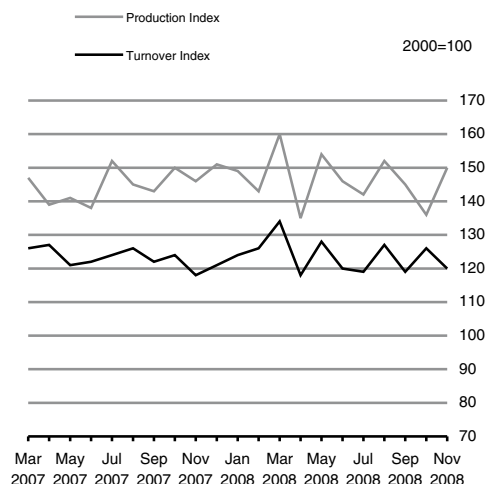




8 January 2009

## Manufacturing Industries

Seasonally adjusted



## Industrial Production & Turnover

November 2008 (*Provisional*) and October 2008 (*Final*)

### Manufacturing Industries (*Seasonally adjusted*) (Base: year 2000=100)

	Production Index	Turnover Index
<b>November 2007</b>	146.1	118.3
<b>October 2008</b>	135.6	125.6
<b>November 2008</b>	150.1	120.4
<b>Monthly % change</b>	10.7%	-4.1%
<b>Annual % change</b>	2.7%	1.8%
<b>Jun - Aug 2008</b>	146.6	122.2
<b>Sep - Nov 2008</b>	143.2	121.7
<b>% change</b>	-2.3%	-0.4%

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## Annual Production increased by 2.7% in November 2008

On an annual basis production for Manufacturing Industries for November 2008 was 2.7% higher than in November 2007 (*see above and Table 1*). The most significant annual changes were in the following sectors: Medical, precision and optical instruments, watches and clocks (+19.9%), Reproduction of recorded media (+9.2%) and Radio, television and communication and apparatus (-21.3%). The seasonally adjusted volume of industrial production for Manufacturing Industries for the three month period September to November 2008 was 2.3% lower than in the preceding three month period. (*see above and Table 4*).

The "Modern" Sector, comprising a number of high-technology and chemical sectors, showed an annual increase in production for November 2008 of 3.9% while a decrease of 0.7% was recorded in the "Traditional" Sector (*see Table 2*).

The seasonally adjusted industrial turnover index for Manufacturing Industries was 0.4% lower in the three month period September to November 2008 when compared with the preceding three month period (*see above and Table 7*). On an annual basis turnover was 1.8% higher when compared with November 2007.

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Table 1 Volume Indices of Production<sup>1</sup>

Base year 2000=100

Period	Manufacturing Industries				All Industries			
	Unadjusted		Seasonally adjusted		Unadjusted		Seasonally adjusted	
	Index	Annual % change	Index	% change on preceding period	Index	Annual % change	Index	% change on preceding period
2000	100.0	15.7			100.0	15.3		
2001	110.0	10.0			109.7	9.7		
2002	118.4	7.6			117.7	7.3		
2003	123.9	4.6			123.3	4.8		
2004	124.4	0.4			123.9	0.5		
2005	128.2	3.1			127.6	3.0		
2006	134.9	5.2			134.0	5.0		
2007	145.0	7.5			143.7	7.2		
2004 Quarter 1	123.4	4.8	124.1	-6.3	123.4	4.8	123.5	-5.9
2	132.1	3.4	125.0	0.7	130.9	3.3	124.4	0.7
3	116.2	0.6	124.7	-0.2	115.6	0.5	124.3	-0.1
4	126.0	-6.5	124.3	-0.3	126.0	-5.8	124.1	-0.2
2005 Quarter 1	124.1	0.6	124.8	0.4	124.6	1.0	124.6	0.4
2	134.7	2.0	127.6	2.2	133.3	1.8	126.9	1.8
3	120.1	3.4	128.3	0.5	119.0	2.9	127.3	0.3
4	134.1	6.4	132.5	3.3	133.7	6.1	131.9	3.6
2006 Quarter 1	128.4	3.5	128.7	-2.9	128.6	3.2	127.9	-3.0
2	148.7	10.4	141.3	9.8	146.7	10.1	140.1	9.5
3	127.8	6.4	136.3	-3.5	126.5	6.3	135.3	-3.4
4	135.3	0.9	134.1	-1.6	135.0	1.0	133.5	-1.3
2007 Quarter 1	146.4	14.0	146.5	9.2	145.6	13.2	144.7	8.4
2	146.6	-1.4	139.3	-4.9	144.8	-1.3	138.3	-4.4
3	137.1	7.3	146.5	5.2	135.9	7.4	145.7	5.4
4	149.9	10.8	148.9	1.6	148.8	10.2	147.5	1.2
2008 Quarter 1	150.3	2.7	150.4	1.0	149.4	2.6	148.5	0.7
2	152.9	4.3	145.2	-3.5	151.2	4.4	144.3	-2.8
3	136.9	-0.1	146.1	0.6	135.6	-0.2	145.1	0.6
2007 January	138.9	6.4	146.3	1.0	138.9	6.3	144.2	0.8
February	146.0	25.2	146.5	0.1	145.1	23.3	144.9	0.5
March	154.7	12.8	146.6	0.1	153.1	12.2	144.9	0.0
April	146.9	2.1	138.8	-5.3	145.0	1.9	137.7	-5.0
May	144.7	-5.2	140.8	1.4	142.9	-4.7	140.0	1.7
June	148.4	-0.2	138.0	-2.0	146.8	-0.1	137.0	-2.1
July	135.2	13.3	151.6	9.9	134.2	12.8	150.6	9.9
August	138.0	6.1	145.0	-4.4	136.4	6.4	144.3	-4.2
September	138.2	3.2	142.5	-1.7	137.2	3.8	141.8	-1.7
October	151.4	12.7	149.9	5.2	149.9	12.4	148.7	4.9
November	147.7	15.2	146.1	-2.5	146.6	13.8	145.0	-2.5
December	150.6	4.2	150.9	3.3	150.0	4.2	149.1	2.8
2008 January	142.0	2.3	149.0	-1.2	141.8	2.2	146.7	-1.6
February	142.9	-2.1	143.3	-3.9	142.4	-1.9	142.1	-3.1
March	169.0	9.2	160.2	11.8	166.9	9.0	158.1	11.2
April	143.1	-2.7	135.2	-15.6	142.0	-2.1	135.0	-14.6
May	158.8	9.7	154.5	14.2	156.8	9.7	153.6	13.8
June	157.5	6.1	146.3	-5.3	155.4	5.9	144.9	-5.6
July	127.2	-6.0	142.3	-2.8	126.4	-5.8	141.5	-2.3
August	144.7	4.9	152.0	6.8	142.8	4.8	151.2	6.8
September	140.0	1.4	144.7	-4.8	138.6	1.0	143.3	-5.2
October	136.7	-9.8	135.6	-6.3	136.0	-9.3	135.2	-5.7
November	151.6	2.6	150.1	10.7	150.4	2.6	149.0	10.3

