# Global Poverty Monitoring Technical Note 

# September 2020 PovcalNet Update What's New <br> R. Andres Castaneda Aguilar, Tony Fujs, Dean Jolliffe, Christoph Lakner, Daniel Gerszon Mahler, Minh C. Nguyen, Marta Schoch, David L. Vargas Mogollon, Martha C. Viveros Mendoza, Samuel Kofi Tetteh Baah, Nishant Yonzan, and Nobuo Yoshida 

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#### Abstract

The September 2020 update to PovcalNet mainly involves the adoption of the revised 2011 PPPs for the estimation of global poverty. In addition, the coverage rules for reporting regional and global poverty aggregates have been reviewed, resulting in small adjustments. Historical regional and global aggregates are now reported with an annual frequency instead of intervals with varying lengths. Only two surveys have been added and some welfare aggregates have been revised compared with the March 2020 update. National accounts and population input data have been updated. This document explains these changes and the rationale behind them in detail. The data and associated estimates are used for the analysis of global poverty in the forthcoming Poverty and Shared Prosperity Report 2020.

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The Global Poverty Monitoring Technical Note Series publishes short papers that document methodological aspects of the World Bank's global poverty estimates. The papers carry the names of the authors and should be cited accordingly. The findings, interpretations, and conclusions expressed in this paper are entirely those of the authors. They do not necessarily represent the views of the International Bank for Reconstruction and Development/World Bank and its affiliated organizations, or those of the Executive Directors of the World Bank or the governments they represent. Global Poverty Monitoring Technical Notes are available at http://iresearch.worldbank.org/PovcalNet/.
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## 1. Introduction

The September 2020 global poverty update from the World Bank presents new global poverty estimates for 2017 and revises the previously published historical global and regional estimates. This note describes and explains the changes made in this update. The revisions occur as a result of the adoption of revised 2011 PPPs, the addition of new survey data, the update of national accounts, as well as other (small) changes to the existing data.

Table 1 indicates the global and regional poverty estimates for 2017, which are presented in more detail in the forthcoming 2020 Poverty and Shared Prosperity report (World Bank, 2020). In 2017, an estimated 689 million people were living below the international poverty line (IPL), set at $\$ 1.90$ PPP U.S. dollars. The global poverty rate, the share of the world's population living below the IPL, stood at $9.2 \% .^{1}$ Sub-Saharan Africa accounted for more than $60 \%$ of the world's population below the IPL and had the highest regional poverty rate, at $41.0 \%$. Around a quarter of the world population ( $24.1 \%$ ) lived on less than $\$ 3.20$ and $43.6 \%$ on less than $\$ 5.50$, poverty lines that are typical of lower-middle and upper-middle income countries, respectively.

Table 1. Poverty estimates for reference year 2017, different poverty lines

| Region | Survey coverage (\%) | \$1.90 |  | \$3.20 |  | \$5.50 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Headcount ratio (\%) | Number of poor (mil) | Headcount ratio (\%) | Number <br> of poor (mil) | Headcount ratio (\%) | Number <br> of poor (mil) |
| East Asia and Pacific | 97.1 | 1.4 | 29 | 8.7 | 179 | 28.2 | 583 |
| Europe and Central Asia | 89.5 | 1.3 | 6 | 4.7 | 23 | 12.6 | 62 |
| Latin America and the Caribbean | 90.2 | 3.9 | 24 | 9.5 | 60 | 23.1 | 146 |
| Middle East and North Africa | 58.2 | 6.3 | 24 | 18.5 | 71 | 43.4 | 165 |
| Rest of the World | 77.7 | 0.6 | 7 | 0.8 | 9 | 1.3 | 14 |
| South Asia | 21.8 | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a |
| Sub-Saharan Africa | 79.0 | 41.0 | 431 | 67.3 | 707 | 86.1 | 905 |
| World | 70.7 | 9.2 | 689 | 24.1 | 1811 | 43.6 | 3271 |

Source: PovcalNet
Note: Survey coverage is assessed within a three-year window either side of 2017, i.e. including surveys that were conducted between 2014 and 2020 (see Section 2 below). The estimates for South Asia are not displayed since the region has a survey coverage less than $50 \%$ of the region's total population. At the global level, the surveys available within a three-year window either side of 2017 represent $52 \%$ of the population living in low-income and lowermiddle income countries.

[^0]Table 2 reports the differences in regional poverty estimates in 2018 between the March 2020 and September 2020 PovcalNet vintages. In general, the differences are small. Venezuela explains the reduction in poverty in Latin America and the Caribbean ( 0.6 percentage points at the IPL). ${ }^{2}$ The inclusion of new survey data for Nigeria explains the reduction in Sub-Saharan Africa ( 14 million fewer poor people). For most of the regions, poverty rates decrease with the September 2020 update at all poverty lines. ${ }^{3}$ The exception is the Middle East and North Africa, where the poverty estimates increase at the higher global poverty lines (the same is true for Sub-Saharan Africa at $\$ 5.50)$.

Table 2. Regional poverty rates in 2018: March 2020 vs. September 2020 PovcalNet update

| Region | \$1.90: <br> Headcount ratio (\%) |  | \$1.90: <br> Number of poor (mil) |  | \$3.20: <br> Headcount ratio (\%) |  | \$3.20: <br> Number of poor (mil) |  | \$5.50: <br> Headcount ratio (\%) |  | $\$ 5.50:$ <br> Number of poor (mil) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Mar | Sep | Mar | Sep | Mar | Sep | Mar | Sep | Mar | Sep | Mar | Sep |
| East Asia and Pacific | 1.3 | 1.2 | 28 | 25 | 7.6 | 7.2 | 159 | 149 | 25.6 | 25.0 | 532 | 520 |
| Europe and Central Asia | 1.2 | 1.1 | 6 | 6 | 4.5 | 4.3 | 22 | 21 | 12.1 | 11.9 | 60 | 59 |
| Latin America \& Caribbean | 4.4 | 3.8 | 28 | 24 | 10.4 | 9.3 | 66 | 59 | 24.2 | 22.6 | 154 | 144 |
| Middle East and North Africa | 7.2 | 7.2 | 28 | 28 | 19.8 | 20.3 | 77 | 79 | 44.8 | 45.0 | 174 | 174 |
| Rest of the World | 0.7 | 0.6 | 7 | 7 | 0.8 | 0.8 | 9 | 9 | 1.3 | 1.3 | 14 | 14 |
| South Asia | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | n/a | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ |
| Sub-Saharan Africa | 41.6* | 40.2 | 447* | 433 | 66.8* | 66.6 | 718* | 718 | 85.6* | 86.0 | 920* | 927 |

Source: PovcalNet
Note: The estimates for South Asia are not displayed due to insufficient population coverage. The March 2020 update did not report the regional estimates for Sub-Saharan Africa for the same reason; those unreported estimates are shown here to assess the impact of the data revisions.

[^1]
## 2. Annual regional and global poverty estimates, review of population coverage rule

In this update, for the first time, PovcalNet is reporting lined-up global and regional poverty numbers for every year. Previously, poverty estimates were reported at varying intervals and for the following years: every three years from 1981 to 2008, annually from 2010 to 2013, followed by 2015 and 2018. Figure 1 compares the lined-up global poverty estimates for the March 2020 update with the lined-up estimates for the September 2020 update. Figure 2 shows the comparison by region.

Figure 1. Global line-up estimates of extreme poverty


## Source: PovcalNet

Notes: Extreme poverty is measured as the share of population living on less than $\$ 1.90$ per day. Interactive graph depicting global line-up estimates of extreme poverty, available here.

The introduction of annual line-up years makes it easier to compare changes over time, as it standardizes the distance between line-up years. With the added granularity it is also possible to see that COVID-19 is likely to cause the first increase in global poverty since 1998, when the Asian Financial Crisis hit (Mahler et al., 2020). This was not apparent from the line-up years available previously, which included 1996 and 1999, but not the years in between.

Figure 2. Regional line-up estimates of extreme poverty


Source: PovcalNet
Notes: Extreme poverty is measured as the share of population living on less than $\$ 1.90$ per day. Interactive graphs depicting line-up estimates of extreme poverty at the regional level, available here.

The annual line-up series is noisier, though, especially before 1990. This is largely explained by the line-up estimates at the country level switching from income to consumption. ${ }^{4}$ This treatment of consumption and income data is not new, but the effect is now more visible with more granular line-up estimates. In fact, there has been no change in the way poverty estimates are calculated; the underlying country-level estimates have always been estimated for every year, but simply had

[^2]not been aggregated. We are working on refining the line-up methods and possibly change how line-up estimates switch between the use of income and consumption estimates.

Together with the introduction of the annual line-up years, the population coverage rules applied to report regional and global aggregates have also been revised slightly. These rules are used to determine whether a particular line-up year has sufficient population coverage to allow the reporting of regional and global poverty aggregates. It is important to highlight that these changes do not affect how regional and global poverty aggregates are estimated; they only affect whether an estimate is displayed. Three main changes have been made.

