

Statistics

in focus

INDUSTRY, TRADE
AND SERVICES

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Developments for labour input indicators during the fourth quarter of 2001

Industrial employment down by 0.8% in the EU

Paolo Cerruti

Total industrial employment (excluding construction) in the EU declined by 0.8% in the fourth quarter of 2001 compared to the quarter before, whilst the corresponding value for the euro-zone¹ was -0.6%. The number of hours worked in the EU's industrial economy declined by 0.5% in the fourth quarter of 2001 (again compared to the quarter before), while in the euro-zone there was a 0.4% reduction. Wages and salaries in the EU and the euro-zone remained virtually unchanged over the same period (-0.1% in both the EU and 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	Q4-01	-0.8	Q4-01	-0.6	Q4-01	-1.8	Q4-01	-1.3
Hours worked	Q4-01	-0.5	Q4-01	-0.4	Q4-01	-1.8	Q4-01	-1.5
Wages & salaries	Q4-01	-0.1	Q4-01	-0.1	Q4-01	1.2	Q4-01	1.1

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

Employment index for industry (excluding construction)

The fourth quarter of 2001 marked the third quarter in a row when both EU and euro-zone industrial employment declined significantly (on the basis of a comparison with the previous quarter). Furthermore, the deterioration quickened from -0.6% in the second quarter of 2001 to -0.8% by the fourth quarter and was in stark contrast to the data for 2000.

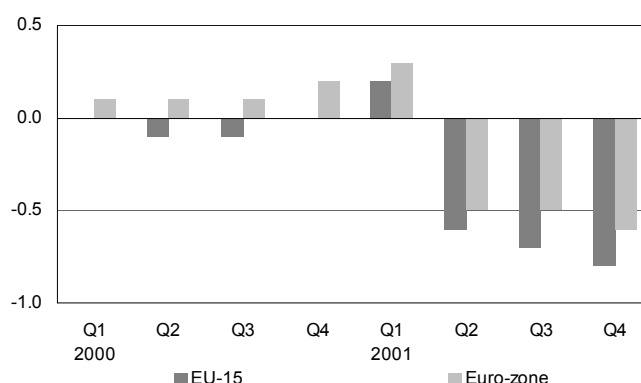


Figure 1: Employment index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

¹ 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.



Most of the main industrial groupings (MIGs) displayed negative rates of change for the number of persons employed between the third and fourth quarters of 2001. The exceptions were capital goods (for both the EU and the euro-zone) with a 0.2% increase, and the consumer non-durables sector in the euro-zone (where there was no change in the number of persons employed). On the downside, the largest declines were recorded in the euro-zone's energy sector and the EU's intermediate goods sector (both -0.8%). Large reductions were also registered in the euro-zone's intermediate goods sector and in the EU's consumer durables sector, where employment fell by 0.7% and 0.6% respectively.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
Total industry (excluding construction)	EU-15	-0.1	0.0	0.2	-0.6	-0.7	-0.8	-0.3	-0.2	0.1	-0.5	-1.0	-1.8
	Euro-zone	0.1	0.2	0.3	-0.5	-0.5	-0.6	0.2	0.4	0.7	0.1	-0.5	-1.3
Energy	EU-15	-0.8	-1.7	-0.3	-0.3	-0.4	-0.4	-4.3	-5.0	-4.1	-3.1	-2.8	-1.5
	Euro-zone	-0.6	-2.0	0.0	-0.7	-1.1	-0.8	-3.4	-4.5	-3.8	-2.9	-3.5	-2.3
Intermediate goods	EU-15	0.3	0.3	0.3	-0.2	-0.5	-0.8	0.9	1.1	1.3	0.6	-0.2	-1.4
	Euro-zone	0.3	0.3	0.3	-0.4	-0.4	-0.7	0.9	1.1	1.3	0.3	-0.3	-1.2
Capital goods	EU-15	0.3	0.6	0.6	0.5	0.0	0.2	1.0	1.4	1.8	2.0	1.6	1.2
	Euro-zone	0.4	0.6	0.6	0.3	0.0	0.2	1.1	1.5	1.9	1.9	1.6	1.1
Consumer durables	EU-15	0.3	0.6	0.5	-0.1	-0.4	-0.6	1.4	1.6	1.8	1.5	0.7	-0.6
	Euro-zone	0.3	0.6	0.4	-0.2	-0.2	-0.3	1.5	1.7	1.7	1.0	0.5	-0.4
Consumer non-durables	EU-15	-0.2	0.1	0.6	-0.1	-0.1	-0.3	-0.7	-0.3	0.5	0.5	0.5	0.1
	Euro-zone	-0.2	0.2	0.6	-0.2	-0.1	0.0	-0.6	-0.2	0.6	0.4	0.4	0.3

