



REPUBLIC OF THE PHILIPPINES

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PHILIPPINE STATISTICS AUTHORITY

**PSA Board Resolution No. 12  
Series of 2015**

**ADOPTING THE METHODOLOGY FOR INTERIM POPULATION ESTIMATES  
FOR CITIES AND MUNICIPALITIES FOR YEARS 2015 TO 2020**

**WHEREAS**, there is an urgent need to prepare population estimates at the city/municipality level to respond to requests for such data from various users while the data on population by city/municipality from the 2015 Census of Population (POPCEN 2015) are not yet available;

**WHEREAS**, the conduct of POPCEN 2015 started in 10 August 2015 and is still on-going in the National Capital Region, and highly urbanized cities (HUCs);

**WHEREAS**, the generation of census-based population projections is one of the designated statistical activities;

**WHEREAS**, the Philippine Statistics Authority (PSA), through the Inter-Agency Working Group on Population Projections (IAWGPP) established on 11 March 2013, formulated the methodology proposed to be used in preparing interim population estimates at the city/municipality level for years 2015 to 2020, and submitted the same for review by the Technical Committee on Population and Housing Statistics (TCPHS) on 29 September 2015;

**WHEREAS**, the methodology for interim estimates of population for cities and municipalities for years 2015 to 2020, which is provided in Annex BR-12-20150930-01 is based on population growth rates of cities and municipalities during the period 2000-2010 computed based on census population data from the 2000 and 2010 censuses, adjusted to conform with the official regional population projections;

**WHEREAS**, the TCPHS has endorsed the methodology for the generation of the interim population estimates of cities and municipalities for approval by the Board;

**WHEREAS**, these interim estimates will be updated using data on population by province, and city/municipality from the POPCEN 2015;

**NOW, THEREFORE, BE IT RESOLVED**, that the Board approves for adoption by all concerned the methodology for interim population estimates for cities and municipalities for years 2015 to 2020.

**RESOLVED FURTHER:**

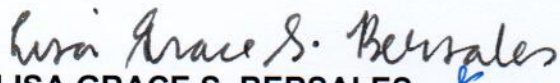
That the interim population estimates for cities and municipalities for years 2015 to 2020, to be released by the PSA, be hereby endorsed as official estimates until the data on population by barangay from the POPCEN 2015 are published.

Approved this 30<sup>th</sup> day of September 2015, in Pasig City.



**ARSENIO M. BALISACAN**  
PSA Board Chairperson  
Socio-economic Planning Secretary and  
Director General, NEDA

Attested by:



**LISA GRACE S. BERSALES**  
National Statistician and Civil Registrar General  
Chairperson, PSA Board Secretariat

## Brief Description of the Methodology for the Interim Population Estimates of Cities and Municipalities for Years 2015 to 2020

### Data Inputs

1. 2000 – 2010 population growth rate, by city/ municipality
2. 2010 population by city/municipality from the 2010 Census of Population and Housing
3. 2010 Census of Population and Housing-based regional population projections for years 2015 to 2020

### Methodology

1. Compute the mid-year population estimate for a city/municipality for each projection period, using the average annual population growth rate of the city/municipality, using the following formula:

$$PGRbased P_{t+n,city / mun} = P_{t,city / mun} \times (1 + r_{city / mun})^n$$

where	$t =$	year 2010
	$P_{t,city/mun} =$	city/municipality population in year 2010
	$PGRbased P_{t+n,city/mun} =$	city/municipality population at time $n$ years after 2010
	$r_{city/mun} =$	average annual population growth rate of city/municipality for the period 2000-2010
	$n =$	number of years after 2010

2. Adjust the population estimate for each city/ municipality for each projection year such that the sum of the estimated population of all cities and municipalities within the region will equal to the official projected population for the region. Use the following to effect the adjustment:

$$adjusted P_{t+n,city / mun} = PGRbased P_{t+n,city / mun} \times k$$

$$k = \frac{\text{projected } P_{t+n,region}}{\sum_{\text{for all city/mun within the region}} PGRbased P_{t+n,city / mun}}$$

to