombia and Ecuador presents a statistically significant increase instead of remaining stable. Mexico is another case where there is apparently no shift, but if rather than using the Gini, a top-sensitive inequality index is employed, the conclusion is that there is a considerable deterioration in distribution. Costa Rica is the only country

among these six where the conclusion of no shift during the 1990s is robust to the different ways of treating the data.

The only country where at first glance there is a reduction in inequality in the 1990s is Paraguay. But this conclusion is totally driven by one outlier observation (among the sample of about 22,000) in the 1995 data, with implausibly high incomes. This outlier drives up the Gini for 1995, so when it is compared with 1998 it gives the impression of a substantial improvement in income distribution. Once this observation – which is perhaps better regarded as "contamination" in the data – is dropped, the conclusion is that there is no statistically significant change in this country as well.

Although consistency within each country is guaranteed by the use of strictly comparable surveys, there are still considerable differences across countries in the characteristics of household surveys. All of them include information for labor incomes, but there is wide variety in the coverage of other sources. If the comparison is restricted to the minimum common denominator (labor incomes), the conclusion is that inequality increased in 11 cases and remained unchanged in only 3. In Paraguay there is still a decline, but it is totally driven by the one outlier observation.

What is driving the lack of distributive progress? In Colombia and Ecuador the reason is that inequality among the first 98 centiles increased; the lower concentration among the richest 2% actually counterbalanced this effect, and this is why there is no shift overall. In Bolivia, Chile, Costa Rica, Ecuador, El Salvador, Honduras, Uruguay and Venezuela, the lack of progress is caused by an increase in inequality among the first 9 deciles of the population. In contrast, in Brazil and Peru the increase is driven by the income gains of centiles 90 to 95. In Nicaragua and Panama, the income concentration at centiles 95- 98 is the main force behind the increase, while in Mexico and Paraguay the lack of improvement is driven by income gains among the richest 2% of the population.

In terms of education groups, in Bolivia, Brazil, Costa Rica, El Salvador, Honduras, Paraguay, Peru and Venezuela the lack of progress cannot be attributed to the income gains of the most educated individuals. But in Colombia, Ecuador, Nicaragua, Uruguay, Chile, Panama and Mexico, the dynamics among individuals with 14 years or more of schooling are the main reason why income distribution has not improved in the 1990s.

As for income sources, the main force driving the lack of distributive progress is the deterioration in the distribution of labor incomes.

Does this mean that we should not expect major improvements in distribution in other regions, such as Eastern Europe, where countries have macro conditions similar to those of Latin America in the 1980s? Or that it is likely that the distribution will worsen in East Asia after the recent financial crisis, and that the trends will persist even with more stable macroeconomic conditions? When Latin America is compared internationally it turns out that, with few exceptions, inequality has increased less than in developed countries and Eastern Europe. But still, the evidence presented here leads us to think that the answer to these questions might be yes.

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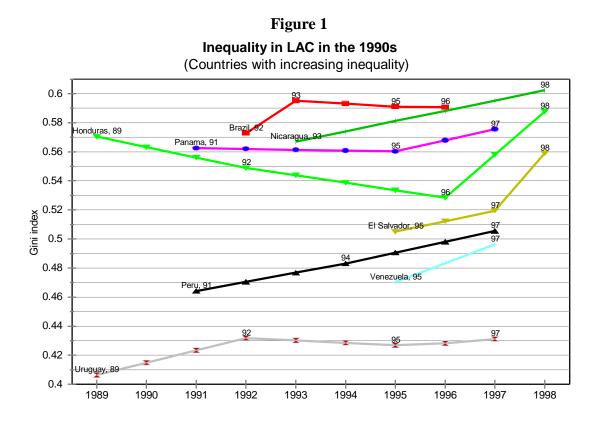


Figure 2

Inequality in LAC in the 1990s (Countries with constant inequality)

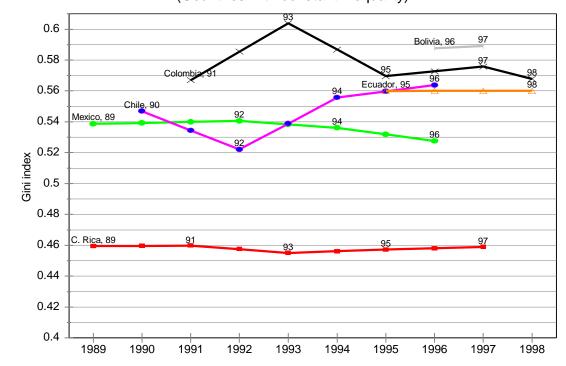
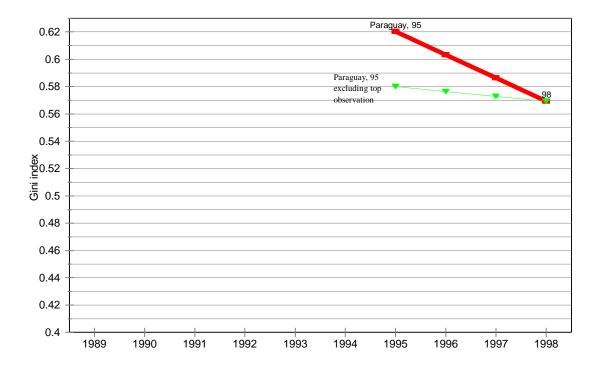
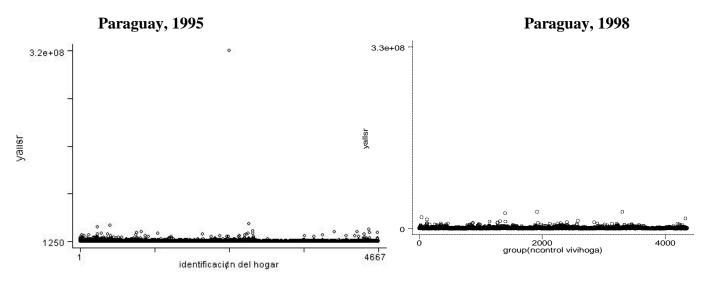


Figure 3 Inequality in Paraguay in the 1990s







Changes in me	ome mequanty	Alound u				
~		Gini	Gini	Change	Yearly Chg	
Country	Years	Year 1	Year 2	(Gini Points)	(Gini Points)	(%)
Bolivia	(1996,1997)	0.5877	0.5890	0.001	0.001	0.230
Brazil	(1992,1996)	0.5728	0.5906	0.018	0.018	3.114
Chile	(1990,1996)	0.5470	0.5638	0.017	0.002	0.439
Colombia	(1991,1998)	0.5670	0.5679	0.001	0.000	0.022
Costa Rica	(1989,1997)	0.4595	0.4589	-0.001	-0.000	-0.015
Ecuador	(1995,1998)	0.5600	0.5601	0.000	0.000	0.009
El Salvador	(1995,1998)	0.5050	0.5589	0.054	0.018	3.559
Honduras	(1989,1998)	0.5704	0.5876	0.017	0.003	0.504
Mexico	(1989,1996)	0.5309	0.5276	-0.003	-0.000	-0.088
Nicaragua	(1993,1998)	0.5669	0.6024	0.035	0.007	1.252
Panama	(1991,1997)	0.5625	0.5755	0.013	0.002	0.385
Paraguay	(1995,1998)	0.6203	0.5692	-0.051	-0.017	-2.746
Peru	(1991,1997)	0.4643	0.5055	0.041	0.007	1.479
Uruguay	(1989,1997)	0.4064	0.4300	0.024	0.004	0.967
Venezuela	(1995,1997)	0.4703	0.4963	0.026	0.013	2.761
Avg. Latin America				0.013	0.004	0.792
Canada	(1991,1994)	0.3501	0.3544	0.004	0.001	0.411
USA	(1991,1994)	0.4157	0.4404	0.025	0.008	1.987
Avg. N. America				0.015	0.005	1.199
0						
Australia	(1989,1994)	0.3809	0.3915	0.011	0.002	0.558
Finland	(1991,1995)	0.2742	0.2918	0.018	0.004	1.606
France	(1989,1994)	0.3395	0.3427	0.003	0.001	0.188
Germany	(1989,1994)	0.3266	0.3464	0.020	0.004	1.213
Italy	(1991,1995)	0.3107	0.3621	0.051	0.013	4.136
Luxembourg	(1991,1994)	0.2694	0.2694	-0.000	-0.000	-0.005
Neatherlands	(1991,1994)	0.3256	0.3366	0.011	0.004	1.119
Norway	(1991,1995)	0.2883	0.2935	0.005	0.001	0.450
Sweden	(1992,1995)	0.2839	0.2885	0.005	0.002	0.538
United Kingdom	(1991,1995)	0.3898	0.3966	0.007	0.002	0.439
Avg. Western Europe	(, ,			0.015	0.004	1.158
Hungary	(1991,1994)	0.2874	0.3320	0.045	0.015	5.178
Poland	(1992,1995)	0.3250	0.3749	0.050	0.017	5.122
Russia	(1992,1995)	0.4404	0.4525	0.012	0.004	0.915
Avg. Eastern Europe	. , ,			0.036	0.012	3.738
5 F						
Thailand	(1992,1996)	0.5589	0.5129	-0.046	-0.011	-2.058
Taiwan	(1991,1995)	0.3049	0.3027	-0.002	-0.001	-0.180
Avg. Eastern Europe	× ,)			-0.024	-0.006	-1.119
		1				

 Table 1

 Changes in Income Inequality Around the World in the 1990s

Source: Authors' calculations from household survey data. The results for Latin American countries were obtained with direct access to household surveys detailed in the Appendix. The results for Thailand were obtained by processing the Socio-Economic Survey. Household surveys for the rest of the countries wree accessed through the Luxembourg Income Study.

