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

*Industrial employment down by 0.7% in the EU*

*Paolo Cerruti*

The index of employment for total industry (excluding construction) in the EU fell by 0.7% in the third quarter of 2001 compared to the quarter before, whilst the corresponding index for the euro-zone<sup>1</sup> fell by 0.5%. The number of hours worked in both the EU and the euro-zone declined at a less rapid pace, down by 0.3% and 0.2% respectively in the third quarter of 2001 (again compared to the quarter before). Over the same period, there was an increase in wages and salaries that was equal to 0.8% in the EU and 1.0% 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	Q3-01	-0.7	Q3-01	-0.5	Q3-01	-1.0	Q3-01	-0.5
Hours worked	Q3-01	-0.3	Q3-01	-0.2	Q3-01	-1.3	Q3-01	-1.0
Wages & salaries	Q3-01	0.8	Q3-01	1.0	Q3-01	3.5	Q3-01	3.6

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

## Employment index for industry (excluding construction)

The decline in both EU and euro-zone industrial employment in the third quarter of 2001 (on the basis of a comparison with the previous quarter) continued the downward trend which started in the second quarter of 2001. For the euro-zone, these two negative rates came after five consecutive quarters of positive employment growth.

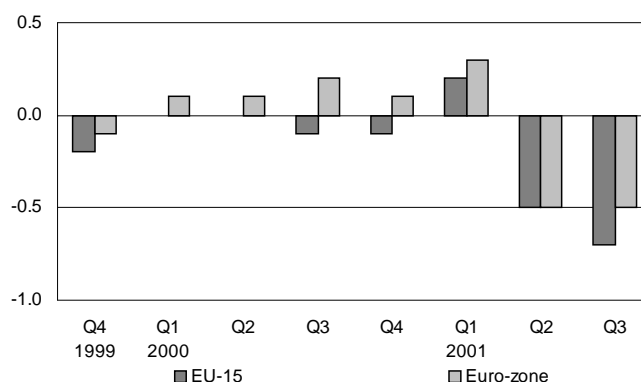


Figure 1: Employment index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)



<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.

Looking at the main industrial groupings (MIGs), there were generally negative rates of change recorded for the number of persons employed between the second and third quarters of 2001. The exceptions were consumer durables (for the EU) and consumer non-durables (for both the EU and the euro-zone): where slight increases of between 0.1% and 0.2% were recorded. At the opposite end of the spectrum, there was a marked decline in the number of persons employed in the euro-zone's energy sector (-0.9%). The next largest decline was registered in the intermediate goods sector, where employment fell by 0.6% in the EU and 0.4% in the euro-zone. For energy in the euro-zone and intermediate goods in the EU and euro-zone, the declines registered in the third quarter of 2001 were larger than those that had been recorded in the second quarter.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
Total industry (excluding construction)	EU-15	0.0	-0.1	-0.1	0.2	-0.5	-0.7	-0.3	-0.3	-0.1	0.1	-0.4	-1.0
	Euro-zone	0.1	0.2	0.1	0.3	-0.5	-0.5	0.1	0.3	0.5	0.7	0.1	-0.5
Energy	EU-15	-1.4	-0.9	-1.7	-0.3	-0.6	-0.3	-5.1	-4.9	-5.6	-4.1	-3.4	-2.8
	Euro-zone	-1.2	-0.7	-2.0	0.1	-0.6	-0.9	-3.8	-3.9	-4.8	-3.8	-3.2	-3.5
Intermediate goods	EU-15	0.5	0.3	0.2	0.4	-0.2	-0.6	0.9	1.0	1.2	1.4	0.7	-0.2
	Euro-zone	0.4	0.4	0.1	0.3	-0.3	-0.4	0.8	1.0	1.2	1.4	0.4	-0.2
Capital goods	EU-15	0.3	0.3	0.6	0.6	0.5	-0.2	1.2	1.2	1.5	1.7	1.9	1.4
	Euro-zone	0.3	0.4	0.5	0.5	0.3	-0.1	1.2	1.3	1.5	1.7	1.7	1.3
Consumer durables	EU-15	0.4	0.4	0.4	0.4	0.2	0.1	1.7	1.2	1.5	2.0	1.6	1.0
	Euro-zone	0.3	0.3	0.6	0.7	-0.3	-0.2	1.8	1.3	1.6	1.9	1.2	0.7
Consumer non-durables	EU-15	0.0	0.0	0.1	0.3	0.1	0.2	-0.6	-0.6	-0.3	0.6	0.6	0.7
	Euro-zone	-0.1	-0.1	0.0	0.3	0.1	0.2	-0.7	-0.5	-0.2	0.7	0.6	0.5

