LABOR ECONOMICS
Basic Definitions

Occupied population (E):
People working

Unemployed population (U):
People looking for job but not occupied

Inactive population (I):
People not occupied neither looking for a job

Active Age Population AAP (PIA):
Population with working age. Depends on the definition, but normally correspond to a population between 15 and 65 years old, sometimes above 10 years old as PNAD and PME questionnaire.
It can also exclude people in jail and in the army.
Corresponds to the sum of the occupied + unemployed = (E + U + I)

Economically Active Population EAP (PEA)
People within the labor market
Corresponds to the sum of the occupied + unemployed (E + U)

Participation Rate(1): (PEA) / (PIA) = (E + U) / (E + U + I)

Unemployment Rate(1-e): (Unemployed population) / (PEA) = (U) / (E + U)

Occupation Rate in PEA: (Occupied population) / (PEA) = (E) / (E + U)

Relation between indicators:

# Occupied = Occupation R. X Participation R. X Active Age Population
(E / (E + U))X(E / (E + U + I))X(E + U + I) = E

At the household level...
per capita Income = Participation R. X Occupation R. X Working Hours X Earnings¹

lX(e / l)X(h / e)X(y / h) = y

Labor Earnings Mass: (# occupied) X (hourly wages X working hours)
Per capita Labor earnings: (R$ labor earnings) / (population)
Productivity: (per capita Income) / (working hours)

¹ Wages = Productivity
Importance of Alternative Income Sources other than Labor

TOTAL INCOME

TOTAL INCOME LABOR EARNINGS

HOURLY WAGE EDUCATION

EDUCATION WORKING TIME OCCUPIED PEA PEA in PIA

INCOME POLICIES

PRODUCTIVITY

WORK EFFORT

Annual Variation Rate (%)
2015 / 2016

Annual Variation Rate (%)
2016 / 2017

Income from all jobs Hourly-wage by education Education Working time Occupied in PEA PEA in PIA

Demographic Bonus

PIA POP

EDU EDUCATION JORNADA WORKING TIME OCUP PEA OCCUPIED PEA PEA POP PIA

 Levels of Education Years of Schooling Weekly Hours Occupation Rate Participation Rate

Importance of Alternative Income Sources other than Labor

TOTAL INCOME

TOTAL INCOME LABOR EARNINGS

HOURLY WAGE EDUCATION

EDUCATION WORKING TIME OCCUPIED PEA PEA in PIA

INCOME POLICIES

PRODUCTIVITY

WORK EFFORT

Annual Variation Rate (%)
2015 / 2016

Annual Variation Rate (%)
2016 / 2017
Variation Rate (%)  
2014.4 / 2018.4  
Total Population

Variation Rate (%)  
2015 to 2018  
By Position in the Family
Variation Rate (%)  
2015 / 2018  
Youth 15-29

Total Earnings = Hourly-wage by education  
Occupied in EAP  
EAP in AAP  
Working time  
Occupied in EAP  
EAP in AAP  
Unemployment Effect  
Participation Effect

Variation Rate (%)  
2015 / 2018  
Youth 15-29

Total Earnings = Hourly-wage by education  
Occupied in EAP  
EAP in AAP  
Working time  
Occupied in EAP  
EAP in AAP  
Unemployment Effect  
Participation Effect

Southeast  
Northeast

Variation Rate (%)  
2015 / 2018  
Youth 15-29

Total Earnings = Hourly-wage by education  
Occupied in EAP  
EAP in AAP  
Working time  
Occupied in EAP  
EAP in AAP  
Unemployment Effect  
Participation Effect

Southeast  
Northeast