<sup>1</sup> All data for latest month are provisional

**Table 2 Volume Indices of Production<sup>1</sup> for "Modern"<sup>2</sup> and "Traditional" Sectors**

Base year 2000=100

Period	"Modern" Sector				"Traditional" (All Other Sectors)			
	Unadjusted		Seasonally adjusted		Unadjusted		Seasonally adjusted	
	Index	Annual % change	Index	% change on preceding period	Index	Annual % change	Index	% change on preceding period
2000	100.0	20.2			100.0	5.5		
2001	114.7	14.7			101.8	1.8		
2002	128.6	12.1			100.3	-1.5		
2003	136.3	6.0			102.3	2.0		
2004	135.7	-0.4			105.0	2.6		
2005	141.5	4.3			105.4	0.4		
2006	151.0	6.7			107.0	1.5		
2007	164.1	8.7			111.0	3.7		
2004 Quarter 1	134.7	3.9	133.8	-9.4	105.3	6.8	106.7	1.5
2	143.2	2.2	135.6	1.3	111.2	5.7	106.5	-0.2
3	125.2	0.6	137.4	1.3	100.3	0.2	103.7	-2.6
4	140.3	-7.4	137.3	-0.1	103.1	-2.3	102.9	-0.8
2005 Quarter 1	139.4	3.5	138.8	1.1	100.9	-4.2	102.4	-0.5
2	147.3	2.9	139.9	0.8	111.0	-0.2	106.1	3.6
3	129.2	3.2	140.6	0.5	102.6	2.3	105.9	-0.2
4	150.4	7.2	147.3	4.8	107.1	3.9	107.0	1.0
2006 Quarter 1	144.4	3.6	143.0	-2.9	103.2	2.3	104.7	-2.1
2	168.1	14.1	160.6	12.3	112.3	1.2	107.2	2.4
3	140.1	8.4	152.4	-5.1	104.7	2.0	107.8	0.6
4	151.9	1.0	149.0	-2.2	107.9	0.7	108.1	0.3
2007 Quarter 1	167.1	15.7	165.1	10.8	111.1	7.7	112.9	4.4
2	163.0	-3.0	155.6	-5.8	115.7	3.0	110.5	-2.1
3	152.6	8.9	166.6	7.1	109.1	4.2	112.3	1.6
4	174.0	14.5	171.2	2.8	108.4	0.5	108.7	-3.2
2008 Quarter 1	174.7	4.5	172.4	0.7	109.0	-1.9	111.1	2.2
2	175.6	7.7	167.6	-2.8	112.1	-3.1	107.2	-3.5
3	156.8	2.8	170.7	1.8	101.6	-6.9	104.3	-2.7
2007 January	159.0	6.0	165.9	1.2	106.5	6.9	112.4	3.3
February	165.8	31.0	164.6	-0.8	112.0	8.3	113.6	1.1
March	176.9	13.9	164.6	0.0	115.1	8.3	112.8	-0.7
April	164.0	1.8	154.2	-6.3	114.6	2.0	111.9	-0.8
May	159.1	-8.9	157.1	1.9	117.0	5.8	112.5	0.5
June	166.4	-0.6	155.3	-1.1	115.4	1.1	107.1	-4.8
July	149.9	18.3	176.3	13.5	109.1	2.3	111.0	3.6
August	155.0	5.8	163.2	-7.4	106.5	8.0	113.6	2.3
September	152.9	4.3	159.7	-2.1	112.0	2.6	112.4	-1.1
October	176.2	17.4	172.5	8.0	107.8	1.0	109.5	-2.6
November	169.1	20.2	167.6	-2.8	110.5	0.5	108.2	-1.2
December	177.1	6.1	173.8	3.7	106.6	-0.3	108.5	0.3
2008 January	165.4	4.0	171.8	-1.2	104.1	-2.3	109.9	1.3
February	162.2	-2.2	160.9	-6.3	110.7	-1.2	112.3	2.1
March	200.5	13.4	186.7	16.0	113.2	-1.7	111.1	-1.1
April	160.9	-1.9	151.4	-18.9	111.7	-2.5	109.2	-1.7
May	183.3	15.2	181.0	19.6	114.3	-2.3	109.8	0.5
June	183.6	10.3	171.4	-5.3	110.1	-4.5	102.2	-6.9
July	140.9	-6.0	165.3	-3.5	103.2	-5.4	105.0	2.8
August	169.8	9.5	178.5	8.0	99.7	-6.4	106.3	1.2
September	161.6	5.7	169.1	-5.3	101.6	-9.3	101.8	-4.2
October	157.6	-10.6	154.8	-8.5	101.4	-5.9	103.2	1.4
November	175.8	3.9	174.5	12.8	109.8	-0.7	107.7	4.4