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

For the second quarter in a row, the Finnish industrial economy managed to avoid the EU's general trend of declining industrial employment. It reported growth of 0.5% in the fourth quarter of 2001 (compared with the previous quarter), while all other countries for which data are available had negative rates of change. The most significant declines were reported in Denmark, Portugal, the United Kingdom, Italy and Spain, where rates of decline were in excess of -1.0%.

	Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
EU-15	-0.1	0.0	0.2	-0.6	-0.7	-0.8	-0.3	-0.2	0.1	-0.5	-1.0	-1.8
Euro-zone B (1)	0.1	0.2	0.3	-0.5	-0.5	-0.6	0.2	0.4	0.7	0.1	-0.5	-1.3
DK	-1.4	0.2	0.9	0.0	-2.5	-2.0	-2.2	-0.1	0.2	-0.2	-1.4	-3.4
D	0.1	0.2	0.1	-0.1	-0.2	-0.2	0.1	0.3	0.7	0.5	-0.1	-0.7
EL	:	:	:	:	:	:	:	:	:	:	:	:
E	0.5	1.3	0.6	-0.6	-0.3	-1.1	3.5	4.1	3.5	1.8	1.1	-1.5
F	0.7	0.5	0.4	-0.1	-0.2	-0.3	1.5	2.0	2.0	1.5	0.6	-0.2
IRL	:	:	:	:	:	:	:	:	:	:	:	:
I	-0.5	-0.5	-0.4	-1.2	-1.4	-1.1	-2.4	-2.4	-2.2	-2.5	-3.4	-4.0
L	0.4	0.5	0.3	0.2	-0.8	-0.5	1.3	1.9	1.7	1.4	0.2	-0.8
NL	0.1	0.1	0.1	-0.1	0.0	-0.1	0.5	0.4	0.3	0.1	0.1	-0.2
A	0.4	0.1	1.0	-0.2	-0.3	-0.5	0.6	0.9	1.9	1.4	0.7	0.1
P	-0.8	-0.6	-0.6	-1.6	-1.1	-1.5	-2.8	-2.5	-2.1	-3.6	-3.8	-4.7
FIN	-0.2	-0.4	0.4	-0.3	0.4	0.5	-0.2	-0.1	2.3	-0.6	0.1	1.0
S	:	:	:	:	:	:	:	:	:	:	:	:
UK	-1.0	-0.7	-0.5	-1.1	-1.1	-1.2	-2.9	-3.2	-2.9	-3.2	-3.4	-3.8

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

(1) Data no longer appear as they have not been provided following the recent revision of the MIGs classification.

Employment index for services

On the other hand, employment growth in the EU's retail trade sector accelerated during the fourth quarter of 2001; as the number of persons employed expanded by 1.2% when compared to the previous quarter. In the previous four quarters this growth rate had been between 0.7% and 0.9%. When comparing the fourth quarter of 2001 to the same quarter of 2000, growth reached 3.7% for the EU and 3.8% for the euro-zone, after having dropped to 3.2% during the third quarter of 2001; these latest rates of change moved back towards the levels of 4.0% or more that were seen during most of 2000 and first half of 2001.

