

# Statistics in focus

## INDUSTRY, TRADE AND SERVICES

THEME 4 – 41/2001

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# Developments for labour input indicators during the second quarter of 2001

*Industrial employment down by 0.2% in the EU*

*Digna Amil*

The index of employment for total industry (excluding construction) in the EU fell by 0.2% in the second quarter of 2001 compared to the quarter before, whilst the corresponding index for the euro-zone<sup>1</sup> fell by 0.4%. There was a large reduction in the number of hours worked in both the EU and the euro-zone, both down by 0.6% in the second quarter of 2001 (compared to a quarter before). Wages and salaries grew by 0.4% in the EU in the second quarter of 2001 when compared to the quarter before and by 0.6% in the euro-zone.

	Quarter on quarter growth rates, seasonally adjusted data				Year on year growth rates, gross data			
	EU-15		Euro-zone		EU-15		Euro-zone	
Employment	Q2-01	-0.2	Q2-01	-0.4	Q2-01	-0.2	Q2-01	0.2
Hours worked	Q2-01	-0.6	Q2-01	-0.6	Q2-01	-1.2	Q2-01	-0.9
Wages & salaries	Q2-01	0.4	Q2-01	0.6	Q2-01	2.9	Q2-01	3.1

Table 1: Recent growth rates for total industry (excluding construction) (%)

### Employment index for industry (excluding construction)

In the second quarter of 2001, euro-zone industrial employment fell for the first time in six quarters (on the basis of a comparison with the previous quarter). In the EU, positive growth observed in the first quarter of 2001 for the number of persons employed was reversed in the second quarter, although the rate of decline was not as marked as in the euro-zone.

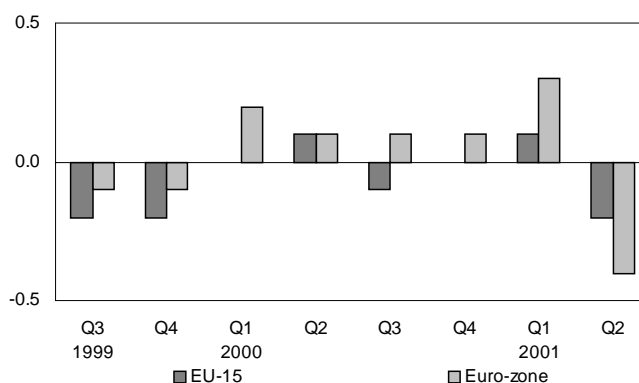


Figure 1: Employment index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

Data extracted on: 06.11.2001



<sup>1</sup> Euro-zone data up to the end of 2000 cover eleven Member States (B, D, E, F, IRL, I, L, NL, A, P and FIN); with Greece's entry into the euro-zone from the beginning of 2001, they cover twelve Member States.

The main industrial groupings (MIGs) displayed a mixed pattern of developments in the number of persons employed. The largest decline in industrial employment was recorded in the energy grouping, where 0.7% fewer persons were employed in the second quarter of 2001 when compared with the first quarter (euro-zone, -0.6%). There was a moderate reduction in the number of persons employed in the intermediate goods sector, with a 0.1% decline in the EU (and a more substantial loss of 0.4% in the euro-zone). There was almost no change in the number of persons employed in the consumer non-durables industries between the first and second quarters of 2001. On the other hand, the growth in the number of persons employed in the EU's capital goods and consumer durables industries, witnessed since the first half of 1999 continued unabated; with 0.6% more persons employed in the capital goods industries and 0.3% more persons within consumer durables industries.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
Total industry (excluding construction)	EU-15	0.0	0.1	-0.1	0.0	0.1	-0.2	-0.8	-0.3	-0.2	0.0	0.1	-0.2
	Euro-zone	0.2	0.1	0.1	0.1	0.3	-0.4	-0.2	0.1	0.3	0.5	0.7	0.2
Energy	EU-15	-1.3	-1.3	-0.7	-1.5	-0.3	-0.7	-3.8	-4.7	-4.4	-4.8	-3.8	-3.2
	Euro-zone	-1.1	-1.3	-0.8	-1.8	0.2	-0.6	-2.9	-3.9	-3.9	-4.7	-3.9	-3.1
Intermediate goods	EU-15	0.4	0.5	0.2	0.2	0.4	-0.1	0.1	0.9	1.1	1.3	1.3	0.7
	Euro-zone	0.4	0.5	0.3	0.2	0.1	-0.4	0.1	0.8	1.1	1.3	1.3	0.4
Capital goods	EU-15	0.5	0.3	0.2	0.5	0.6	0.6	0.7	1.2	1.2	1.6	1.8	2.0
	Euro-zone	0.4	0.3	0.3	0.5	0.6	0.3	0.7	1.2	1.3	1.6	1.7	1.7
Consumer durables	EU-15	0.4	0.4	0.3	0.4	0.5	0.3	1.6	1.6	1.2	1.5	2.0	1.6
	Euro-zone	0.4	0.4	0.3	0.6	0.6	-0.1	1.8	1.8	1.3	1.6	2.0	1.2
Consumer non-durables	EU-15	0.1	-0.1	-0.2	0.0	0.9	-0.1	-0.9	-0.6	-0.6	-0.3	0.6	0.6
	Euro-zone	-0.1	-0.1	-0.1	0.1	0.4	0.0	-0.9	-0.7	-0.5	-0.2	0.7	0.6