Bolivia Bolivia Brazil Brazil Brazil Chile Chile Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	Year 1996 1997 1992 1993 1995 1996 1990 1992 1994 1994 1995 1997 1995 1997 1998 1989 1991	Conventional Gini 0.5877 0.5890 0.5728 0.5952 0.5911 0.5906 0.5470 0.5220 0.5558 0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	Incomes 0.5805 0.5866 0.5809 0.6064 0.5991 0.5965 0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	Gini Urban 0.5177 0.5292 0.5512 0.5755 0.5695 0.5691 0.5161 0.5499 0.5546 0.5043 0.5634 0.5342 0.5423	Index Rural 0.6134 0.6745 0.5380 0.5780 0.5364 0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080 0.5022	Urb/Rur Ratio 3.50 3.04 2.83 2.62 3.00 2.97 1.34 1.84 1.92 2.30 1.93 2.76 0.93	% Urban Population 0.60 0.63 0.78 0.78 0.79 0.79 0.81 0.81 0.83 0.84 0.58 0.58 0.60
Bolivia Brazil Brazil Brazil Chile Chile Chile Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1997 1992 1993 1995 1996 1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	$\begin{array}{c} 0.5877\\ 0.5890\\ 0.5728\\ 0.5952\\ 0.5911\\ 0.5906\\ 0.5470\\ 0.5220\\ 0.5558\\ 0.5638\\ 0.5670\\ 0.6038\\ 0.5697\\ 0.5758\\ 0.5679\\ \end{array}$	0.5805 0.5866 0.5869 0.6064 0.5991 0.5965 0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5177 0.5292 0.5512 0.5755 0.5695 0.5691 0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5634 0.5342	0.6134 0.6745 0.5380 0.5780 0.5364 0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	$\begin{array}{c} 3.50\\ 3.04\\ 2.83\\ 2.62\\ 3.00\\ 2.97\\ 1.34\\ 1.84\\ 1.92\\ 2.30\\ 1.93\\ 2.76\end{array}$	0.60 0.63 0.78 0.79 0.79 0.79 0.81 0.81 0.83 0.84 0.58 0.58
Bolivia Brazil Brazil Brazil Chile Chile Chile Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1997 1992 1993 1995 1996 1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	$\begin{array}{c} 0.5890\\ 0.5728\\ 0.5952\\ 0.5911\\ 0.5906\\ 0.5470\\ 0.5220\\ 0.5558\\ 0.5638\\ 0.5670\\ 0.6038\\ 0.5697\\ 0.5758\\ 0.5679\\ \end{array}$	0.5866 0.5809 0.6064 0.5991 0.5965 0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5292 0.5512 0.5755 0.5695 0.5691 0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5634 0.5342	0.6745 0.5380 0.5780 0.5364 0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	3.04 2.83 2.62 3.00 2.97 1.34 1.84 1.92 2.30 1.93 2.76	$\begin{array}{c} 0.63 \\ 0.78 \\ 0.78 \\ 0.79 \\ 0.79 \\ 0.81 \\ 0.81 \\ 0.83 \\ 0.84 \\ 0.58 \\ 0.58 \end{array}$
Brazil Brazil Brazil Chile Chile Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1992 1993 1995 1996 1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	$\begin{array}{c} 0.5728\\ 0.5952\\ 0.5911\\ 0.5906\\ 0.5470\\ 0.5220\\ 0.5558\\ 0.5638\\ 0.5670\\ 0.6038\\ 0.5697\\ 0.5758\\ 0.5679\\ \end{array}$	$\begin{array}{c} 0.5809\\ 0.6064\\ 0.5991\\ 0.5965\\ 0.5587\\ 0.5428\\ 0.5767\\ 0.5845\\ 0.5694\\ 0.6088\\ 0.5808\\ 0.5783\\ \end{array}$	0.5512 0.5755 0.5695 0.5691 0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5634 0.5342	0.5380 0.5780 0.5364 0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	2.83 2.62 3.00 2.97 1.34 1.84 1.92 2.30 1.93 2.76	0.78 0.79 0.79 0.81 0.81 0.83 0.84 0.58 0.58
Brazil Brazil Brazil Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1993 1995 1996 1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	$\begin{array}{c} 0.5952 \\ 0.5911 \\ 0.5906 \\ 0.5470 \\ 0.5220 \\ 0.5558 \\ 0.5638 \\ 0.5638 \\ 0.5670 \\ 0.6038 \\ 0.5697 \\ 0.5758 \\ 0.5679 \end{array}$	0.6064 0.5991 0.5965 0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5755 0.5695 0.5691 0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5342	0.5780 0.5364 0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	2.62 3.00 2.97 1.34 1.84 1.92 2.30 1.93 2.76	$\begin{array}{c} 0.78 \\ 0.79 \\ 0.79 \\ 0.81 \\ 0.83 \\ 0.84 \\ 0.58 \\ 0.58 \end{array}$
Brazil Brazil Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1995 1996 1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	0.5911 0.5906 0.5470 0.5220 0.5558 0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	0.5991 0.5965 0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5695 0.5691 0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5342	0.5364 0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	3.00 2.97 1.34 1.84 1.92 2.30 1.93 2.76	$\begin{array}{c} 0.79 \\ 0.79 \\ 0.81 \\ 0.83 \\ 0.84 \\ 0.58 \\ 0.58 \end{array}$
Brazil Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1996 1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	0.5906 0.5470 0.5220 0.5558 0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	0.5965 0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5691 0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5342	0.5470 0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	2.97 1.34 1.84 1.92 2.30 1.93 2.76	0.79 0.81 0.83 0.84 0.58 0.58
Chile Chile Chile Colombia Colombia Colombia Colombia Colombia Colombia Colombia	1990 1992 1994 1996 1991 1993 1995 1997 1998 1989	$\begin{array}{c} 0.5470 \\ 0.5220 \\ 0.5558 \\ 0.5638 \\ 0.5670 \\ 0.6038 \\ 0.5697 \\ 0.5758 \\ 0.5679 \end{array}$	0.5587 0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5370 0.5161 0.5499 0.5546 0.5043 0.5634 0.5342	0.5742 0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	1.34 1.84 1.92 2.30 1.93 2.76	0.81 0.81 0.83 0.84 0.58 0.58
Chile Chile Colombia Colombia Colombia Colombia Colombia Costa Rica Costa Rica	1992 1994 1996 1991 1993 1995 1997 1998 1989	0.5220 0.5558 0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5161 0.5499 0.5546 0.5043 0.5634 0.5342	0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	1.84 1.92 2.30 1.93 2.76	0.81 0.83 0.84 0.58 0.58
Chile Chile Colombia Colombia Colombia Colombia Colombia Costa Rica Costa Rica	1992 1994 1996 1991 1993 1995 1997 1998 1989	0.5220 0.5558 0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	0.5428 0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5161 0.5499 0.5546 0.5043 0.5634 0.5342	0.4719 0.5097 0.5006 0.6210 0.5580 0.6080	1.84 1.92 2.30 1.93 2.76	0.81 0.83 0.84 0.58 0.58
Chile Chile Colombia Colombia Colombia Colombia Colombia Costa Rica Costa Rica	1994 1996 1991 1993 1995 1997 1998 1989	0.5558 0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	0.5767 0.5845 0.5694 0.6088 0.5808 0.5783	0.5546 0.5043 0.5634 0.5342	0.5097 0.5006 0.6210 0.5580 0.6080	1.92 2.30 1.93 2.76	0.83 0.84 0.58 0.58
Chile Colombia Colombia Colombia Colombia Colombia Costa Rica Costa Rica	1991 1993 1995 1997 1998 1989	0.5638 0.5670 0.6038 0.5697 0.5758 0.5679	0.5694 0.6088 0.5808 0.5783	0.5546 0.5043 0.5634 0.5342	0.5006 0.6210 0.5580 0.6080	2.30 1.93 2.76	0.84 0.58 0.58
Colombia Colombia Colombia Colombia Costa Rica Costa Rica	1993 1995 1997 1998 1989	0.6038 0.5697 0.5758 0.5679	0.6088 0.5808 0.5783	0.5634 0.5342	0.5580 0.6080	2.76	0.58
Colombia Colombia Colombia Colombia Costa Rica Costa Rica	1993 1995 1997 1998 1989	0.6038 0.5697 0.5758 0.5679	0.6088 0.5808 0.5783	0.5634 0.5342	0.5580 0.6080	2.76	0.58
Colombia Colombia Colombia Costa Rica Costa Rica	1995 1997 1998 1989	0.5697 0.5758 0.5679	0.5808 0.5783	0.5342	0.6080		
Colombia Colombia Costa Rica Costa Rica	1997 1998 1989	0.5758 0.5679	0.5783			0.75	0.00
Colombia Costa Rica Costa Rica	1998 1989	0.5679			U. 1077	3.04	0.61
Costa Rica		_	0.5880	0.5295	0.5660	2.18	0.61
Costa Rica		0.4595	0.4526	0.4431	0.4256	1.77	0.44
	1))1	0.4598	0.4605	0.4332	0.4449	1.58	0.44
Costa Rica	1993	0.4550	0.4509	0.4336	0.4333	1.65	0.44
Costa Rica	1995	0.4571	0.4582	0.4292	0.4374	1.72	0.44
Costa Rica	1997	0.4589	0.4581	0.4367	0.4270	1.71	0.43
Ecuador	1995	0.5600	0.5672	0.5285	0.4890	2.75	0.59
Ecuador	1993	0.5601	0.5627	0.5285	0.4890	2.73	0.59
El Salvador	1995	0.5050	0.5120	0.4639	0.4283	2.62	0.55
El Salvador	1997	0.5195	0.5195	0.4797	0.4454	2.97	0.55
El Salvador	1998	0.5589	0.5432	0.4905	0.5413	2.87	0.58
Honduras	1989	0.5704	0.5715	0.5269	0.4984	2.91	0.33
Honduras	1992	0.5489	0.5489	0.5153	0.4956	2.36	0.42
Honduras	1996	0.5284	0.5302	0.4917	0.4817	2.29	0.44
Honduras	1998	0.5876	0.5947	0.5356	0.6065	2.22	0.44
Mexico	1989	0.5309	0.5408	0.5201	0.4576	2.46	0.62
Mexico	1992	0.5341	0.5671	0.5021	0.4535	2.83	0.59
Mexico	1994	0.5361	0.5669	0.5018	0.4403	2.83	0.58
Mexico	1996	0.5276	0.5800	0.4892	0.4560	3.02	0.59
Nicaragua	1993	0.5669	0.5669	0.5305	0.5441	3.03	0.56
Nicaragua	1998	0.6024	0.6027	0.5779	0.5605	2.79	0.54
Panama	1991	0.5625	0.5355	0.5127	0.5512	2.74	0.53
Panama	1991	0.5602	0.5466	0.5127	0.5312	3.14	0.53
Panama	1995	0.5755	0.5678	0.5287	0.5507	2.75	0.60
Paraguay Paraguay	1995 1998	0.6203 0.5692	0.6267 0.5662	0.5726 0.5103	0.5664 0.5458	3.09 3.48	0.51 0.54
Peru	1991	0.4643	0.4917	0.4294	0.4139	2.81	0.77
Peru	1994	0.4832	0.5003	0.4487	0.4478	2.45	0.70
Peru	1997	0.5055	0.5301	0.4484	0.4330	3.15	0.65
Uruguay	1989	0.4064	0.4461	0.4064			
Uruguay	1992	0.4319	0.4562	0.4319			
Uruguay	1995	0.4209	0.4683	0.4209			
Uruguay	1997	0.4300	0.4792	0.4300			
Venezuela	1995	0.4703	0.4664	0.4634	0.4346	1.71	0.82
Venezuela	1997	0.4963	0.4951	0.4963			