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
Retail trade	EU-15	1.3	0.7	0.9	0.9	0.8	1.2	4.3	4.2	4.2	3.9	3.2	3.7
Division 52 (1)	Euro-zone	1.3	0.7	0.9	0.9	0.8	1.2	4.4	4.3	4.3	4.0	3.2	3.8
	DK	-0.5	0.1	0.6	-0.1	-0.6	-0.2	0.0	-0.2	-0.1	0.1	0.0	-0.3
	D	-0.1	-0.4	0.5	0.0	0.0	0.2	-0.3	-0.2	-0.1	0.1	0.1	0.7
	E	1.8	1.6	1.4	1.5	1.2	1.4	10.1	6.9	7.1	6.8	5.3	5.3
	I	2.5	2.1	2.2	1.7	0.8	2.9	8.9	10.4	10.2	8.8	6.8	7.9
	L	0.1	1.4	0.7	0.8	1.3	1.7	0.1	1.1	2.2	3.0	4.1	4.4
	NL	0.5	1.3	1.2	-0.6	-0.2	0.9	3.5	3.4	3.0	2.4	1.7	1.2
	FIN	2.1	-4.2	2.4	1.1	-1.2	3.3	0.9	-1.7	-2.9	1.3	-2.0	5.8
Distribution (including retail trade)	DK	-0.7	-0.6	0.3	-0.2	-0.4	0.1	-0.2	-0.6	-1.1	-1.2	-1.0	-0.3
	F	0.7	0.7	0.5	0.5	0.5	0.6	3.3	3.4	3.0	2.5	2.2	2.2
	I	2.2	1.9	2.2	1.4	0.5	2.7	7.7	9.4	9.3	8.0	6.0	6.9
Section G (2)	L	0.5	1.0	0.8	0.9	1.5	1.2	3.2	3.2	3.0	3.2	4.2	4.4
	A	0.3	0.6	0.1	0.3	0.1	0.2	0.9	1.6	1.4	1.4	1.2	0.8
	FIN	3.2	-3.5	2.0	1.5	-4.3	3.8	0.4	0.0	-0.7	3.1	-4.4	2.9
Hotels & restaurants	DK	-0.4	-1.3	1.8	-0.1	0.2	1.1	-0.6	-2.6	0.7	-0.1	0.5	3.1
	D	-0.4	-1.0	3.0	-1.4	0.0	0.1	-1.9	-1.5	1.0	0.2	0.6	1.7
Section H (2)	F	1.3	0.6	0.7	0.8	0.5	0.8	5.0	4.3	3.7	3.6	2.7	2.8
	I	0.6	2.0	1.5	2.3	1.6	2.0	6.3	6.7	5.5	6.7	7.5	7.6
	L	-0.5	1.1	2.7	0.6	0.5	1.7	2.5	2.4	4.1	3.9	4.9	5.6
	A	0.2	0.2	0.2	0.0	-0.2	-0.3	2.0	-2.5	2.6	0.9	1.0	-1.8
	FIN	1.1	1.0	-1.0	4.1	4.8	-2.4	3.6	-6.1	0.0	5.1	8.9	5.6
Transport & communication	DK	-0.1	0.1	0.2	-0.2	0.3	-0.9	0.4	2.5	-0.1	0.0	0.4	-0.6
	F	0.8	1.0	0.9	0.3	0.3	0.3	3.9	3.7	3.6	3.0	2.5	1.7
Section I (2)	I	-0.9	-1.2	-1.0	-1.1	-0.4	-0.3	-3.0	-3.5	-3.8	-4.2	-3.7	-2.8
	A	-0.4	-2.1	0.3	0.0	-0.6	-0.8	0.1	-2.5	-2.5	-2.1	-2.3	-1.0
	FIN	1.7	-1.6	1.4	1.3	-2.7	0.4	4.0	3.2	5.8	2.7	-1.7	0.3
Financial intermediation	F	0.6	0.6	1.0	1.3	0.3	0.7	1.5	1.3	2.7	3.7	3.2	3.3
	I	0.5	0.2	-0.2	-0.1	-0.5	-0.1	1.0	1.4	1.0	0.5	-0.6	-0.9
Section J (2)	A (3)	:	:	:	:	:	:	0.4	0.9	-0.2	-0.1	0.1	-0.4
Business services	F	1.8	1.5	1.0	0.1	0.4	0.4	8.5	8.2	6.9	4.4	3.0	1.9
	I	0.7	0.6	-1.4	1.2	5.3	0.5	3.7	3.4	0.9	0.9	5.6	5.7
Section K (2)	A (3)	:	:	:	:	:	:	8.3	8.3	8.8	7.2	5.2	3.2

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

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

- (1) French data are not published as they are confidential;
- (2) Dutch data no longer appear due to a revision in data collection procedures and methodology; as a result these figures are now confidential;
- (3) 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)

During each quarter in the last two years, the number of industrial hours worked in the EU has declined compared to the preceding quarter. The fourth quarter of 2001 proved no exception when the index fell by 0.5%. The corresponding figure for the euro-zone was -0.4%.