Table 2: Employment index for the MIGs, growth rates (%)

The index of employment for total industry grew in just four of the EU economies in the second quarter of 2001 (on the basis of a comparison with the previous quarter). Growth of 0.3% was recorded in Denmark (the third consecutive quarter that a positive figure was registered), whilst there was an increase of 0.2% in the number of persons employed in France and Luxembourg (continuing positive rates recorded since the start of 1999 in France and the start of 2000 in Luxembourg). The latest data available for Spain runs to the first quarter of 2001, when growth of 0.9% was registered (this continued a series of positive rates stretching back to the first quarter of 1998).

	Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
EU-15	0.0	0.1	-0.1	0.0	0.1	-0.2	-0.8	-0.3	-0.2	0.0	0.1	-0.2
Euro-zone	0.2	0.1	0.1	0.1	0.3	-0.4	-0.2	0.1	0.3	0.5	0.7	0.2
B	1.8	0.5	0.6	1.0	-0.9	0.0	2.0	2.1	2.4	3.9	1.2	0.7
DK	0.8	0.5	-1.5	0.1	1.1	0.3	-1.8	1.0	-2.2	-0.1	0.2	0.1
D	-0.1	0.2	0.1	0.1	0.2	0.1	-0.9	-0.1	0.1	0.3	0.7	0.5
EL	:	:	:	:	:	:	:	:	:	:	:	:
E	1.5	0.8	0.6	1.2	0.9	:	2.7	3.3	3.5	4.1	3.5	:
F	0.4	0.5	0.7	0.4	0.4	0.2	0.7	1.2	1.8	2.0	2.1	1.6
IRL (1)	:	:	:	:	:	:	:	:	:	:	:	:
I	-0.5	-0.8	-0.5	-0.6	-0.3	-1.1	-1.5	-2.2	-2.4	-2.4	-2.2	-2.5
L	0.6	0.5	0.3	0.4	0.4	0.2	1.1	1.3	1.3	1.9	1.7	1.4
NL	0.0	0.1	0.1	0.0	-0.1	0.0	0.2	0.2	0.3	0.3	0.1	0.0
A	0.2	0.2	0.3	0.2	1.3	-0.4	-0.8	0.0	0.6	0.9	1.9	1.4
P	-0.9	-0.2	-0.7	-0.7	-0.5	-1.6	-3.3	-2.6	-2.8	-2.5	-2.1	-3.6
FIN	-2.0	2.5	-0.1	-0.4	0.4	-0.3	3.2	2.2	-0.2	-0.1	2.3	-0.5
S	:	:	:	:	:	:	:	:	:	:	:	:
UK	-0.6	-0.7	-0.9	-0.8	-0.5	-0.7	-3.6	-2.9	-2.8	-2.9	-2.7	-2.7

Table 3: Employment index for total industry (excluding construction), growth rates (%)

(1) Data are available, but were not entered into the database for technical reasons.