First, the coverage rules now include data for survey years within 3 years either side of a line-up year. This change makes this rule somewhat more lenient, but represents a small change compared to the old rule. Under the old rule, a country was included if the survey used is less than three years to the line-up year. ${ }^{5}$ Under the new rule, a country is considered covered if the distance to the lineup year is less than or equal to three years. This change simplifies the coverage rule and does not require making decisions for surveys that overlap multiple years, shown in PovcalNet as 'decimal' years (see footnote 4).

The second change increases the threshold of population coverage at the regional level from $40 \%$ to $50 \%$ of the population. For regions in which the surveys within 3 years either side of the lineup year account for less than half of the regional population, the regional poverty estimate is not reported. This is a stricter parameter compared to the previous version of the coverage rule and balances the previous requirement. The 40-percent and 50-percent thresholds are both somewhat arbitrary but requiring a coverage of half of the regional population seems more intuitive.

The third change introduces an additional requirement for the global poverty aggregate to ensure sufficient population coverage of countries where most of the poor live. Specifically, it tries to

[^3]avoid a situation whereby the global population threshold is met by having recent data in the highincome countries, East Asia, and Latin America, which together account for a small share of the global extreme poor today. Under this requirement, global poverty estimates are reported only if data is representative of at least 50 percent of the population in low-income and lower-middle income countries (LIC/LMIC countries), since over 90 percent of the poor live in these countries. ${ }^{6}$ This requirement, however, is only applied to the global poverty estimate, not to the regional estimates. ${ }^{7}$ The World Bank classification of countries according to income groups in the line-up year is used. ${ }^{8}$ By using the income classification in the line-up year, this rule also accounts for how the regional composition of global poverty has shifted over time. ${ }^{9}$

The adoption of the new coverage rules makes little or no change in the reporting of regional poverty numbers, especially in the latest line-up years. Poverty estimates for the Latin America and the Caribbean (LAC) and East Asia and Pacific (EAP) regions can be reported over the entire line-up years under both the old and the new rules. Poverty estimates can be reported for SubSaharan Africa between 1990 and 2018 under both old and new rules. Poverty numbers cannot be reported for South Asia for the periods 1997-2001 and 2015-2018 under both old and new rules. For the Middle East and North Africa, line-up poverty estimates cannot be reported until 1983 (1984) under the old (new) rules. And for Europe and Central Asia, line-up poverty estimates cannot be reported until 1990 (1989) under the old (new) rules.

Using these new rules, estimates of the global extreme poverty rate stop in 2017, while for individual regions we have information up to 2018, except for South Asia where the regional estimate is only reported until 2014. For 2018, the population coverage of LIC/LMIC countries with recent data is less than the $50 \%$ threshold; without this new requirement, the population

[^4]coverage threshold for reporting on global poverty would have been reached. Reporting the most recent regional estimates for which the coverage rules are satisfied is an attempt to provide the most up-to-date poverty estimates and to recognize the efforts by many countries to collect timely household survey data to monitor global poverty.

## 3. Revised 2011 PPPs

Purchasing power parities (PPPs) are price indices that measure how much it costs to purchase a basket of goods and services in one country relative to purchasing the same basket in a reference country. Put differently, they express how much of a country's currency will exchange for one unit of the currency of a reference country, typically the US, in real terms. Market exchange rates do not take into account non-tradable services, which are often cheaper in developing countries, where factors of production (e.g., labor) are not as expensive as in rich countries (i.e., the BalassaSamuelson effect).

All the poverty estimates included in this chapter adjust for differences in relative price levels across countries using the revised 2011 PPPs released by the International Comparison Program (ICP) in May 2020. The original 2011 PPPs were revised, mainly in light of the rebasing of national accounts data in several countries. The underlying price data remain unchanged. Since the PPPs are multilateral price indices, revisions to national accounts weights in one or a few countries translate into changes in PPP estimates for all countries.

The revised 2011 PPPs have relatively small effects on global poverty estimates, as analyzed in greater detail in Atamanov et al. (2020b). The global headcount ratio increases by 0.24 percentage points (equivalent to 17.7 million more poor people) in 2017. When compared with the adoption of the 2005 PPPs replacing the 1993 PPPs, which increased global poverty by 400 million people, this change in poverty is small (Chen \& Ravallion, 2010).

Historically, ICP rounds have not only reflected new price information but also changes in ICP methodologies (e.g., the change from 2005 to 2011 PPPs). With this concern in mind, the Atkinson Commission on Global Poverty has recommended against adopting future ICP rounds (World Bank, 2017). Thus, the 2017 PPPs, which were published together with the revised 2011 PPPs, are not currently used for global poverty measurement as more analysis will be needed to examine their comparability. However, it is necessary to adopt the revised 2011 PPPs, as they incorporate
new information from national accounts. This is similar to how PovcalNet periodically revises its other input data, such as CPI, GDP or population estimates, to reflect the most recent accurate information.

PPPs are also used in the derivation of the global poverty lines. When updated with the revised 2011 PPPs, the IPL still rounds to $\$ 1.90$ per person per day (the updated underlying estimate is $\$ 1.87$ ) (Atamanov et al., 2020b). The higher lines- $\$ 3.20$ and $\$ 5.50$ per person per day—are derived as the median implicit national poverty lines corresponding to lower-middle income countries and upper-middle income countries (Jolliffe \& Prydz, 2016). When updated with the revised 2011 PPPs, the $\$ 3.20$ line also remains unchanged, but the $\$ 5.50$ line increases by approximately $\$ 0.15$ (Atamanov et al., 2020b). Over time the World Bank's global poverty lines have been widely used in the development community, such that they could be considered as parameters in estimating global poverty and there is a cost to revising them frequently. While changes in PPPs could result in a different estimate, it is important to recognize that the poverty line is a parameter chosen-using a reasonable method-to monitor progress in different parts of the global distribution of income or consumption. To this end, the World Bank has decided to keep all global poverty lines unchanged, including the Societal Poverty Line (SPL).

### 3.1. Country-specific PPP adjustments

For Egypt, Iraq, Jordan, Laos, Myanmar and Yemen, PovcalNet uses imputed PPPs considered to be more appropriate than the official PPPs (Atamanov et al., 2018). The imputed PPP estimates are out-of-sample predictions based on a variant of the seemingly unrelated regression (SURE) model the ICP uses for estimating PPPs for non-benchmark countries. Using the same imputation method, revised 2011 PPPs have been imputed for these countries (Atamanov et al., 2020b). See Appendix 1, Table A1.1 for the original 2011 PPPs imputed for these economies, as well as the revised 2011 PPPs imputed using both old and new input data. PovcalNet currently uses those estimates with new input data.

For global poverty estimation, PovcalNet uses rural and urban PPPs for China, India and Indonesia, to take into account the 'urban bias' in the ICP price data collection (Chen \& Ravallion, 2008, 2010; Ferreira et al., 2016). These location-specific PPPs are imputed using the official national PPP estimates, the ratio of urban to rural poverty lines, and the urban share in the ICP price data
collection (see the formula given in the online Appendix of Ferreira et al. (2016) and Lakner et al. (2015)). For China, India and Indonesia, the rural and urban PPPs have been updated using the official national estimates for revised 2011 PPPs (while the other parameters remain unchanged) (Atamanov et al., 2020b). See Appendix 1, Table A1.2 for the original and revised 2011 PPPs for both rural and urban China, India and Indonesia.

Using the rural and urban revised 2011 PPPs for India, the poverty estimate for 2014/15 that has been estimated by Newhouse \& Vyas, (2019) has been updated. This estimate is derived using a survey-to-survey imputation methodology. PovcalNet uses it to calibrate a pass-through rate to estimate poverty in India between 2011 and 2015 for the purposes of the global poverty aggregate (following Chen et al., 2018). ${ }^{10}$ The 2014/15 survey-to-survey poverty estimates for rural and urban India with the original and revised 2011 PPPs are shown in Table 3.

Table 3: Survey-to-survey poverty estimates for India (2014/15) at \$1.90

| PPP | Poverty rate (\%) |
| :--- | :---: |
| Original 2011 PPP - Rural | 16.8 |
| Original 2011 PPP - Urban | 10.1 |
| Revised 2011 PPP - Rural | 18.1 |
| Revised 2011 PPP - Urban | 10.7 |

Source: Newhouse \& Vyas (2019) and updates by the same authors.

The Syrian Arab Republic has no revised 2011 PPP estimate, so the original 2011 PPP estimate is still used. More details on how the revised 2011 PPPs affect the measurement of global poverty can be found in Atamanov et al. (2020b).

## 4. Surveys added

### 4.1. Nigeria 2018/2019

This PovcalNet update includes newly published household survey data from the Nigeria Living Standards Survey (NLSS) 2018/19 (Nigerian National Bureau of Statistics, 2020). This survey was conducted over 12 months for a final total sample of approximately 22,000 households. The survey

[^5]is representative at the national, zonal (6 zones), state ( $36+1$ ), and rural/urban levels. The household survey contains information on household consumption, including a module on consumption from home production. The survey provides new data for estimating poverty in Nigeria, one of the countries with the largest extreme poor population according to the IPL. Some issues regarding the survey deserve additional discussion.

