



HELLENIC REPUBLIC



HELLENIC STATISTICAL AUTHORITY

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PRESS RELEASE

LABOUR FORCE SURVEY: November 2015

The Hellenic Statistical Authority (ELSTAT) announces the seasonally adjusted unemployment rate for November 2015.

The seasonally adjusted unemployment rate in November 2015 was 24.6% compared to 25.9% in November 2014 and to the upward revised 24.7% in October 2015. The number of employed amounted to 3,620,750 persons. The number of unemployed amounted to 1,180,516 while the number of inactive to 3,269,077. The corresponding figures for November 2010 to 2015 are presented in Table 1.

The number of employed increased by 81,751 persons compared with November 2014 (a 2.3% rate of increase) and by 1,003 persons compared with October 2015 (a negligible change).

Unemployed decreased by 55,857 persons (a 4.5% rate of decrease) compared with November 2014 and by 3,718 persons compared with October 2015 (a 0.3% rate of decrease).

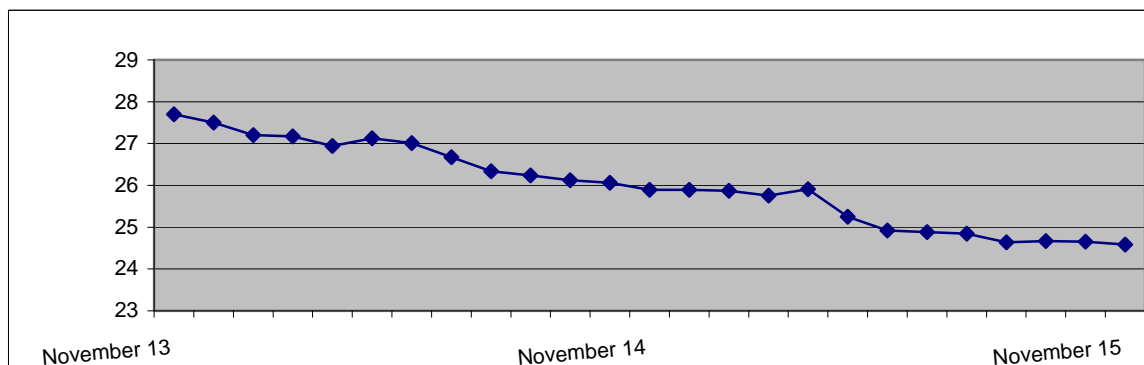
Inactive persons –that is, persons that neither worked neither looked for a job – decreased by 70,780 persons (a 2.1% rate of decrease) compared with November 2014 and by 781 persons compared with October 2015 (a negligible change).

Seasonal adjustment is a statistical technique that removes the seasonal component of a time series, making more visible the underlying trend in the change of a characteristic. Users should take into account the fact that seasonal adjustment procedure requires data for many months in order to remove the seasonal component from a time series. As a result, several “observations” (that is a sufficient number of monthly results) are necessary so that the time series reflect a significant change in the trend of employment and unemployment.

The monthly estimates for the number of employed, unemployed and unemployment rate can be subject to revisions in the following months caused by updates to the seasonally adjusted series whenever new monthly data are added, inclusion of the most recent quarterly Labour Force Survey (LFS) data and update of seasonal adjustment model with complete annual data.

Users should also take into account that the first estimates of the most recent monthly unemployment rates are likely to be revised as they are produced with the collected and processed at the time of the press release survey data, which do not coincide with the finally collected and processed sample of the survey. For that reason monthly estimates are revised when the final quarterly estimates are known.

Unemployment rate by month (November 2013 – November 2015)



Contact Person: *Stelios Zachariou*
Tel: 213 135 2173
Fax: 213 135 2948
E-mail : lfs@statistics.gr, <http://www.statistics.gr>

Tables 2 and 3 illustrate unemployment rate by gender and age groups from November 2010 to 2015. Table 4 presents the evolution of unemployment rate during last 15 months by Decentralized Administrations. The complete time series for employed, unemployed and inactive are available on ELSTAT's website.

