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PRESS RELEASE

LABOUR FORCE SURVEY: October 2015

The Hellenic Statistical Authority announces the seasonally adjusted unemployment rate for October 2015.

The seasonally adjusted unemployment rate in October 2015 was 24.5% compared to the downward revised 26.0% in October 2014 and 24.6% in September 2015. The number of employed amounted to 3,630,449 persons. The number of unemployed amounted to 1,175,903 while the number of inactive to 3,267,487. The corresponding figures for October 2010 to 2015 are presented in Table 1.

The number of employed increased by 86,295 persons compared with October 2014 (a 2.4% rate of increase) and decreased by 2,191 persons compared with September 2015 (a 0.1% rate of decrease).

Unemployed decreased by 71,492 persons (a 5.7% rate of decrease) compared with October 2014 and by 8,289 persons compared with September 2015 (a 0.7% rate of decrease).

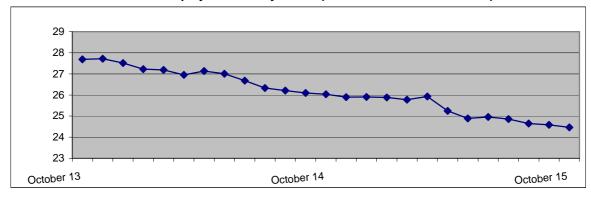
Inactive persons –that is, persons that neither worked neither looked for a job – decreased by 60,339 persons (a 1.8% rate of decrease) compared with October 2014 and increased by 7,013 persons compared with September 2015 (a 0.2% rate of increase).

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 guarterly estimates are known.

Unemployment rate by month (October 2013 – October 2015)



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Tables 2 and 3 illustrate unemployment rate by gender and age groups from October 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:
October 2010-2015

			October	_	_	
	2010	2011	2012	2013	2014	2015
Employed	4,304,882	3,923,780	3,611,039	3,498,072	3,544,154	3,630,449
Unemployed	696,088	994,235	1,270,218	1,339,132	1,247,394	1,175,903
Inactive	3,342,064	3,377,258	3,341,862	3,333,643	3,327,826	3,267,487
Unemployment Rate	13.9	20.2	26.0	27.7	26.0	24.5

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

Gender			Octob	er		
Gender	2010	2011	2012	2013	2014	2015
Males	11.1	17.5	23.1	24.6	23.2	21.0
Females	17.7	23.8	29.8	31.7	29.6	28.7
Total	13.9	20.2	26.0	27.7	26.0	24.5

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

Age Group			Octob	er		
Age Group	2010	2011	2012	2013	2014	2015
15-24 years old	35.4	48.8	57.3	55.7	51.3	48.6
25-34 »	18.6	27.1	33.6	36.7	34.2	30.9
35-44 »	11.5	16.4	22.5	24.1	22.3	22.7
45-54 »	9.2	14.5	19.2	20.4	20.8	19.6
55-64 »	6.6	9.2	14.4	16.9	16.6	16.2
65-74 »	1.8	3.8	4.1	10.1	12.0	10.0
Total	13.9	20.2	26.0	27.7	26.0	24.5

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 August 2014 - October 2015, by Decentralized Administration1

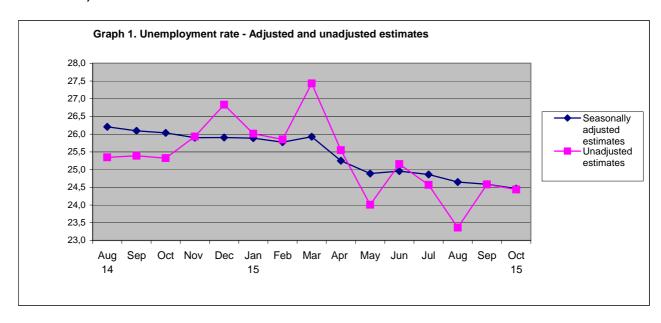
Decentralized Administration	8th 2014	9th	10th	11th	12th	1st 2015	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
Macedonia-Thrace	27.2	27.1	27.4	26.6	26.8	26.1	26.3	26.0	25.7	25.1	25.3	25.3	25.3	25.2	24.8
Epirus-Western Macedonia	26.4	25.8	25.8	26.4	26.7	26.7	26.7	27.2	26.5	27.0	26.8	27.6	27.2	27.9	27.4
Thessaly – Sterea Ellas	25.5	26.2	26.2	26.1	26.3	26.4	26.4	26.3	26.0	26.0	26.1	26.1	26.8	26.8	27.3
Peloponnese. Western Greece and Ionian Islands	25.1	24.9	24.9	25.0	25.6	25.8	25.5	26.0	25.4	24.9	25.0	25.5	23.9	23.7	23.9
Attica	27.6	26.9	26.9	26.6	26.9	26.9	26.6	26.2	25.7	25.3	24.8	24.9	24.7	25.1	25.1
Aegean	21.7	21.6	21.0	19.3	16.4	17.5	16.4	23.1	16.4	15.2	17.4	16.5	15.5	14.0	14.7
Crete	23.9	24.9	22.4	26.5	24.1	23.4	24.6	23.8	23.7	23.5	24.0	24.2	23.6	24.1	24.9
Greece, Total	26.2	26.1	26.0	25.9	25.9	25.9	25.8	25.9	25.2	24.9	25.0	24.9	24.6	24.6	24.5