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

Despite the general trend of there being fewer persons employed in industrial activities, the Finnish industrial economy reported growth of 0.4% in the third quarter of 2001 (compared with the previous quarter), while there was little or no change in industrial employment in Germany, Spain, France or the Netherlands. The remaining countries for which data are available reported negative rates, which fell as low as 2.3% in Denmark.

	Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
EU-15	0.0	-0.1	-0.1	0.2	-0.5	-0.7	-0.3	-0.3	-0.1	0.1	-0.4	-1.0
Euro-zone	0.1	0.2	0.1	0.3	-0.5	-0.5	0.1	0.3	0.5	0.7	0.1	-0.5
B	0.6	0.7	0.6	-0.9	0.1	-0.2	2.0	1.5	1.2	1.0	0.5	-0.5
DK	0.5	-1.4	0.2	0.9	0.0	-2.3	1.0	-2.2	-0.1	0.2	-0.2	-1.3
D	0.2	0.1	0.1	0.1	0.0	0.0	-0.1	0.1	0.3	0.7	0.5	-0.1
EL	:	:	:	:	:	:	:	:	:	:	:	:
E	0.9	0.6	1.1	0.8	-0.7	-0.1	3.3	3.5	4.1	3.5	1.8	1.1
F	0.5	0.8	0.4	0.4	0.0	-0.1	1.2	1.8	2.0	2.1	1.7	0.8
IRL (1)	:	:	:	:	:	:	:	:	:	:	:	:
I	-0.9	-0.4	-0.6	-0.4	-1.2	-1.4	-2.2	-2.4	-2.4	-2.2	-2.5	-3.4
L	0.5	0.4	0.4	0.4	0.2	-0.8	1.3	1.3	1.9	1.7	1.4	0.2
NL	0.1	0.1	0.0	-0.1	0.0	0.1	0.2	0.3	0.3	0.1	0.0	0.0
A	0.2	0.3	0.2	1.3	-0.4	-0.4	0.0	0.6	0.9	1.9	1.4	0.7
P	-0.3	-0.7	-0.8	-0.6	-1.3	-0.9	-2.6	-2.8	-2.5	-2.1	-3.6	-3.8
FIN	2.5	-0.2	-0.4	0.4	-0.3	0.4	2.2	-0.2	-0.1	2.3	-0.6	0.1
S	:	:	:	:	:	:	:	:	:	:	:	:
UK	-0.8	-0.9	-0.8	-0.6	-0.7	-1.2	-2.7	-2.8	-3.2	-3.0	-3.0	-3.3

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

The EU's retail trade sector continued to display positive employment growth during the third quarter of 2001. When comparing to the previous quarter, the number of persons employed in this sector expanded by 0.7%. This figure was slightly lower than the rates achieved during 2000 and the first half of 2001. A similar development could be seen when comparing the third quarter of 2001 to the same quarter of 2000. Here employment in the EU's retail trade sector expanded by 3.2%, following growth rates above 4% during most of the second half of 2000 and first half of 2001.

