



HELLENIC REPUBLIC



HELLENIC STATISTICAL AUTHORITY

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## PRESS RELEASE

### LABOUR FORCE SURVEY: February 2012

Hellenic Statistical Authority announces the seasonally adjusted unemployment rate for February 2012.

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, starting with the January 2012 results, will announce the monthly results of the LFS seasonally adjusted, for persons 15 – 74 years old. Unadjusted data will continue to be available on ELSTAT's website.

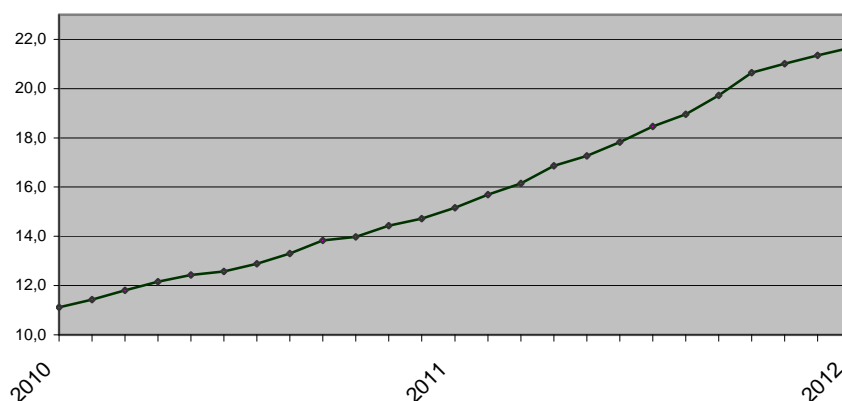
Unemployment rate in February 2012 was 21.7% compared to 15.2% in February 2010 and 21.3% in January 2012. The number of employed amounted to 3,872,243 persons. The number of unemployed amounted to 1,070,724 while the number of inactive to 3,358,785. The corresponding figures for February 2006 to 2012 are presented in Table 1.

The number of employed decreased by 336,589 persons compared with February 2011 (a 8.0% rate of decrease) and by 19,729 persons compared with January 2012 (a 0.5% rate of decrease).

Unemployed increased by 318,435 persons (a 42.3% rate of increase) compared with February 2011 and by 14,237 persons compared with January 2012 (a 1.3% rate of increase).

Inactive persons –that is, persons that neither worked neither looked for a job– increased by 25,930 persons (a 0.8% rate of increase) compared with February 2011 and by 7,824 persons compared with January 2012 (a 0.2% rate of increase).

#### Unemployment rate by month (February 2010 – February 2012)



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Tables 2 and 3 illustrate unemployment rate by gender and age groups from February 2007 to 2012. Table 4 presents the evolution of unemployment rate during last 12 months by Decentralized Administrations. Finally, Table 5 presents the level and percentage of change in estimated number of employed and unemployed due to seasonal adjustment for the present and the last 12 months.

**Table 1. Employed, unemployed, economically non-active and unemployment rate: February 2007-2012**

	February					
	2007	2008	2009	2010	2011	2012
Employed	4,478,005	4,535,967	4,509,739	4,451,552	4,208,831	3,872,243
Unemployed	426,156	390,092	441,429	557,052	752,289	1,070,724
Inactive	3,425,977	3,411,121	3,366,035	3,297,371	3,332,855	3,358,785
<b>Unemployment Rate</b>	<b>8.7</b>	<b>7.9</b>	<b>8.9</b>	<b>11.1</b>	<b>15.2</b>	<b>21.7</b>

**Table 2. Unemployment rate by gender: February 2007-2012**

Gender	February					
	2007	2008	2009	2010	2011	2012
Males	5.4	5.2	6.4	8.3	12.5	18.6
Females	13.5	11.9	12.5	15.0	18.8	25.7
<b>Total</b>	<b>8.7</b>	<b>7.9</b>	<b>8.9</b>	<b>11.1</b>	<b>15.2</b>	<b>21.7</b>

**Table 3: Unemployment rate by age groups: February 2007-2012**

Age Group	February					
	2007	2008	2009	2010	2011	2012
15-24 years old	25.0	23.0	26.1	30.7	40.3	53.8
25-34 »	11.5	11.1	12.0	14.8	20.4	29.1
35-44 »	6.7	6.0	6.8	9.4	12.9	17.6
45-54 »	4.7	4.3	5.5	7.5	10.4	16.2
55-64 »	3.6	2.9	4.0	5.8	7.5	11.2
65-74 »	1.5	0.9	0.8	1.1	2.2	4.3
<b>Total</b>	<b>8.7</b>	<b>7.9</b>	<b>8.9</b>	<b>11.1</b>	<b>15.2</b>	<b>21.7</b>