<sup>1</sup> All data for latest month are provisional<sup>2</sup> The "Modern" Sector includes the following industrial sectors :

NACE 223 Reproduction of recorded media

24 Chemicals (incl. man-made fibres)

30,33 Computers and instrument engineering

31,32 Electrical machinery and equipment

**Table 3 Employment Information on the "Modern" Sector**

Industrial Sector	Weighting base		Employment			
	NACE	Year 2000 Gross value added € Million	Quarterly totals			
			2006 Q4 ( '000)	2007 Q1 ( '000)	2007 Q2 ( '000)	2007 Q3 ( '000)
<b>Modern Sector</b>		<b>16,719.5</b>	<b>83.2</b>	<b>82.3</b>	<b>84.0</b>	<b>82.0</b>
Reproduction of recorded media <sup>1</sup>	223	1,427.3	4.6	4.7	4.6	4.5
Chemicals (incl. man-made fibres)	24	8,251.9	24.0	24.2	24.7	24.6
Computers and instrument engineering	30, 33	3,278.8	37.8	37.5	38.3	37.8
Electrical machinery and equipment	31, 32	3,761.5	16.8	15.9	16.4	15.1
<b>All Other Sectors</b>		<b>10,441.9</b>	<b>156.5</b>	<b>159.8</b>	<b>159.1</b>	<b>160.1</b>
<b>All Industries</b>		<b>27,161.4</b>	<b>239.7</b>	<b>242.1</b>	<b>243.1</b>	<b>242.1</b>

<sup>1</sup> Employment data estimated based on Nace 22 Earnings, Hours and Employment Costs Survey data

Source: Earnings, Hours and Employment Costs Survey data, CSO.

**Table 4 Volume Indices of Production for Industrial Sectors - Final Results**

Base year 2000=100

**October 2008**

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Gross value added EUR million	October 2008		Aug 2008 - Oct 2008		October 2008		Aug 2008 - Oct 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Food products and beverages</b>	<b>15</b>	<b>3,691.8</b>	<b>115.2</b>	<b>-1.3</b>	<b>117.4</b>	<b>-7.1</b>	<b>121.4</b>	<b>3.3</b>	<b>120.2</b>	<b>-0.9</b>
<b>Food products</b>	<b>151-158</b>	<b>2,874.6</b>	<b>113.9</b>	<b>1.7</b>	<b>116.0</b>	<b>-7.1</b>	<b>124.8</b>	<b>4.4</b>	<b>121.8</b>	<b>1.0</b>
Meat and meat products	151	435.7	90.2	-9.3	88.1	-8.9	86.9	-0.4	86.6	-0.9
Dairy products	155	399.6	83.6	-14.2	103.4	-5.1	89.0	-11.3	97.8	-2.6
Bread; fresh pastry goods and cakes; rusks and biscuits; preserved pastry goods and cakes	1581,1582	190.2	81.7	-5.9	77.3	-15.8	81.1	6.7	78.7	-2.2
Sugar; cocoa; chocolate and sugar confectionery	1583,1584	78.8	61.8	-8.6	57.7	-10.4	36.2	-53.6	61.7	-20.8
Grain mill products, starches and starch products; prepared animal feeds	156,157	109.1	92.3	9.0	84.8	2.0	96.5	3.7	91.7	15.2
Other foods	152-154,1585-1589	1,661.1	135.0	7.5	135.6	-6.7	158.3	11.7	146.4	3.2
<b>Beverages</b>	<b>159</b>	<b>817.3</b>	<b>119.7</b>	<b>-10.2</b>	<b>122.4</b>	<b>-7.3</b>	<b>109.0</b>	<b>-3.3</b>	<b>115.0</b>	<b>-8.4</b>
<b>Textiles and textile products</b>	<b>17-18</b>	<b>307.0</b>	<b>39.1</b>	<b>4.7</b>	<b>35.6</b>	<b>-4.3</b>	<b>40.8</b>	<b>6.9</b>	<b>38.2</b>	<b>-0.3</b>
<b>Textiles</b>	<b>17</b>	<b>177.5</b>	<b>52.0</b>	<b>4.5</b>	<b>46.3</b>	<b>-2.5</b>	<b>52.3</b>	<b>5.9</b>	<b>48.2</b>	<b>-9.9</b>
<b>Wearing apparel; dressing and dyeing of fur</b>	<b>18</b>	<b>129.5</b>	<b>21.4</b>	<b>5.1</b>	<b>21.0</b>	<b>-9.5</b>	<b>23.1</b>	<b>8.1</b>	<b>22.6</b>	<b>20.9</b>
<b>Leather and leather products</b>	<b>19</b>	<b>17.7</b>	<b>29.7</b>	<b>-21.7</b>	<b>33.3</b>	<b>-5.7</b>	<b>25.8</b>	<b>-23.4</b>	<b>29.9</b>	<b>10.7</b>
<b>Wood and wood products</b>	<b>20</b>	<b>191.4</b>	<b>80.1</b>	<b>-38.8</b>	<b>83.6</b>	<b>-33.5</b>	<b>79.6</b>	<b>-4.0</b>	<b>86.3</b>	<b>-14.9</b>