 Table 2

 Inequality with Differences in Covera

Source: Authors'calculations from household survey data.

Та	ble	3

of scale equivalence in consump. (e) of scale Gin with all obs. $\underline{mputation}$ $\underline{a=1}$ $\underline{a=1}$ $\underline{a=1}$ Tests* Bolivia 1996 0.5669 0.5760 8.0 0.5987 3.433 0.688 Brazil 1992 0.5655 0.5522 3.9 0.5809 2.640 0.653 Brazil 1995 0.5840 0.5700 3.3 0.6015 1.342 0.682 Chile 1990 0.5423 0.5379 0.4 0.5470 0.998 0.608 Chile 1990 0.5423 0.5379 0.6 0.5560 0.890 0.977 Chile 1994 0.5425 0.5460 4.6 0.5654 1.241 0.877 Colombia 1991 0.5425 0.5460 1.5 0.5777 1.556 0.884 Colombia 1997 0.5479 0.540 1.5 0.5777 1.556 0.884 Colombia 1997	Country	Year	Robustnes Economies	Adult		d Zero values	Entropy in	nequality	Dominance
Bolivia 1996 0.5682 0.5670 8.0 0.5987 3.433 0.688 Bolivia 1997 0.5685 0.5522 3.9 0.5809 2.640 0.653 Brazil 1993 0.5882 0.5759 4.0 0.6073 2.175 0.726 Brazil 1995 0.5840 0.5700 3.3 0.6005 1.342 0.688 - Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 - Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 - Chile 1992 0.519 0.5043 5.2 0.6371 1.045 0.655 - Colombia 1991 0.525 0.5460 4.6 0.5654 1.241 0.837 Colombia 1991 0.5439 0.5540 1.5 0.5771 1.556 0.844 Colombia 1995 0.54499 0.5540 1.5	2		of scale	equivalence	-				
Bolivia 1997 0.5699 0.5686 11.2 0.6242 3.655 0.699 Brazil 1992 0.5655 0.5522 3.9 0.5003 2.175 0.726 Brazil 1995 0.5840 0.5759 4.0 0.6005 1.342 0.688 Chile 1996 0.5423 0.5329 0.4 0.5470 0.998 0.668 Chile 1992 0.5544 0.5377 0.6 0.5560 0.800 0.597 Colombia 1991 0.5425 0.66 0.5560 0.800 0.597 Colombia 1997 0.5449 0.5535 5.6 0.832 1.05 0.6033 1.342 0.868 Colombia 1997 0.5449 0.5535 5.6 0.832 0.726 0.384 Colombia 1997 0.5439 0.542 2.3 0.5774 2.638 0.721 1.991 Costa Rica			in consump.	scale	all obs.	imputation	a=-1	a=+1	Tests*
Brazil Brazil 1992 1995 0.5852 0.5882 0.5522 0.5759 3.0 4.0 4.0 0.6073 0.6005 2.145 1.363 0.692 0.692 Brazil 1995 0.5840 0.5700 3.3 0.6005 1.342 0.688 Chile 1990 0.5423 0.5329 0.44 0.5470 0.998 0.6608 Chile 1992 0.5169 0.5397 0.6 0.5560 0.890 0.579 Chile 1994 0.5540 0.5397 0.6 0.5654 1.241 0.837 Colombia 1993 0.5791 0.5844 1.0 0.6033 1.344 0.989 Colombia 1995 0.5479 0.5540 1.5 0.5757 1.556 0.884 Colombia 1997 0.5479 0.542 2.3 0.5774 2.638 0.721 1991 Cotar Rica 1993 0.437 0.5422 2.3 0.5770 1.940 0.344 p.95 <td< td=""><td>Bolivia</td><td>1996</td><td>0.5682</td><td>0.5670</td><td>8.0</td><td>0.5987</td><td>3.433</td><td>0.688</td><td></td></td<>	Bolivia	1996	0.5682	0.5670	8.0	0.5987	3.433	0.688	
Brazil 1993 0.5882 0.5759 4.0 0.6073 2.175 0.726 Brazil 1995 0.5840 0.5700 3.3 0.6015 1.363 0.602 Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 Chile 1992 0.5169 0.5043 5.2 0.6310 0.810 0.559 Chile 1994 0.5578 0.5358 0.2 0.5654 1.241 0.837 Colombia 1991 0.5425 0.5460 4.6 0.5654 1.241 0.837 Colombia 1993 0.5791 0.5854 1.0 0.6033 1.340 0.989 Colombia 1995 0.5439 0.5425 2.3 0.5771 1.556 0.844 Colombia 1997 0.5439 0.452 2.3 0.5771 1.566 0.384 Colombia 1999 0.4332 0.4332 0.452 0.560 1.722 0.164	Bolivia	1997	0.5699	0.5686	11.2	0.6242	3.655	0.699	
Brazil 1993 0.5882 0.5759 4.0 0.6073 2.175 0.726 Brazil 1995 0.5840 0.5700 3.3 0.6015 1.363 0.602 Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 Chile 1992 0.5169 0.5043 5.2 0.6310 0.810 0.559 Chile 1994 0.5578 0.5358 0.2 0.5654 1.241 0.837 Colombia 1991 0.5425 0.5460 4.6 0.5654 1.241 0.837 Colombia 1993 0.5791 0.5854 1.0 0.6033 1.340 0.989 Colombia 1995 0.5439 0.5425 2.3 0.5771 1.556 0.844 Colombia 1997 0.5439 0.452 2.3 0.5771 1.566 0.384 Colombia 1999 0.4332 0.4332 0.452 0.560 1.722 0.164									
Brazil 1995 0.5849 0.5700 3.3 0.6005 1.363 0.692 Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 Chile 1994 0.5504 0.5397 0.6 0.5307 1.045 0.657 Chile 1994 0.5578 0.5338 0.2 0.6637 1.045 0.657 Colombia 1997 0.5449 0.5535 5.6 0.5834 1.058 0.6033 1.334 0.899 Colombia 1997 0.5449 0.5535 5.6 0.5826 1.058 0.686 0.686 Colombia 1997 0.5439 0.5425 2.3 0.5777 1.556 0.384 Costa Rica 1991 0.4352 0.4361 2.58 0.4626 0.745 0.376 Costa Rica 1993 0.479 0.4382 1.68 0.4646 0.713 0.380	Brazil			0.5522					
Brazil 1996 0.5839 0.5712 4.3 0.6005 1.342 0.685 Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 Chile 1992 0.5169 0.5377 0.63 0.5567 0.6380 0.5597 Chile 1994 0.5540 0.5377 0.66 0.5637 1.045 0.6566 Colombia 1993 0.5791 0.5854 1.0 0.033 1.394 0.989 Colombia 0.999 0.5466 0.5757 1.556 0.8864 0.712 1.991 Colombia 1997 0.5479 0.5402 1.3 0.4771 2.638 0.721 1991 Costa Rica 1991 0.4323 0.4322 0.4350 0.4461 0.713 0.380 Costa Rica 1993 0.4479 0.4382 16.8 0.4616 0.713 0.330 - Ecuador 1995 0.5362	Brazil		0.5882	0.5759	4.0	0.6073	2.175		
Chile 1990 0.5423 0.5329 0.4 0.5470 0.998 0.608 Chile 1994 0.5514 0.5397 0.6 0.5637 1.045 0.665 Colombia 1996 0.5578 0.5338 0.2 0.5637 1.045 0.665 Colombia 1997 0.5425 0.5460 4.6 0.5654 1.241 0.837 Colombia 1997 0.5425 0.5400 1.5 0.8526 1.058 0.866 Colombia 1997 0.5427 0.5430 1.5 0.8542 0.766 0.384 Colombia 1997 0.4519 0.4391 1.3.6 0.4529 0.766 0.384 Costa Rica 1993 0.4719 0.4332 0.456 1.8.6 0.4667 0.713 0.380 Costa Rica 1997 0.4362 0.705 0.494 1995 Costa Rica 1997 0.4367 0.4983 16.5 0.5817 0.705 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
Chile 1992 0.5169 0.5043 5.2 0.61 0.5360 0.890 0.559 Chile 1994 0.5574 0.5358 0.2 0.6637 1.045 0.656 Colombia 1993 0.5791 0.5854 1.0 0.6633 1.394 0.989 Colombia 1993 0.5791 0.5854 1.0 0.66033 1.394 0.989 Colombia 1997 0.5425 0.5400 1.5 0.5854 0.66033 1.394 0.989 Colombia 1997 0.5477 0.5540 0.5377 1.556 0.884 Colombia 1997 0.4519 0.4391 1.3.6 0.4522 0.706 0.384 Costa Rica 1993 0.4479 0.4332 0.4352 1.68 0.4617 0.728 0.337 Costa Rica 1995 0.4499 0.4366 1.8.6 0.4617 0.738 0.376 Costa Rica 1997 0.4877 0.4933 <	Brazil	1996	0.5839	0.5712	4.3	0.6005	1.342	0.685	
Chile 1992 0.5169 0.5043 5.2 0.61 0.5360 0.890 0.559 Chile 1994 0.5574 0.5358 0.2 0.6637 1.045 0.656 Colombia 1993 0.5791 0.5854 1.0 0.6633 1.394 0.989 Colombia 1993 0.5791 0.5854 1.0 0.66033 1.394 0.989 Colombia 1997 0.5425 0.5400 1.5 0.5854 0.66033 1.394 0.989 Colombia 1997 0.5477 0.5540 0.5377 1.556 0.884 Colombia 1997 0.4519 0.4391 1.3.6 0.4522 0.706 0.384 Costa Rica 1993 0.4479 0.4332 0.4352 1.68 0.4617 0.728 0.337 Costa Rica 1995 0.4499 0.4366 1.8.6 0.4617 0.738 0.376 Costa Rica 1997 0.4877 0.4933 <	C1 '1	1000	0 5 100	0.5220	0.4	0.5450	0.000	0.000	
Chile 1994 0.5504 0.5397 0.6 0.5560 0.890 0.997 Colombia 1991 0.5425 0.5460 4.6 0.5654 1.241 0.837 Colombia 1993 0.57191 0.5844 1.0 0.6033 1.394 0.989 Colombia 1995 0.5489 0.5535 5.6 0.5826 1.058 0.6866 Colombia 1997 0.5479 0.5542 2.3 0.05771 2.568 0.721 1991 Costa Rica 1993 0.4519 0.4381 2.47 0.4669 0.746 0.389 Costa Rica 1995 0.4499 0.4366 18.6 0.4617 0.628 0.381 Ecuador 1995 0.5269 0.5401 1.9 0.5600 1.792 0.164 1995 El Salvador 1997 0.4867 0.4983 0.57 0.5517 0.705 0.523 1995 Honduras 1998 0.540									
Chile 1996 0.5578 0.5388 0.2 0.5637 1.045 0.656 Colombia 1991 0.5425 0.5460 4.6 0.5654 1.241 0.837 Colombia 1995 0.5479 0.5530 1.5 0.5757 1.556 0.884 Colombia 1997 0.5479 0.5540 1.5 0.5757 1.556 0.884 Colombia 1999 0.4519 0.4391 1.3.6 0.4599 0.766 0.384 Costa Rica 1993 0.4479 0.4338 24.7 0.4662 0.776 0.389 Costa Rica 1995 0.4499 0.4366 18.6 0.4617 0.628 0.381 Ecuador 1995 0.5269 0.5407 4.0 0.5750 1.940 0.494 1995 0.5269 0.5497 4.0 0.5587 2.540 0.523 1.995 El Salvador 1995 0.5407 0.5983 16.5 0.5811<									