Against a background of decelerating (or even negative) employment growth in many EU Member States, the Spanish retail trade sector actually displayed a higher growth rate in the third quarter of 2001 (on the basis of a comparison with the preceding quarter) than in the second quarter of 2001 (1.0% versus 0.8%). Strong year on year growth rates were recorded in Italy (6.8%) and Spain (5.3%) in the third quarter of 2001, although these rates marked a slowdown of 2.0 and 1.5 percentage points when compared to the quarter before.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
Retail trade	EU-15	1.0	1.2	0.9	0.9	0.8	0.7	3.6	4.4	4.2	4.1	3.9	3.2
Division 52 (1)	Euro-zone	1.1	1.3	0.9	0.9	0.8	0.7	3.6	4.5	4.3	4.2	3.9	3.3
	DK	-0.4	-0.6	0.3	0.6	-0.3	-0.6	1.7	0.0	-0.2	-0.1	0.1	0.0
	D	0.0	0.0	-0.1	0.7	0.1	0.1	-0.4	-0.3	-0.1	0.6	0.7	0.9
	E	0.8	2.3	1.5	2.1	0.8	1.0	5.0	10.1	6.9	7.1	6.8	5.3
	I	2.7	2.2	2.4	2.4	1.4	0.5	7.9	8.9	10.4	10.2	8.8	6.8
	L	0.0	0.2	1.3	0.7	0.8	0.8	0.4	0.1	1.1	2.2	3.0	3.6
	FIN	-2.2	2.4	-2.5	-0.2	1.4	-0.9	-2.0	0.9	-1.7	-2.9	1.3	-2.0
Distribution (including retail trade)	F	0.9	0.7	0.8	0.6	0.6	0.6	3.3	3.1	3.3	3.2	2.8	2.5
	I	2.5	1.9	2.2	2.4	1.3	0.1	6.5	7.7	9.4	9.3	8.0	6.0
	NL	0.5	0.8	0.6	0.3	0.6	0.1	3.8	3.4	3.1	2.2	2.5	1.6
Section G	A (2)	:	:	:	:	:	:	1.2	0.9	1.6	1.4	1.4	1.2
Hotels & restaurants	F	1.7	1.2	0.3	0.3	1.5	0.6	6.4	6.5	4.3	3.3	3.3	2.7
	I	1.4	0.5	2.0	1.4	2.6	1.5	9.8	6.3	6.7	5.5	6.7	7.5
Section H	NL	-0.3	1.6	1.5	-0.5	1.8	0.1	4.0	4.9	5.1	2.3	4.5	2.8
	A	0.5	0.3	-0.2	0.8	0.1	0.2	0.8	2.0	-2.5	2.6	0.9	1.0
Transport & communication	F	1.2	0.8	0.8	0.8	0.0	0.2	3.6	3.5	3.6	3.7	2.4	1.8
	I	-0.7	-0.9	-1.2	-1.0	-1.1	-0.4	-3.0	-3.0	-3.5	-3.8	-4.2	-3.7
Section I	NL	0.4	0.7	0.7	0.4	0.8	0.5	3.3	3.0	3.0	2.0	2.7	2.5
	FIN	4.5	1.6	-1.8	1.4	1.5	-2.8	2.5	4.0	3.2	5.8	2.7	-1.7
Financial intermediation	F	0.4	0.5	0.0	0.2	-0.1	-0.1	1.8	2.6	1.3	0.9	0.6	-0.1
	I	0.4	0.5	0.3	-0.2	-0.2	-0.5	0.5	1.0	1.4	1.0	0.5	-0.6
Section J	NL	1.3	0.9	0.9	-2.1	3.8	0.8	6.1	5.2	4.3	0.7	3.4	3.4
Business services	F	2.2	2.0	0.9	1.6	0.8	0.6	8.6	8.0	7.6	7.1	5.6	4.0
	I	1.0	0.7	0.6	-1.5	1.1	5.4	3.4	3.7	3.4	0.9	0.9	5.6
Section K	NL	0.8	1.1	1.1	0.0	1.6	1.3	6.2	5.7	5.6	3.0	3.9	4.1

*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)

The second quarter of 2001 had witnessed a decline in the number of industrial hours worked. This continued at a slower pace during the third quarter of 2001 (-0.3% for the EU and -0.2% for the euro-zone, compared to the preceding quarter).