**Table 4 Volume Indices of Production for Industrial Sectors - Final Results (continued)**

Base year 2000=100

October 2008

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Gross value added EUR million	October 2008		Aug 2008 - Oct 2008		October 2008		Aug 2008 - Oct 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Pulp, paper and paper products; publishing, printing and reproduction of recorded media</b>	<b>21-22</b>	<b>2,304.9</b>	<b>211.5</b>	<b>1.7</b>	<b>215.6</b>	<b>4.7</b>	<b>219.0</b>	<b>-2.3</b>	<b>234.2</b>	<b>-2.0</b>
<b>Pulp, paper and paper products</b>	<b>21</b>	<b>246.9</b>	<b>89.1</b>	<b>-4.2</b>	<b>88.0</b>	<b>-3.7</b>	<b>88.9</b>	<b>-3.6</b>	<b>88.1</b>	<b>0.6</b>
<b>Publishing, printing and reproduction of recorded media</b>	<b>22</b>	<b>2,058.0</b>	<b>226.2</b>	<b>2.0</b>	<b>230.9</b>	<b>5.1</b>	<b>234.7</b>	<b>-2.3</b>	<b>252.1</b>	<b>-2.1</b>
Publishing; printing and service activities related to printing	221,222	630.7	93.9	5.7	88.8	-1.3	89.7	1.6	90.3	1.6
Reproduction of recorded media	223	1,427.3	284.7	1.5	293.8	6.1	298.8	-2.9	325.7	-2.6
<b>Chemicals, chemical products and man-made fibres</b>	<b>24</b>	<b>8,251.9</b>	<b>155.5</b>	<b>-16.5</b>	<b>166.2</b>	<b>4.3</b>	<b>149.1</b>	<b>-8.0</b>	<b>166.0</b>	<b>-5.9</b>
Basic chemicals	241	6,596.7	110.7	-32.4	133.4	1.2	101.7	-23.0	130.8	-9.4
Pharmaceuticals, medicinal chemicals and botanical products	244	1,155.3	433.5	26.3	376.7	12.5	456.3	29.6	399.1	16.9
Other chemicals and chemical products	242,243,245-247	499.9	104.3	-13.5	113.0	-4.6	109.8	-11.7	118.3	-1.2
<b>Rubber and plastic products</b>	<b>25</b>	<b>437.5</b>	<b>79.0</b>	<b>-16.0</b>	<b>78.0</b>	<b>-13.1</b>	<b>78.1</b>	<b>-3.5</b>	<b>80.1</b>	<b>-8.9</b>
<b>Other non-metallic mineral products</b>	<b>26</b>	<b>578.2</b>	<b>92.4</b>	<b>-22.5</b>	<b>95.5</b>	<b>-18.2</b>	<b>88.6</b>	<b>-1.4</b>	<b>93.6</b>	<b>-3.1</b>
<b>Basic metals and fabricated metal products</b>	<b>27-28</b>	<b>715.6</b>	<b>94.4</b>	<b>-8.2</b>	<b>95.5</b>	<b>-5.6</b>	<b>93.4</b>	<b>1.3</b>	<b>96.4</b>	<b>-5.6</b>
<b>Basic metals</b>	<b>27</b>	<b>163.0</b>	<b>88.3</b>	<b>-13.4</b>	<b>101.4</b>	<b>-0.9</b>	<b>87.0</b>	<b>-15.8</b>	<b>102.9</b>	<b>-16.3</b>
<b>Fabricated metal products, except machinery and equipment</b>	<b>28</b>	<b>552.5</b>	<b>96.2</b>	<b>-6.7</b>	<b>93.7</b>	<b>-7.1</b>	<b>95.5</b>	<b>8.2</b>	<b>94.0</b>	<b>-3.3</b>
<b>Machinery and equipment, not elsewhere classified</b>	<b>29</b>	<b>649.2</b>	<b>88.2</b>	<b>-18.3</b>	<b>87.8</b>	<b>-9.6</b>	<b>88.8</b>	<b>-8.8</b>	<b>90.6</b>	<b>-3.0</b>

Table 4 Volume Indices of Production for Industrial Sectors - Final Results (continued)

