



HELLENIC REPUBLIC



HELLENIC STATISTICAL AUTHORITY

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## PRESS RELEASE

### LABOUR FORCE SURVEY: October 2014

The Hellenic Statistical Authority announces the seasonally adjusted unemployment rate for October 2014.

In the context of the program undertaken by ELSTAT for the improvement of dissemination and presentation of statistics, and in order to harmonize the presentation of monthly unemployment rate estimates with the presentation of monthly estimates provided by Eurostat, ELSTAT, since January 2012, announces the monthly results of the LFS seasonally adjusted, for persons 15 – 74 years old. Unadjusted data are still available on ELSTAT's website.

It should be noted that that monthly results of October incorporate the final estimates for employment and unemployment of the quarterly Labour Force Survey for the 3rd quarter 2014, and as a result, previous monthly estimates for the corresponding months (July – August – September) have been revised.

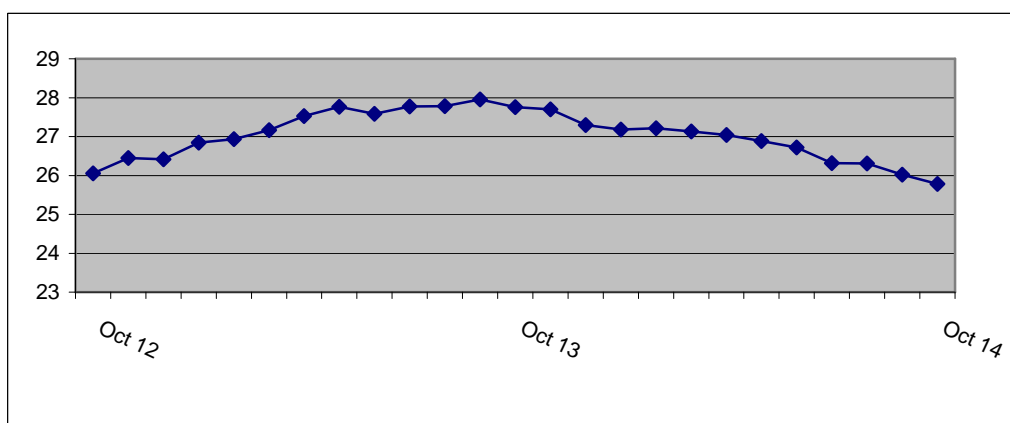
The seasonally adjusted unemployment rate in October 2014 was 25.8% compared to 27.8% in October 2013 and 26.0% in September 2014. The number of employed amounted to 3,585,234 persons. The number of unemployed amounted to 1,245,340 while the number of inactive to 3,288,819. The corresponding figures for October 2009 to 2014 are presented in Table 1.

The number of employed increased by 72,379 persons compared with October 2013 (a 2.1% rate of increase) and by 6,853 persons compared with September 2014 (a 0,2% rate of increase).

Unemployed decreased by 104.263 persons (a 7.7% rate of decrease) compared with October 2013 and by 13.491 persons compared with September 2014 (a 1,1% rate of decrease).

Inactive persons –that is, persons that neither worked neither looked for a job– decreased by 8,384 persons (a 0.3% rate of decrease) compared with October 2013 and increased by 2,100 persons compared with September 2014 (a 0,1% rate of increase).

**Unemployment rate by month (October 2012 – October 2014)**



Contact Person: Stelios Zachariou  
Tel: 213 135 2173  
Fax: 213 135 2948  
E-mail : [-lfs@statistics.gr](mailto:-lfs@statistics.gr)  
<http://www.statistics.gr>

Tables 2 and 3 illustrate unemployment rate by gender and age groups from October 2009 to 2014. Table 4 presents the evolution of unemployment rate during last 12 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: October 2009-2014**

	October					
	2009	2010	2011	2012	2013	2014
Employed	4,522,151	4,299,747	3,950,295	3,643,254	3,512,855	3,585,234
Unemployed	510,200	699,585	973,250	1,283,593	1,349,603	1,245,340
Inactive	3,386,249	3,343,472	3,367,893	3,296,308	3,297,203	3,288,819
<b>Unemployment Rate</b>	<b>10.1</b>	<b>14.0</b>	<b>19.8</b>	<b>26.1</b>	<b>27.8</b>	<b>25.8</b>

