

January, 30th 2017

Monthly Employment and Unemployment Estimates

December 2016

The November 2016 unemployment rate was 10.5%

The November 2016 unemployment rate stood at 10.5%, down by 0.1 percentage points (p.p.) from the previous month's level and by 0.4 p.p. from three months before. That value is identical to the provisional estimate released one month ago (10.5%). That estimate is also the lowest observed since April 2009 (10.3%).

The November unemployed population was estimated at 537.7 thousand people, having decreased by 1.3% from the previous month's level (7.2 thousand fewer people), while the employed population was estimated at 4,581.4 thousand people, remaining practically unchanged from the previous month's level.

The provisional unemployment rate estimate for December 2016 was 10.2%. For this month, the provisional estimate for the unemployed population was 519.5 thousand people and for the employed population was 4,587.1 thousand people.

Monthly Employment and Unemployment Estimates							
Main indicators							
	Unit	Seasonally adjusted data					
		Dec 2015	Aug 2016	Sep 2016	Oct 2016	Nov 2016	Dec 2016 (p)
Employed population (15 to 74)	Thousands	4,485.2	4,572.2	4,567.3	4,580.6	4,581.4	4,587.1
Unemployed population (15 to 74)		622.3	559.0	557.1	544.9	537.7	519.5
Employment rate (15 to 74)		57.4	58.6	58.6	58.8	58.8	58.9
Unemployment rate (15 to 74)	%	12.2	10.9	10.9	10.6	10.5	10.2
Youth unemployment rate (15 to 24)		30.3	26.7	28.6	27.7	27.2	26.4
Adults' unemployment rate (25 to 74)		10.8	9.7	9.5	9.3	9.2	8.9

Source: Statistics Portugal, Labour Force Survey.

Note: (p) - Provisional estimates.

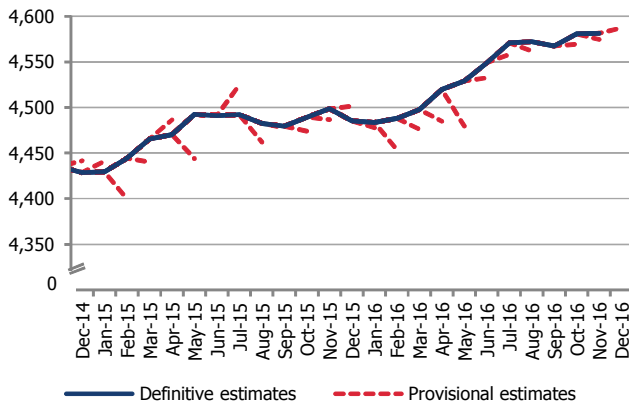
1. Employed population and employment rate ⁽¹⁾

In November 2016, the employed population was estimated at 4,581.4 thousand people, remaining practically unchanged from the previous month (October 2016) and having increased by 0.2% (9.2 thousand) from three months before (August 2016). That value was revised upwards, from the provisional one released a month ago, by 0.2% (7.0 thousand).

In December 2016, the provisional estimate for the employed population was 4,587.1 thousand people, having increased by 0.1% (5.7 thousand) from the previous month (November 2016) and by 0.4% (19.8 thousand) from three months before (September 2016).

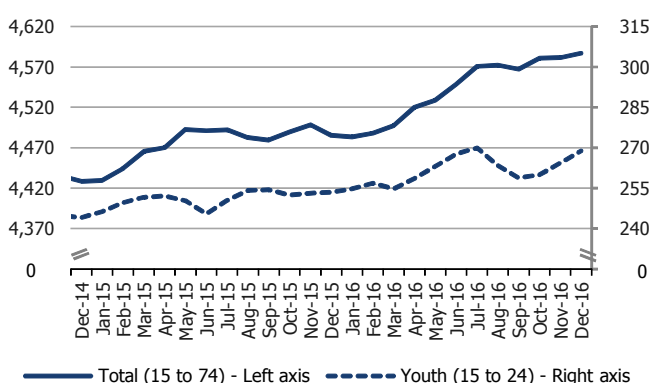
⁽¹⁾ In the estimates published on this Press Release, obtained as described in the technical note (annex), it was considered the population aged 15 to 74 and the values were seasonally adjusted (unless otherwise stated).