Base year 2000=100

October 2008

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Gross value added EUR million	October 2008		Aug 2008 - Oct 2008		October 2008		Aug 2008 - Oct 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
Electrical and optical equipment	30-33	7,040.4	134.2	-6.3	132.2	-6.2	134.2	-4.0	135.1	-2.0
Office machinery and computers	30	1,605.9	119.5	-4.5	127.3	2.4	126.6	-7.1	136.2	-0.4
Electrical machinery and apparatus, not elsewhere classified	31	1,049.7	187.6	8.3	172.0	3.4	180.6	6.3	175.8	6.0
Radio, television and communication equipment and apparatus	32	2,711.8	73.2	-28.2	75.6	-24.9	72.7	-10.5	74.2	-13.1
Medical, precision and optical instruments, watches and clocks	33	1,672.9	213.7	2.4	203.9	-1.1	214.2	3.4	209.5	0.6
Transport equipment	34-35	433.6	107.7	-5.5	107.7	1.8	101.7	-3.3	107.1	-5.3
Manufacturing not elsewhere classified; recycling; refined petroleum products; tobacco products	36,37,23,16	875.4	63.7	-13.8	63.6	-13.0	59.0	-9.0	63.1	-5.5
Manufacturing industries .....		25,494.6	136.7	-9.8	140.3	-1.7	135.6	-6.3	143.8	-2.5
Mining and quarrying	10-14	289.0	92.9	-24.0	98.3	-22.8	95.1	-16.0	110.1	-17.5
Transportable goods industries .....		25,783.6	136.2	-9.9	139.9	-1.8	135.2	-6.3	143.5	-2.6
Electricity, gas and water supply	40-41	1,377.8	132.7	4.1	123.1	3.7	135.1	5.7	134.7	4.4
All industries .....		27,161.4	136.0	-9.3	139.0	-1.6	135.2	-5.7	143.0	-2.4
of which: Energy producing industries	10,11,12,23,40,41	1,527.5	125.9	1.5	117.5	0.5	130.2	6.3	128.2	-0.1
Capital goods .....		5,224.8	146.4	-1.1	142.6	-2.2	144.8	-2.1	146.8	0.2
Intermediate products .....		11,906.0	98.7	-28.6	112.3	-6.2	93.6	-20.1	112.6	-8.4
Consumer goods .....		8,503.1	183.5	6.7	178.2	2.9	191.6	7.1	188.5	4.6
of which: Durable consumer goods .....		924.3	140.6	-4.4	138.3	3.1	134.8	-10.6	146.5	9.9
Non-durable consumer goods .....		7,578.8	188.8	7.8	183.0	2.9	198.3	8.6	193.7	4.1

**Table 4 Volume Indices of Production for Industrial Sectors - Provisional Results(continued)**

Base year 2000=100

**November 2008**

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Gross value added EUR million	November 2008		Sep 2008 - Nov 2008		November 2008		Sep 2008 - Nov 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Food products and beverages</b>	<b>15</b>	<b>3,691.8</b>	<b>127.0</b>	<b>2.5</b>	<b>119.2</b>	<b>-3.1</b>	<b>126.9</b>	<b>4.5</b>	<b>121.8</b>	<b>2.1</b>
<b>Food products</b>	<b>151-158</b>	<b>2,874.6</b>	<b>125.0</b>	<b>6.0</b>	<b>117.7</b>	<b>-0.6</b>	<b>128.7</b>	<b>3.1</b>	<b>124.2</b>	<b>5.3</b>
Meat and meat products	151	435.7	94.2	-5.8	90.9	-7.5	90.0	3.5	88.0	0.8
Dairy products	155	399.6	70.7	-14.0	86.4	-9.1	87.5	-1.6	92.4	-10.6
Bread; fresh pastry goods and cakes; rusks and biscuits; preserved pastry goods and cakes	1581,1582	190.2	91.6	0.6	82.8	-9.0	91.2	12.6	82.5	6.5
Sugar; cocoa; chocolate and sugar confectionery	1583,1584	78.8	63.2	-1.7	62.6	-8.1	33.3	-8.2	49.7	-33.6
Grain mill products, starches and starch products; prepared animal feeds	156,157	109.1	95.6	4.3	90.9	6.1	93.0	-3.6	94.3	17.0
Other foods	152-154,1585-1589	1,661.1	154.7	11.8	140.6	2.6	167.5	5.8	155.5	14.7
<b>Beverages</b>	<b>159</b>	<b>817.3</b>	<b>134.2</b>	<b>-7.6</b>	<b>124.4</b>	<b>-10.6</b>	<b>113.7</b>	<b>4.3</b>	<b>111.7</b>	<b>-10.9</b>
<b>Textiles and textile products</b>	<b>17-18</b>	<b>307.0</b>	<b>40.1</b>	<b>10.7</b>	<b>38.8</b>	<b>2.9</b>	<b>42.9</b>	<b>5.0</b>	<b>40.6</b>	<b>6.3</b>
<b>Textiles</b>	<b>17</b>	<b>177.5</b>	<b>54.5</b>	<b>14.4</b>	<b>52.2</b>	<b>5.7</b>	<b>55.4</b>	<b>5.9</b>	<b>52.3</b>	<b>3.2</b>
<b>Wearing apparel; dressing and dyeing of fur</b>	<b>18</b>	<b>129.5</b>	<b>20.3</b>	<b>-1.1</b>	<b>20.4</b>	<b>-5.6</b>	<b>24.0</b>	<b>3.8</b>	<b>22.8</b>	<b>7.5</b>
<b>Leather and leather products</b>	<b>19</b>	<b>17.7</b>	<b>27.4</b>	<b>-10.5</b>	<b>32.1</b>	<b>-10.3</b>	<b>28.8</b>	<b>11.8</b>	<b>29.4</b>	<b>1.7</b>
<b>Wood and wood products</b>	<b>20</b>	<b>191.4</b>	<b>77.1</b>	<b>-32.4</b>	<b>81.5</b>	<b>-35.0</b>	<b>77.7</b>	<b>-2.4</b>	<b>80.1</b>	<b>-19.0</b>