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Mexico1989 1992 0.5280 0.5310 0.5016 0.5116 0.1 0.0 0.5309 0.5341 0.768 0.768 0.573 0.573 Mexico1994 1996 0.5258 0.5300 0.5088 0.4916 0.0 0.5361 0.5300 0.756 0.750 0.573 0.590 $$ Nicaragua1993 1998 0.5385 0.5742 0.5684 12.4 0.6503 0.6537 2.567 2.286 0.683 0.643 2.567 Panama Panama1991 1995 0.5547 0.5523 0.5464 0.5543 2.6 0.5882 0.98 0.590 $$ Paraguay Paraguay1995 1998 0.5876 0.5450 0.5936 1.9 1.2 0.6200 0.6135 1.634 3.687 1.015 0.978 Peru Peru1991 1994 0.4568 0.4747 0.4540 0.0 0.4643 0.606 0.408 0.978 Peru Peru1991 1997 0.4568 0.4791 0.1 0.1 0.5055 0.799 0.799 0.500 1991 Uruguay Uruguay 1995 0.3979 0.3843 0.0 0.4209 0.444 0.267 0.4444 0.267 0.285 1989 Venezuela1995 0.4613 0.4425 11.6 0.4676 1.355 0.404 0.285 1989	Honduras	1996	0.5203	0.5056	9.1	0.5482	0.831	0.565	
Mexico1992 0.5310 0.5116 0.0 0.5341 0.768 0.573 Mexico1994 0.5258 0.5088 0.0 0.5361 0.756 0.573 Mexico1996 0.5300 0.4916 0.0 0.5300 0.750 0.590 $$ Nicaragua1993 0.5385 0.5464 22.6 0.6537 2.286 0.643 Nicaragua1998 0.5742 0.5684 14.4 0.6503 2.567 0.683 1993Panama1991 0.5547 0.5438 6.5 0.5882 2.098 0.591 Panama1995 0.5523 0.5387 6.3 0.5857 1.968 0.590 Panama1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 $$ Paraguay1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Peru1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay1989 0.3979 0.3843 0.0 0.4464 0.375 0.251 Uruguay1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	Honduras	1998	0.5825	0.5698	7.4	0.5932	2.539	0.669	1992
Mexico1992 0.5310 0.5116 0.0 0.5341 0.768 0.573 Mexico1994 0.5258 0.5088 0.0 0.5361 0.756 0.573 Mexico1996 0.5300 0.4916 0.0 0.5300 0.750 0.590 $$ Nicaragua1993 0.5385 0.5464 22.6 0.6537 2.286 0.643 Nicaragua1998 0.5742 0.5684 14.4 0.6503 2.567 0.683 1993Panama1991 0.5547 0.5438 6.5 0.5882 2.098 0.591 Panama1995 0.5523 0.5387 6.3 0.5857 1.968 0.590 Panama1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 $$ Paraguay1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Peru1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay1989 0.3979 0.3843 0.0 0.4464 0.375 0.251 Uruguay1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay1995 0.4613 0.4425 11.6 0.4676 1.355 0.404									
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Mexico 1996 0.5300 0.4916 0.0 0.5300 0.750 0.590 Nicaragua 1993 0.5385 0.5464 22.6 0.6537 2.286 0.643 1993 Panama 1998 0.5742 0.5684 14.4 0.6503 2.567 0.683 1993 Panama 1995 0.5547 0.5438 6.5 0.5882 2.098 0.591 Panama 1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 Paraguay 1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Peru 1998 0.5450 0.5482 7.2 0.6135 3.687 0.978 1998 Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1992	Mexico	1992	0.5310	0.5116	0.0	0.5341	0.768	0.573	
Nicaragua1993 1998 0.5385 0.5742 0.5464 0.5684 22.6 14.4 0.6503 2.286 2.567 0.643 0.683 1993Panama1991 1995 0.5523 0.5387 0.5587 6.5 0.5882 2.098 0.5857 0.591 1.968 0.591 0.590 1.820 0.640 $$ Paraguay Paraguay Paraguay Peru1995 1998 0.5876 0.5450 0.5936 0.5482 1.9 7.2 0.6200 0.6135 1.634 3.687 1.015 0.978 1998 1998 Peru Peru1991 1994 0.4568 0.4747 0.4983 0.4411 0.1 0.0 0.4832 0.1 0.606 0.4832 0.712 0.5055 0.440 0.979 Uruguay Uruguay 19971989 0.3979 0.3843 0.4791 0.0 0.0 0.4664 0.4319 0.4777 $0.2820.2810.25110.49830.9790.49850.9404Venezuela19950.46130.442511.60.00.46761.3550.404$	Mexico	1994	0.5258	0.5088	0.0	0.5361	0.756	0.573	
Nicaragua 1998 0.5742 0.5684 14.4 0.6503 2.567 0.683 1993 Panama 1991 0.5547 0.5438 6.5 0.5882 2.098 0.591 Panama 1995 0.5523 0.5387 6.3 0.5857 1.968 0.590 Panama 1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 Paraguay 1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Paraguay 1998 0.5450 0.5482 7.2 0.6135 3.687 0.978 Peru 1991 0.4568 0.4411 0.0 0.4643 0.606 0.408 Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116	Mexico	1996	0.5300	0.4916	0.0	0.5300	0.750	0.590	
Nicaragua 1998 0.5742 0.5684 14.4 0.6503 2.567 0.683 1993 Panama 1991 0.5547 0.5438 6.5 0.5882 2.098 0.591 Panama 1995 0.5523 0.5387 6.3 0.5857 1.968 0.590 Panama 1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 Paraguay 1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Paraguay 1998 0.5450 0.5482 7.2 0.6135 3.687 0.978 Peru 1991 0.4568 0.4411 0.0 0.4643 0.606 0.408 Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116									
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Panama 1995 0.5523 0.5387 6.3 0.5857 1.968 0.590 Panama 1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 Paraguay 1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Paraguay 1998 0.5450 0.5482 7.2 0.6135 3.687 0.978 1998 Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1989 0.3979 0.3843 0.0 0.4064 0.375 0.251 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010<	Nicaragua	1998	0.5742	0.5684	14.4	0.6503	2.567	0.683	1993
Panama 1995 0.5523 0.5387 6.3 0.5857 1.968 0.590 Panama 1997 0.5686 0.5543 7.1 0.5832 1.820 0.640 Paraguay 1995 0.5876 0.5936 1.9 0.6200 1.634 1.015 1998 Paraguay 1998 0.5450 0.5482 7.2 0.6135 3.687 0.978 1998 Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1989 0.3979 0.3843 0.0 0.4064 0.375 0.251 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010<	_								
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Paraguay 1998 0.5450 0.5482 7.2 0.6135 3.687 0.978 Peru 1991 0.4568 0.4411 0.0 0.4643 0.606 0.408 Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1989 0.3979 0.3843 0.0 0.4064 0.375 0.251 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989	P.		0.000			0			
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Peru 1994 0.4747 0.4540 0.0 0.4832 0.712 0.452 Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1989 0.3979 0.3843 0.0 0.4064 0.375 0.251 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989 Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	Dema	1001	0 45 60	0 4411	0.0	0.4642	0.000	0.400	
Peru 1997 0.4983 0.4791 0.1 0.5055 0.799 0.500 1991 Uruguay 1989 0.3979 0.3843 0.0 0.4064 0.375 0.251 Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989 Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404									
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Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989 Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	reru	1997	0.4983	0.4/91	0.1	0.5055	0.799	0.500	1991
Uruguay 1992 0.4227 0.4085 0.0 0.4319 0.477 0.282 Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989 Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	Ummer	1000	0.2070	0 2012	0.0	0.4064	0 275	0.251	
Uruguay 1995 0.4116 0.3966 0.0 0.4209 0.444 0.267 Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989 Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	<i>.</i>								
Uruguay 1997 0.3906 0.4010 0.0 0.4300 0.454 0.285 1989 Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	0,								
Venezuela 1995 0.4613 0.4425 11.6 0.4676 1.355 0.404	0,								1000
	Oruguay	1997	0.3906	0.4010	0.0	0.4300	0.454	0.285	1989
	Vanar	1005	0.4612	0.4425	11.6	0.4676	1 255	0.404	
Venezuela 1997 0.4873 0.4722 23.3 0.5312 1.470 0.468 1995	Venezuela Venezuela								