## Employment index for services

Employment growth within the EU's retail trade sector was equal to 0.9% between the first and second quarters of 2001 - considerably above the corresponding rate for total industry (-0.2%) and continuing a series of positive rates around the 1% level dating back to the start of 2000. When compared to the same period of 2000, employment within the retail trade sector of the EU economy expanded 3.6% by the second quarter of 2001. This figure marked a continuation of the strong rates reported during 2000 and the first quarter of 2001 - although at a somewhat lower level than those recorded during most of this period.

Retail trade employment growth was particularly pronounced in Italy, Finland and Spain, where growth in excess of 1.0% was recorded between the first and second quarters of 2001. Whilst these figures were somewhat below the respective rates recorded in Italy and Spain since the start of 2000, they marked a change in Finland, where retail trade employment had fallen in three of the previous four quarters. The high growth rates for Italy and Spain fed through to large increases in the number of persons employed in retail trade on the basis of a comparison between the second quarters of 2000 and 2001, with increases of 8.8% and 6.8% respectively.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
Retail trade	EU-15	1.1	1.0	1.1	0.9	0.9	0.9	2.8	3.6	4.4	4.1	3.9	3.6
Division 52 (1)	Euro-zone	1.1	1.0	1.1	0.9	1.0	0.9	2.9	3.6	4.5	4.2	4.0	3.7
	DK	0.5	-0.4	-0.7	0.4	0.6	-0.4	0.9	1.7	0.0	-0.2	-0.1	-0.1
	D	0.2	-0.1	-0.1	-0.4	0.4	0.0	-2.7	-0.4	-0.3	-0.4	-0.2	0.0
	ES	2.3	0.9	1.6	1.9	2.3	1.1	6.6	5.0	10.1	6.9	7.1	6.8
	I	2.9	2.8	2.0	2.4	2.6	1.6	6.3	7.9	8.9	10.4	10.2	8.8
	L	-0.3	0.0	0.2	1.3	0.7	0.8	1.1	0.4	0.1	1.1	2.2	3.0
	FIN	1.2	-2.2	2.4	-2.5	-0.2	1.4	2.0	-2.0	0.9	-1.7	-2.9	1.3
Distribution (including retail trade)	F	0.8	0.9	0.7	0.8	0.7	0.6	3.0	3.3	3.1	3.3	3.2	2.7
	I	2.7	2.5	1.6	2.2	2.6	1.3	5.0	6.5	7.7	9.4	9.3	8.0
	NL	1.1	0.6	0.7	0.7	0.4	0.8	4.2	3.8	3.4	3.1	2.2	2.5
Section G	A (2)	:	:	:	:	:	:	1.1	1.2	0.9	1.6	1.4	1.4
Hotels & restaurants	F	1.2	1.6	1.1	0.3	0.4	1.8	4.1	6.4	6.5	4.3	3.3	3.7
	I	2.5	1.4	0.5	2.0	1.4	2.6	9.3	9.8	6.3	6.7	5.5	6.7
Section H	NL	2.2	-0.2	1.4	1.6	-0.4	1.9	4.5	4.0	4.9	5.1	2.3	4.5
	A	-0.9	0.5	0.3	-0.3	0.7	0.0	-1.2	0.8	2.0	-2.5	2.6	0.9
Transport & communication	F	0.8	1.2	0.7	0.8	0.8	0.1	3.1	3.6	3.5	3.6	3.7	2.4
	I	-0.8	-0.7	-0.9	-1.1	-1.1	-1.2	-2.9	-3.0	-3.0	-3.5	-3.8	-4.2
Section I	NL	1.1	0.5	0.6	0.7	0.4	0.9	3.5	3.3	3.0	3.0	2.0	2.7
	FIN	-1.0	4.5	1.6	-1.8	1.4	1.5	-2.5	2.5	4.0	3.2	5.8	2.7
Financial intermediation	F	0.4	0.5	0.4	0.1	0.3	0.2	0.9	1.8	2.6	1.3	0.9	0.7
	I	0.3	0.4	0.4	0.3	0.0	-0.1	0.0	0.5	1.0	1.4	1.0	0.5
Section J	NL	1.2	1.3	0.9	0.9	-2.1	3.8	6.3	6.1	5.2	4.3	0.7	3.4
Business services	F	2.3	2.2	1.5	1.4	1.7	1.1	8.5	8.6	8.0	7.6	7.1	5.7
	I	0.9	1.0	0.8	0.6	-1.5	1.1	3.1	3.4	3.7	3.4	0.9	0.9
Section K	NL	2.5	0.8	1.1	1.1	0.0	1.6	6.6	6.2	5.7	5.6	3.0	3.9