**Table 4 Volume Indices of Production for Industrial Sectors - Provisional Results (continued)**

Base year 2000=100

**November 2008**

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Gross value added EUR million	November 2008		Sep 2008 - Nov 2008		November 2008		Sep 2008 - Nov 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Pulp, paper and paper products; publishing, printing and reproduction of recorded media</b>	<b>21-22</b>	<b>2,304.9</b>	<b>225.7</b>	<b>6.7</b>	<b>222.1</b>	<b>2.2</b>	<b>232.9</b>	<b>6.3</b>	<b>225.1</b>	<b>-9.2</b>
<b>Pulp, paper and paper products</b>	<b>21</b>	<b>246.9</b>	<b>94.7</b>	<b>-3.3</b>	<b>93.5</b>	<b>-2.8</b>	<b>92.0</b>	<b>3.5</b>	<b>91.0</b>	<b>4.4</b>
<b>Publishing, printing and reproduction of recorded media</b>	<b>22</b>	<b>2,058.0</b>	<b>241.4</b>	<b>7.3</b>	<b>237.5</b>	<b>2.4</b>	<b>249.3</b>	<b>6.2</b>	<b>241.2</b>	<b>-9.9</b>
Publishing; printing and service activities related to printing	221,222	630.7	93.6	-2.0	91.9	0.4	91.8	2.3	89.9	-1.4
Reproduction of recorded media	223	1,427.3	306.7	8.7	301.8	2.7	318.5	6.6	308.0	-11.5
<b>Chemicals, chemical products and man-made fibres</b>	<b>24</b>	<b>8,251.9</b>	<b>181.5</b>	<b>2.8</b>	<b>162.5</b>	<b>-0.4</b>	<b>184.3</b>	<b>23.6</b>	<b>164.5</b>	<b>-6.9</b>
Basic chemicals	241	6,596.7	144.2	0.7	125.5	-7.3	151.3	48.7	127.7	-12.0
Pharmaceuticals, medicinal chemicals and botanical products	244	1,155.3	426.1	8.1	396.1	15.9	442.5	-3.0	416.2	15.7
Other chemicals and chemical products	242,243,245-247	499.9	108.1	-5.7	112.1	-4.6	114.2	4.0	116.2	-6.0
<b>Rubber and plastic products</b>	<b>25</b>	<b>437.5</b>	<b>80.9</b>	<b>-16.9</b>	<b>79.9</b>	<b>-15.5</b>	<b>79.9</b>	<b>2.3</b>	<b>79.7</b>	<b>-6.9</b>
<b>Other non-metallic mineral products</b>	<b>26</b>	<b>578.2</b>	<b>91.7</b>	<b>-20.9</b>	<b>94.3</b>	<b>-21.8</b>	<b>90.2</b>	<b>1.7</b>	<b>89.5</b>	<b>-6.8</b>
<b>Basic metals and fabricated metal products</b>	<b>27-28</b>	<b>715.6</b>	<b>95.0</b>	<b>-14.5</b>	<b>94.6</b>	<b>-11.5</b>	<b>95.1</b>	<b>1.8</b>	<b>93.5</b>	<b>-8.1</b>
<b>Basic metals</b>	<b>27</b>	<b>163.0</b>	<b>105.9</b>	<b>-0.9</b>	<b>98.9</b>	<b>-6.0</b>	<b>113.7</b>	<b>30.8</b>	<b>100.9</b>	<b>-16.7</b>
<b>Fabricated metal products, except machinery and equipment</b>	<b>28</b>	<b>552.5</b>	<b>91.8</b>	<b>-18.3</b>	<b>93.4</b>	<b>-13.0</b>	<b>91.2</b>	<b>-4.5</b>	<b>91.7</b>	<b>-5.7</b>
<b>Machinery and equipment, not elsewhere classified</b>	<b>29</b>	<b>649.2</b>	<b>118.3</b>	<b>21.5</b>	<b>101.9</b>	<b>-1.1</b>	<b>114.7</b>	<b>29.2</b>	<b>99.8</b>	<b>7.5</b>

Table 4 Volume Indices of Production for Industrial Sectors - Provisional Results (continued)

Base year 2000=100

November 2008

Industrial Sector	NACE	Weighting base  Year 2000 Gross value added EUR million	Index - Unadjusted				Index - Seasonally adjusted			
			November 2008		Sep 2008 - Nov 2008		November 2008		Sep 2008 - Nov 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
Electrical and optical equipment	30-33	7,040.4	142.5	3.7	139.3	-3.6	145.1	8.1	139.6	3.8
Office machinery and computers	30	1,605.9	134.6	9.4	137.0	2.2	145.7	15.1	135.9	-3.4
Electrical machinery and apparatus, not elsewhere classified	31	1,049.7	151.5	2.5	170.7	5.1	159.1	-11.9	170.2	2.9
Radio, television and communication equipment and apparatus	32	2,711.8	75.6	-21.5	76.0	-22.7	74.5	2.5	76.2	-2.7
Medical, precision and optical instruments, watches and clocks	33	1,672.9	252.8	19.6	224.5	2.9	254.1	18.6	224.3	8.9
Transport equipment	34-35	433.6	120.3	14.7	112.2	3.1	116.9	15.0	107.7	-5.9
Manufacturing not elsewhere classified; recycling; refined petroleum products; tobacco products	36,37,23,16	875.4	70.0	-6.1	66.7	-10.8	63.7	7.8	62.5	-4.7
Manufacturing industries .....		25,494.6	151.6	2.6	142.5	-2.4	150.1	10.7	143.2	-2.3
Mining and quarrying	10-14	289.0	101.3	-10.3	98.3	-23.9	96.4	1.4	101.7	-12.4
Transportable goods industries .....		25,783.6	151.0	2.5	142.0	-2.6	149.9	10.9	143.0	-2.3
Electricity, gas and water supply	40-41	1,377.8	138.9	4.8	130.2	3.8	132.7	-1.8	131.9	-0.2
All industries .....		27,161.4	150.4	2.6	141.4	-2.3	149.0	10.3	142.3	-2.3
of which: Energy producing industries	10,11,12,23,40,41	1,527.5	132.3	4.1	123.9	0.4	126.9	-2.5	126.5	0.1
Capital goods .....		5,224.8	159.3	10.6	153.2	0.5	166.9	15.3	152.8	4.5
Intermediate products .....		11,906.0	118.7	-5.2	108.2	-11.2	117.1	25.1	109.0	-10.4
Consumer goods .....		8,503.1	192.5	6.0	183.7	4.3	192.1	0.3	187.4	1.5
of which: Durable consumer goods .....		924.3	153.2	9.6	145.0	3.6	142.1	5.4	142.6	3.9
Non-durable consumer goods .....		7,578.8	197.3	5.7	188.4	4.4	198.1	-0.1	192.8	1.1