Table 1. Employed, unemployed, economically non-active and unemployment rate: November 2010-2015

	November					
	2010	2011	2012	2013	2014	2015
Employed	4,280,506	3,897,597	3,583,784	3,483,619	3,539,000	3,620,750
Unemployed	712,316	1,010,259	1,290,033	1,334,789	1,236,374	1,180,516
Inactive	3,343,448	3,384,214	3,342,152	3,348,420	3,339,856	3,269,077
Unemployment Rate	14.3	20.6	26.5	27.7	25.9	24.6

Table 2. Unemployment rate by gender: November 2010-2015

Gender	November					
	2010	2011	2012	2013	2014	2015
Males	11.5	17.7	23.7	24.6	22.9	20.8
Females	17.9	24.3	30.1	31.7	29.6	29.3
Total	14.3	20.6	26.5	27.7	25.9	24.6

Table 3. Unemployment rate by age groups: November 2010-2015¹

Age Group	November					
	2010	2011	2012	2013	2014	2015
15-24 years old	37.0	49.5	58.9	56.9	51.4	48.0
25-34 »	19.0	27.8	34.2	36.6	33.6	34.2
35-44 »	11.6	16.7	22.8	24.1	22.9	22.3
45-54 »	9.6	14.5	19.7	21.1	20.1	19.4
55-64 »	6.9	9.9	15.4	16.7	16.7	16.9
65-74 »	1.7	4.0	8.4	10.4	12.6	9.1
Total	14.3	20.6	26.5	27.7	25.9	24.6

¹ Estimates of "rare" characteristics, that is estimates of characteristics that refer to 10.000 persons or less are accompanied by large sampling errors, as for example in the case of unemployment rate in the age group of 65 – 74 years old

Table 4. Unemployment rate during September 2014 - November 2015, by Decentralized Administration¹

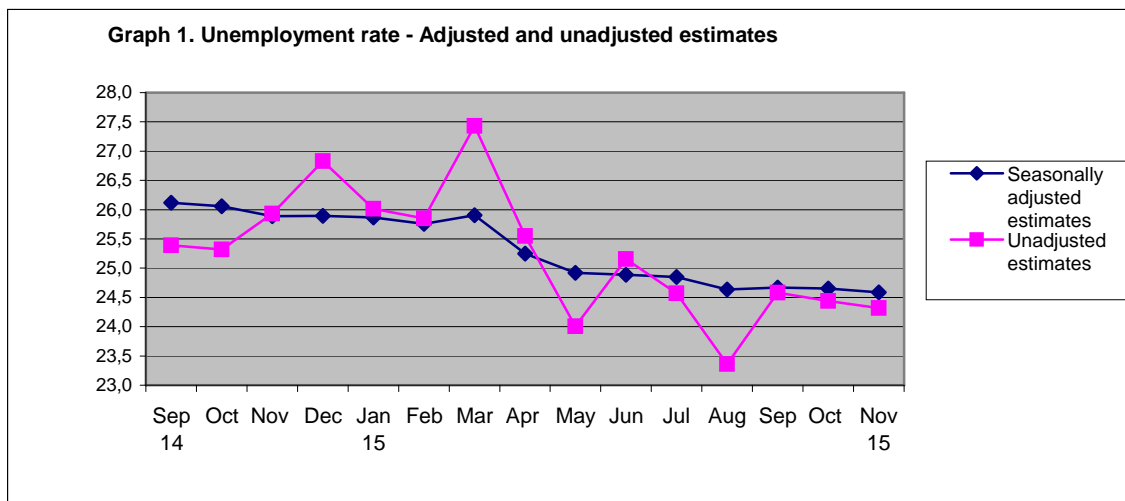
Decentralized Administration	9th 2014	10th	11th	12th	1st 2015	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th
Macedonia-Thrace	27.1	27.3	26.6	26.8	26.2	26.4	26.0	25.6	25.1	25.2	25.3	25.3	25.3	25.1	25.1
Epirus-Western Macedonia	25.8	25.8	26.5	26.7	26.7	26.7	27.2	26.5	26.9	26.7	27.5	27.3	27.8	27.2	27.1
Thessaly – Sterea Ellas	26.3	26.2	26.0	26.3	26.4	26.4	26.2	26.1	26.2	25.9	26.1	26.8	27.1	27.7	28.4
Peloponnese. Western Greece and Ionian Islands	24.9	24.9	25.0	25.6	25.8	25.5	26.0	25.5	24.7	25.0	25.7	23.7	23.8	24.2	25.0
Attica	26.9	26.9	26.7	27.0	26.9	26.6	26.3	25.7	25.3	24.8	24.8	24.8	25.0	24.8	24.2
Aegean	21.6	21.0	19.4	16.4	17.5	16.4	23.1	16.3	15.1	17.4	16.5	15.5	13.9	14.6	12.2
Crete	24.9	22.4	26.5	24.1	23.4	24.6	23.8	23.8	23.5	24.0	24.2	23.6	24.1	24.9	26.6
Greece, Total	26.1	26.1	25.9	25.9	25.9	25.8	25.9	25.2	24.9	24.9	24.8	24.6	24.7	24.7	24.6