**Table 2. Unemployment rate by gender: October 2009-2014**

Gender	October					
	2009	2010	2011	2012	2013	2014
Males	7.5	11.2	17.2	23.3	24.6	23.1
Females	13.8	17.8	23.1	29.5	31.9	29.2
<b>Total</b>	<b>10.1</b>	<b>14.0</b>	<b>19.8</b>	<b>26.1</b>	<b>27.8</b>	<b>25.8</b>

**Table 3: Unemployment rate by age groups: October 2009-2014<sup>1</sup>**

Age Group	October					
	2009	2010	2011	2012	2013	2014
15-24 years old	27.5	35.4	47.8	57.6	57.4	50.6
25-34 »	13.0	18.8	26.8	33.5	37.0	34.5
35-44 »	8.4	11.7	16.0	22.7	24.1	22.2
45-54 »	7.0	9.3	14.2	19.3	20.6	20.8
55-64 »	4.9	6.7	8.9	14.7	16.7	16.5
65-74 »	1.0	1.9	3.6	5.4	12.0	11.4
<b>Total</b>	<b>10.1</b>	<b>14.0</b>	<b>19.8</b>	<b>26.1</b>	<b>27.8</b>	<b>25.8</b>

<sup>1</sup> 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 October 2014 and the last 12 months, by Decentralized Administration<sup>1</sup>**

Decentralized Administration	Period												
	2013			2014									
	10th	11th	12th	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Macedonia-Thrace	29,4	29,8	29,1	28,2	28,1	28,5	28,6	27,6	27,4	27,2	27,3	27,6	27,8
Epirus-Western Macedonia	29,1	28,1	30,1	27,9	28,6	28,2	28,0	27,4	27,1	26,8	26,2	25,8	25,3
Thessaly – Sterea Ellas	26,7	27,6	26,4	26,3	26,3	26,5	26,2	26,5	25,8	25,9	25,0	26,0	25,8
Peloponnese. Western Greece and Ionian Islands	25,5	24,9	26,5	25,6	25,7	25,5	25,9	25,9	26,2	25,8	25,2	24,8	25,1
Attica	28,9	28,9	28,3	28,1	28,1	28,0	28,2	27,3	27,3	27,1	27,3	27,1	27,3
Aegean	24,1	23,3	21,2	25,6	24,0	22,0	23,7	21,1	17,1	19,9	20,4	20,3	19,2
Crete	26,3	26,3	23,6	23,2	23,7	24,2	21,7	23,3	25,7	23,6	22,9	24,4	21,7
<b>Greece. Total</b>	<b>27,8</b>	<b>27,7</b>	<b>27,3</b>	<b>27,2</b>	<b>27,2</b>	<b>27,1</b>	<b>27,0</b>	<b>26,9</b>	<b>26,7</b>	<b>26,3</b>	<b>26,3</b>	<b>26,0</b>	<b>25,8</b>

<sup>1</sup>Decentralized Administrations are the lowest geographical areas for which Labour Force Survey publishes estimates. LFS results are not published at lower level (NUTS II – “Perifereiakes Enotites” or NUTS III – “Perifereies”) because, due to small population and sample size, estimates in these areas have large sampling errors. We should note 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

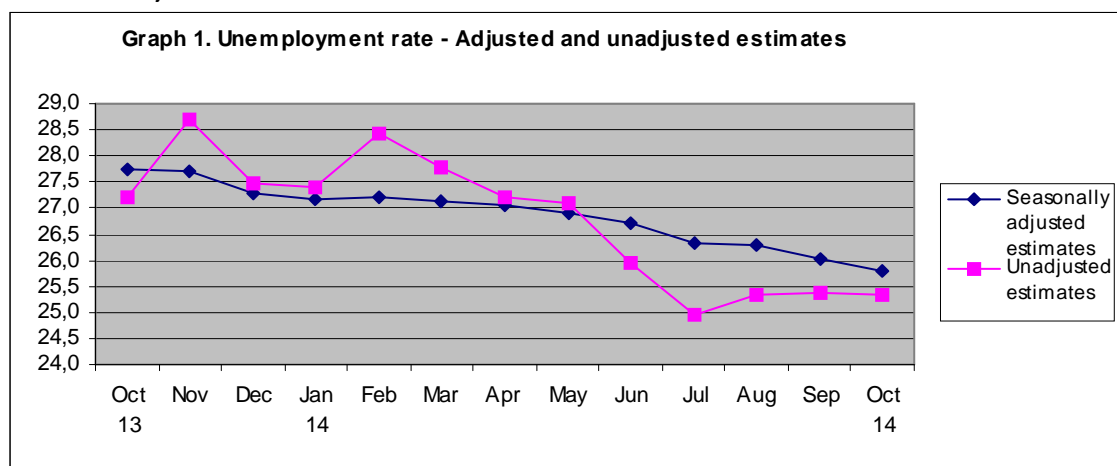
#### The effect of seasonal adjustment on the estimates of Labour Force Survey