First, the NLSS is not representative of the Borno state, which accounts for $2.5 \%$ of the Nigerian population. This is because parts of the state became inaccessible over the course of the survey. Only 530 households were reached (i.e., 15 Local Government Areas (LGAs) out of original 27 LGAs). For both national and international poverty estimates, Borno state is excluded from the data. In the regional and global aggregates, PovcalNet weights Nigeria using the national population, so Borno state is implicitly assumed to have the Nigerian poverty rate (excluding Borno state). ${ }^{11}$

Second, the NLSS survey is not comparable to the previous data used in PovcalNet, the Harmonized Nigeria Living Standards Survey (HNLSS) 2009/2010 (see comparability database). There has been a change in the questionnaire design which affects how the household consumption aggregate has been constructed. Another difference between the two surveys is that the HNLSS 2009/2010 was not spatially deflated while the NLSS 2018/2019 is both spatially and temporally deflated using food unit values. The survey runs from September of 2018 to October 2019 and the reference price is the median at the national level (i.e., April 2019). With the spatial deflation the national poverty rate over the survey period at the international poverty line is $39.1 \%$ (without deflation it would be $42.5 \%$ ). ${ }^{12}$

### 4.2. Canada 2017

One survey has been added for Canada (2017), which is incorporated as binned data (400 quantile groups) from the Luxembourg Income Study (LIS). For further details on the LIS data, see Section 6.1.

[^6]
## 5. India line-up

Annual growth in household final consumption expenditure (HFCE) per capita from the World Development Indicators (WDI) is used to line-up poverty estimates for rural and urban India, based on the latest survey available for 2011/12, for the purposes of estimating global poverty. Only a fraction of the growth in HFCE per capita is passed through to survey consumption. From 2011 to 2015, the pass-through rates have been calibrated using the poverty rates estimated by Newhouse \& Vyas (2019), as described earlier in Section 3 (also see Chen et al. (2018)).

After 2015, the pass-through factor is based on estimates from historic data. The pass-through factor accounts for the difference in growth rates between HFCE per capita in national accounts and household consumption expenditure as recorded in surveys. Using all comparable consumption surveys available in PovcalNet, a pass-through rate of $67 \%$ is estimated. ${ }^{13}$ This estimate is applied to the HFCE per capita growth in WDI for India after 2015. This estimate is in line with the existing literature on this issue (Datt et al., 2003; Deaton \& Kozel, 2005; Lakner et al., 2020; Sen, 2000), and also very close to the pass-through factors calibrated for the period 2011/12 to 2014/15. Further details, including alternative methods to estimate poverty in India in 2017, will be available in the forthcoming Poverty and Shared Prosperity report and the associated background paper (Edochie et al., 2020). See Section 7 for more details on the treatment of national accounts data for India.

## 6. Revisions to welfare aggregates

### 6.1. Changes to the US data in LIS

We continue to use the LIS data for the following eight economies: Australia; Canada; Germany; Israel; Japan; South Korea; Taiwan, China; and United States. In addition, we continue to use the LIS data for countries that use EU-SILC in recent years (typically from the early 2000s). In June 2020, several changes were made to the US data in the LIS database that affect disposable household income (DHI), which is the welfare aggregate used by PovcalNet.

The US series in PovcalNet has thus been updated (downloaded on 19 June 2020). Data for all other LIS countries have remained unchanged since the March 2020 PovcalNet update

[^7](downloaded on 6 February 2020). As before, we use disposable income per capita from the LIS data in the form of 400 bins (see Chen et al. (2018) for more details).

### 6.2. National inequality estimates for India, Indonesia and China

We discovered and rectified an error in the estimation of the national Gini coefficients for India and Indonesia that was introduced in the March 2020 PovcalNet update. ${ }^{14}$ The urban/rural spatial price adjustment had not been applied correctly. This has now been fixed along with applying the revised 2011 PPPs. Appendix 3, Table A3.1 shows the observations for India and Indonesia for which there are differences between the March 2020 and September 2020 updates. Country-year observations with differences less than 0.01 percentage points are not shown in the table.

Unlike the distributions for India and Indonesia, there was no such error in the distributions for China, which are based on grouped data. These estimates have also been updated, but since the urban-to-rural PPP ratio is the same in the revised and original 2011 PPPs (see Appendix 1, Table A1.2), all the country-year differences in the national Gini coefficient for China are less than 0.01 pp and are therefore not shown in Table A3.1.

## 7. Changes to national accounts data

The national accounts data used to adjust survey data to reference years have been updated. Methodological details and the choice of data sources are available in Prydz et al. (2019). The primary source of national accounts data in this update is the May 2020 version of the World Development Indicators (WDI). For the following special cases, supplementary data are obtained from the April 2020 version of the World Economic Outlook (WEO) where WDI data are missing: Angola (2019), Djibouti (2016-2018), Iran (2018), South Sudan (2016-2018), Syrian Arab Republic (2008-2010), and Taiwan, China (1981-2018). Apart from these cases, there are other special series and other sources of national accounts data in the March 2020 vintage of PovcalNet that have not changed, such as the Madison Project Database (Atamanov et al., 2020a). A full overview of national accounts data used in the update, including special series, is available in Appendix 4.

[^8]For India, adjustments are made to the national accounts data, as in the previous PovcalNet update. A method that adjusts HFCE growth by incorporating findings of a survey-to-survey imputation for 2014/15 is used for the line-up years from 2011 to 2015 (see Sections 3 and 5). After 2015, growth rates in national accounts are adjusted with a pass-through rate of $67 \%$, as described in Section 5.

## 8. Changes to population data

We did a general update of population data as published in the July 2020 vintage of World Development Indicators (WDI). All 218 economies have been included in the update, including Eritrea which was missed in the March 2020 PovcalNet update.

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# A. Appendix 1 - Imputation of revised 2011 PPPs 

## A1.1. Egypt, Iraq, Jordan, Laos, Myanmar, Yemen

Table A1.1: Raw and imputed 2011 PPPs

| $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | (6) |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: |
| Country | Original 2011 PPP <br> Raw | Imputed |  |  |  |  |

Source: Atamanov et al. (2020b), Table A.1.
Notes: The imputed PPP estimates are out-of-sample predictions based on a variant of the seemingly unrelated regression (SURE) model the ICP uses for estimating PPPs for non-benchmark countries (Atamanov et al., 2020b). Columns (2) and (4) report the raw, official PPPs for household final consumption expenditure, including non-profit institutions serving households (NPISHs), obtained from the ICP. Column (3) shows the original 2011 PPPs imputed by Atamanov et al. (2018). Column (5) shows imputed PPPs using revised 2011 PPPs but otherwise the same input data as in Column (3). Column (6) shows imputed 2011 PPPs using both revised 2011 PPPs and new input data. The World Bank currently uses the estimates in column (6) for global poverty measurement.

## A1.2. China, India, Indonesia

Table A1.2: Imputed rural and urban PPPs

| a. China | Original 2011 PPP | Revised 2011 PPP |
| :--- | :---: | :---: |
| Ratio of urban to rural poverty line | 1.29 | 1.29 |
| ICP urban shares | 0.76 | 0.76 |
| Rural PPP | 3.038 | 3.039 |
| Urban PPP | 3.904 | 3.905 |
| National PPP | 3.696 | 3.698 |
| b. India |  |  |
| Ratio of urban to rural poverty line | 1.22 | 1.22 |
| ICP urban shares | 0.74 | 0.74 |
| Rural PPP | 12.908 | 13.173 |
| Urban PPP | 15.695 | 16.018 |
| National PPP | 14.975 | 15.283 |
| c. Indonesia |  |  |
| Ratio of urban to rural poverty line | 1.18 | 1.18 |
| ICP urban shares | 0.61 | 0.61 |
| Rural PPP | 3678.414 | 3498.876 |
| Urban PPP | 4352.751 | 4140.299 |
| National PPP | 4091.939 | 3892.218 |

Source: Atamanov et al. (2020b), Table A.2.
Note: National PPPs are from the ICP. Further details in the text.

## B. Appendix 2 - CPI data sources

Table A2.1 lists the source of CPI used for each country-year observation reported in PovcalNet. The columns in the table are defined as follows:

- Code: The 3-letter country code used by the World Bank:
https://datahelpdesk.worldbank.org/knowledgebase/articles/906519-world-bank-country-and-lending-groups
- Economy name: Name of economy
- Year(s): Welfare reporting year, i.e. the year for which the welfare has been reported. If the survey collects income for the previous year, it is the year prior to the survey. This is identical to the year variable used in PovcalNet.
- CPI period: Common time period to which the welfare aggregates in the survey have been deflated. The letter Y denotes that the CPI period is identical to the year column. When the welfare aggregate has been deflated to a particular month within the welfare reporting year, the month is indicated by a number between 1 and 12 , preceded by an M , and similarly with a Q for quarters. The letter W indicates that a weighted CPI is used, as described in equation 1 in Lakner et al. (2018).
- CPI source: Source of the deflator used. The source is given by the abbreviation, the frequency of the CPI, and the vintage; e.g. IFS-M-201911 denotes the monthly IFS database version November 2019. For country-specific deflators, the description is given in the text or further details are available upon request.