**Table 5 Volume Indices of Production for Selected Sectors - Unadjusted<sup>1</sup>**

Base year 2000=100

Period	Industrial Sector and NACE Code						
	Food products and beverages 15	Publishing, printing and reproduction of recorded media 22	Basic chemicals 241	Pharmaceuticals, medicinal chemicals and botanical products 244	Other chemicals and chemical products 24 (other)	Office machinery and computers 30	Medical, precision and optical instruments, etc 33
2007 January	119.7	202.3	144.2	281.1	108.3	112.7	192.1
February	123.5	239.2	157.9	296.5	119.3	104.4	204.6
March	133.8	231.8	167.7	271.2	122.1	153.2	227.5
April	142.3	213.4	147.7	292.7	131.1	129.4	199.9
May	146.3	203.7	129.2	366.0	125.2	103.7	195.7
June	141.5	270.9	114.7	365.7	114.0	148.5	203.0
July	130.6	198.5	122.2	317.3	115.3	105.7	198.9
August	133.9	189.4	132.7	373.2	117.5	94.8	176.6
September	128.8	250.7	95.7	282.9	117.4	155.9	235.8
October	116.8	221.9	163.7	343.2	120.6	125.2	208.7
November	123.9	225.0	143.2	394.2	114.6	123.0	211.4
December	117.1	356.6	113.8	351.8	97.8	194.6	184.5
2008 January	113.7	209.3	142.6	349.1	114.1	119.6	205.6
February	124.9	203.3	141.1	345.5	111.1	108.0	230.1
March	129.3	298.2	168.2	382.8	112.4	167.6	233.4
April	131.3	220.3	130.8	355.5	120.1	113.8	210.7
May	140.6	227.3	185.2	368.1	115.2	107.1	219.4
June	131.1	316.9	139.2	384.4	125.2	166.3	211.5
July	123.4	212.0	88.4	367.7	127.2	111.0	204.2
August	121.4	220.3	169.5	364.2	110.9	103.7	186.8
September	116.0	245.3	123.2	331.4	123.5	156.6	209.5
October	115.2	226.2	110.7	433.5	104.3	119.5	213.7
November	127.0	241.4	144.2	426.1	108.1	134.6	252.8
Nov 08 / Nov 07	2.5%	7.3%	0.7%	8.1%	-5.7%	9.4%	19.6%

<sup>1</sup> All data for latest month are provisional

Table 6 Industrial Turnover Indices<sup>1</sup>

Base year 2000=100

Period	Manufacturing Industries				Transportable Goods Industries			
	Unadjusted		Seasonally adjusted		Unadjusted		Seasonally adjusted	
	Index	Annual % change	Index	% change on preceding period	Index	Annual % change	Index	% change on preceding period
2000	100.0				100.0			
2001	107.7	7.7			107.8	7.8		
2002	110.3	2.4			110.3	2.3		
2003	107.2	-2.8			107.2	-2.8		
2004	108.4	1.1			108.6	1.3		
2005	113.0	4.2			113.3	4.3		
2006	116.1	2.7			117.1	3.4		
2007	123.5	6.4			124.5	6.3		
2004 Quarter 1	103.6		106.1	-1.4	103.8		106.3	-1.4
2	112.9		109.0	2.7	113.1		109.2	2.7
3	104.1	-0.8	109.1	0.1	104.2	-0.7	109.3	0.1
4	113.0	1.2	108.5	-0.5	113.3	1.3	108.9	-0.4
2005 Quarter 1	105.8	2.1	108.6	0.1	106.3	2.4	108.9	0.0
2	115.8	2.6	112.2	3.3	116.0	2.6	112.4	3.2
3	106.6	2.4	111.9	-0.3	106.8	2.5	112.3	-0.1
4	123.8	9.6	118.7	6.1	124.3	9.7	119.4	6.3
2006 Quarter 1	113.9	7.7	116.5	-1.9	114.9	8.1	117.3	-1.8
2	118.0	1.9	114.5	-1.7	118.9	2.5	115.4	-1.6
3	111.0	4.1	117.3	2.4	111.9	4.8	118.3	2.5
4	121.5	-1.9	116.3	-0.9	122.8	-1.2	117.8	-0.4
2007 Quarter 1	124.9	9.7	127.8	9.9	126.0	9.7	128.5	9.1
2	126.5	7.2	123.1	-3.7	127.6	7.3	124.2	-3.3
3	116.7	5.1	123.7	0.5	117.6	5.1	124.7	0.4
4	126.3	4.0	121.2	-2.0	127.0	3.4	122.0	-2.2
2008 Quarter 1	124.9	0.0	127.9	5.5	125.6	-0.3	128.3	5.2
2	125.3	-0.9	122.1	-4.5	125.9	-1.3	122.7	-4.4
3	115.1	-1.4	121.7	-0.3	115.5	-1.8	122.2	-0.4
2007 January	118.6	8.7	129.4	5.1	119.4	8.6	129.7	4.5
February	123.4	10.4	127.9	-1.2	124.5	10.3	128.9	-0.6
March	133.0	10.4	125.9	-1.6	134.3	10.6	127.0	-1.5
April	126.2	14.1	126.6	0.6	127.3	13.8	127.5	0.4
May	119.1	2.8	121.1	-4.3	120.4	3.2	122.4	-4.0
June	134.9	6.5	121.9	0.7	135.7	6.6	123.0	0.5
July	113.1	6.6	123.5	1.3	113.9	6.5	124.4	1.1
August	114.1	5.5	125.5	1.6	115.1	5.7	126.6	1.8
September	123.6	3.8	121.9	-2.9	124.5	3.6	122.8	-3.0
October	124.6	6.8	124.1	1.8	125.4	6.3	124.9	1.7
November	120.7	6.4	118.3	-4.7	121.4	5.6	119.4	-4.4
December	134.7	-1.1	121.1	2.4	135.2	-1.4	121.8	2.0
2008 January	113.7	-4.1	123.9	2.3	114.4	-4.2	123.9	1.8
February	122.1	-1.1	126.5	2.1	123.0	-1.2	127.2	2.6
March	141.9	6.7	134.4	6.2	142.4	6.1	134.7	5.9
April	117.7	-6.7	118.2	-12.0	118.6	-6.9	118.8	-11.8
May	125.6	5.5	127.9	8.2	126.4	4.9	128.6	8.2
June	133.1	-1.3	120.3	-6.0	133.5	-1.6	120.8	-6.0
July	109.1	-3.5	119.4	-0.7	109.5	-3.9	119.8	-0.8
August	115.7	1.4	127.3	6.6	116.1	0.9	127.8	6.6
September	120.7	-2.4	118.9	-6.6	121.1	-2.7	119.5	-6.5
October	126.0	1.1	125.6	5.7	126.2	0.6	125.8	5.3
November	122.7	1.7	120.4	-4.1	123.1	1.4	121.1	-3.7