In comparison to the same quarter of 2000, industrial hours worked declined by 1.3% in the EU and by 1.0% in the euro-zone. The most substantial reductions amongst the Member States using this measure were posted in Finland, Portugal and the United Kingdom.

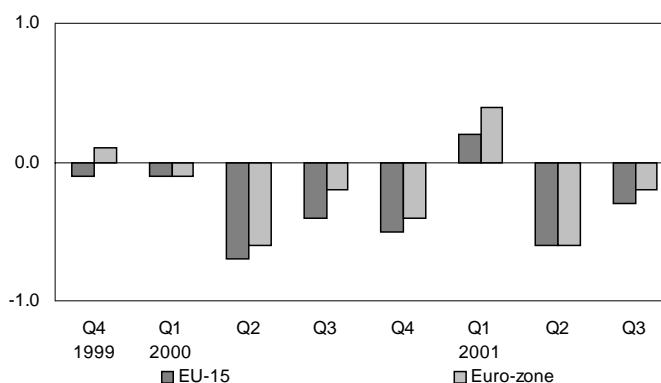


Figure 2: Hours worked index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
Total industry (excluding construction)	EU-15	-0.7	-0.4	-0.5	0.2	-0.6	-0.3	-1.3	-1.5	-2.0	-0.7	-1.2	-1.3
	Euro-zone	-0.6	-0.2	-0.4	0.4	-0.6	-0.2	-1.0	-1.1	-1.5	-0.1	-0.9	-1.0
Energy	EU-15	:	:	:	:	:	:	:	:	:	:	:	:
	Euro-zone	-3.2	-1.3	-1.6	0.9	-2.5	-1.2	-4.6	-6.2	-8.0	-5.0	-4.5	-4.4
Intermediate goods	EU-15	-0.3	0.0	-0.3	0.0	-0.5	-0.4	-0.7	-0.6	-1.1	0.0	-1.0	-1.7
	Euro-zone	-0.3	0.0	-0.3	0.0	-0.5	-0.4	-0.7	-0.6	-1.1	0.0	-1.0	-1.7
Capital goods	EU-15	-0.1	0.1	0.0	0.2	-0.2	-0.2	-0.1	-0.1	-0.4	1.1	0.1	-0.4
	Euro-zone	-0.1	0.1	0.0	0.2	-0.2	-0.2	-0.1	-0.1	-0.4	1.1	0.1	-0.4
Consumer durables	EU-15	-0.4	-0.4	-0.4	0.3	-0.7	-0.3	-1.6	-1.8	-2.3	0.2	-1.4	-1.2
	Euro-zone	-0.4	-0.4	-0.4	0.3	-0.7	-0.3	-1.6	-1.8	-2.3	0.2	-1.4	-1.2
Consumer non-durables	EU-15	-1.2	-0.1	-0.5	0.6	-0.9	0.0	-2.6	-2.1	-2.4	-0.9	-1.0	-1.0
	Euro-zone	-1.2	-0.1	-0.5	0.6	-0.9	0.0	-2.6	-2.1	-2.4	-0.9	-1.0	-1.0