*Table 4: Employment index for services, growth rates (%)*

No data available for Member States not included in the table.

- (1) Data from the Netherlands and France have been used in the calculation of the European aggregates but cannot be published for confidentiality reasons.
- (2) Because the data starts in the first quarter of 1999 the time-series is not long enough for seasonal adjustment.

## Hours worked index for total industry (excluding construction)

After recording negative rates during 2000, there was growth in the number of hours worked in the EU industrial economy during the first quarter of 2001. However, data for the second quarter did not repeat this development, as the number of hours worked in both the EU and euro-zone fell by 0.6% (compared to the first quarter of 2001). These latest figures, together with the negative rates recorded in 2000 fed through to result in 1.2% less hours being worked in the EU industrial economy (0.9% less for the euro-zone) in the second quarter of 2001 compared to the second quarter of 2000.

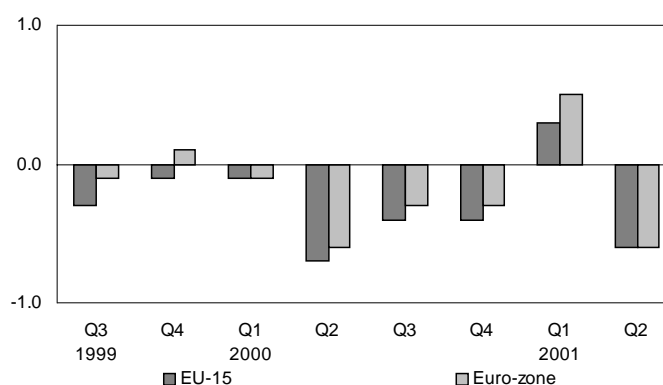


Figure 2: Hours worked index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
Total industry (excluding construction)	EU-15	-0.1	-0.7	-0.4	-0.4	0.3	-0.6	0.7	-1.4	-1.6	-2.1	-0.7	-1.2
	Euro-zone	-0.1	-0.6	-0.3	-0.3	0.5	-0.6	1.5	-1.1	-1.2	-1.6	-0.1	-0.9
Energy	EU-15	:	:	:	:	:	:	:	:	:	:	:	:
	Euro-zone	-1.8	-2.7	-2.1	-1.7	0.2	-0.6	-1.9	-6.6	-7.0	-9.3	-5.1	-4.0
Intermediate goods	EU-15	-0.1	-0.3	-0.1	-0.2	0.0	-0.3	1.6	-0.7	-0.5	-0.8	0.1	-1.0
	Euro-zone	-0.1	-0.3	-0.1	-0.2	0.0	-0.3	1.6	-0.7	-0.5	-0.8	0.1	-1.0
Capital goods	EU-15	0.2	-0.3	0.0	0.0	0.3	0.0	2.9	-0.2	-0.3	-0.5	0.9	0.2
	Euro-zone	0.2	-0.3	0.0	0.0	0.3	0.0	2.9	-0.2	-0.3	-0.5	0.9	0.2
Consumer durables	EU-15	-0.6	-0.4	-0.5	-0.5	0.5	-0.6	0.4	-1.6	-1.9	-2.6	0.0	-1.4
	Euro-zone	-0.6	-0.4	-0.5	-0.5	0.5	-0.6	0.4	-1.6	-1.9	-2.6	0.0	-1.4
Consumer non-durables	EU-15	:	:	:	:	:	:	:	:	:	:	:	:
	Euro-zone	0.0	-1.7	-0.1	-1.1	1.7	-1.6	0.4	-2.9	-2.4	-2.8	-1.2	-1.1

Table 5: Hours worked index for the MIGs, growth rates (%)

Missing MIGs are not calculated due to a lack of information from the Member States.

	Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
EU-15	-0.1	-0.7	-0.4	-0.4	0.3	-0.6	0.7	-1.4	-1.6	-2.1	-0.7	-1.2
Euro-zone	-0.1	-0.6	-0.3	-0.3	0.5	-0.6	1.5	-1.1	-1.2	-1.6	-0.1	-0.9
B	1.3	-0.1	-1.1	1.6	-0.1	-1.2	2.8	1.4	-1.0	2.2	0.3	-1.0
D	0.2	-1.2	-0.1	-0.9	1.8	-1.8	2.0	-0.2	-0.5	-2.0	-0.4	-1.0
F	-0.6	-0.4	0.0	0.2	0.1	0.2	-2.0	-2.2	-1.7	-0.8	-0.1	0.6
I	0.0	-1.0	-0.3	-0.3	0.6	-1.2	4.2	-1.6	-1.8	-2.1	0.3	-1.6
L	0.5	-0.6	-0.6	0.4	1.3	-1.3	-0.1	-0.8	-1.5	-0.3	0.5	-0.2
NL	0.0	0.0	0.1	0.1	-0.1	0.1	0.3	0.2	0.4	0.3	0.0	0.1
A	0.4	0.4	-0.9	0.1	2.6	-1.6	1.2	-0.9	-1.3	-0.1	2.1	0.1
P	-0.9	-1.2	-0.9	-0.9	-0.8	-0.9	-2.3	-4.2	-4.6	-4.2	-3.3	-3.6
FIN	-3.6	0.7	1.1	-3.6	2.5	-1.9	3.2	-1.7	-0.3	-5.5	0.8	-2.0
UK	0.1	-1.3	-1.1	-1.8	0.3	-0.5	-3.0	-2.8	-3.4	-4.3	-3.9	-3.0

Table 6: Hours worked index for total industry (excluding construction), growth rates (%)

No data available for Member States not included in the table.

## Wages and salaries index for total industry (excluding construction)

The increasingly large growth rates for wages and salaries seen in the EU industrial economy between the third quarter of 2000 and the first quarter of 2001 did not continue in the second quarter of 2001. Wages and salaries for industrial activities rose by 0.4% in the EU in the second quarter of 2001 compared to the previous quarter, following a 1.3% increase in the first quarter.

Wage growth was particularly pronounced in Finland (1.6%), Luxembourg (1.3%), Belgium (0.7%) and France (0.6%) between the first and second quarters of 2001.