Figure 1: Employed population - definitive and provisional estimates
(seasonally adjusted data; thousands)



Still in December 2016, and comparing to the previous month, the employed population increased for men (0.5%; 11.5 thousand), young people (15 to 24 years old) (1.7%; 4.4 thousand), and adults (25 to 74 years old) (1.3 thousand, which corresponds to a nearly null relative change). The women's employed population decreased by 0.3% (5.9 thousand) from the former month.

Figure 2: Total and youth employed population
(seasonally adjusted data; thousands)



The employment rate stood at 58.9%, having increased by 0.1 percentage points (p.p.) from the previous

month's level and by 0.3 p.p. from three months before.

The employment rate of men (62.9%) exceeded that of women (55.2%) by 7.7 p.p.. When comparing to the previous month's value, the former increased by 0.3 p.p. and the latter decreased by 0.1 p.p..

The employment rate of adults was 64.5%, up 0.1 p.p. from the previous month's level. The employment rate of young people was 24.6% and increased by 0.4 p.p. from the month before.

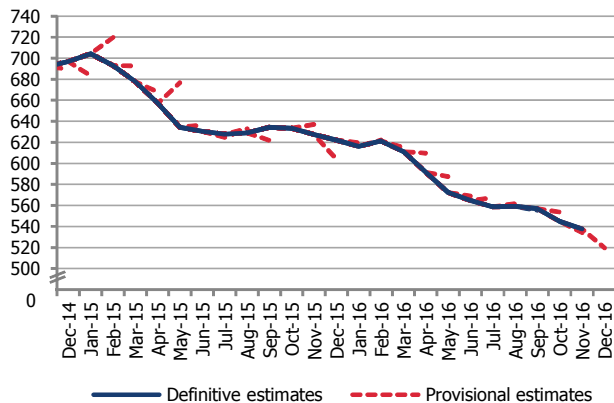
2. Unemployed population and unemployment rate

In November 2016, the unemployed population was estimated at 537.7 thousand people, having decreased by 1.3% (7.2 thousand) from October 2016 and by 3.8% (21.3 thousand) from August 2016. That value was revised upwards by 0.6% (3.4 thousand).

In December 2016, the provisional estimate for the unemployed population was 519.5 thousand people, less 3.4% (18.2 thousand) than the value observed in the previous month (November 2016) and less 6.7% (37.6 thousand) than the one from three months before (September 2016).

Also in December 2016, the unemployed population monthly decreased for all groups under analysis: adults (3.6%; 15.6 thousand); men (4.2%; 11.6 thousand); women (2.5%; 6.5 thousand); and young people (2.6%; 2.6 thousand).

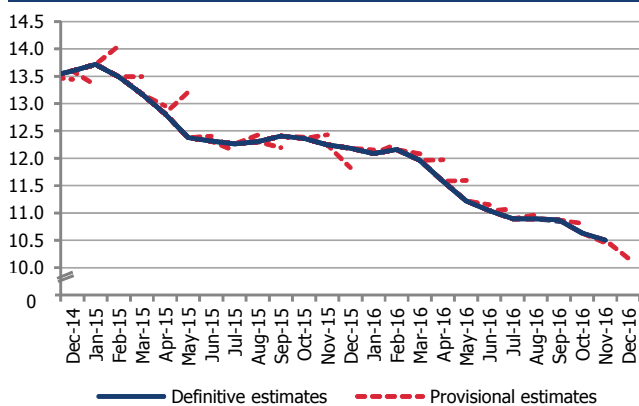
Figure 3: Unemployed population - definitive and provisional estimates
(seasonally adjusted data; thousands)



In November 2016, the unemployment rate was 10.5%, the lowest recorded value since April 2009 (10.3%). The November 2016 unemployment rate decreased by 0.1 p.p. from the previous month and by 0.4 p.p. from three months before.