Table A2.1. Source of temporal deflator used in PovcalNet

| Code | Economy name | Survey | Year(s) | CPI period | Source |
| :---: | :---: | :---: | :---: | :---: | :---: |
| AGO | Angola | HBS | 2000 | W | IFS-M-201911 |
|  |  | IBEP-MICS | 2008 | W | IFS-M-201911 |
|  |  | IDREA | 2018 | W | IFS-M-201911 |
| ALB | Albania | EWS | 1996 | Y | IFS-M-201911 |
|  |  | LSMS | 2002-2012 | Y | IFS-M-201911 |
| ARE | United Arab Emirates | HIES | 2014 | W | IFS-M-201911 |
| ARG | Argentina - urban | EPH | 1980-1987 | Y | CEDLAS May 2518 |
|  |  |  | 1991-2002 | M9 | NSO |
|  |  | EPHC-S2 | 2003-2018 | M7-M12 | NSO |
|  |  |  | 2007-2014 | M7-M12 | Private estimates |
| ARM | Armenia | ILCS | All | Y | IFS-M-201911 |
| AUS | Australia | HIS-LIS | 1981 | Y | IFS-A-201911 |
|  |  | IDS-LIS | 1985 | Y | IFS-A-201911 |
|  |  | SIH-LIS | 1989-2014 | Y | IFS-A-201911 |
|  |  | SIH-HES-LIS | 2004-2010 | Y | IFS-A-201911 |
| AUT | Austria | MC-LIS | 1987-1995 | Y | IFS-M-201911 |
|  |  | ECHP-LIS | 1994-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| AZE | Azerbaijan | ALZ | 1995 | Y | IFS-M-201911 |
|  |  | HBS | 2001-2005 | Y | IFS-M-201911 |
|  |  | HSMTSA | 2008 | Y | IFS-M-201911 |
| BDI | Burundi | EDCM | 1992 | Y | IFS-M-201911 |
|  |  | EP | 1998 | W | IFS-M-201911 |
|  |  | QUIBB | 2006 | Y | IFS-M-201911 |
|  |  | ECVMB | 2013 | W | IFS-M-201911 |
| BEL | Belgium | SEP-LIS | 1985-1997 | Y | IFS-M-201911 |
|  |  | PSBH-ECHP-LIS | 1995-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| BEN | Benin | QUIBB | 2003 | Y | IFS-M-201911 |
|  |  | EMICOV |  | W | IFS-M-201911 |
|  |  |  | 2015 | Y | IFS-M-201911 |
| BFA | Burkina Faso | EP-I | 1994 | W | IFS-M-201911 |
|  |  | EP-II | 1998 | Y | IFS-M-201911 |
|  |  | ECVM | 2003-2009 | Y | IFS-M-201911 |
|  |  | EMC | 2014 | Y | IFS-M-201911 |
| BGD | Bangladesh | HHES | 1983-1985 | W | WEO-A-201910 |
|  |  |  | 1988-1991 | W | IFS-A-201911 |
|  |  |  | $1995$ | W | Survey |
|  |  | HIES | 2000-2016 | Y | Survey |


|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | HBS | 1989 | Y | IFS-A-201911 |
|  |  | HBS | 1992-1994 | Y | IFS-M-201911 |
| BGR | Bulgaria | IHS | 1995-2001 | Y | IFS-M-201911 |
|  |  | MTHS | 2003-2007 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2007-2018 | (prev. year) Y | IFS-M-201911 |
| BIH | Bosnia and | LSMS | 2001-2004 | Y | WEO-A-201910 |
| BIH | Herzegovina | HBS | 2007-2015 | Y | IFS-M-201911 |
|  |  |  | 1988 | Y | Previous WDI/IFS |
| BLR | Belarus | FBS | 1993-1995 | Y | IFS-M-201911 |
|  |  | HHS | 1998-2018 | Y | IFS-M-201911 |
|  |  | LFS | 1993-1999 | Y | WEO-A-201910 |
| BLZ | Belize | HBS | 1995 | Y | WEO-A-201910 |
|  |  | SLC | 1996 | Y | WEO-A-201910 |
|  | Bolivia | EPF | 1990 | W | IFS-M-201911 |
|  | Bolivia - urban | EIH | 1992 | M11 | IFS-M-201911 |
|  |  | ENE | 1997 | M11 | IFS-M-201911 |
|  |  | ECH | 1999 | M10 | IFS-M-201911 |
| BOL |  |  | 2000 | M11 | IFS-M-201911 |
|  | Bolivia | EH | 2001-2005 | M11 | IFS-M-201911 |
|  |  | ECH | 2004 | M10 | IFS-M-201911 |
|  |  |  | 2006-2016 | M10 | IFS-M-201911 |
|  |  | EH | 2017-2018 | M11 | IFS-M-201911 |
| BRA |  | PNAD | 1981-2015 | M9 | IFS-M-201911 |
|  |  | PNADC-E1 | 2012-2018 | Y | IFS-M-201911 |
| BTN | Bhutan | BLSS | All | Y | Previous WDI/IFS |
|  |  | HIES | 1985-2002 | W | IFS-M-201911 |
| BWA | Botswana | CWIS | 2009 | W | IFS-M-201911 |
|  |  | BMTHS | 2015 | W | IFS-M-201911 |
|  | Central African | EPCM | 1992 | W | IFS-M-201911 |
| CAF | Republic | ECASEB | 2003-2008 | Y | IFS-M-201911 |
|  |  | SCF-LIS | 1971-1997 | Y | IFS-M-201911 |
| CAN | Canada | SLID-LIS | 1998-2010 | Y | IFS-M-201911 |
|  |  | CIS-LIS | 2012-2017 | Y | IFS-M-201911 |
|  |  | SIWS-LIS | 1982 | Y | IFS-M-201911 |
| CHE | Switzerland | NPS-LIS | 1992 | Y | IFS-M-201911 |
| CHE | Switzerland | IES-LIS | 2000-2002 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2007-2018 | (prev. year) Y | IFS-M-201911 |
| CHL | Chile | CASEN | 1987 | Y | IFS-M-201911 |
|  |  |  | 1990-2017 | M11 | IFS-M-201911 |
| CHN | China - rural | CRHS-CUHS | 1981-2011 | Y | NSO |
|  | China - urban |  | 1981-2011 | Y | NSO |


|  | China - rural <br> China - urban | CNIHS | $\begin{aligned} & 2012-2016 \\ & 2012-2016 \end{aligned}$ | $\begin{aligned} & \mathrm{Y} \\ & \mathrm{Y} \end{aligned}$ | $\begin{aligned} & \text { NSO } \\ & \text { NSO } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| CIV | Côte d'Ivoire | EPAM | 1985-1988 | W | IFS-M-201911 |
|  |  | EP | 1992 | W | IFS-M-201911 |
|  |  | ENV | 1995-2015 | Y | IFS-M-201911 |
| CMR | Cameroon | ECAM-I | 1996 | Y | IFS-M-201911 |
|  |  | ECAM-II | 2001 | Y | IFS-M-201911 |
|  |  | ECAM-III | 2007 | Y | IFS-M-201911 |
|  |  | ECAM-IV | 2014 | Y | IFS-M-201911 |
| COD | Congo, Dem. Rep. | E123 | All | W | IFS-M-201911 |
| COG | Congo, Rep. | ECOM | All | Y | IFS-M-201911 |
| COL | Colombia - urban | ENH | 1980-1988 | Y | IFS-M-201911 |
|  |  |  | 1989-1991 | M11 | IFS-M-201911 |
|  | Colombia | ENH | 1992-2000 | M11 | IFS-M-201911 |
|  |  | ECH | 2001-2005 | M11 | IFS-M-201911 |
|  |  | GEIH | 2008-2018 | M11 | IFS-M-201911 |
| COM | Comoros | EIM | 2004 | Y | IFS-M-201911 |
|  |  | EESIC | 2013 | Y | IFS-M-201911 |
| CPV | Cabo Verde | IDRF | 2001 | W | IFS-M-201911 |
|  |  | QUIBB | 2007 | W | IFS-M-201911 |
|  |  | IDRF | 2015 | Y | IFS-M-201911 |
| CRI | Costa Rica | ENH | 1981-1986 | Y | IFS-M-201911 |
|  |  | EHPM | 1989 | Y | IFS-M-201911 |
|  |  |  | 1990-2009 | M7 | IFS-M-201911 |
|  |  | ENAHO | 2010-2018 | M7 | IFS-M-201911 |
| CYP | Cyprus | EU-SILC | All | (prev. year) Y | IFS-M-201911 |
| CZE | Czech Republic | CM | 1988 | Y | Previous WDI/IFS |
|  |  | MC-LIS | 1992-2002 | Y | IFS-M-201911 |
|  |  | CM | 1993 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| DEU | Germany | LIS | 1973-1983 | Y | IFS-M-201911 |
|  |  |  | 1981 | Y | IFS-M-201911 |
|  |  |  | 1984-2016 | Y | IFS-M-201911 |
| DJI | Djibouti | EDAM | 2002-2013 | Y | IFS-M-201911 |
|  |  |  | 2017 | M5 | IFS-M-201911 |
| DNK | Denmark | LM-LIS | 1987-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| DOM | Dominican Republic | ENGSLF | 1986-1989 | Y | IFS-M-201911 |
|  |  | ICS | 1992 | M6 | IFS-M-201911 |
|  |  | ENFT | 1996 | M2 | IFS-M-201911 |
|  |  |  | 1997 | M4 | IFS-M-201911 |