The only MIG to report a positive growth rate for the number of hours worked was the energy sector, with a 1.4% increase in both the EU and the euro-zone in the final quarter of 2001; this was in contrast to the reductions of the second and third quarters of 2001 (-2.1% and -1.0%).

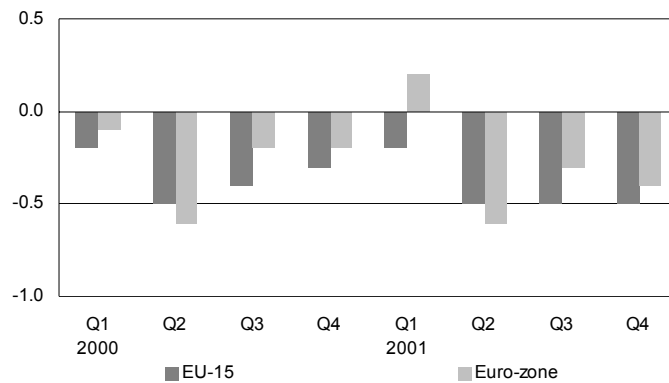


Figure 2: Hours worked index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
Total industry (excluding construction)	EU-15	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-1.5	-2.0	-0.7	-1.2	-1.3	-1.8
	Euro-zone	-0.2	-0.2	0.2	-0.6	-0.3	-0.4	-1.1	-1.5	-0.1	-0.9	-1.1	-1.5
Energy	EU-15	-0.9	-1.6	0.7	-2.1	-1.0	1.4	-6.1	-7.2	-4.3	-3.8	-3.9	-1.0
	Euro-zone	-0.9	-1.6	0.7	-2.1	-1.0	1.4	-6.1	-7.2	-4.3	-3.8	-3.9	-1.0
Intermediate goods	EU-15	0.0	-0.2	-0.2	-0.6	-0.6	-0.7	-0.6	-1.1	0.0	-1.1	-1.7	-2.5
	Euro-zone	0.0	-0.2	-0.2	-0.6	-0.6	-0.7	-0.6	-1.1	0.0	-1.1	-1.7	-2.5
Capital goods	EU-15	0.1	0.1	0.2	-0.2	-0.2	-0.2	-0.2	-0.4	1.1	0.2	-0.3	-0.7
	Euro-zone	0.1	0.1	0.2	-0.2	-0.2	-0.2	-0.2	-0.4	1.1	0.2	-0.3	-0.7
Consumer durables	EU-15	-0.4	-0.3	0.0	-0.6	-0.4	-0.5	-1.7	-2.2	0.1	-1.6	-1.4	-1.7
	Euro-zone	-0.4	-0.3	0.0	-0.6	-0.4	-0.5	-1.7	-2.2	0.1	-1.6	-1.4	-1.7
Consumer non-durables	EU-15	-0.2	-0.4	0.3	-0.8	-0.2	-0.2	-2.2	-2.5	-1.0	-1.1	-1.1	-0.9
	Euro-zone	-0.2	-0.4	0.3	-0.8	-0.2	-0.2	-2.2	-2.5	-1.0	-1.1	-1.1	-0.9