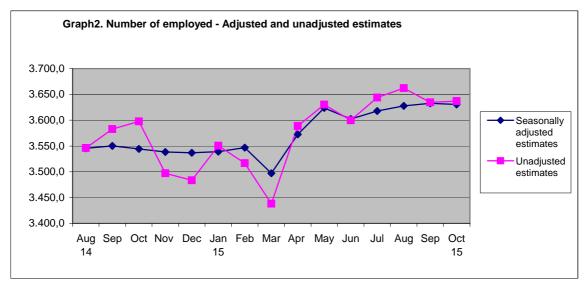
¹Decentralized Administrations are the lowest geographical areas for which the Labour Force Survey (LFS) publishes estimates. LFS results are not published at lower level (NUTS 2 or NUTS 3) because, due to small population and sample size, estimates in these areas have large sampling errors. It should 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 August 2014 – October 2015, while Table 5 presents, for the same period, the change in monthly estimates of employed and unemployed because of seasonal adjustment.





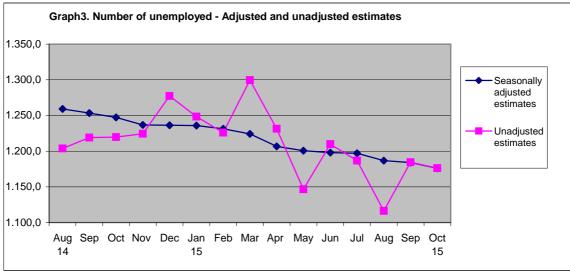


Table 5. Change in monthly estimates of employed and unemployed because of seasonal adjustment

	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
August 2014	3,546.3	-0.7	0.0	1,203.8	55.4	4.6
September	3,582.7	-32.6	-0.9	1,219.1	34.2	2.8
October	3,597.7	-53.6	-1.5	1,219.8	27.6	2.3
November	3,497.1	41.3	1.2	1,224.4	12.3	1.0
December	3,483.5	53.3	1.5	1,277.3	-40.9	-3.2
January 2015	3,550.5	-11.6	-0.3	1,248.5	-12.5	-1.0
February	3,516.7	30.0	0.9	1,225.9	5.5	0.5
March	3,438.1	59.1	1.7	1,299.4	-75.2	-5.8
April	3,588.8	-16.3	-0.5	1,231.5	-24.8	-2.0
May	3,630.0	-6.3	-0.2	1,146.7	53.9	4.7
June	3,599.9	2.4	0.1	1,209.8	-11.8	-1.0
July	3,643.9	-26.0	-0.7	1,186.9	10.1	0.9
August	3,662.2	-34.4	-0.9	1,116.4	70.4	6.3
September	3,634.6	-1.9	-0.1	1,184.5	-0.3	0.0
October 2015	3,637.1	-6.7	-0.2	1,176.3	-0.4	0.0

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 August 2014 – September 2015 has been revised compared to the corresponding estimation in September 2015, as follows:

	Seasonally adjusted unemployment rate Estimations in September 2015	Seasonally adjusted unemployment rate Estimations in October 2015
August 2014	26.2	26.2
September	26.1	26.1
October	26.1	26.0
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	25.0
July	24.9	24.9
August	24.7	24.6
September	24.6	24.6
October 2015	_	24.5

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

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.

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.

Inactive are those persons who are neither classified as employed nor as unemployed.

Economically active population (labour force) are persons either employed or unemployed.

Unemployment Rate is the ratio of unemployed divided by total labour force.

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% (an analysis of Labour Force Survey sampling errors can be found at:

http://www.statistics.gr/portal/page/portal/ESYE/PAGE-themes?p_param=A0101 under "Methodology"). 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 www.statistics.gr.