Source: Authors'calculations from household survey data. *Year which Lorenz dominates (is more equal than) the distribution of current year.

Table	4
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Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1998 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5480 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5236 Mexico 1989 0.5236 Mexico 1994 0.5295 Mexico 1993 0.5571 Nicaragua 1993 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay		Excluding		
Bolivia 1996 0.5737 Bolivia 1997 0.5737 Bolivia 1997 0.5786 Brazil 1993 0.5921 Brazil 1995 0.5901 Brazil 1996 0.5891 Chile 1990 0.5429 Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1991 0.5498 Colombia 1991 0.5498 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1995 0.4516 Costa Rica 1995 0.4517 Costa Rica 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador	Richest	Richest	Richest	Richest
Bolivia 1997 0.5786 Brazil 1992 0.5694 Brazil 1993 0.5921 Brazil 1995 0.5901 Brazil 1996 0.5429 Chile 1992 0.5199 Chile 1994 0.5383 Chile 1994 0.5383 Chile 1994 0.5429 Colombia 1991 0.5449 Colombia 1991 0.5489 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1993 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.5078 El Salvador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras	1%	2%	5%	10%
Brazil 1992 0.5694 Brazil 1993 0.5921 Brazil 1995 0.5901 Brazil 1996 0.5891 Chile 1990 0.5429 Chile 1994 0.5383 Chile 1994 0.5383 Chile 1994 0.5429 Colombia 1991 0.5449 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.4516 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1995 0.5379 Ecuador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5236	0.5384	0.5193	0.4837	0.4466
Brazil 1993 0.5921 Brazil 1995 0.5901 Brazil 1996 0.5891 Chile 1992 0.5199 Chile 1994 0.5383 Chile 1994 0.5383 Chile 1991 0.5429 Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1991 0.5498 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4476 Costa Rica 1995 0.4517 Costa Rica 1995 0.5379 Ecuador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5435 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5236	0.5370	0.5158	0.4791	0.4438
Brazil 1995 0.5901 Brazil 1996 0.5891 Chile 1992 0.5199 Chile 1994 0.5383 Chile 1994 0.5383 Chile 1991 0.5429 Coline 1994 0.5383 Chile 1996 0.5575 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1995 0.4516 Costa Rica 1997 0.4455 Ecuador 1995 0.4476 Costa Rica 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5435 Honduras 1998 0.5435 Honduras 1998 0.5175 Honduras 1998 0.5236 Mexico 1998 0.5236	0.5262	0.5049	0.4634	0.4216
Brazil 1996 0.5891 Chile 1990 0.5429 Chile 1992 0.5199 Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1991 0.5498 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.5078 Ecuador 1995 0.4493 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 Honduras 1998 0.5435 Honduras 1998 0.5435 Honduras 1998 0.5236 Mexico 1989 0.5236 Mexico 1994 0.5255 </td <td>0.5424</td> <td>0.5188</td> <td>0.4736</td> <td>0.4276</td>	0.5424	0.5188	0.4736	0.4276
Chile 1990 0.5429 Chile 1992 0.5199 Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1991 0.5498 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1995 0.4516 Costa Rica 1995 0.4476 Costa Rica 1995 0.4476 Costa Rica 1995 0.4517 Costa Rica 1995 0.4476 Costa Rica 1997 0.5078 Ecuador 1995 0.4493 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5480 Honduras 1998 0.5236 Mexico	0.5447	0.5222	0.4781	0.4317
Chile 1992 0.5199 Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1995 0.4516 Costa Rica 1997 0.4553 Ecuador 1995 0.4476 Costa Rica 1997 0.5471 Costa Rica 1997 0.5480 Ecuador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1998 0.5236 Mexico 1989 0.5226 Mexico	0.5460	0.5240	0.4814	0.4375
Chile 1992 0.5199 Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1995 0.4516 Costa Rica 1997 0.4553 Ecuador 1995 0.4476 Costa Rica 1997 0.5471 Costa Rica 1997 0.5480 Ecuador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1998 0.5236 Mexico 1989 0.5226 Mexico	0.4958	0.4738	0.4290	0.3793
Chile 1994 0.5383 Chile 1996 0.5575 Colombia 1993 0.5498 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4407 Costa Rica 1991 0.4476 Costa Rica 1995 0.4516 Costa Rica 1997 0.4553 Ecuador 1995 0.4476 Costa Rica 1997 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 Honduras 1998 0.5351 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5236 Mexico 1989 0.5236 Mexico	0.4719	0.4471	0.4010	0.3581
Chile 1996 0.5575 Colombia 1991 0.5498 Colombia 1993 0.5889 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5512 Colombia 1997 0.5544 Costa Rica 1991 0.4497 Costa Rica 1995 0.4516 Costa Rica 1995 0.4573 Ecuador 1995 0.4571 Costa Rica 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1998 0.5480 Honduras 1998 0.5236 Mexico 1989 0.5236 Mexico 1998 0.5236 Mexico 1993 0.5521 Nicaragua 1993 0.5555 Panama	0.4906	0.4675	0.4250	0.3802
Colombia 1993 0.5889 Colombia 1995 0.5664 Colombia 1997 0.5512 Colombia 1998 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.44553 Ecuador 1995 0.5379 Ecuador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1998 0.5175 Honduras 1996 0.5175 Honduras 1998 0.5236 Mexico 1989 0.5226 Mexico 1998 0.5226 Nicaragua 1993 0.5579 Panama 1997 0.5556 Panama	0.5110	0.4839	0.4347	0.3871
Colombia 1993 0.5889 Colombia 1995 0.5664 Colombia 1997 0.5512 Colombia 1998 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1998 0.5175 Honduras 1996 0.5175 Honduras 1998 0.5236 Mexico 1989 0.5226 Mexico 1998 0.5226 Micaragua 1993 0.5579 Panama 1997 0.5556 Panama 1	0.4630	0.4417	0.4037	0.3671
Colombia 1995 0.5664 Colombia 1997 0.5512 Colombia 1998 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5435 Honduras 1996 0.5175 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1998 0.5236 Mexico 1994 0.5226 Nicaragua 1993 0.5579 Panama 1991 0.5555 Panama 1997 0.5698 Paraguay	0.4874	0.4654	0.4057	0.3880
Colombia 1997 0.5512 Colombia 1998 0.5544 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1993 0.4477 Costa Rica 1993 0.4476 Costa Rica 1997 0.4553 Ecuador 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1997 0.5078 Honduras 1998 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1994 0.5226 Mexico 1998 0.5571 Mexico 1998 0.5571 Mexico 1994 0.5555 Panama 1997 0.5556 Panama	0.4874	0.4848	0.4203	0.3966
Colombia 1998 0.5544 Costa Rica 1991 0.4497 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5480 Honduras 1998 0.5435 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5236 Mexico 1989 0.5236 Mexico 1994 0.5226 Mexico 1993 0.5571 Mexico 1993 0.5575 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay <td>0.5060</td> <td>0.4851</td> <td>0.4446</td> <td>0.4034</td>	0.5060	0.4851	0.4446	0.4034
Costa Rica 1989 0.4516 Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1998 0.5480 Honduras 1998 0.5435 Honduras 1998 0.5480 Honduras 1998 0.5236 Mexico 1989 0.5236 Mexico 1998 0.5236 Mexico 1994 0.5295 Mexico 1993 0.5521 Nicaragua 1993 0.5579 Panama 1991 0.5566 Paraguay 1995 0.5736 Paraguay 1995 0.5736 Paraguay 1994 0.4695 Peru 1991 0.4479 Peru 1991 0.4479 <td>0.5094</td> <td>0.4850</td> <td>0.4440</td> <td>0.4034</td>	0.5094	0.4850	0.4440	0.4034
Costa Rica 1991 0.4497 Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5480 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1992 0.5236 Mexico 1989 0.5236 Mexico 1994 0.5295 Mexico 1993 0.5521 Nicaragua 1993 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1998 0.5579 Peru	0.3094	0.4630	0.4377	0.3920
Costa Rica 1993 0.4476 Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1995 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5480 Honduras 1998 0.5480 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1996 0.5175 Honduras 1998 0.5236 Mexico 1989 0.5236 Mexico 1994 0.5295 Mexico 1994 0.5295 Mexico 1993 0.5571 Nicaragua 1993 0.5555 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1994 0.4695 Peru 1994 0.4695 Peru <td< td=""><td>0.4287</td><td>0.4140</td><td>0.3866</td><td>0.3568</td></td<>	0.4287	0.4140	0.3866	0.3568
Costa Rica 1995 0.4517 Costa Rica 1997 0.4553 Ecuador 1997 0.5379 Ecuador 1998 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5236 Mexico 1989 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5235 Mexico 1994 0.5226 Nicaragua 1993 0.5579 Panama 1997 0.5588 Paraguay 1995 0.5736 Paraguay 1994 0.4695 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay <td< td=""><td>0.4263</td><td>0.4126</td><td>0.3843</td><td>0.3538</td></td<>	0.4263	0.4126	0.3843	0.3538