|  |  | GLSS-II | 1988 | W | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | GLSS-III | 1991 | W | IFS-M-201911 |
|  |  | GLSS-IV | 1998 | W | IFS-M-201911 |
|  |  | GLSS-V | 2005 | W | Survey |
|  |  | GLSS-VI | 2012 | W | Survey |
|  |  | GLSS-VII | 2016 | W | Survey |
| GIN | Guinea | ESIP | 1991 | Y | WEO-A-201910 |
|  |  | EIBC | 1994 | W | WEO-A-201910 |
|  |  | EIBEP | 2002 | W | WEO-A-201910 |
|  |  | ELEP | 2007-2012 | Y | IFS-M-201911 |
| GMB | Gambia, The | HPS | 1998 | Y | IFS-M-201911 |
|  |  | HIS | 2003 | W | IFS-M-201911 |
|  |  | IHS | 2010-2015 | W | IFS-M-201911 |
| GNB | Guinea-Bissau | ILJF | 1991 | Y | IFS-M-201911 |
|  |  | ICOF | 1993 | Y | IFS-M-201911 |
|  |  | ILAP-I | 2002 | Y | IFS-M-201911 |
|  |  | ILAP-II | 2010 | Y | IFS-M-201911 |
| GRC | Greece | ECHP-LIS | 1995-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| GTM | Guatemala | ENSD | 1986 | W | IFS-M-201911 |
|  |  |  | 1989 | Y | IFS-M-201911 |
|  |  | ENIGF | 1998 | M8 | IFS-M-201911 |
|  |  | ENCOVI | 2000 | M6-M11 | IFS-M-201911 |
|  |  |  | 2006-2014 | M7 | IFS-M-201911 |
| GUY | Guyana | GLSMS | 1992 | W | WEO-A-201910 |
|  |  |  | 1998 | Y | IFS-M-201911 |
| HND | Honduras - urban | ECSFT | 1986 | Y | IFS-M-201911 |
|  | Honduras | EPHPM | 1989 | Y | IFS-M-201911 |
|  |  |  | 1990-1993 | M5 | IFS-M-201911 |
|  |  |  | 1994 | M9 | IFS-M-201911 |
|  |  |  | 1995-2018 | M5 | IFS-M-201911 |
| HRV | Croatia | HBS | 1988-2010 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2010-2018 | (prev. year) Y | IFS-M-201911 |
| HTI | Haiti | ECVH | 2001 | M5 | IFS-M-201911 |
|  |  | ECVMAS | 2012 | M10 | IFS-M-201911 |
| HUN | Hungary | HBS | 1987-2007 | Y | IFS-M-201911 |
|  |  | HHP-LIS | 1991-1994 | Y | IFS-M-201911 |
|  |  | THMS-LIS | 1999 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| IDN | Indonesia | SUSENAS | 1984-1999 | Y | IFS-M-201911 |
|  |  |  | 2000-2007 | M2 | IFS-M-201911 |


|  |  |  | 2008-2018 | M3 | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| IND | India - rural | NSS | 1977-1983 | Y | NSO |
|  | India - urban |  | 1977-1983 | Y | NSO |
|  | India - rural | NSS-SCH1 | 1987-2011 | W | NSO |
|  | India - urban |  | 1987-2011 | W | NSO |
| IRL | Ireland | SIDPUSS-LIS | 1987 | Y | IFS-M-201911 |
|  |  | LIS-ECHP-LIS | 1994-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2017 | (prev. year) Y | IFS-M-201911 |
| IRN | Iran, Islamic Rep. | SECH | 1986-1998 | Y | CBI |
|  |  | HEIS | 2005-2017 | Y | CBI |
| IRQ | Iraq | IHSES | 2006 | $\begin{aligned} & \text { M11-(next } \\ & \text { year) M12 } \end{aligned}$ | COSIT |
|  |  |  | 2012 | Y | COSIT |
| ISL | Iceland | EU-SILC | All | (prev. year) Y | IFS-M-201911 |
| ISR | Israel | HES-LIS | All | Y | IFS-M-201911 |
| ITA | Italy | SHIW-LIS | 1986-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| JAM | Jamaica | SLC | 1988 | M9 | IFS-M-201911 |
|  |  |  | 1990-1993 | M11-(next <br> year) M3 | IFS-M-201911 |
|  |  |  | 1996 | M5-M8 | IFS-M-201911 |
|  |  |  | 1999 | M6-M8 | IFS-M-201911 |
|  |  |  | 2002-2004 | M6 | IFS-M-201911 |
| JOR | Jordan | HEIS | 1986 | W | IFS-M-201911 |
|  |  |  | 1992-1997 | Y | IFS-M-201911 |
|  |  |  | 2002-2010 | W | IFS-M-201911 |
| JPN | Japan | JHPS-LIS | ALL | Y | IFS-M-201911 |
| KAZ | Kazakhstan | HBS | 1988 | Y | Previous WDI/IFS |
|  |  |  | 1993-2017 | Y | IFS-M-201911 |
|  |  | LSMS | 1996 | Y | IFS-M-201911 |
| KEN | Kenya | WMS-I | 1992 | Y | NSO |
|  |  | WMS-II | 1994 | Y | NSO |
|  |  | WMS-III | 1997 | Y | NSO |
|  |  | IHBS | 2005-2015 | W | NSO |
| KGZ | Kyrgyz Republic | PMS | 1988 | Y | Previous WDI/IFS |
|  |  | HBS | 1993 | Y | Previous WDI/IFS |
|  |  |  | 1998-2003 | Y | IFS-M-201911 |
|  |  | KIHS | 2004-2018 | Y | IFS-M-201911 |
| KHM | Cambodia | CSES | All | Y | IFS-M-201911 |
| KIR | Kiribati | HIES | 2006 | Y | IFS-M-201911 |
| KOR | Korea, Rep. | HIES-FHES-LIS | All | Y | IFS-M-201911 |
| LAO | Lao PDR | LECS | 1997 | W | IFS-M-201911 |


|  |  |  | 2002-2012 | W | Survey |
| :---: | :---: | :---: | :---: | :---: | :---: |
| LBN | Lebanon | HBS | 2011 | $\begin{aligned} & \text { (next year) } \\ & \text { M5 } \end{aligned}$ | IFS-M-201911 |
| LBR | Liberia | CWIQ | 2007 | Y | IFS-M-201911 |
|  |  | HIES | 2014-2016 | Y | IFS-M-201911 |
| LCA | St. Lucia | LSMS | 1995 | Y | IFS-M-201911 |
|  |  | SLC-HBS | 2016 | M1 | IFS-M-201911 |
| LKA | Sri Lanka | LFSS | 1985 | Y | IFS-M-201911 |
|  |  | HIES | 1990 | W | IFS-M-201911 |
|  |  | SES | 1995 | W | IFS-M-201911 |
|  |  |  | 2002 | Y | IFS-M-201911 |
|  |  | HIES | 2006-2012 | W | IFS-M-201911 |
|  |  |  | 2016 | Y | IFS-M-201911 |
| LSO | Lesotho | HBS | 1986 | W | WEO-A-201910 |
|  |  | NHECS | 1994 | W | WEO-A-201910 |
|  |  | HBS | 2002 | W | IFS-M-201911 |
|  |  | CMSHBS | 2010 | Y | IFS-M-201911 |
|  |  |  | 2017 | M8 | IFS-M-201911 |
| LTU | Lithuania |  | 1988 | Y | Previous WDI/IFS |
|  |  |  | 1993-2008 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| LUX | Luxembourg | PSELL-LIS | 1985-1991 | Y | IFS-M-201911 |
|  |  | PSELL-ECHP-LIS | 1994-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| LVA | Latvia | HBS | 1988 | Y | Previous WDI/IFS |
|  |  |  | 1993-2009 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| MAR | Morocco | ECDM | 1984 | W | IFS-M-201911 |
|  |  | ENCV | 1990 | W | IFS-M-201911 |
|  |  | ENNVM | 1998-2006 | W | IFS-M-201911 |
|  |  | ENCDM | 2000-2013 | W | IFS-M-201911 |
| MDA | Moldova | HBS | 1988-1992 | Y | Previous WDI/IFS |
|  |  |  | 1997-2018 | Y | IFS-M-201911 |
| MDG | Madagascar | EB | 1980 | Y | IFS-M-201911 |
|  |  | EPM | 1993 | W | IFS-M-201911 |
|  |  |  | 1997-2010 | Y | IFS-M-201911 |
|  |  | ENSOMD | 2012 | Y | IFS-M-201911 |
| MDV | Maldives | HIES | 2002-2009 | W | IFS-M-201911 |
|  |  |  | 2016 | Y | IFS-M-201911 |
| MEX | Mexico | ENIGH | 1984-2014 | M8 | IFS-M-201911 |
|  |  | ENIGHNS | 2016-2018 | M8 | IFS-M-201911 |
| MKD | North Macedonia | HBS | 1998-2008 | Y | IFS-M-201911 |