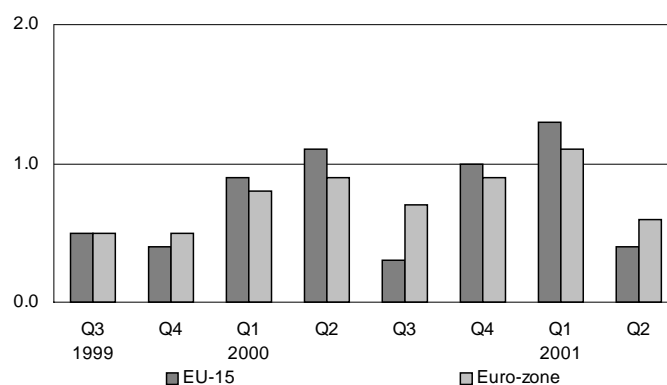


Figure 3: Wages and salaries index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
Total industry (excluding construction)	EU-15	0.9	1.1	0.3	1.0	1.3	0.4	3.1	3.1	2.5	2.9	4.3	2.9
	Euro-zone	0.8	0.9	0.7	0.9	1.1	0.6	3.1	3.0	2.6	2.9	4.3	3.1
Energy	EU-15	0.7	-1.5	-0.4	-1.0	0.6	-0.2	2.2	-1.0	-1.6	-2.4	-2.3	-0.7
	Euro-zone	0.8	-1.6	-0.4	-1.0	0.8	-0.1	2.3	-1.0	-1.5	-2.3	-2.1	-0.5
Intermediate goods	EU-15	0.9	1.5	0.3	0.9	1.8	0.1	3.2	3.6	3.4	3.3	5.0	3.0
	Euro-zone	0.9	1.5	0.3	1.0	1.8	0.3	3.2	3.5	3.3	3.2	5.0	3.3
Capital goods	EU-15	1.3	1.3	0.8	1.3	1.2	0.8	3.6	3.8	3.5	4.7	5.4	3.9
	Euro-zone	1.2	1.2	0.9	1.3	1.2	0.9	3.6	3.8	3.5	4.8	5.3	4.0
Consumer durables	EU-15	0.2	0.3	0.4	0.3	0.4	0.3	1.6	1.2	0.9	0.8	1.8	1.7
	Euro-zone	0.2	0.2	0.3	0.4	0.7	0.7	1.7	1.2	0.9	0.7	1.9	2.4
Consumer non-durables	EU-15	0.8	0.8	0.1	0.7	0.9	0.2	2.3	2.6	1.2	1.9	2.9	1.9
	Euro-zone	0.9	0.7	0.1	0.7	1.0	0.3	2.3	2.5	1.2	2.0	3.0	2.2

Table 7: Wages and salaries index for the MIGs, growth rates (%)

	Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
EU-15	0.9	1.1	0.3	1.0	1.3	0.4	3.1	3.1	2.5	2.9	4.3	2.9
Euro-zone	0.8	0.9	0.7	0.9	1.1	0.6	3.1	3.0	2.6	2.9	4.3	3.1
B	1.8	1.1	0.5	1.3	0.7	0.7	4.7	4.2	3.6	5.1	3.7	2.8
DK	0.8	0.8	0.6	0.8	0.9	:	2.9	4.8	1.9	2.0	3.6	:
D	0.8	1.1	0.5	0.2	1.6	0.0	2.0	2.6	2.7	2.3	3.6	2.5
F	1.0	1.1	0.5	1.5	2.0	0.6	3.2	3.1	3.5	4.2	5.1	4.6
I	0.9	0.5	-0.1	1.1	1.1	0.4	5.6	3.2	-0.1	1.8	4.2	2.5
L	1.0	1.6	2.1	0.7	1.8	1.3	4.4	4.3	6.6	5.3	6.4	6.1
NL	0.6	1.0	1.0	1.2	3.3	-1.6	3.0	3.1	3.3	4.0	6.7	3.9
A	0.2	1.0	0.7	0.9	1.7	-0.6	0.9	1.4	2.1	2.8	4.5	2.8
P	0.7	1.0	0.8	0.3	0.9	0.5	2.5	3.5	4.0	2.2	3.2	2.5
FIN	1.0	2.5	1.7	0.0	3.4	1.6	6.8	8.4	4.8	5.4	8.0	6.6

Table 8: Wages and salaries index for total industry (excluding construction), growth rates (%)

No data available for Member States not included in the table.