¹Decentralized Administrations are the lowest geographical areas for which the Labour Force Survey (LFS) publishes estimates. LFS results are not published at lower level (NUTS 2 or NUTS 3) because, due to small population and sample size, estimates in these areas have large sampling errors. It should be noted that the same problem of small populations and sample sizes exist also in certain Decentralized Administrations and as a result, estimates in these areas have large sampling errors.

The effect of seasonal adjustment on the estimates of Labour Force Survey

The characteristics surveyed by Labour Force Survey – number of employed, unemployed, etc. – have large seasonal variation: for example, in Greece employment increases during summer because of tourism (if there are no other countervailing factors).

The following graphs (Graph 1 – 3) present adjusted and unadjusted time series for employed, unemployed and rate of unemployment for the period September 2014 – November 2015, while Table 5 presents, for the same period, the change in monthly estimates of employed and unemployed because of seasonal adjustment.



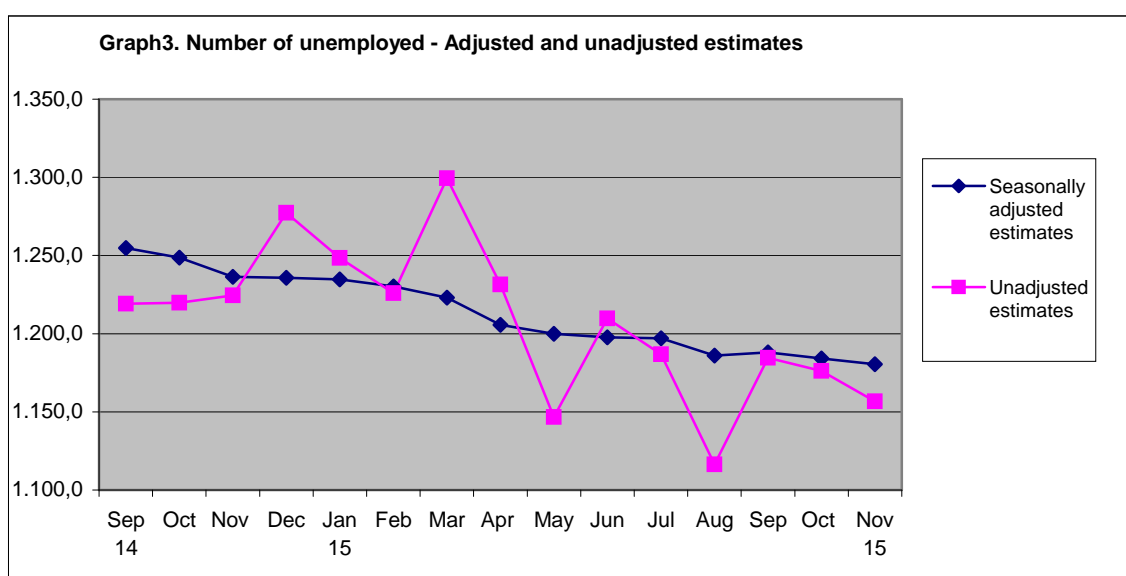
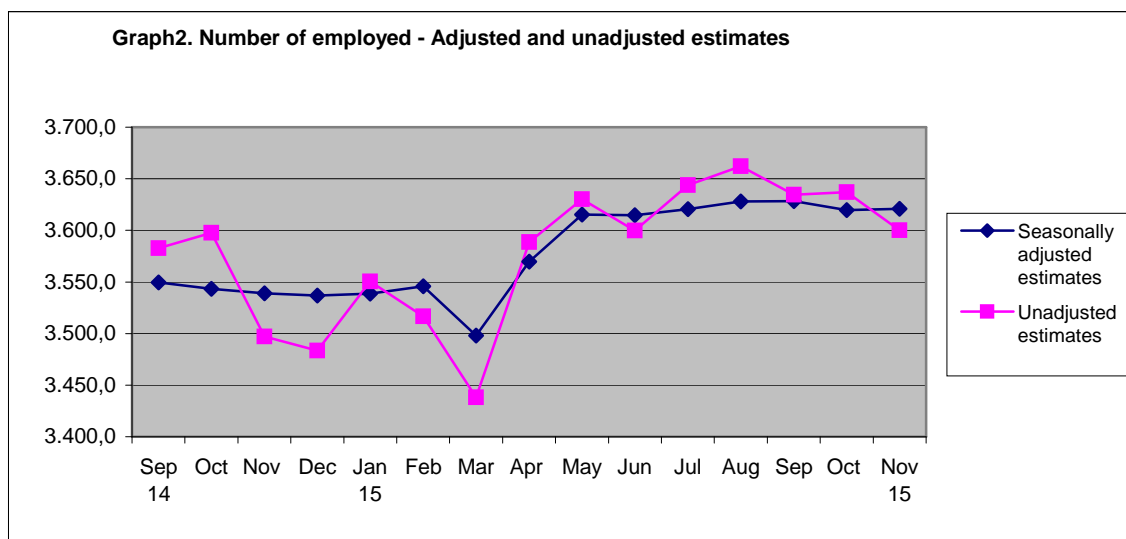


Table 5. Change in monthly estimates of employed and unemployed because of seasonal adjustment

	Estimated number of employed without seasonal adjustment (in thousands)	Change due to seasonal adjustment (in thousands)	% of change	Estimated number of unemployed without seasonal adjustment (in thousands)	Change due to seasonal adjustment (in thousands)	% of change
September 2014	3,582.7	-33.3	-0.9	1,219.1	35.7	2.9
October	3,597.7	-54.3	-1.5	1,219.8	28.9	2.4
November	3,497.1	41.9	1.2	1,224.4	12.0	1.0
December	3,483.5	53.2	1.5	1,277.3	-41.6	-3.3
January 2015	3,550.5	-11.9	-0.3	1,248.5	-13.8	-1.1
February	3,516.7	29.2	0.8	1,225.9	4.3	0.4
March	3,438.1	60.1	1.7	1,299.4	-76.4	-5.9
April	3,588.8	-19.0	-0.5	1,231.5	-25.7	-2.1
May	3,630.0	-14.6	-0.4	1,146.7	53.2	4.6
June	3,599.9	14.8	0.4	1,209.8	-12.3	-1.0
July	3,643.9	-23.4	-0.6	1,186.9	10.2	0.9
August	3,662.2	-34.1	-0.9	1,116.4	69.6	6.2
September	3,634.6	-6.2	-0.2	1,184.5	3.5	0.3
October	3,637.1	-17.4	-0.5	1,176.3	8.0	0.7
November 2015	3,600.1	20.6	0.6	1,156.8	23.7	2.1