|  |  | SILC-C | 2010-2018 | (prev. year) Y | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MLI | Mali | EMCES | 1994 | Y | IFS-A-201911 |
|  |  | EMEP | 2001 | W | IFS-M-201911 |
|  |  | ELIM | 2006 | Y | IFS-M-201911 |
|  |  |  | 2009 | W | IFS-M-201911 |
| MLT | Malta | EU-SILC | ALL | (prev. year) Y | IFS-M-201911 |
| MMR | Myanmar | MPLCS | 2015 | M1 | IFS-M-201911 |
|  |  | MLCS | 2017 | Q1 | IFS-M-201911 |
| MNE | Montenegro | HBS | 2005-2014 | Y | IFS-M-201911 |
|  |  | SILC-C | 2013-2016 | (prev. year) Y | IFS-M-201911 |
| MNG | Mongolia | LSMS | 1995-1998 | Y | IFS-M-201911 |
|  |  | LFS | 2002 | Y | IFS-M-201911 |
|  |  | LSS | 2007 | W | IFS-M-201911 |
|  |  | HSES | 2010-2018 | Y | IFS-M-201911 |
| MOZ | Mozambique | NHS | 1996 | W | WEO-A-201910 |
|  |  | IAF | 2002 | W | WEO-A-201910 |
|  |  | IOF | 2008-2014 | W | WEO-A-201910 |
| MRT | Mauritania | EPCV | 1987 | Y | IFS-M-201911 |
|  |  | EP | 1993 | Y | IFS-M-201911 |
|  |  | EPCV | 1995 | W | IFS-M-201911 |
|  |  |  | 2000-2014 | Y | IFS-M-201911 |
| MUS | Mauritius | HBS | 2006 | W | IFS-M-201911 |
|  |  |  | 2012-2017 | Y | IFS-M-201911 |
| MWI | Malawi | IHS-I | 1997 | W | IFS-M-201911 |
|  |  | IHS-II | 2004 | W | Survey |
|  |  | IHS-III | 2010 | W | Survey |
|  |  | IHS-IV | 2016 | M04 | Survey |
| MYS | Malaysia | HIS | 1984-2007 | Y | IFS-M-201911 |
|  |  |  | 2009 | W | IFS-M-201911 |
|  |  |  | 2012-2014 | Y | IFS-M-201911 |
|  |  |  | 2016 | W | IFS-M-201911 |
| NAM | Namibia | NHIES | 1993 | W | WEO-A-201910 |
|  |  |  | 2003-2015 | W | IFS-M-201911 |
| NER | Niger | ENBCM | 1992-2007 | W | IFS-M-201911 |
|  |  | EPCES | 1994 | W | IFS-M-201911 |
|  |  | ENCVM | 2005 | Y | IFS-M-201911 |
|  |  | ECVMA | 2011-2014 | Y | IFS-M-201911 |
| NGA | Nigeria | NCS | 1985 | W | IFS-M-201911 |
|  |  |  | 1992-1996 | Y | IFS-M-201911 |
|  |  | LSS | 2003-2009 | W | IFS-M-201911 |


|  |  |  | 2018 | (next year) M3-(next year) M4 | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| NIC | Nicaragua | EMNV | 1993 | M2 | NSO |
|  |  |  | 1998 | M6 | NSO |
|  |  |  | 2001 | M6 | IFS-M-201911 |
|  |  |  | 2005-2009 | M8 | IFS-M-201911 |
|  |  |  | 2014 | M8-M10 | IFS-M-201911 |
| NLD | Netherlands | AVO-LIS | 1983-1990 | Y | IFS-M-201911 |
|  |  | SEP-LIS | 1993-1999 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| NOR | Norway | IDS-LIS | 1979-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| NPL | Nepal | MHBS | 1984 | W | IFS-M-201911 |
|  |  | LSS-I | 1995 | W | IFS-M-201911 |
|  |  | LSS-II | 2003 | W | IFS-M-201911 |
|  |  | LSS-III | 2010 | W | IFS-M-201911 |
| PAK | Pakistan | HIES | 1987 | Y | IFS-M-201911 |
|  |  |  | 1990-1998 | W | IFS-M-201911 |
|  |  | IHS2 | 1996 | W | IFS-M-201911 |
|  |  | PIHS | 2001 | W | IFS-M-201911 |
|  |  | PSLM | 2004-2015 | W | IFS-M-201911 |
| PAN | Panama | EMO | 1979-1989 | Y | IFS-M-201911 |
|  |  |  | 1991 | M7 | IFS-M-201911 |
|  |  | EH | 1995-2018 | M7 | IFS-M-201911 |
| PER | Peru | ENNIV |  |  | IFS-M-201911 |
|  |  |  | $1994$ | Y | IFS-M-201911 |
|  |  | ENAHO | 1997-2002 | Q4 | IFS-M-201911 |
|  |  |  | 2003 | M5-M12 | IFS-M-201911 |
|  |  |  | 2004-2018 | Y | IFS-M-201911 |
| PHL | Philippines | FIES | All | Y | IFS-M-201911 |
| PNG | Papua New Guinea | HIES |  |  | IFS-A-201911 |
|  |  |  | 2009 | W | IFS-A-201911 |
| POL | Poland | HBS | 1985-1987 | Y | IFS-A-201911 |
|  |  | HBS-LIS | 1986 | Y | IFS-A-201911 |
|  |  | HBS | 1989-2016 | Y | IFS-M-201911 |
|  |  | HBS-LIS | 1992-1999 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| PRT | Portugal | EU-SILC | All | (prev. year) Y | IFS-M-201911 |
| PRY | Paraguay | EH |  | M7 | IFS-M-201911 |
|  |  |  | 1995 | M8-M11 | IFS-M-201911 |


|  |  | EIH | 1997 | (next year) M2 | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | EPH | 1999 | M9 | IFS-M-201911 |
|  |  | EIH | 2001 | M3 | IFS-M-201911 |
|  |  |  | 2002 | M11 | IFS-M-201911 |
|  |  |  | 2003 | M9 | IFS-M-201911 |
|  |  |  | 2004 | M10 | IFS-M-201911 |
|  |  | EPH | 2005 | M11 | IFS-M-201911 |
|  |  | EPH | 2006 | M12 | IFS-M-201911 |
|  |  |  | 2007-2008 | M10 | IFS-M-201911 |
|  |  |  | 2009 | M11 | IFS-M-201911 |
|  |  |  | 2010-2018 | M10 | IFS-M-201911 |
| PSE | West Bank and Gaza | PECS | 2004-2011 | Y | IFS-M-201911 |
| PSE | West Bank and Gaza | PECS | 2016 | W | IFS-M-201911 |
|  |  | HBS | 1989 | Y | Milanovic (1998) |
|  |  | MC | 1992 | Y | IFS-M-201911 |
|  |  | HIS | 1994 | Y | IFS-M-201911 |
| ROU | Romania | IHS-LIS | 1995-1997 | Y | IFS-M-201911 |
|  |  | IHS | 1998-2000 | Y | IFS-M-201911 |
|  |  | HBS | 1999-2016 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2007-2018 | (prev. year) Y | IFS-M-201911 |
|  |  | RLMS | 1988 | Y | Previous WDI/IFS |
| RUS | Russian Federation | HBS | 1993-2018 | Y | IFS-M-201911 |
|  |  | RLMS | 2001 | Y | IFS-M-201911 |
|  |  | ENBCM | 1984 | W | IFS-M-201911 |
|  |  | EICV-I | 2000 | W | IFS-M-201911 |
|  |  | EICV-II | 2005 | W | IFS-M-201911 |
| RWA | Rwanda | EICV-III | 2010 | (next year) <br> M1 | IFS-M-201911 |
|  |  | EICV-IV | 2013 | $\begin{aligned} & \text { (next year) } \\ & \text { M1 } \end{aligned}$ | IFS-M-201911 |
|  |  | EICV-V | 2016 | (next year) <br> M1 | IFS-M-201911 |
| SDN | Sudan | NBHS | 2009 | Y | IFS-M-201911 |
|  |  |  | 2014 | M11 | IFS-M-201911 |
|  |  | EP | 1991 | W | IFS-M-201911 |
|  |  | ESAM | 1994 | W | IFS-M-201911 |
| SEN | Senegal | ESAM-II | 2001 | Y | IFS-M-201911 |
|  |  | ESPS-I | 2005 | W | IFS-M-201911 |
|  |  | ESPS-II | 2011 | W | IFS-M-201911 |
| SLB | Solomon Islands | HIES | All | Y | IFS-M-201911 |
| SLE | Sierra Leone | HEEAS | 1989 | W | WEO-A-201910 |
|  |  | SLIHS | 2003 | W | WEO-A-201910 |