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

	Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
EU-15	-0.4	-0.3	-0.2	-0.5	-0.5	-0.5	-1.5	-2.0	-0.7	-1.2	-1.3	-1.8
Euro-zone	-0.2	-0.2	0.2	-0.6	-0.3	-0.4	-1.1	-1.5	-0.1	-0.9	-1.1	-1.5
B	-0.9	1.5	-0.6	-0.9	-0.1	-0.3	-1.3	1.8	0.2	-1.1	-0.2	-1.8
D	-0.1	-0.8	1.7	-1.9	-0.3	-2.0	-0.5	-2.0	-0.4	-1.0	-1.2	-2.5
F	0.1	0.4	0.0	-0.3	-0.3	-0.5	-1.5	-0.5	0.1	0.2	-0.2	-1.1
I	-0.3	-0.4	0.6	-1.0	-0.2	-0.2	-1.8	-2.1	0.3	-1.6	-1.3	-0.7
L	-0.4	0.5	1.1	-1.5	-1.0	-1.6	-1.5	-0.3	0.5	-0.3	-0.9	-3.0
NL	0.1	0.1	0.0	-0.1	0.0	-0.1	0.6	0.6	0.3	0.1	0.0	-0.3
A	-0.6	-0.1	2.5	-1.8	-1.8	0.8	-1.3	-0.1	2.1	0.1	-1.2	-0.3
P	-1.0	-0.9	-0.8	-1.0	-1.0	-0.9	-4.6	-4.2	-3.3	-3.6	-3.9	-3.5
FIN	1.1	-3.7	2.5	-1.9	-1.2	1.0	-0.3	-5.5	0.8	-2.1	-4.4	0.4
UK	-1.4	-1.2	0.3	-0.5	-1.1	-1.9	-3.4	-4.1	-3.6	-2.7	-2.5	-3.4

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 in the EU came to a standstill in the last quarter of 2001 (on the basis of a comparison with the preceding quarter). Before there had been a continuous slowing of growth over the course of the year, interrupted only briefly in the third quarter of 2001.

Consequently, the year on year growth rates of wages and salaries also slowed in the fourth quarter of 2001. The figures came out at 1.2% for the EU and 1.1% for the euro-zone, following growth rates above 3% in the two previous quarters.

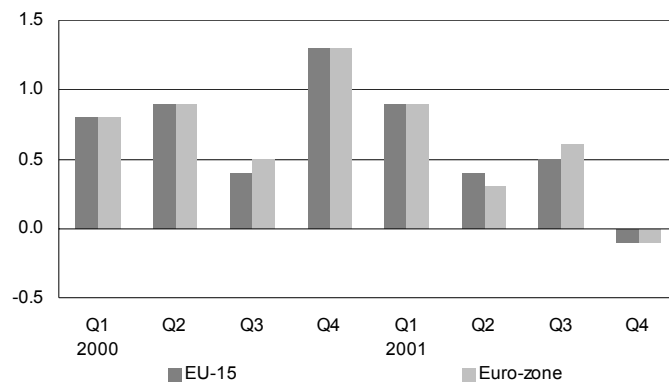


Figure 3: Wages and salaries index for total industry (excluding construction), growth rates, quarter compared to previous quarter, seasonally adjusted (%)