In December 2016, the provisional estimate for the unemployment rate was 10.2%, having decreased by 0.3 p.p. from the previous month's level and by 0.7 p.p. from September 2016.

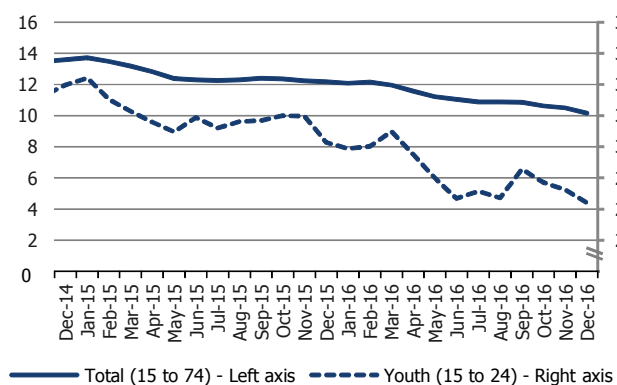
Figure 4: Unemployment rate - definitive and provisional estimates
(seasonally adjusted data; %)



The unemployment rate of women (10.3%) was higher than that of men (10.0%) by 0.3 p.p.. From the previous month's level, the former decreased by 0.2 p.p. and the latter by 0.5 p.p..

The youth unemployment rate stood at 26.4% and decreased by 0.8 p.p. from the month before, while the adults' unemployment rate was 8.9% and decreased by 0.3 p.p. from that month.

Figure 5: Total and youth unemployment rate
(seasonally adjusted data; %)



In November 2016, the not seasonally adjusted unemployment rate was 10.6%, having decreased by 0.1 p.p. both from the previous month's level and from August 2016. Comparing to November 2015, the not seasonally adjusted unemployment rate decreased by 1.8 p.p., continuing the series of year-on-year reductions started in August 2013.

The unemployment rate monthly decrease was followed by a reduction of the unemployed population (1.2%; 6.3 thousand) and of the employed population (0.2%; 9.1 thousand). Similarly, the decrease from August 2016 came from the decrease of the unemployed population (1.2%; 6.3 thousand) and of the employed population (0.4%; 19.9 thousand). For the year-on-year

reduction contributed both the unemployed population decline (14.3%; 90.7 thousand) and the employed population growth (1.8%; 82.7 thousand).

In December 2016, the provisional estimate for the not seasonally adjusted unemployment rate was 10.4%, having decreased by 0.2 p.p. from the previous month, by 0.4 p.p. from three months before and by 2.0 p.p. from December 2015.

The monthly decline observed in the unemployment rate was followed by a decrease of the unemployed population (2.6%; 14.1 thousand) and a reduction of the employed population (0.2%; 11.2 thousand). In the same way, the observed decrease from September 2016 was also followed by a decline of the unemployed population (4.9%; 27.3 thousand) and by a reduction of the employed population (0.3%; 12.2 thousand). Regarding the year-on-year decrease, both the decline of the unemployed population (16.4%; 104.0 thousand) and the growth of the employed population (2.4%; 106.3 thousand) gave their contribution.

Figure 7: Total and youth unemployment rate
(seasonally adjusted data; %)

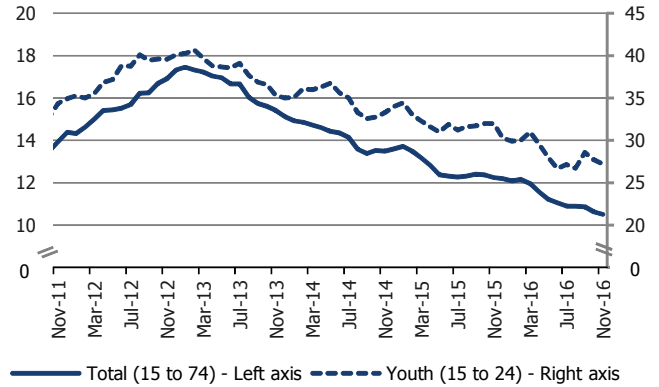


Figure 6: Employed and unemployed population
(seasonally adjusted data; thousands)