|  |  |  | 2011-2018 | Y | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| SLV | El Salvador | EHPM | 1989 | Y | IFS-M-201911 |
|  |  |  | 1991 | $\begin{aligned} & \text { M10-(next } \\ & \text { year) M4 } \end{aligned}$ | IFS-M-201911 |
|  |  |  | 1995-1999 | Y | IFS-M-201911 |
|  |  |  | 2000-2007 | M12 | IFS-M-201911 |
|  |  |  | 2008-2018 | M11 | IFS-M-201911 |
| SRB | Serbia | LSMS | 2002 | Y | IFS-M-201911 |
|  |  | HBS | 2003-2018 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2013-2018 | (prev. year) Y | IFS-M-201911 |
| SSD | South Sudan | NBHS | 2009 | Y | IFS-M-201911 |
| STP | São Tomé and Principe | IOF | 2000 | W | IFS-M-201911 |
|  |  |  | 2010-2017 | Y | IFS-M-201911 |
| SUR | Suriname | EHS | 1999 | Y | IFS-M-201911 |
| SVK | Slovak Republic | MC-LIS | 1992-1996 | Y | IFS-M-201911 |
|  |  | HBS | 2004-2009 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2017 | (prev. year) Y | IFS-M-201911 |
| SVN | Slovenia | IES | 1987-1993 | Y | IFS-M-201911 |
|  |  | HBS-LIS | 1997-1999 | Y | IFS-M-201911 |
|  |  | HBS | 1998-2003 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2005-2018 | (prev. year) Y | IFS-M-201911 |
| SWE | Sweden | LLS-RD-LIS | 1967 | Y | IFS-M-201911 |
|  |  | HIS-LIS | 1975-2000 | Y | IFS-M-201911 |
|  |  | EU-SILC | 2004-2018 | (prev. year) Y | IFS-M-201911 |
| SWZ | Eswatini | HIES | 1994-2000 | W | IFS-M-201911 |
|  |  |  | 2001 | Y | IFS-M-201911 |
|  |  |  | 2009-2016 | W | IFS-M-201911 |
| SYC | Seychelles | HES | 1999 | W | IFS-M-201911 |
|  |  | HBS | 2006 | W | IFS-M-201911 |
|  |  |  | 2013 | Y | IFS-M-201911 |
| SYR | Syrian Arab Republic | HBS | 2004 | Y | IFS-M-201911 |
| TCD | Chad | ECOSIT-II | 2003 | Y | IFS-M-201911 |
|  |  | ECOSIT-III | 2011 | Y | IFS-M-201911 |
| TGO | Togo | QUIBB | All | Y | IFS-M-201911 |
| THA | Thailand | SES | All | Y | IFS-M-201911 |
| TJK | Tajikistan | TLSS | 1999 | Y | WEO-A-201910 |
|  |  |  | 2003-2007 | Y | Survey |
|  |  | HBS | 2004 | Y | Survey |
|  |  | TLSS | 2009 | Y | IFS-M-201911 |
|  |  | HSITAFIEN | 2015 | Y | IFS-M-201911 |
| TKM | Turkmenistan | LSMS | 1998 | Y | WEO-A-201910 |
| TLS | Timor-Leste | TLSS | 2001 | Y | WEO-A-201910 |


|  |  | TLSLS | 2007-2014 | Y | IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| TON | Tonga | HIES | All | Y | IFS-M-201911 |
| TTO | Trinidad and Tobago | SLC | 1988 | Y | IFS-M-201911 |
|  |  | PHC | 1992 | Y | IFS-M-201911 |
| TUN | Tunisia | HBCS | 1985 | Y | IFS-A-201911 |
|  |  |  | 1990 | Y | IFS-M-201911 |
|  |  | LSS | 1995-2000 | Y | IFS-M-201911 |
|  |  | NSHBCSL | 2005-2015 | W | IFS-M-201911 |
| TUR | Turkey | HICES | All | Y | IFS-M-201911 |
| TUV | Tuvalu | HIES | 2010 | Y | WEO-A-201910 |
| TWN | Taiwan, China | FIDES-LIS | All | Y | WEO-A-201910 |
| TZA | Tanzania | HBS | 1991 | W | IFS-A-201911 |
|  |  |  | 2000 | W | IFS-M-201911 |
|  |  |  | 2007 | Y | IFS-M-201911 |
|  |  |  | 2011-2018 | W | IFS-M-201911 |
| UGA | Uganda | HBS | 1989 | Y | WEO-A-201910 |
|  |  | NIHS | $1992$ | W | WEO-A-201910 |
|  |  |  | 1996-1999 | W | IFS-M-201911 |
|  |  | UNHS | 2002-2016 | W | IFS-M-201911 |
| UKR | Ukraine | HS | 1988 | Y | Previous WDI/IFS |
|  |  |  | 1992-1993 | Y | IFS-M-201911 |
|  |  | HIES | 1995-1996 | Y | IFS-M-201911 |
|  |  | HBS | 1999 | Y | IFS-M-201911 |
|  |  | HLCS | 2002-2018 | Y | IFS-M-201911 |
| URY | Uruguay | ENH | 1981-1989 | Y | IFS-M-201911 |
|  | Uruguay - urban | ECH | 1992-2005 | $\begin{aligned} & \text { (prev. year) } \\ & \text { M12 } \end{aligned}$ | IFS-M-201911 |
|  | Uruguay | ECH | 2006-2018 | $\begin{aligned} & \text { (prev. year) } \\ & \text { M12 } \end{aligned}$ | IFS-M-201911 |
| USA | United States | CPS-LIS | 1974-2000 | Y | IFS-M-201911 |
|  |  | CPS-ASEC-LIS | 2004-2018 | Y | IFS-M-201911 |
| UZB | Uzbekistan | HBS | All | Y | WEO-A-201910 |
| VEN | Venezuela, RB | EHM | 1981-1989 | Y | NSO |
|  |  |  | 1992-2006 | M12 | NSO |
| VNM | Vietnam | VLSS |  |  |  |
|  |  |  | 1998 | W | IFS-M-201911 |
|  |  | VHLSS | 2002-2018 | M1 | IFS-M-201911 |
| VUT | Vanuatu | HIES | 2010 | Y | IFS-A-201911 |
| WSM | Samoa | HIES | 2002-2008 | Y | IFS-M-201911 |
|  |  |  | 2013 | W | IFS-M-201911 |
| XKX | Kosovo | HBS | All | Y | IFS-M-201911 |
| YEM | Yemen, Rep. | HBS | 1998 | Y | IFS-M-201911 |


|  |  |  | $\begin{aligned} & 2005 \\ & 2014 \end{aligned}$ | $\begin{aligned} & \mathrm{W} \\ & \mathrm{Y} \end{aligned}$ | IFS-M-201911 <br> IFS-M-201911 |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
| ZAF | South Africa | KIDS | 1993 | Y | IFS-M-201911 |
|  |  | HIES | 1996 | Y | IFS-M-201911 |
|  |  |  | 2000 | W | IFS-M-201911 |
|  |  | IES | 2005-2010 | $\begin{aligned} & \text { (next year) } \\ & \text { M6 } \end{aligned}$ | IFS-M-201911 |
|  |  | LCS | 2008 | W | IFS-M-201911 |
|  |  |  | 2014 | (next year) M6 | IFS-M-201911 |
| ZMB | Zambia | HBS | 1991-1993 | Y | IFS-M-201911 |
|  |  | LCMS-I | 1996 | Y | IFS-M-201911 |
|  |  | LCMS-II | 1998 | Y | IFS-M-201911 |
|  |  | LCMSIII | 2002 | W | IFS-M-201911 |
|  |  | LCMS-IV | 2004 | W | IFS-M-201911 |
|  |  | LCMS-V | 2006 | W | IFS-M-201911 |
|  |  | LCMS-VI | 2010 | Y | IFS-M-201911 |
|  |  | LCMS-VII | 2015 | Y | IFS-M-201911 |
| ZWE | Zimbabwe | ICES | 2011 | Y | IFS-M-201911 |
|  |  | PICES | 2017 | Y | IFS-M-201911 |

## C. Appendix 3 - Gini coefficients

Table A3.1. Estimates of Gini coefficient

| Country | Year | Gini (\%) <br> Mar 2020 | Gini (\%) <br> Sept 2020 | Difference (pp) |
| :--- | :---: | :---: | :---: | :---: |
| India | 1993 | 32.71 | 31.70 | -1.01 |
| India | 2004 | 36.83 | 34.41 | -2.43 |
| India | 2009 | 37.51 | 35.38 | -2.13 |
| India | 2011 | 37.83 | 35.71 | -2.12 |
| Indonesia | 1993 | 31.96 | 32.02 | 0.05 |
| Indonesia | 1996 | 34.41 | 34.47 | 0.06 |
| Indonesia | 1998 | 31.07 | 31.12 | 0.05 |
| Indonesia | 1999 | 31.03 | 31.08 | 0.05 |
| Indonesia | 2000 | 30.25 | 28.58 | -1.67 |
| Indonesia | 2001 | 30.89 | 29.03 | -1.87 |
| Indonesia | 2002 | 33.77 | 31.72 | -2.04 |
| Indonesia | 2003 | 33.96 | 31.90 | -2.06 |
| Indonesia | 2004 | 34.78 | 32.74 | -2.03 |
| Indonesia | 2005 | 34.92 | 33.02 | -1.90 |
| Indonesia | 2006 | 36.15 | 34.29 | -1.86 |
| Indonesia | 2007 | 37.47 | 35.70 | -1.77 |
| Indonesia | 2008 | 36.83 | 35.15 | -1.67 |
| Indonesia | 2009 | 36.74 | 35.11 | -1.64 |
| Indonesia | 2010 | 37.88 | 36.41 | -1.47 |
| Indonesia | 2011 | 41.08 | 39.73 | -1.36 |
| Indonesia | 2012 | 41.12 | 39.68 | -1.44 |
| Indonesia | 2013 | 41.47 | 39.97 | -1.50 |
| Indonesia | 2014 | 40.82 | 39.42 | -1.39 |
| Indonesia | 2015 | 40.98 | 39.73 | -1.25 |
| Indonesia | 2016 | 39.90 | 38.60 | -1.30 |
| Indonesia | 2017 | 39.37 | 38.11 | -1.27 |
| Indonesia | 2018 | 38.97 | 37.77 | -1.19 |
| In |  |  |  |  |

Source: PovcalNet
Note: This table shows the Gini coefficients (\%) in the March 2020 and September 2020 PovcalNet updates as well as the differences. Small differences less than 0.01 pp are not shown in this table.