## EU-15 labour input indices for industrial Divisions of NACE

NACE Rev. 1 heading (code)	Employment						Hours worked						Wages and salaries					
	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q1-00	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01
Mining of coal and lignite 10	60.5	58.5	56.9	55.0	53.5	52.2	60.9	57.7	54.5	51.2	52.1	51.0	71.9	72.3	69.2	67.1	62.2	63.9
Gas and oil extraction 11	107.2	108.5	108.2	107.5	107.6	109.4	:	:	:	:	:	:	:	:	:	:	:	:
Uranium & thorium mining 12	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Other non-metallic mining 14	91.7	92.5	89.8	89.7	88.7	:	:	:	:	:	:	:	95.3	96.0	96.3	96.4	96.8	96.6
Food and beverages 15	100.3	101.1	101.5	101.6	102.0	102.0	99.4	98.4	98.4	97.9	98.3	:	107.0	107.9	108.2	108.7	109.5	109.8
Tobacco 16	100.2	100.1	99.1	93.9	91.6	:	:	:	:	:	:	:	:	:	:	:	:	:
Textiles 17	87.9	87.7	86.9	86.6	87.1	86.5	91.6	90.9	90.5	90.2	90.2	:	101.2	101.7	101.9	102.3	103.3	103.5
Clothing 18	78.7	77.6	76.2	74.7	74.6	73.7	85.0	83.2	81.6	81.2	82.1	:	93.4	93.0	91.8	92.2	92.5	91.0
Leather products 19	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Wood products 20	100.6	101.7	102.3	102.6	102.5	102.1	:	:	:	:	:	:	103.9	104.9	104.5	103.9	104.2	103.5
Pulp & paper 21	94.3	94.3	94.4	94.1	93.4	93.9	96.3	94.9	95.3	93.8	94.5	:	107.8	109.7	108.4	109.6	112.3	112.5
Publishing & printing 22	102.0	101.2	101.5	102.0	101.8	102.1	103.5	103.2	102.7	103.8	104.8	:	112.0	113.6	113.9	115.3	116.6	117.4
Fuel products 23	86.1	83.3	83.6	82.1	84.0	83.2	:	:	:	:	:	:	95.5	95.7	93.6	97.3	97.1	100.3
Chemicals 24	96.4	96.4	96.5	96.1	96.4	96.3	100.4	98.5	98.5	98.0	99.4	:	105.7	106.2	106.6	107.6	109.1	110.5
Rubber & plastic 25	102.5	103.7	103.7	103.5	104.0	103.1	103.2	103.3	103.5	103.5	103.6	:	111.9	114.5	113.9	115.7	117.8	118.3
Non-metallic minerals 26	95.3	96.0	96.0	96.3	96.8	96.7	94.7	92.9	92.4	92.3	92.7	:	103.1	104.1	104.3	105.1	105.7	105.7
Basic metals 27	93.2	93.4	93.6	94.3	94.5	94.4	93.9	92.9	92.8	93.7	95.0	:	103.3	105.2	106.1	106.2	109.2	108.1
Metal products 28	102.0	101.9	101.9	102.2	101.3	101.1	102.1	101.2	101.7	101.9	102.5	:	109.8	111.4	111.7	113.8	115.0	115.6
Machinery 29	97.6	97.9	97.7	97.6	98.8	98.9	97.6	97.6	97.6	97.4	97.5	97.1	108.3	110.0	110.1	112.1	113.4	114.1
Office machinery 30	98.4	96.7	97.3	98.9	98.1	98.4	96.2	96.5	97.0	97.5	98.4	:	100.7	94.4	92.5	94.5	96.0	95.2
Electrical machinery 31	96.6	96.9	97.5	97.9	97.7	97.4	96.2	96.3	96.4	96.5	96.9	97.0	105.1	106.1	106.3	107.9	111.9	110.8
Radio/TV/communication 32	103.6	105.0	106.4	107.2	108.1	108.1	107.0	106.3	108.5	108.5	111.3	:	121.9	124.8	127.7	130.5	133.7	136.3
Medical and optical 33	99.2	98.9	100.3	101.8	103.3	104.1	:	:	:	:	:	:	108.9	110.4	111.1	113.7	116.3	117.7
Motor vehicles 34	105.9	106.1	106.6	107.0	107.0	107.1	:	:	:	:	:	:	120.2	122.9	123.9	125.4	128.0	128.7
Other transport 35	96.9	97.0	96.2	96.1	96.2	96.4	93.1	92.3	91.9	91.6	91.7	:	101.9	104.0	104.3	104.9	106.6	107.8
Furniture & other manf. 36	98.9	98.9	98.8	99.1	99.1	:	:	:	:	:	:	:	99.7	100.5	100.0	100.6	101.8	:
Recycling 37	123.2	125.4	125.1	122.9	124.4	123.5	:	:	:	:	:	:	135.7	139.7	131.7	135.9	140.8	140.7
Energy/hot water supply 40	85.8	85.4	85.2	84.5	83.9	:	:	:	:	:	:	:	:	:	:	:	:	:
Water 41	90.7	90.2	90.0	89.8	90.2	89.2	104.7	103.3	101.9	101.9	102.4	:	112.3	112.5	112.7	113.0	114.2	114.5
Construction 45	108.5	108.8	108.0	107.8	107.8	107.5	94.0	93.5	92.9	92.5	91.7	:	102.5	103.1	102.9	102.9	102.7	102.3

Table 9: Indices for the EU, seasonally adjusted, 1995 = 100 (1)

- (1) Missing indicators are not calculated due to a lack of information from the Member States.  
Hours worked and wages and salaries now include data from France thus allowing the composition of European aggregates for most branches.