**Table 4. Unemployment rate during February 2012 and the last 12 months, by Decentralized Administration**

Decentralized Administration	Period												
	2011											2012	
	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	1st	2nd
Macedonia-Thrace	16.9	17.4	18.3	19.0	19.6	19.6	19.9	20.3	21.3	22.5	22.7	22.7	23.3
Epirus-West Macedonia	18.1	18.0	18.9	18.8	19.3	19.2	19.7	20.3	20.9	21.8	22.5	22.4	22.3
Thessaly – Sterea Ellas	15.2	15.6	16.2	16.3	17.8	18.2	18.7	19.2	20.1	20.9	21.2	21.3	21.1
Peloponnes, West Greece and Ionian Islands	13.6	13.8	14.0	15.0	15.3	16.1	16.5	17.1	17.1	18.1	18.5	19.4	19.8
Attica	14.7	15.2	15.4	15.7	16.1	17.5	18.5	19.2	20.4	21.7	22.5	22.8	23.0
Aegean	15.6	15.5	14.4	14.8	14.6	14.6	15.2	14.6	14.7	14.2	14.6	14.5	14.2
Crete	12.8	14.0	13.7	14.7	13.4	14.4	18.0	17.8	18.2	18.4	17.6	20.0	20.1
Greece, Total	15.2	15.7	16.1	16.9	17.3	17.8	18.5	19.0	19.7	20.6	21.0	21.3	21.7

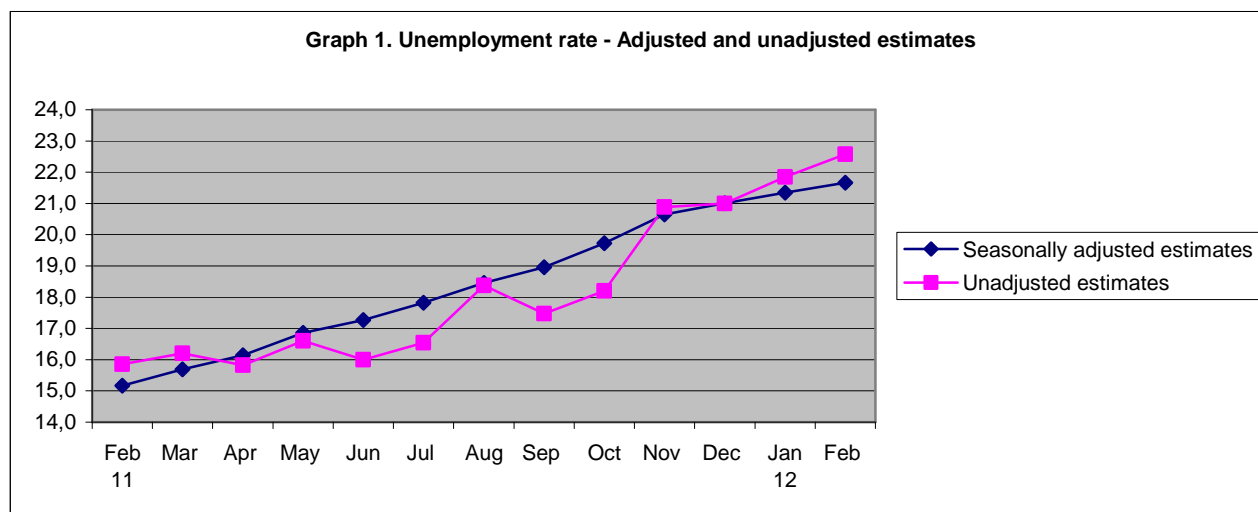
#### The effect of seasonal adjustment in the estimates of Labour Force Survey

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).