Costa Rica 1997 0.4553 Ecuador 1995 0.5379 Ecuador 1998 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5226 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1994 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay	0.4251	0.4105	0.3802	0.3493
Ecuador 1995 0.5379 Ecuador 1998 0.5471 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1992 0.5517 Honduras 1998 0.5236 Mexico 1994 0.5226 Nicaragua 1993 0.5521 Nicaragua 1993 0.5579 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1994 0.4479 Peru 1994 0.4695 Peru	0.4241	0.4079	0.3789	0.3488
Ecuador 1998 0.5471 El Salvador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1998 0.5480 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1998 0.5236 Mexico 1992 0.5226 Mexico 1994 0.5226 Mexico 1994 0.5226 Nicaragua 1993 0.5521 Nicaragua 1997 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1994 0.4695 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4273	0.4119	0.3822	0.3510
Ecuador 1998 0.5471 El Salvador 1995 0.4938 El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1996 0.5175 Honduras 1998 0.5236 Mexico 1998 0.5226 Mexico 1994 0.5226 Mexico 1994 0.5226 Nicaragua 1993 0.5521 Nicaragua 1997 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5555 Panama 1997 0.5698 Peru 1994 0.4479 Peru 1994 0.4479 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5015	0.4803	0.4387	0.3983
El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1994 0.5295 Mexico 1996 0.5226 Mexico 1994 0.5295 Mexico 1994 0.5295 Mexico 1996 0.5521 Nicaragua 1998 0.5556 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1997 0.4695 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5130	0.4917	0.4510	0.4124
El Salvador 1997 0.5078 El Salvador 1998 0.5480 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1994 0.5295 Mexico 1996 0.5226 Mexico 1994 0.5295 Mexico 1994 0.5225 Mexico 1996 0.5526 Nicaragua 1993 0.5521 Nicaragua 1998 0.5556 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1995 0.5736 Paraguay 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.3934 Uruguay 1995 0.4189	0 4582	0 4364	0 2008	0 2655
El Salvador 1998 0.5480 Honduras 1992 0.5635 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1998 0.5236 Mexico 1994 0.5295 Mexico 1994 0.5295 Mexico 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1995 0.5736 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4582 0.4718	0.4364 0.4524	0.3998 0.4180	0.3655
Honduras 1989 0.5635 Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5295 Mexico 1994 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1995 0.5736 Paraguay 1995 0.5736 Paraguay 1991 0.4479 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4263	0.4718	0.4324	0.4180	0.3830
Honduras 1992 0.5435 Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1998 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5295 Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5180	0.5017	0.4091	0.438.
Honduras 1996 0.5175 Honduras 1998 0.5818 Mexico 1992 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5295 Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5227	0.4993	0.4544	0.4092
Honduras 1998 0.5818 Mexico 1989 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5295 Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1994 0.4479 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5024	0.4809	0.4432	0.4062
Mexico 1989 0.5236 Mexico 1992 0.5200 Mexico 1994 0.5295 Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1994 0.4479 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4760	0.4557	0.4218	0.3868
Mexico 1992 0.5200 Mexico 1994 0.5295 Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5435	0.5235	0.4893	0.4566
Mexico 1994 0.5295 Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4735	0.4494	0.4078	0.3671
Mexico 1996 0.5286 Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4892	0.4664	0.4241	0.3800
Nicaragua 1993 0.5521 Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4887	0.4646	0.4189	0.3740
Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1997 0.5559 Paraguay 1998 0.5559 Peraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.42463	0.4600	0.4200	0.3900	0.3400
Nicaragua 1998 0.5579 Panama 1991 0.5556 Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1997 0.5559 Paraguay 1998 0.5559 Peraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.42463	0.5147	0.4938	0.4551	0.4229
Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5308	0.5059	0.4634	0.4254
Panama 1995 0.5555 Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5275	0.5098	0.4785	0.4454
Panama 1997 0.5698 Paraguay 1995 0.5736 Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5275	0.5046	0.4667	0.4302
Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5315	0.5112	0.4744	0.4389
Paraguay 1998 0.5559 Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5361	0.5119	0.4702	0.4288
Peru 1991 0.4479 Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1997 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.5379	0.5244	0.4702	0.4286
Peru 1994 0.4695 Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.35/9	0.3244	0.4923	0.4307
Peru 1997 0.4938 Uruguay 1989 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4248	0.4095	0.3800	0.3509
Uruguay 1989 0.3934 Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4385	0.4215	0.3918	0.3620
Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4589	0.4375	0.4003	0.3684
Uruguay 1992 0.4263 Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.3696	0.3570	0.3316	0.3046
Uruguay 1995 0.4189 Uruguay 1997 0.4246	0.4010	0.3859	0.3564	0.3270
Uruguay 1997 0.4246	0.3942	0.3810	0.3540	0.3250
Vanazuela 1005 0.4672	0.3989	0.3846	0.3561	0.3252
VEHEZUEIA 1991 1140/3	0.4317	0.4150	0.3841	0.3529
Venezuela 1995 0.4897	0.4560	0.4386	0.4051	0.3706

Source: Authors' calculations from household survey data. 5/

	Inequality	y by Excludi	ng Educatio	on Groups	
Country	Year		Excl	uding	
2		Years of	Years of	Years of	Years of
		educ>19	educ>17	educ>14	educ>11
Bolivia	1996	0.5882	0.5882	0.5682	0.5599
Bolivia	1997	0.5913	0.5913	0.5677	0.5620
Donvia	1///	0.5715	0.5715	0.5077	0.5020
Brazil	1992	0.5702	0.5690	0.5452	0.5377
Brazil	1993	0.5930	0.5912	0.5648	0.5565
Brazil	1995	0.5887	0.5868	0.5562	0.5477
Brazil	1996	0.5884	0.5860	0.5576	0.5506
CT 11	1000				
Chile	1990	0.5472	0.5415	0.5266	0.5268
Chile	1992	0.5220	0.5099	0.4872	0.4852
Chile	1994	0.5566	0.5492	0.5270	0.5075
Chile	1996	0.5634	0.5554	0.5349	0.5296
Colombia	1991	0.5708	0.5699	0.5497	0.5468
Colombia	1993	0.6069	0.6037	0.5717	0.5673
Colombia	1995	0.5714	0.5703	0.5564	0.5562
Colombia	1997	0.5793	0.5760	0.5469	0.5426
Colombia	1998	0.5707	0.5633	0.5317	0.5235
Costa Rica	1989	0.4590	0.4573	0.4445	0.4383
Costa Rica	1991	0.4614	0.4571	0.4464	0.4379
Costa Rica	1993	0.4542	0.4507	0.4372	0.4318
Costa Rica	1995	0.4569	0.4542	0.4370	0.4286
Costa Rica	1997	0.4590	0.4567	0.4381	0.4289
Costa Mea	1))/	0.4570	0.4507	0.4501	0.4207
Ecuador	1995	0.5629	0.5560	0.5431	0.5316
Ecuador	1998	0.5606	0.5492	0.5367	0.5199
Leudor	1770	0.5000	0.5472	0.5507	0.5177
El Salvador	1995	0.5044	0.5039	0.4828	0.4631
El Salvador	1997	0.5202	0.5191	0.4952	0.4841
El Salvador	1998	0.5578	0.5572	0.5462	0.5367
Honduras	1989	0.5723	0.5645	0.5513	0.5296
Honduras	1992	0.5507	0.5437	0.5323	0.5114
Honduras	1996	0.5295	0.5243	0.5077	0.4913
Honduras	1998	0.5865	0.5857	0.5841	0.5869
	1000				
Mexico	1989	0.5355	0.5352	0.5126	0.5056
Mexico	1992	0.5383	0.5383	0.5139	0.5032
Mexico	1994	0.5328	0.5329	0.5035	0.4871
Mexico	1996	0.5143	0.4983	0.4881	0.4668
Nicaragua	1993	0.5669	0.5669	0.5598	0.5584
Nicaragua	1998	0.5909	0.5909	0.5542	0.5504
Panama	1991	0.5621	0.5558	0.5444	0.5364
Panama	1995	0.5555	0.5474	0.5291	0.5270
Panama	1997	0.5720	0.5544	0.5300	0.5430
Paraguay	1995	0.6203	0.6117	0.6080	0.6048
Paraguay	1998	0.5383	0.5383	0.5376	0.5376
Peru	1991	0.4584	0.4583	0.4404	0.4368
Peru	1994	0.4806	0.4785	0.4518	0.4439
Peru	1997	0.5025	0.5003	0.4706	0.4633
Uruguay	1989	0.3992	0.3992	0.3952	0.3905
Uruguay	1992	0.4306	0.4255	0.4161	0.4105
Uruguay	1995	0.4196	0.4143	0.4043	0.3969
Uruguay	1997	0.4251	0.4207	0.4082	0.3982
Venezuela	1995	0.4706	0.4702	0.4537	0.4457
Venezuela	1997	0.4863	0.4841	0.4693	0.4644