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					
	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
EU-15	-0.7	-0.4	-0.5	0.2	-0.6	-0.3	-1.3	-1.5	-2.0	-0.7	-1.2	-1.3
Euro-zone	-0.6	-0.2	-0.4	0.4	-0.6	-0.2	-1.0	-1.1	-1.5	-0.1	-0.9	-1.0
B	0.0	-0.8	1.2	-0.5	-0.8	0.0	1.1	-1.3	1.8	0.2	-1.1	-0.2
D	-1.2	-0.1	-0.9	1.8	-1.8	-0.4	-0.2	-0.5	-2.0	-0.4	-1.0	-1.2
F	-0.3	0.2	0.3	0.0	-0.2	-0.2	-1.8	-1.3	-0.3	0.2	0.3	-0.1
I	-1.0	-0.3	-0.3	0.5	-1.1	-0.3	-1.6	-1.8	-2.1	0.3	-1.6	-1.3
L	-0.6	-0.4	0.3	1.2	-1.4	-0.9	-0.8	-1.5	-0.3	0.5	-0.3	-0.9
NL	0.0	0.1	0.1	-0.1	0.1	0.0	0.2	0.4	0.3	0.0	0.1	0.0
A	0.3	-0.7	0.0	2.5	-1.7	-1.9	-0.9	-1.3	-0.1	2.1	0.1	-1.2
P	-1.2	-0.9	-1.0	-0.9	-0.9	-1.0	-4.2	-4.6	-4.2	-3.3	-3.6	-3.9
FIN	0.8	1.0	-3.6	2.4	-1.9	-1.3	-1.7	-0.3	-5.5	0.8	-2.1	-4.4
UK	-1.2	-1.2	-1.7	0.5	-0.5	-0.6	-2.6	-3.4	-4.2	-3.6	-2.7	-2.5

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)

Industrial wage and salary growth picked up speed again in the third quarter of 2001 (on the basis of a comparison with the preceding quarter) after a slowdown in the second quarter. Wage growth was equal to 0.8% in the EU and 1.0% in the euro-zone. The highest wage growth feeding into the EU figures were recorded in Austria (5.7%), Italy (1.3%), Belgium and the Netherlands (both 1.1%).

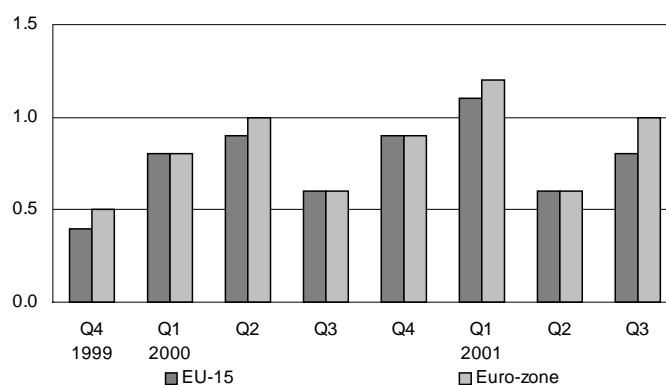


Figure 3: Wages and salaries index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

The year on year growth rates of wages and salaries in the third quarter of 2001 were equal to 3.5% in the EU and 3.6% in the euro-zone.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
Total industry (excluding construction)	EU-15	0.9	0.6	0.9	1.1	0.6	0.8	3.0	2.5	2.8	4.2	3.2	3.5
	Euro-zone	1.0	0.6	0.9	1.2	0.6	1.0	3.0	2.6	2.8	4.3	3.2	3.6
Energy	EU-15	-1.5	-1.3	-0.8	1.3	0.5	1.0	-1.0	-1.7	-2.5	-2.4	-0.4	2.0
	Euro-zone	-1.4	-1.3	-0.9	1.5	0.3	0.9	-0.9	-1.6	-2.4	-2.2	-0.4	1.8
Intermediate goods	EU-15	1.1	0.9	0.9	1.0	0.5	0.6	3.6	3.3	3.2	5.0	3.4	2.6
	Euro-zone	1.1	1.0	0.8	1.0	0.5	0.5	3.5	3.3	3.2	5.0	3.4	2.4
Capital goods	EU-15	1.2	0.9	1.3	1.3	1.0	1.4	3.7	3.4	4.4	5.4	4.2	4.7
	Euro-zone	1.2	0.9	1.2	1.3	0.9	1.3	3.7	3.4	4.4	5.4	4.1	4.5
Consumer durables	EU-15	0.2	-0.1	0.4	1.3	0.9	0.3	1.2	0.9	1.0	1.9	2.6	2.9
	Euro-zone	0.2	0.4	0.5	0.7	0.6	0.5	1.2	0.8	0.8	1.9	2.5	2.1
Consumer non-durables	EU-15	0.7	0.0	0.8	1.1	0.6	0.8	2.7	1.3	1.7	3.1	2.5	3.6
	Euro-zone	0.7	0.0	0.9	1.1	0.5	0.6	2.6	1.3	2.1	3.1	2.5	3.3