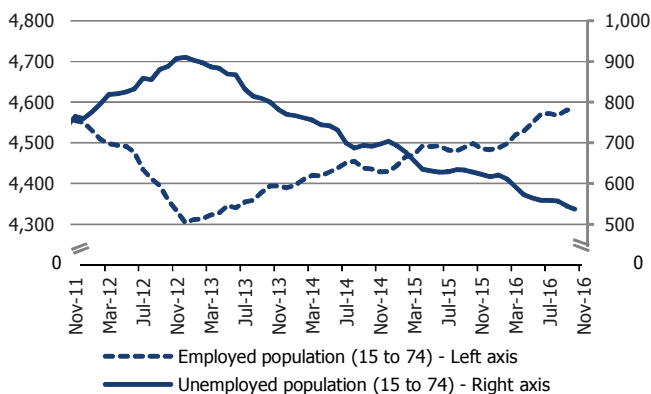


Table 1: Employed population and employment rate by sex and age group (15 to 74)

	Seasonally adjusted data					Not seasonally adjusted data				
	Dec 2015	Sep 2016	Oct 2016	Nov 2016	Dec 2016 (p)	Dec 2015	Sep 2016	Oct 2016	Nov 2016	Dec 2016 (p)
	Thousands									
Employed population (15 to 74)	4,485.2	4,567.3	4,580.6	4,581.4	4,587.1	4,460.4	4,578.9	4,587.0	4,577.9	4,566.7
Men (15 to 74)	2,288.0	2,332.9	2,333.0	2,333.8	2,345.3	2,274.9	2,344.6	2,338.0	2,332.8	2,337.0
Women (15 to 74)	2,197.2	2,234.4	2,247.7	2,247.7	2,241.8	2,185.5	2,234.4	2,249.1	2,245.0	2,229.7
Youth (aged 15 to 24)	253.5	258.8	259.9	264.4	268.8	249.9	264.6	263.2	265.0	265.0
Adults (aged 25 to 74)	4,231.7	4,308.4	4,320.7	4,317.0	4,318.3	4,210.6	4,314.3	4,323.8	4,312.9	4,301.7
	%									
Employment rate (15 to 74)	57.4	58.6	58.8	58.8	58.9	57.1	58.7	58.9	58.7	58.6
Men (15 to 74)	61.2	62.5	62.6	62.6	62.9	60.9	62.9	62.7	62.6	62.7
Women (15 to 74)	54.0	55.0	55.3	55.3	55.2	53.7	55.0	55.3	55.2	54.9
Youth (aged 15 to 24)	23.0	23.6	23.7	24.2	24.6	22.7	24.2	24.0	24.2	24.2
Adults (aged 25 to 74)	63.1	64.3	64.5	64.4	64.5	62.8	64.4	64.5	64.4	64.2

Source: Statistics Portugal, Labour Force Survey.

Note: (p) - Provisional estimates.

Table 2: Unemployed population and unemployment rate by sex and age group (15 to 74)