		Quarter on quarter growth rates, seasonally adjusted data						Year on year growth rates, gross data					
		Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
Total industry (excluding construction)	EU-15	0.4	1.3	0.9	0.4	0.5	-0.1	2.5	2.7	4.1	3.1	3.4	1.2
	Euro-zone	0.5	1.3	0.9	0.3	0.6	-0.1	2.5	2.8	4.2	3.1	3.5	1.1
Energy	EU-15	-0.2	0.8	0.9	0.9	0.8	-0.4	0.7	0.2	0.4	2.4	4.5	1.7
	Euro-zone	-0.1	0.8	0.7	0.8	0.8	-0.1	0.8	0.3	0.6	2.3	4.5	1.6
Intermediate goods	EU-15	1.2	1.4	1.1	0.6	0.6	0.4	4.3	4.3	6.3	4.7	3.5	1.8
	Euro-zone	1.2	1.3	1.0	0.7	0.6	0.3	4.3	4.3	6.4	4.7	3.6	1.9
Capital goods	EU-15	1.0	1.9	1.6	1.0	1.3	0.9	4.2	5.4	6.9	5.8	6.0	4.4
	Euro-zone	1.0	1.9	1.6	1.0	1.4	0.9	4.2	5.4	6.9	5.8	6.1	4.5
Consumer durables	EU-15	0.7	0.9	0.9	0.7	0.5	0.3	2.2	2.3	3.2	3.7	3.3	2.3
	Euro-zone	0.7	0.8	0.9	0.8	0.7	0.7	2.2	2.2	3.3	3.8	3.2	2.8
Consumer non-durables	EU-15	0.9	1.2	1.1	1.0	1.0	0.9	2.7	3.3	5.0	4.4	4.9	3.4
	Euro-zone	1.0	1.3	1.1	1.1	1.1	1.0	2.9	3.8	5.1	4.5	5.1	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					
	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01
EU-15	0.4	1.3	0.9	0.4	0.5	-0.1	2.5	2.7	4.1	3.1	3.4	1.2
Euro-zone	0.5	1.3	0.9	0.3	0.6	-0.1	2.5	2.8	4.2	3.1	3.5	1.1
B	0.7	1.0	0.4	0.4	0.6	0.3	3.2	4.0	3.4	2.1	3.1	0.6
DK	0.4	0.1	0.7	0.7	0.3	0.7	1.9	0.2	1.7	3.1	1.1	2.4
D	0.4	0.5	1.5	-0.2	-0.1	-0.4	2.7	2.3	3.6	2.5	1.8	0.6
F	0.6	1.6	1.9	0.7	0.0	-0.9	3.4	4.0	5.1	5.0	4.2	1.6
I	-2.9	4.0	2.1	-0.6	1.2	-0.1	-0.1	1.8	4.2	2.5	7.2	2.2
L	2.4	1.0	1.4	1.1	0.0	-0.2	6.6	5.3	6.5	6.3	3.7	1.9
A	0.9	1.0	1.5	-0.8	5.9	-7.2	2.1	2.8	4.5	2.8	7.7	-1.1
P	1.1	0.2	0.7	0.2	0.0	0.1	4.0	2.2	3.2	2.5	0.9	0.4
FIN	1.6	1.8	2.4	1.0	-0.3	0.6	4.8	5.4	8.0	6.8	4.5	3.7