Table 5
Inequality by Excluding Education Group

Source: Authors'calculations from household survey data.

Table 6

Country	Effect	Total		(%) Contri	bution by Sou	urce
			Labor	Labor	Non-Labor	Non-
			Income	Income	Income	Monetar
			Employees	Self-emp		Income
Brazil	Factor share effect	5.5	23.2	-16.5	-1.3	
	Inequality Effect	94.5	95.1	-43.4	42.9	
	Total	100	118.3	-59.9	41.6	
Chile	Factor share effect	4.6	-15.7	-11.2	13.7	17.8
	Inequality Effect	95.4	51.6	-13.1	28.3	28.6
	Total	100	35.9	-24.3	42.0	46.3
Colombia	Factor share effect	-3.1	-2.2	2.2	-3.3	0.2
Coronneila	Inequality Effect	103.1	31.5	19.2	52.3	0.0
	Total	100	29.3	21.5	49.0	0.2
						0.2
Costa Rica	Factor share effect	6.6	39.0	-13.1	-19.3	
	Inequality Effect	93.4	178.2	-104.3	19.5	
	Total	100	217.2	-117.4	0.2	
Ecuador	Factor share effect	-159.7	-161.3	-20.0	21.6	0.0
	Inequality Effect	259.7	429.6	-224.1	49.7	4.6
	Total	100	268.3	-244.1	71.2	4.6
El Salvador	Factor share effect	18.3	20.9	12.6	-15.2	
	Inequality Effect	81.7	-3.8	95.0	-9.6	
	Total	100	17.2	107.6	-24.8	
Honduras	Factor share effect	32.9	-77.0	115.2	-5.4	
lonuuras	Inequality Effect	67.1	131.8	-59.3	-5.4	
	Total	100	54.8	55.9	-10.7	
Mexico	Factor share effect	0.4	-0.3	4.1	0.7	-4.2
WIEXICO	Inequality Effect	99.6	-0.3 134.6	-42.0	14.6	-4.2 -7.6
	Total	100	134.0	-42.0 -37.9	14.0	-11.8
	Total	100	134.4	-37.9	15.5	-11.0
Nicaragua	Factor share effect	-0.8	-2.6	1.8		
	Inequality Effect	100.8	8.8	92.0		
	Total	100	6.3	93.7		
Panama	Factor share effect	3.7	15.0	-4.4	-6.9	
	Inequality Effect	96.3	88.2	-20.8	28.9	
	Total	100	103.2	-25.2	22.0	
Paraguay	Factor share effect	-18.0	-22.8	6.2	-1.5	
	Inequality Effect	118.0	115.8	-3.7	5.9	
	Total	100	93.0	2.5	4.4	
Peru	Factor share effect	9.9	-6.4	-0.8	1.3	15.9
	Inequality Effect	90.1	-0.4	-13.8	2.5	90.2
	Total	100	4.7	-14.6	3.8	106.1
[Ima a						
Uruguay	Factor share effect	4.5	6.9	4.3	-12.4	5.7
	Inequality Effect	95.5	105.0	-13.6	5.2	-1.1
	Total	100	111.9	-9.3	-7.2	4.6
Venezuela*	Factor share effect	1.3	7.0	-4.3	-1.4	
	Inequality Effect	-0.3	-82.1	112.5	-30.7	
	Total	1	-75.1 urvey data.	108.1	-32.1	

Decomposition of the Change in Inequality by Income Source

Appendix Table A.1

Country	Year	Name of the survey	Coverage	Month when	Reference
			-	Survey was Held	Month for Incomes
				-	
Bolivia	96	Encuesta Nacional de Empleo	National	June	June
	97	Encuesta Nacional de Empleo	National	November	November
razil	92	Pesquisa Nacional por Amostra de Domicilios	National	September	September
	93	Pesquisa Nacional por Amostra de Domicilios	National	September	September
	95	Pesquisa Nacional por Amostra de Domicilios	National	September	September
	96	Pesquisa Nacional por Amostra de Domicilios	National	September	September
Chile	90	Encuesta de Caracterización Socioeconómica Nacional	National	November	October
line	92	Encuesta de Caracterización Socioeconómica Nacional	National	November	October
	94	Encuesta de Caracterización Socioeconómica Nacional	National	November	October
	96	Encuesta de Caracterización Socioeconómica Nacional	National	November	October
Colombia	91	En averte Na singel de Haranne - Evenne de Taskais	National	December	November
Joiombia	91	Encuesta Nacional de Hogares - Fuerza de Trabajo	National		
	95 95	Encuesta Nacional de Hogares - Fuerza de Trabajo	National	September	August
		Encuesta Nacional de Hogares - Fuerza de Trabajo		September	August
	97	Encuesta Nacional de Hogares - Fuerza de Trabajo	National	September	August
	98	Encuesta Nacional de Hogares - Fuerza de Trabajo	National	September	August
Costa Rica	89	Encuesta de Hogares de Propósitos Múltiples	National	July	July
	91	Encuesta de Hogares de Propósitos Múltiples	National	July	July
	93	Encuesta de Hogares de Propósitos Múltiples	National	July	July
	95	Encuesta de Hogares de Propósitos Múltiples	National	July	July
	97	Encuesta de Hogares de Propósitos Múltiples	National	July	July
Ecuador	95	Encuesta de Condiciones de Vida	National	August to November	Depends, Prim. July-Sept.
	98	Encuesta de Condiciones de Vida	National	August to November	Depends, Prim. July-Sept.
El Salvador	95	Encuesta de Hogares de Propósitos Múltiples	National	1995	1995
51 Salvadoi	97	Encuesta de Hogares de Propósitos Múltiples	National	1995	1995
	98	Encuesta de Hogares de Propósitos Multiples	National	May-Dec.	May-Dec.
Honduras	89	Encuesta Permanente de Hogares de Propósitos Múltiples	National	September	August
	92	Encuesta Permanente de Hogares de Propósitos Múltiples	National	September	August
	96 98	Encuesta Permanente de Hogares de Propósitos Múltiples	National National	September March	August
	98	Encuesta Permanente de Hogares de Propósitos Múltiples	National	March	February
Mexico	89	Encuesta Nacional de Ingreso Gasto de los Hogares	National	Third quarter	Third quarter
	92	Encuesta Nacional de Ingreso Gasto de los Hogares	National	Third quarter	Third quarter
	94	Encuesta Nacional de Ingreso Gasto de los Hogares	National	Third quarter	Third quarter
	96	Encuesta Nacional de Ingreso Gasto de los Hogares	National	Third quarter	Third quarter
Vicaragua	93	Encuesta Nacional de Hogares Sobre Medicion de Niveles de Vida	National	February to June	February to June
	98	Encuesta Nacional de Hogares Sobre Medicion de Niveles de Vida	National	April to September	April to September
anama	91	Encuesta Continua de Hogares - Mano de Obra	National	August	Julio
	95	Encuesta Continua de Hogares	National	August	Julio
	97	Encuesta de Hogares	National	August	Julio
			Martin	A	A
Paraguay	95	Encuesta de Hogares - Mano de Obra	National	August to November	August to November
	98	Encuesta Integrada de Hogares	National	Aug. 97 to July 98	Depends, prim Aug. to Jul
Peru	91	Encuesta Nacional de Hogares sobre Medición de Niveles de Vida	National	September-November	August-October
	94	Encuesta Nacional de Hogares sobre Medición de Niveles de Vida	National	May-August	April-July
	97	Encuesta Nacional de Hogares sobre Medición de Niveles de Vida	National	September-November	August-October
Jruguay	89	Encuesta Continua de Hogares	Urban	Second semester	Second semester
	92	Encuesta Continua de Hogares	Urban	Second semester	Second semester
	95	Encuesta Continua de Hogares	Urban	1995	1995
	97	Encuesta Continua de Hogares	Urban	1997	1997
71-	05	Er anata da Haranaa zan Marataa	National	Course documents of	Course d'annuation
enezuela	95	Encuesta de Hogares por Muestra	National	Second semester	Second semester
	97	Encuesta de Hogares por Muestra	National	Second semester	Second semester