	Seasonally adjusted data					Not seasonally adjusted data				
	Dec 2015	Sep 2016	Oct 2016	Nov 2016	Dec 2016 (p)	Dec 2015	Sep 2016	Oct 2016	Nov 2016	Dec 2016 (p)
	Thousands									
Unemployed population (15 to 74)	622.3	557.1	544.9	537.7	519.5	633.1	556.4	549.5	543.2	529.1
Men (15 to 74)	315.4	280.8	278.6	273.0	261.4	320.9	277.2	279.0	275.7	266.0
Women (15 to 74)	306.9	276.3	266.3	264.6	258.1	312.2	279.2	270.5	267.4	263.1
Youth (aged 15 to 24)	110.1	103.5	99.7	99.0	96.4	113.3	107.6	104.2	101.8	99.2
Adults (aged 25 to 74)	512.2	453.6	445.2	438.7	423.1	519.8	448.8	445.3	441.4	429.9
	%									
Unemployment rate (15 to 74)	12.2	10.9	10.6	10.5	10.2	12.4	10.8	10.7	10.6	10.4
Men (15 to 74)	12.1	10.7	10.7	10.5	10.0	12.4	10.6	10.7	10.6	10.2
Women (15 to 74)	12.3	11.0	10.6	10.5	10.3	12.5	11.1	10.7	10.6	10.6
Youth (aged 15 to 24)	30.3	28.6	27.7	27.2	26.4	31.2	28.9	28.4	27.7	27.2
Adults (aged 25 to 74)	10.8	9.5	9.3	9.2	8.9	11.0	9.4	9.3	9.3	9.1

Source: Statistics Portugal, Labour Force Survey.

Notes: (p) - Provisional estimates.

TECHNICAL NOTE

Labour Force Survey

The main purpose of the Labour Force Survey is to characterise the population in terms of the labour market. It is a quarterly sample survey, addressed to families occupying the same dwelling in the national territory, which makes available quarterly and annual data.

Most of the characteristics observed in this survey report to the situation in one pre-defined week (from Monday to Sunday), known as reference week. The reference weeks are uniformly distributed throughout the quarters and years. The interviews usually take place in the week following the reference week.

The information is obtained directly, through computer-assisted interview, by using a mixed data collection mode: the initial interview is done face-to-face by an interviewer visiting the household and the other five interviews are done by telephone, if certain requirements are met.

Published data were calibrated by using the population estimates calculated from the final results of Census 2011.

Monthly Employment and Unemployment Estimates

In 2014, Statistics Portugal initiated a monthly release of Labour Force Survey estimates for the main labour market indicators in addition to the usual quarterly estimates releases.

With this initiative, Statistics Portugal intends to provide to users monthly updated information on labour market recent developments, allowing, at the same time, a more complete reading picture than that provided so far by Eurostat in its monthly releases of the unemployed population and unemployment rate estimates for Portugal. With this dissemination, Statistics Portugal satisfies also a specific requirement from the PEEIs (Principal European Economic Indicators).

Taking advantage of the continuous nature of the Labour Force Survey collection process, it is possible to monthly obtain estimates related to successive sets of three months (moving quarters), assuring consistency with the quarterly released estimates.

The monthly estimates refer to *centred* moving quarters, where the reference month (m) corresponds to the central month of each moving quarter. In fact, the reference month of each Press Release corresponds to the central month of the quarter composed by $m-1$, m and $m+1$ months. As a consequence, the monthly changes are calculated on values that contain common months. Therefore, the comparison of moving quarters without common months should be done in relation to reference months three months earlier.

The option for disseminating centred moving quarters series aimed at avoiding delays in the detection of turning points in the economic cycle that arise from the use of simple moving averages, but it implies that the estimates for the latest released moving quarter are provisional (see "Revisions" section below).

As estimates of centred moving quarters, the values (not seasonally adjusted) of the reference months February, May, August and November of each year correspond to the estimates of the 1st, 2nd, 3rd and 4th natural quarters, respectively, whose results are published and analyzed with greater detail in the quarterly releases of the Labour Force Survey estimates.

The estimates for the reference month are always provisional, as they correspond to a moving quarter where for the first two months the Labour Force Survey data collection process has been already completed and for the third month a forecast was done based on time series models (state space approach for exponential smoothing models). For this third month, it was also taken into account data already collected for it. In this regard, Statistics Portugal has carried out a set of operational changes that allow ensuring the maximum collected information for that third month to be part of the projection exercise.

In this context, in each monthly Press Release the provisional estimates for the reference month and the definitive estimates for the previous months are published.