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						
	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	Q3-00	Q4-00	Q1-01	Q2-01	Q3-01	Q4-01	
Mining of coal and lignite	10	58.6	55.9	54.6	53.2	51.2	50.2	56.2	51.9	53.2	52.1	50.0	48.6	71.2	67.3	65.6	64.5	62.1	62.2
Gas and oil extraction	11	101.7	101.3	101.4	102.6	104.0	105.2	:	:	:	:	:	:	:	:	:	:	:	:
Uranium & thorium mining	12	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Other non-metallic mining	14	90.6	89.9	89.2	89.3	88.8	89.6	:	:	:	:	:	:	95.9	96.2	96.6	96.1	95.6	94.9
Food and beverages	15	102.0	102.1	102.3	102.0	102.1	102.1	98.3	97.8	97.9	97.6	97.3	97.4	102.9	103.5	104.2	104.8	105.5	106.0
Tobacco	16	100.2	95.4	93.0	92.3	87.6	86.4	:	:	:	:	:	:	:	:	:	:	:	:
Textiles	17	86.7	86.5	86.9	86.2	85.2	83.6	90.2	89.8	89.5	88.8	88.4	87.8	100.1	100.4	101.0	100.9	100.9	101.1
Clothing	18	76.0	74.4	74.4	73.1	72.3	71.0	81.4	81.0	81.6	78.3	78.0	76.3	91.4	91.9	92.2	91.0	93.4	90.6
Leather products	19	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Wood products	20	101.6	101.7	101.2	100.8	100.3	99.2	:	:	:	:	:	:	100.5	100.3	99.9	99.0	98.0	96.6
Pulp & paper	21	95.0	94.7	93.7	93.3	91.8	92.0	95.7	94.3	94.8	93.8	94.3	94.9	105.8	106.5	108.0	108.7	108.7	110.4
Publishing & printing	22	103.0	103.5	103.1	102.8	102.6	102.2	102.3	103.1	103.8	102.9	102.4	102.3	108.2	109.2	110.0	110.5	111.0	111.3
Fuel products	23	83.9	82.9	84.2	83.7	84.4	84.0	85.2	83.9	83.7	81.4	81.4	83.1	88.4	92.6	90.2	92.6	94.3	91.0
Chemicals	24	96.7	96.7	96.7	96.7	96.6	96.4	99.4	99.1	99.6	98.8	98.7	98.2	103.3	104.7	105.5	106.5	107.0	107.1
Rubber & plastic	25	102.6	102.3	103.0	102.0	101.0	100.4	102.3	101.6	102.3	100.7	100.5	99.2	110.0	111.5	113.0	113.3	113.2	113.1
Non-metallic minerals	26	95.8	95.9	96.2	95.8	94.8	93.3	92.8	92.3	92.1	90.8	90.1	89.3	101.9	102.6	102.8	102.4	101.8	101.3
Basic metals	27	94.5	95.0	95.3	94.8	93.8	93.1	94.0	94.5	96.1	93.5	92.5	92.3	104.9	105.3	107.8	106.6	106.9	105.9
Metal products	28	101.5	101.8	100.9	100.7	100.0	99.0	101.1	101.3	101.5	100.8	100.7	100.0	107.7	109.7	110.9	111.5	111.5	111.5
Machinery	29	97.7	97.8	98.9	99.1	98.5	98.0	97.3	97.3	97.6	97.2	96.8	96.2	107.5	109.5	110.9	111.5	111.4	111.9
Office machinery	30	97.4	99.2	98.8	97.1	95.3	93.4	94.8	94.7	95.4	95.4	95.1	95.5	88.8	91.3	94.0	93.2	92.8	91.6
Electrical machinery	31	98.4	98.8	98.7	98.1	97.0	95.9	97.3	97.5	97.5	97.1	96.6	95.8	106.3	107.9	112.0	111.0	110.4	108.2
Radio/TV/communication	32	105.1	106.1	106.6	105.5	103.5	101.3	108.7	108.6	109.3	108.2	106.8	106.3	120.2	122.1	124.3	125.0	126.4	127.3
Medical and optical	33	101.3	102.7	104.4	104.9	104.7	104.9	99.8	100.3	100.9	101.0	101.2	101.2	109.8	111.8	113.9	115.4	115.7	116.5
Motor vehicles	34	108.2	108.8	108.9	108.5	108.5	108.2	105.7	106.4	106.8	105.9	106.1	105.1	123.0	124.4	126.9	127.4	128.4	129.5
Other transport	35	97.8	98.4	98.8	99.0	98.8	99.4	92.5	92.5	92.7	92.4	93.0	93.3	100.2	101.0	102.6	104.1	104.5	105.4
Furniture & other manf.	36	100.2	100.4	100.2	99.1	98.0	97.0	:	:	:	:	:	:	96.9	97.8	98.1	98.1	98.4	97.8
Recycling	37	129.4	131.9	131.1	132.6	133.8	134.0	114.1	115.4	117.4	117.2	118.3	118.4	142.4	147.4	152.8	154.2	154.0	155.7
Energy/hot water supply	40	83.0	81.8	81.3	81.0	80.0	79.2	133.6	131.8	130.7	128.0	126.7	128.0	99.3	99.3	99.5	100.0	100.8	97.5
Water	41	84.5	82.3	82.4	81.6	81.3	79.8	101.6	101.1	101.9	101.6	100.9	101.1	107.5	107.9	108.8	109.4	109.6	109.5
Construction	45	100.3	100.5	100.7	101.0	101.3	101.3	98.5	98.3	97.8	97.4	97.0	97.0	103.0	103.9	104.3	104.6	105.0	105.3

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.

➤ 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.

The seasonally adjusted euro-zone and EU-15 series are calculated by aggregating the gross series supplied by each Member States and then performing an adjustment for seasonal effects on the resulting series. Therefore, the seasonally adjusted figures for total industry (excluding construction) are based directly on the gross series for European aggregates and not on an aggregation of the seasonally adjusted indices for individual Member States. Besides this, figures may differ from those from the aggregation of the MIGs mainly for the following reasons:

- a) the minimum threshold required for euro-zone and EU-15 totals to be calculated is 60%. Hence, depending on the countries that provide data, there may be different countries used from one aggregate to another and one series to another;
- b) there may be a lack of coherence in Member States data between the MIGs and total industry that affects the overall coherence of the euro-zone and EU-15 data;

c) the euro-zone and EU-15 indices correspond exactly to the aggregation of the countries' respective indices; however, the data published are growth rates of these indices and as such this may create small discrepancies;

d) discrepancies may also be introduced by conversions done to create monthly and quarterly data in all presentations.

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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Further information:

➤ Reference publications

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