Table A.2

Description	of the Data				1 au	C A.2					
Description			n of Survey E	stimates		_		Income			
		Year of Sample	Sample Size	Sample Size as	Standard Error			Sources Covered			
Country	Year	Frame	(Num. Obs)	% Total	Gini						
		(Census)		Population*	Coeff.	Labor F	Property Re	ent Capital Rent	Transfers	Non-Moneta	n Imputed Re
Bolivia	96	1992	35,648	0.47	0.0080	х	х	х	х	n.a.	n.a.
	97	1992	36,752	0.47	0.0081	х	х	Х	х	n.a.	n.a.
Brazil	92	1991	317,145	0.21	0.0028	х	х	Xc	х	n.a.	n.a.
	93	1991	322,011	0.21	0.0030	Х	Х	Xc	Х	n.a.	n.a.
	95	1991	334,106	0.21	0.0025	Х	Х	Xc	Х	n.a.	n.a.
	96	1991	331,142	0.21	0.0025	Х	Х	Xc	х	n.a.	n.a.
Chile	90	1982	105,189	0.80	0.0044	х	Xb	Xb	Xb	х	х
	92	1982	110,555	0.82	0.0038	Х	х	Х	х	Х	х
	94	1982	178,057	1.27	0.0066	Х	Xb	Xb	Xb	х	х
	96	1992	134,262	0.93	0.0042	х	Xb	Xb	Xb	х	Х
Colombia	91	1993	121,592	0.34	0.0066	х	Ха	Ха	х	Xe	n.a.
	93	1993	112,273	0.30	0.0094	x	Xa	Xa	x	Xe	n.a.
	95	1993	111,824	0.29	0.0052	x	Xa	Xa	X	Xe	n.a.
	97	1993	143,398	0.36	0.0568	x	Ха	Xa	x	X	n.a.
	98	1993	138,600	0.34	0.0100	x	Xa	Ха	x	x	n.a.
						N.					
Costa Rica	89 91	1984 1984	34,368 35,565	1.16 1.13	0.0050 0.0053	X X	Xb Xb	Xb Xb	Xb Xb	n.a. n.a.	n.a. n.a.
	93	1984	37,703	1.13	0.0048	x	Xb	Xb	Xb	n.a.	n.a.
	95	1984	40,613	1.12	0.0045	x	Xb	Xb	Xb	n.a.	n.a.
	97	1984	41,277	1.14	0.0045	x	Xb	Xb	Xb	n.a.	n.a.
Ecuador	05	1990	26.044	0.24	0.0106	х	х	х	х	х	х
Ecuador	95 98	1990	26,941 26,134	0.24	0.0106 0.0087	x	x	X	x	n.a.	n.a.
	05	1000	40.004	0.74	0.0000	X	N/I	241	N/I	N I	v
El Salvador	95	1992	40,004	0.71	0.0062	Х	Xb	Xb	Xb	Xd	Х
	97 98	1992 1992	39,089 56,766	0.66 0.94	0.0070 0.0068	X X	Xb Xb	Xb Xb	Xb Xb	Xd Xd	X X
Honduras	89	1988	46,672	0.98	0.0063	Х	n.a.	n.a.	n.a.	n.a.	n.a.
	92	1988	24,704	0.48	0.0081	Х	n.a.	n.a.	n.a.	n.a.	n.a.
	96	1988	33,172	0.57	0.0080	X X	n.a.	n.a.	n.a.	n.a.	n.a.
	98	1988	32,696	0.53	0.0075	~	Xb	Xb	Xb	n.a.	n.a.
Mexico	89	1980	57,289	0.07	0.0080	х	х	х	х	х	х
	92	1990	50,862	0.06	0.0059	Х	Х	Х	Х	х	х
	94	1990	60,402	0.07	0.0054	Х	Х	Х	Х	Х	х
	96	1995	64,916	0.07	0.0052	Х	Х	Х	Х	Х	Х
Vicaragua	93	1991	24,542	0.59	0.0092	х	n.a.	n.a.	n.a.	n.a.	n.a.
	98	1995	23,637	0.49	0.0128	х	n.a.	n.a.	n.a.	х	n.a.
Panama	91	1990	38,000	1.55	0.0062	х	Ха	Ха	х	n.a.	n.a.
	95	1990	40,320	1.53	0.0059	х	Xa	Xa	х	n.a.	n.a.
	97	1990	39,706	1.46	0.0067	x	Ха	Ха	x	n.a.	n.a.
Paraguay	95	1992	21,910	0.45	0.0388	х	х	х	х	Xd	na
Paraguay	93 98	1992	20,664	0.43	0.0093	X	X	X	X	Xd	n.a. Xd
	01						VL				
Peru	91	1980	11,507	0.05	0.0096	X	Xb	Xb	Xb	Х	Х
	94 97	1993 1993	18,662 19,575	0.08 0.08	0.0084 0.0085	X X	Xb Xb	Xb Xb	Xb Xb	X X	X X
Uruguay	89	1985	31,766	1.03	0.0055	X	X	x	X	X	X
	92	1985	29,927	0.95	0.0049	X	X	x	X	X	X
	95	1985	64,930	2.02	0.0030	X	X	x	X	X	X
	97	1985	64,028	1.96	0.0031	х	х	Х	х	Х	Х

1990 76,965 Yr 1990 ro,905
 Yota population taken from UN Population Statistics, 1998.
 a. Can not separate between property and capital rent.
 b. Can not separate capital rent from other sources.
 c. Can not separate capital rent from other sources
 d. Can not separate nonmonetary income from labor income.

1990

92,450

0.42

0.34

0.0033

0.0039

х

Х

Xb

Xb

Xb

Xb

Xb

Xb

n.a.

n.a.

n.a.

n.a.

97

95

Venezuela

Table A.3

	Comp	Comparison of Income Shares of Different Deciles					
Country	year	Top 10% vs	Top 10% vs	Top 20% vs	Income share	Income	
		Bottom 10%	Bottom 30%	Bottom 20%	bottom 10%	share top 10%	
Bolivia	1996	103.3	10.7	34.1	0.004	0.453	
Bolivia	1997	114.6	10.7	34.9	0.004	0.456	
Brazil	1992	56.1	8.6	23.8	0.008	0.450	
Brazil	1993	63.7	9.7	26.3	0.007	0.478	
Brazil	1995	56.3	9.4	25.2	0.008	0.470	
Brazil	1996	57.7	9.5	25.9	0.008	0.465	
Chile	1990	33.7	6.5	16.4	0.013	0.443	
Chile	1992	25.5	5.2	13.0	0.016	0.417	
Chile	1994	34.6	6.8	16.9	0.013	0.451	
Chile	1996	36.8	7.2	17.9	0.013	0.460	
Colombia	1001	16.0		10.0	0.010	0.460	
Colombia	1991	46.8	7.5	19.0	0.010	0.469	
Colombia	1993	58.1	9.3	23.5	0.009	0.505	
Colombia	1995	40.5	7.6	19.2	0.011	0.460	
Colombia	1997	65.5	8.4	23.3	0.007	0.463	
Colombia	1998	53.3	7.7	20.6	0.009	0.461	
Costa Rica	1989	27.3	4.3	12.6	0.012	0.340	
Costa Rica	1991	25.1	4.3	12.4	0.014	0.342	
Costa Rica	1993	23.9	4.0	11.6	0.014	0.340	
Costa Rica	1995	24.3	4.1	11.7	0.014	0.342	
Costa Rica	1997	23.0	4.1	11.6	0.015	0.344	
Ecuador	1995	49.7	7.4	20.3	0.009	0.440	
Ecuador	1998	74.6	8.1	24.4	0.006	0.438	
Leuduoi	1990	74.0	0.1	24.4	0.000	0.458	
El Salvador	1995	34.5	5.4	15.0	0.011	0.393	
El Salvador	1997	35.3	5.9	16.2	0.011	0.398	
El Salvador	1998	105.0	9.1	30.8	0.004	0.416	
Honduras	1989	44.2	7.9	20.6	0.010	0.455	
Honduras	1992	44.8	7.3	20.0	0.009	0.425	
Honduras	1996	34.0	6.2	16.5	0.012	0.409	
Honduras	1998	100.8	11.4	37.1	0.004	0.446	
Mexico	1989	32.9	6.3	15.8	0.013	0.436	
Mexico	1992	33.3	6.4	16.4	0.013	0.432	
Mexico	1994	32.4	6.3	16.0	0.013	0.431	
Mexico	1996	31.7	7.0	17.3	0.014	0.441	
Nicaragua	1993	63.2	8.6	24.9	0.007	0.438	
Nicaragua	1998	73.6	10.3	28.5	0.007	0.486	
Panama	1991	83.0	9.0	29.8	0.005	0.418	
Panama	1995	71.4	8.5	25.9	0.006	0.426	
Panama	1997	74.4	9.2	28.0	0.006	0.441	
Paraguay	1995	77.2	11.7	31.0	0.007	0.508	
•••							
Paraguay	1998	38.3	5.5	17.0	0.010	0.367	
Peru	1991	23.7	4.4	12.3	0.015	0.350	
Peru	1994	40.5	4.8	18.3	0.007	0.297	
Peru	1997	31.6	5.7	15.5	0.012	0.391	
Uruguay	1989	14.7	3.0	8.3	0.021	0.309	
Uruguay	1992	17.9	3.5	9.7	0.018	0.326	
Uruguay	1995	16.7	3.3	9.3	0.019	0.314	
Uruguay	1997	17.5	3.5	9.5	0.019	0.331	
Vonormal-	1005	24.2		10.2	0.015	0.250	
Venezuela	1995	24.3	4.4	12.3	0.015	0.356	
Venezuela Source: Author	1997	33.7	5.3	15.0	0.011	0.379	

Comparison of Income Shares of Different Deciles

Source: Authors'calculations from household survey data.