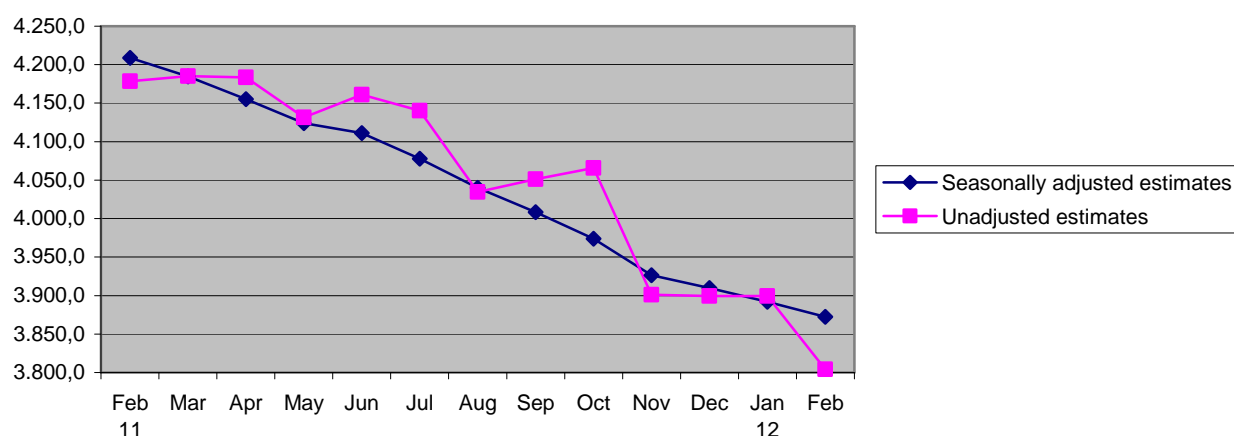
Seasonal adjustment is a statistical technique that removes the seasonal component of a time series, making more visible the underlying trend in the change of a characteristic.

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.

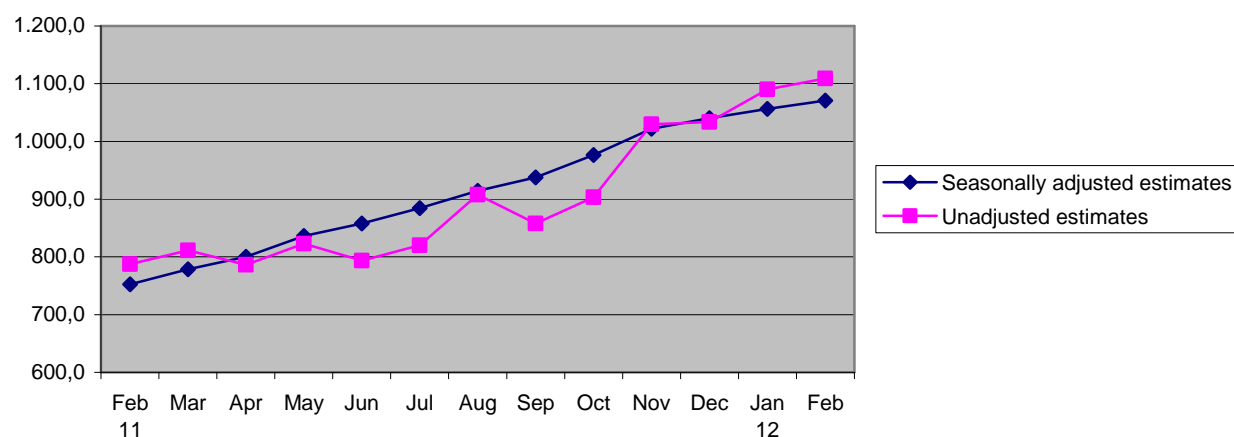
The following graphs (Graph 1 – 3) present adjusted and unadjusted time series for employed, unemployed and rate of unemployment for the period February 2011 – February 2012, while Table 5 presents, for the same period, the change in monthly estimates of employed and unemployed because of seasonal adjustment.



**Graph2. Number of employed - Adjusted and unadjusted estimates**



**Graph3. Number of unemployed - Adjusted and unadjusted estimates**



**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
February 11	4,178.3	30.5	0.7	7870.2	-34.9	-4.4
March	4,185.3	-0.6	0.0	811.3	-32.6	-4.0
April	4,183.3	-28.3	-0.7	786.5	13.5	1.7
May	4,131.5	-7.4	-0.2	822.7	13.6	1.7
June	4,161.1	-50.0	-1.2	793.7	64.1	8.1
July	4,140.0	-62.3	-1.5	820.3	64.1	7.8
August	4,034.5	5.3	0.1	908.0	6.5	0.7
September	4,051.1	-42.6	-1.1	857.7	79.8	9.3
October	4,065.8	-91.9	-2.3	903.5	73.1	8.1
November	3,901.3	25.1	0.6	1,029.6	-7.9	-0.8
December	3,899.3	10.6	0.3	1,033.5	6.6	0.6
January 12	3,899.6	-7.6	-0.2	1,090.5	-34.0	-3.1
February	3,804.2	68.0	1.8	1,109.3	-38.6	-3.5

## 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 <u>Council Regulation (EC) No. 577/98</u> 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.
<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 February 2012, 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> .