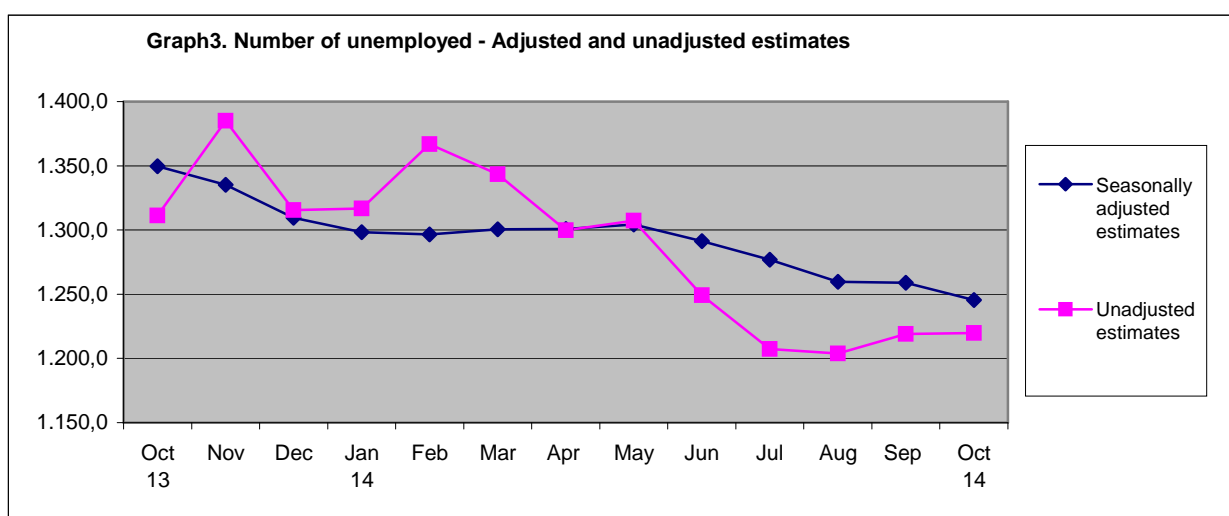
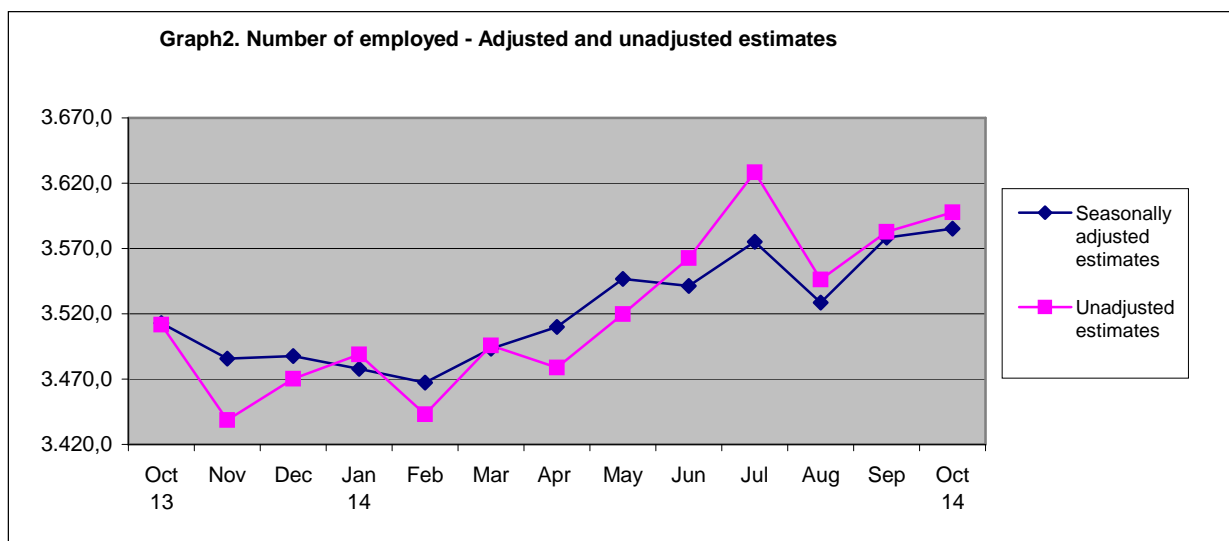
The characteristics surveyed by Labour Force Survey – number of employed, unemployed, etc.– have large seasonal variation: for example, in Greece, employment increases during summer because of tourism (if there are no other countervailing factors).