Revisions of monthly estimates

The monthly estimates for the number of employed, unemployed and unemployment rate can be subject to revisions in the following months caused by updates to the seasonally adjusted series whenever new monthly data are added, inclusion of the most recent quarterly LFS data and update of seasonal adjustment model with complete annual data. In the current press release the estimation of unemployment rate for the period September 2014 – October 2015 has been revised compared to the estimation published in the previous press-release, as follows:

Seasonally adjusted unemployment rate		
	Estimations published January 2016 (Monthly results for October 2015)	Estimations published in the current press release (Monthly results for November 2015)
September 2014	26.1	26.1
October	26.0	26.1
November	25.9	25.9
December	25.9	25.9
January 2015	25.9	25.9
February	25.8	25.8
March	25.9	25.9
April	25.2	25.2
May	24.9	24.9
June	25.0	24.9
July	24.9	24.8
August	24.6	24.6
September	24.6	24.7
October	24.5	24.7
November 2015	-	24.6

EXPLANATORY NOTES

Labour Force Survey	Labour Force Survey produces estimates since 1981 (second quarter of the year). From 1998 onwards it is a continuous quarterly survey. The main statistical objectives of the Labour Force Survey is to divide the population of working age (15 years and over) into three mutually exclusive and exhaustive groups - persons in employment, unemployed persons and inactive persons. In addition, the Labour Force Survey collects information on demographic characteristics, on main job characteristics, on the existence and characteristics of a second job, on educational attainment, on participation in education, on previous working experience and on search of job.
Legislation	The current survey is completely harmonized with European legislation. The principal legal act is the <u>Council Regulation (EC) No. 577/98</u> that stipulates the provisions on design, survey characteristics and decision-making processes.
Reference Period	The sample of Labour Force Survey is equally allocated to the 4 (or 5) weeks of the month. Every selected household is assigned to a specific week, the reference week, running from Monday to Sunday.
Coverage	For the monthly estimates, a sub-sample of the quarterly Labour Force survey's sample was used.
Definitions	<p>Employed are persons aged 15 years or older, who during the reference week worked, even for just one hour, for pay or profit or they were working in the family business, or they were not at work but had a job or business from which they were temporarily absent.</p> <p>Unemployed are persons aged 15-74 who were without work during the reference week (they were not classified as employed), were currently available for work and were either actively seeking work in the past four weeks or had already found a job to start within the next three months.</p> <p>Inactive are those persons who are neither classified as employed nor as unemployed.</p> <p>Economically active population (labour force) are persons either employed or unemployed.</p> <p>Unemployment Rate is the ratio of unemployed divided by total labour force.</p>
Seasonal adjustment	Seasonal adjustment is a statistical technique that removes the seasonal component of a time series, making more visible the underlying trend in the change of a characteristic. Hellenic Statistical Authority is using Demetra 2.0 for seasonal adjustment. Seasonally adjusted series are produced by TRAMO&SEATS algorithm. It should be noted that due to seasonal adjustment the whole series with monthly estimates is recalculated every time a new month is added in time series. As a result, estimations for the previous months are often revised.
Sampling errors	The monthly results of Labour Force Survey are estimations that are based in a relatively small sample size and have large sampling errors. An indication of the magnitude of survey's sampling errors is that estimations of characteristics that refer to 25.000 persons at the total country are accompanied by a coefficient of variation of at least 15%. More accurate estimates and detailed analysis of the changes in employment can be based on the quarterly results of the survey.
Methodology	Labour Force Survey's estimates are produced by a suitable unbiased estimator which takes in to account a) the probability of selection of every sampled household, b) the response rate in every primary sampling unit, c) the estimated population, for the corresponding month, allocated by NUTS II areas, gender and age group.
References	Analytical description of the Labour Force Survey's methodology and definitions can be found at http://www.statistics.gr/el/statistics/-/publication/SJO02/ .