## D. Appendix 4 - National accounts data sources

## Legend for Tables A4.1 and A4.2

Code - World Bank economy/country code Sources
Sources
M - Madison Project Dataset
W - World Development Indicators, May 2020
S - Special Country Series
Coverage
N - National
U - Urban
R - Rural

# Table A4.1. Gross Domestic Product (GDP) per capita 



Code
AGO N
S S S S
ALB N WWWWWWWWWWWWWWWWWWW
ARE N ARG N W W W W W W W W W W W W W W W W W W W ARM N W
AUS N WWWWWW W W W W W W W W W W W W W AUT N WW WW WW W W W W W WW W W W W W W

AZE N
W
BDI N WWWWWWWWWWWWWWWWWWW BEL N WWWWWWWWWWWWWWWWWWW BEN N W W W W W W W W W W W W W W W W W W W BFA N WWWWWWWWWWWWWWWWWWW BGD N WW WWWWWWWWWWWWWWWWW BGR N W W W W W W W W W W W W W W W W W W W BIH N WWWWWWWWWWWWWWWWWWW BLR N W
BLZ N WWWWWWWWWWWWWWWWWWW BOL N WWWWWWWWWWWWWWWWWWW BRA N W W W W W W W W W W W W W W W W W W W BTN N
BWA N WWWWWWWWWWWWWWWWWW W CAF N WWWWWWWWWWWWWWWWWWW CAN N WW WWWW WW WWWWWW WW WW W CHE N WWWWWWWWWWWWWW WWWWW CHL N WW WW WW W W W W W W W W W W W W W CHN N W W W W W W W W W W W W W W W W W W W CHN R WWWWWWWWWWWWWWWWWW W CHN U WW WW W W W W W W WW WW W W W W W CIV N WWWWWWWWWWWWWWWWWWW CMR N W W W W W W W W W W W W W W W W W W W COD N W W W W W W W W W W W W W W W W W W W COG N W W W W W W W W W W W W W W W W W W W COL N WWWWWWWWW WWWWWWWWW W COM N W W W W W W W W W W W W W W W w w w w CPV N WW WW W W W W W W WW WW W W W W W CRI N WWWWWWWWWWWWWWWWWWW CYP N WW WWWWWW WW WWWW WW WW W CZE N

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DEU N WWWWWWWWWWWWWWWWWWW DJI N WWWWWWWW W W W W W W W W W W W DNK N WW WW W W W W W W W W W W W W W W w DOM N W W W W W W W W W W W W W W W W W W W DZA N WW WWWWW W W W W W WW W W W W W ECU N W W W W W W W W W W W W W W W W W W W EGY N WW WW W W W W W W W W W W W W W W W ESP N WWWWWWWWWWWWWWWWWWW EST N W
ETH N W W W W W W W W W W W W W W W W W W W FIN N WWWWWWWWWWWWWWWWWWW FJI N WWWWWWWWWWWWWWWWWWW FRA N WWWWWWWWWWWWWWWWWWW FSM N
GAB N WW WWWWW W W W W W WW W W W W W GBR N W W W W W W W W W W W W W W W W W W W GEO N W W W W W W W W W W W W W W GHA N WWWWWWWW W W W W W W W W W W W GIN N WWWWWWWWWWWWWWWWWWW GMB N WW WWWWW W W W W W W W W W W W W GNB N WWWWWWWWWWWWWWWWWWW GRC N W W W W W W W W W W W W W W W W W W W GTM N W W W W W W W W W W W W W W W W W W W GUY N WWWWWWWWWWWWWWWWWWW HND N WW WWWWWWW WWWWWWWWW W HRV N W W W W W W W W W W W W W W W W W W W HTI N WWWWWWWWWWWWWWWWWWW HUN N W W W W W W W W W W W W W W W W W W W IDN N W W W W W W W W W W W W W W W W W W W IDN R WWWWWWWWWWWWWWWWWWW IDN U WWWWWWWWWWWWWWWWWWW IND N WWWWWWWWWWWWWWWWWWW IND R WWWWWWWWWWWWWWWWWWW


 W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W

W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W W

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# Table A4.2. Household Final Consumption Expenditures (HFCE) per capita 



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[^0]:    ${ }^{1}$ Even though the estimates for South Asia are not shown in Table 1, they are included in the total for the World.

[^1]:    ${ }^{2}$ The updated national accounts data excludes recent data for Venezuela, so it cannot be lined-up to 2018. Without a lined-up poverty estimate, like any missing country, Venezuela is assigned the regional poverty rate, which is lower than the lined-up estimate from the March 2020 update.
    ${ }^{3}$ Table 2 reports the net effect of several changes to the underlying data. For example, the revisions to the 2011 PPPs by themselves increased the poverty rate in Sub-Saharan Africa, but this was offset by the new Nigeria survey.

[^2]:    ${ }^{4}$ China, for example, has income-based poverty estimates at and before 1987 and consumption-based estimates from 1990 onwards. The 1990 estimate has a higher poverty rate at $\$ 1.90$ than the 1987 estimate. PovcalNet does not interpolate between income and consumption-based estimates but rather extrapolates from the nearest survey. In this case, this means that the 1988 lined-up estimate is based on forward-extrapolated 1987 income estimate while the 1989 lined-up estimate is based on the backwards extrapolated consumption estimate. This creates a sharp break in the lined-up estimates, which is visible in the regional East Asia and Pacific poverty rates. Though this break was also apparent before, the introduction of lined-up estimates for 1987 and 1988 makes it more salient.

[^3]:    ${ }^{5}$ The old rule has often been communicated as including surveys within 2 years either side of a line-up year. In practice, however, surveys that span two years were included even if only a small share of the survey actually fell within the two-year window. Surveys that span two years are reported in PovcalNet with a decimal year, with the decimals indicating the share of the survey conducted in the second year. For example, the 2012.25 survey for Lao PDR means that $75 \%$ of the survey was conducted in 2012 and $25 \%$ in 2013 . Similarly, for the 2017.92 survey in Tanzania, $8 \%$ of the survey was conducted in 2017 and $92 \%$ of the survey in 2018 . Under the old rule, both these surveys are included in the 2015 reference year. In other words, the old rule included surveys for 2015 as long as the survey year was less than 2018 and greater than 2012.

[^4]:    ${ }^{6}$ In 2017, more than $93 \%$ of the extreme global poor lived in low and lower-middle income countries. An alternative requirement would have been to compute the population coverage of the countries with the most poor. However, this would have created a certain circularity, since the objective of this rule is to assess whether the population coverage is sufficient to estimate which countries these are.
    ${ }^{7}$ It does not make sense to apply this rule at the regional level, since some regions have only few LIC/LMIC countries that account for a small share of the regional population. For example, in Latin America, currently, the only LIC/LMIC countries are Bolivia, El Salvador, Haiti, Honduras and Nicaragua. These countries account for around 7\% of the regional population.
    ${ }^{8}$ For details on income classification, see the World Bank's classification of countries by income (Fantom \& Serajuddin, 2016).
    ${ }^{9}$ For example, East Asia accounted for around two-fifths of global poverty in the late-1990s compared with around 4 percent in 2017. China, which has been an important contributor to this change, has since then left the group of LIC/LMIC countries.

[^5]:    ${ }^{10}$ The implied fraction of household final consumption expenditure (HFCE) per capita growth that is passed through to growth in the survey mean is $69.9 \%$ for rural India and $55.1 \%$ for urban India from 2011/12 to 2014/15.

[^6]:    ${ }^{11}$ Alternatively, Borno state could have been treated as a missing country, in which case it would have been assigned the regional (i.e., Sub-Saharan African) poverty rate for the purposes of the global aggregation. Our approach thus assumes that the Nigerian national poverty rate is a better predictor for Borno state than the Sub-Saharan regional poverty rate.
    ${ }^{12}$ Using the national poverty line, the Nigerian National Bureau of Statistics reports a poverty estimate of $40.1 \%$ (including a spatial price deflation).

[^7]:    ${ }^{13}$ Lakner et al. (2020) show that using a machine learning method finds significant differences in terms of passthrough rates between consumption and income surveys.

[^8]:    ${ }^{14}$ This does not affect the national estimates of poverty or the mean. The new estimates for the Gini are very close to the estimates in the September 2019 vintage.