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					
	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
EU-15	0.9	0.6	0.9	1.1	0.6	0.8	3.0	2.5	2.8	4.2	3.2	3.5
Euro-zone	1.0	0.6	0.9	1.2	0.6	1.0	3.0	2.6	2.8	4.3	3.2	3.6
B	1.2	0.3	1.1	0.7	0.2	1.1	3.8	3.2	4.0	3.4	2.1	3.1
DK	0.5	0.5	0.4	0.5	0.5	-0.2	4.8	1.9	0.2	1.7	3.7	1.1
D	1.1	0.5	0.2	1.6	0.0	0.0	2.6	2.7	2.3	3.6	2.5	1.8
F	1.0	0.7	1.4	2.0	0.8	0.1	3.1	3.5	4.1	5.1	5.0	4.3
I	0.4	-2.8	3.5	2.8	-0.9	1.3	3.2	-0.1	1.8	4.2	2.5	7.2
L	1.5	2.5	0.4	1.8	1.3	0.3	4.3	6.6	5.3	6.5	6.3	3.7
NL	1.0	1.0	1.2	3.4	-1.6	1.1	3.1	3.3	4.0	6.7	3.9	4.1
A	1.0	0.8	0.9	1.6	-0.5	5.7	1.4	2.1	2.8	4.5	2.8	7.7
P	1.0	1.2	-0.2	0.9	0.3	0.0	3.5	4.0	2.2	3.2	2.5	0.9
FIN	2.3	1.7	0.6	3.2	1.5	-0.7	8.4	4.8	5.4	8.0	6.8	4.5