## ➤ ESSENTIAL INFORMATION – METHODOLOGICAL NOTES

Labour Input Indices shown in this publication represent in general the evolution of the labour market in the economy. Business statistics aim at providing information for the analysis of the economic cycle.

The Short Term Business Statistics section of Eurostat (D3/EBT) compiles in particular the following three labour input indicators:

The index of the **number of persons employed** monitors the development of employment in industry and services in terms of total numbers. This indicator may be approximated by the number of employees.

The index of **hours worked** shows the development in the total volume of work done.

Lastly, it is the objective of the index of **wages and salaries** to show the evolution of the total amount of wages and salaries paid.

The **legal basis** for these labour input indicators is the Council Regulation No 1165/98 of 19th of May 1998 concerning short-term statistics, which is currently in the process of implementation.

### Employment index

The number of persons employed is defined as the total number of persons working in an observation unit (inclusive of working proprietors, partners working regularly in the unit and unpaid family workers), as well as persons who work outside the unit who belong to it and are paid by it (e.g. sales representatives, delivery personnel, repair and maintenance teams). It includes persons absent for a short period (e.g. sick leave, paid leave or special leave), and also those on strike, but not those absent for an indefinite period. It also includes part-time workers who are regarded as such under the laws of the country concerned and who are

on the payroll, as well as seasonal workers, apprentices and home workers on the payroll. The number of persons employed excludes manpower supplied to the unit by other enterprises, persons carrying out repair and maintenance work in the observation unit on behalf of other enterprises, as well as those on compulsory military service.

### Hours worked index

The total number of hours worked by employees represents the aggregate number of hours actually worked for the observation unit during the reference period. This variable excludes hours paid but not actually worked such as for annual leave, holidays and sickness leave. It also excludes meal breaks and commuting between home and work. Included are hours actually worked during normal working hours; hours worked in addition to those; time which is spent at the place of work on tasks such as preparing the site and time corresponding to short periods of rest at the work place. If the exact number of hours actually worked is not known, it may be estimated on the basis of the theoretical number of working hours and the average rate of absences (sickness, maternity, etc.).

### Wages and salaries index

Wages and salaries include all gratuities, bonuses, ex gratia payments, 13th month payments, severance payments, lodging, transport, cost-of-living, and family allowances, tips, commission, attendance fees, etc. received by employees, as well as taxes, social security contributions and other amounts payable by employees and withheld at source by the employer. Payments for agency workers are not included in wages and salaries.

### Related indices

This publication on labour input variables supplements the Eurostat publications on labour costs. In addition, the National Accounts contain information on the labour input variables.

The **labour cost index** aims at providing information on the evolution of labour costs and thus has a different focus compared to the labour input variables of business statistics. For many Member States the actual source for the labour cost index is, at least partly, business statistics. Some Member States base this index on data from National Accounts, administrative employer files or a separate earnings survey. A mixture of different sources may be used.

The **National Accounts** provide information on labour input variables in physical as well as in value forms. These variables complement other National Accounts aggregates and therefore need to be fully consistent with them. Business statistics are used by many Member States for short-term analysis in the context of quarterly National Accounts, in addition to information from Labour Force Surveys. When revising these estimates later, more administrative data is taken into account.

Please note that the different sources may show some variations due to different practices of revisions, seasonal adjustment, characteristics of data sources, and aggregation methods.

**For more information please contact the short-term statistics section of unit D3, Eurostat:**

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## ➤ Reference publications

Title Monthly Panorama of European Business  
 Catalogue No KS-AM-01-000-EN-C Price EUR 162

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New Cronos, Theme 4  
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