(to be continued)

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Information available

The data series selected for monthly releases refer to both employed and unemployed population, by sex and age group, and to the corresponding rates. In relation to these data series, it should be noted the following:

- For the purpose of creating long monthly data series needed for subsequent adjustment of seasonality, the two latest data series of the Labour Force Survey (from 1998 to 2010; from 2011 onwards) were previously linked.
- Unless otherwise stated, the data series analyzed in this Press Release are seasonally adjusted. For this reason, the analysis focuses on the comparison with the most recent periods. As agreed, Eurostat started using these estimates in its unemployment monthly releases. The original data series (not seasonally adjusted; as in the Statistics Portugal quarterly releases), are available in Tables 1 and 2 of the annex and at the Statistics Portugal Portal (www.ine.pt).
- The indicators analyzed in this Press Release were calculated for the age subgroup of those aged 15 to 74 (as in the Eurostat News Release), which differs from the criterion adopted at the Statistics Portugal quarterly releases (people aged 15 and over, in line with the concepts in force of the International Labour Organization).

The back series for all the released and analyzed indicators in this Press Release, since February 1998 (quarter from January to March 1998), are available at the Statistics Portugal Portal.

Due to rounding, totals may not correspond exactly to the sum of the parts.

Revisions

The monthly released data are subject to revisions, as previously mentioned. The revisions come from obtaining the definitive estimates for the previous month (moving quarter) due to the conclusion of its last month collection process. In addition, the revisions also come from the updating of the seasonally adjusted data series whenever a new observation is added. Therefore, in each Press Release the definitive estimates for the previous reference month are published.

The impact of those revisions, measured by the difference between the estimates now released for November 2016 (definitive estimates) and the ones for that month published in the last Press Release, is the following:

Revision of November 2016 estimates - main indicators			
	Unit	Seasonally adjusted data	Not seasonally adjusted data
Employed population (15 to 74)	Thousands	7.0	7.4
Unemployed population (15 to 74)		3.4	4.4
Employment rate (15 to 74)		0.1	0.1
Unemployment rate (15 to 74)		0.0	0.1
Youth unemployment rate (15 to 24)	p.p.	- 1.2	- 1.4
Adults' unemployment rate (25 to 74)		0.1	0.2

In November 2016, the seasonally adjusted unemployment rate had a null revision, as the women's unemployment rate did. The unemployment rate of young people was revised downwards (-1.2 p.p.). The null revision of the unemployment rate was followed by the slight upwards revision of the unemployed population (+0.6%) and of the employed population (+0.2%). In the unemployed population, the highest upwards revisions occurred for men (+0.7%) and for adults (+1.6%). In the employed population, the highest upwards revisions were observed for women (+0.2%) and for young people (+2.0%).

(to be continued)

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Some concepts

Unemployed: person aged 15 and 74 who, during the reference period, was simultaneously in the following situations:

- without work, i.e. was not in paid employment or self-employment;
- seeking work, i.e. had taken specific steps in a specified recent period (reference period or the three previous weeks) to seek paid employment or self-employment; and
- currently available for work, i.e. was available for paid employment or self-employment during the reference period.

Employed: person aged 15 and over who, during the reference period, was in one of the following situations:

- did any work for pay or profit for at least one hour, including a familiar gain in money or gender;
- was not working but had jobs from which was temporarily absent;
- had a business, but was temporarily not working for a specific reason;
- was in a pre-retirement situation while working.

Unemployment rate: ratio between the unemployed population and the labour force.

U.R. (%) = (Unemployed population / Labour force) x 100

Employment rate (15 and over): ratio between the employed population and the working age total population (15 and over).

E.R. (%) = (Employed population / Total population 15 and over) x 100

For the indicators selected for monthly dissemination, it was considered the age subgroup of those aged 15 to 74.

For a more detailed definition of the concepts and methodological features of this statistical operation, consult the [Labour Force Survey](#) or the [Monthly Employment and Unemployment Estimates](#) methodological documents (both only in Portuguese) available at the Statistics Portugal website.

Next Press Release:

1 March 2017: "Monthly Employment and Unemployment Statistics – January 2017".

2 March 2017: Eurostat News Release.