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					
	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q2-00	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01
Mining of coal and lignite 10	58.6	57.0	55.0	53.3	51.6	49.8	57.3	54.2	50.7	51.7	50.7	48.1	71.3	69.5	66.7	63.6	62.6	60.0
Gas and oil extraction 11	108.8	108.7	108.3	108.4	109.6	111.3	:	:	:	:	:	:	:	:	:	:	:	:
Uranium & thorium mining 12	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Other non-metallic mining 14	92.5	89.8	89.7	88.7	88.5	88.2	:	:	:	:	:	:	96.0	96.4	96.3	96.7	96.5	96.5
Food and beverages 15	101.1	101.6	101.6	101.9	101.7	102.0	98.8	98.9	98.4	98.7	98.2	98.0	107.8	108.1	108.7	109.5	110.2	111.1
Tobacco 16	99.2	99.4	94.7	91.9	91.5	86.8	:	:	:	:	:	:	:	:	:	:	:	:
Textiles 17	87.5	86.7	86.3	86.8	86.0	85.1	90.9	90.3	89.8	89.7	88.9	88.8	101.6	102.1	102.3	103.0	103.2	103.4
Clothing 18	77.5	75.7	74.1	74.0	72.7	72.0	83.3	81.5	80.7	81.4	78.1	77.9	93.0	91.8	92.1	92.6	91.0	93.4
Leather products 19	79.6	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Wood products 20	101.5	102.2	102.3	102.0	101.8	101.3	:	:	:	:	:	:	104.7	104.7	104.1	104.3	104.0	103.6
Pulp & paper 21	94.2	94.5	94.1	93.2	92.9	91.3	95.1	95.0	94.0	93.9	93.4	93.5	109.2	109.2	110.1	111.5	112.0	112.0
Publishing & printing 22	101.0	101.2	101.4	101.3	101.2	101.1	103.1	102.7	103.5	104.2	103.5	102.9	113.4	114.2	115.3	116.4	117.2	117.9
Fuel products 23	84.6	84.4	84.8	85.7	85.6	85.9	87.2	86.0	84.8	85.7	83.6	83.5	96.2	93.9	97.4	97.7	99.9	101.5
Chemicals 24	96.4	96.5	96.1	96.3	96.2	96.2	99.4	99.3	98.7	99.2	98.4	98.3	106.2	106.8	107.7	109.0	110.1	110.4
Rubber & plastic 25	103.8	104.0	103.8	104.3	103.3	102.3	103.8	104.1	104.0	103.9	103.3	102.8	113.8	114.8	116.0	117.3	118.0	118.8
Non-metallic minerals 26	95.7	95.8	95.8	96.1	95.8	95.1	93.3	92.8	92.3	92.1	91.1	90.4	103.9	104.6	105.1	105.4	105.4	105.2
Basic metals 27	93.2	93.5	93.9	94.2	93.8	93.0	93.4	93.4	93.1	93.4	92.6	92.1	105.4	106.2	106.1	108.9	108.2	108.0
Metal products 28	101.7	101.7	101.8	100.8	100.8	100.2	101.5	101.6	101.5	101.9	101.4	101.5	111.3	111.8	113.9	115.1	116.1	115.7
Machinery 29	97.9	97.9	97.8	99.0	99.3	98.7	97.7	97.7	97.4	98.1	97.6	97.7	109.7	110.4	111.9	113.8	114.2	114.7
Office machinery 30	96.9	98.2	99.4	98.5	97.2	95.5	96.4	96.5	95.7	96.6	95.8	94.7	94.6	92.1	94.6	96.3	95.4	94.9
Electrical machinery 31	96.7	97.3	97.5	97.4	96.9	95.6	96.2	96.1	96.0	96.1	96.0	95.9	106.0	106.4	107.8	111.7	110.6	110.3
Radio/TV/communication 32	104.8	106.6	107.5	108.1	107.2	105.5	108.5	109.5	110.2	111.5	111.7	108.2	124.7	127.9	129.9	132.8	134.6	136.8
Medical and optical 33	99.1	100.7	102.3	103.8	104.3	104.1	98.7	99.3	99.7	101.3	101.0	101.1	110.1	111.6	113.8	116.1	117.7	117.9
Motor vehicles 34	107.6	108.3	108.8	108.8	108.5	108.4	105.9	106.0	106.1	106.8	106.1	106.5	122.9	124.2	125.3	127.9	128.5	129.6
Other transport 35	97.5	97.2	97.5	97.7	97.9	97.8	92.9	92.2	92.0	92.0	91.6	91.8	103.4	104.3	105.1	106.4	107.5	108.6
Furniture & other manf. 36	99.0	99.0	99.0	98.8	97.9	97.1	:	:	:	:	:	:	100.4	100.1	100.6	101.6	101.8	102.3
Recycling 37	120.5	121.2	121.6	123.8	124.7	126.5	118.5	118.5	119.7	122.8	122.1	122.4	130.1	132.0	136.1	139.3	141.9	143.6
Energy/hot water supply 40	85.6	85.6	85.1	84.3	83.7	82.9	:	:	:	:	:	:	:	:	:	:	:	:
Water 41	87.0	84.6	82.4	82.5	81.4	81.2	103.8	102.4	101.8	102.7	102.3	101.4	112.5	113.0	112.8	114.3	114.7	114.6
Construction 45	103.3	102.5	102.4	102.6	102.5	102.3	93.6	93.0	92.6	91.9	91.4	90.9	102.9	103.0	103.1	103.2	103.4	103.6

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.

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## ➤ Reference publications

Title Monthly Panorama of European Business  
 Catalogue No KS-AM-02-000-EN-C Price EUR 162

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New Cronos, Theme 4  
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