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.

Eurostat is publishing seasonally adjusted monthly results since 2000. These results are based either solely in Labour Force Survey results either in estimations that are based in the most recent results of the Labour Force Survey and in registered unemployment.

The following graphs (Graph 1 – 3) present adjusted and unadjusted time series for employed, unemployed and rate of unemployment for the period October 2013 – October 2014, 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
October 2013	3,511.6	1.24	0.0	1,311.2	38.40	2.9
November	3,438.6	47.13	1.4	1,384.9	-49.77	-3.6
December	3,470.4	17.33	0.5	1,315.5	-6.01	-0.5
January 2014	3,488.8	-11.03	-0.3	1,316.7	-18.46	-1.4
February	3,442.9	24.39	0.7	1,366.7	-70.25	-5.1
March	3,495.6	-2.43	-0.1	1,343.4	-42.98	-3.2
April	3,478.9	30.93	0.9	1,299.8	1.12	0.1
May	3,519.7	27.07	0.8	1,307.2	-3.01	-0.2
June	3,562.5	-21.32	-0.6	1,249.2	42.10	3.4
July	3,628.5	-53.25	-1.5	1,207.3	69.69	5.8
August	3,546.3	-17.60	-0.5	1,203.8	55.98	4.7
September	3,582.7	-4.28	-0.1	1,219.1	39.71	3.3
October 2014	3,597.7	-12.48	-0.3	1,219.8	25.54	2.1

## EXPLANATORY NOTES

<b>Labour Force Survey</b>	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.
<b>Legislation</b>	The current survey is completely harmonized with European legislation. The principal legal act is the <b>Council Regulation (EC) No. 577/98</b> that stipulates the provisions on design, survey characteristics and decision-making processes.
<b>Reference Period</b>	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.
<b>Coverage</b>	For the monthly estimates, a sub-sample of the quarterly Labour Force survey's sample was used.
<b>Definitions</b>	<p><b>Employed</b> 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><b>Unemployed</b> 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><b>Inactive</b> are those persons who are neither classified as employed nor as unemployed.</p> <p><b>Economically active population (labour force)</b> are persons either employed or unemployed.</p>
<b>Seasonal adjustment</b>	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. We note 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.
<b>Sampling errors</b>	The monthly results of Labour Force Survey are estimations that are based in a relatively small sample size and have large sampling errors. As an indication of the magnitude of survey's sampling errors, we note 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% (an analysis of Labour Force Survey sampling errors can be found at the address <a href="http://www.statistics.gr/portal/page/portal/ESYE/PAGE-themes?p_param=A0101">http://www.statistics.gr/portal/page/portal/ESYE/PAGE-themes?p_param=A0101</a> at the link "Methodology"). More accurate estimates and detailed analysis of the changes in employment can be based on the quarterly results of the survey.
<b>Methodology</b>	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).
<b>References</b>	Analytical description of the Labour Force Survey's methodology and definitions can be found at <a href="http://www.statistics.gr">www.statistics.gr</a> .