<sup>1</sup> All data for latest month are provisional

Table 7 Turnover Indices for Industrial Sectors - Final Results

Base year 2000=100

October 2008

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Turnover EUR million	October 2008		Aug 2008 - Oct 2008		October 2008		Aug 2008 - Oct 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Food products and beverages</b>	<b>15</b>	<b>16,121.3</b>	<b>126.7</b>	<b>1.9</b>	<b>127.4</b>	<b>-2.7</b>	<b>133.6</b>	<b>7.1</b>	<b>129.5</b>	<b>1.7</b>
<b>Food products</b>	<b>151-158</b>	<b>13,724.1</b>	<b>126.6</b>	<b>1.0</b>	<b>128.3</b>	<b>-3.5</b>	<b>135.9</b>	<b>6.8</b>	<b>131.9</b>	<b>1.3</b>
Meat and meat products	151	3,563.6	130.6	2.2	129.1	1.3	125.4	-1.4	126.8	-1.4
Dairy products	155	3,022.6	91.1	-26.5	105.7	-15.2	95.4	-1.8	99.7	-6.5
Bread; fresh pastry goods and cakes; rusks and biscuits; preserved pastry goods and cakes	1581,1582	558.6	102.6	0.9	101.9	1.9	102.8	0.4	104.2	-1.0
Sugar; cocoa; chocolate and sugar confectionery	1583,1584	593.5	70.1	9.4	67.6	10.1	76.2	6.4	71.4	20.2
Grain mill products, starches and starch products; prepared animal feeds	156,157	842.8	126.5	18.6	117.0	12.3	133.6	3.9	127.7	14.0
Other foods	152-154,1585-1589	5,143.0	153.7	12.1	152.6	-3.6	180.2	17.8	164.6	3.6
<b>Beverages</b>	<b>159</b>	<b>2,397.2</b>	<b>127.4</b>	<b>7.1</b>	<b>122.3</b>	<b>2.3</b>	<b>118.6</b>	<b>6.3</b>	<b>116.1</b>	<b>2.8</b>
<b>Textiles and textile products</b>	<b>17-18</b>	<b>778.4</b>	<b>43.9</b>	<b>6.3</b>	<b>40.0</b>	<b>-3.6</b>	<b>44.3</b>	<b>2.1</b>	<b>41.7</b>	<b>-0.2</b>
<b>Textiles</b>	<b>17</b>	<b>477.3</b>	<b>58.0</b>	<b>6.7</b>	<b>52.6</b>	<b>-0.4</b>	<b>58.4</b>	<b>2.0</b>	<b>54.8</b>	<b>-4.2</b>
<b>Wearing apparel; dressing and dyeing of fur</b>	<b>18</b>	<b>301.1</b>	<b>21.5</b>	<b>4.5</b>	<b>20.0</b>	<b>-15.3</b>	<b>21.3</b>	<b>3.2</b>	<b>20.8</b>	<b>21.6</b>
<b>Leather and leather products</b>	<b>19</b>	<b>78.0</b>	<b>22.1</b>	<b>-22.8</b>	<b>24.9</b>	<b>-4.6</b>	<b>17.1</b>	<b>-19.5</b>	<b>20.0</b>	<b>-0.5</b>
<b>Wood and wood products</b>	<b>20</b>	<b>853.2</b>	<b>90.5</b>	<b>-38.5</b>	<b>94.9</b>	<b>-32.2</b>	<b>88.8</b>	<b>-4.5</b>	<b>94.2</b>	<b>-16.9</b>

Table 7 Turnover Indices for Industrial Sectors - Final Results (continued)

Base year 2000=100

October 2008

Industrial Sector	NACE	Weighting base  Year 2000 Turnover EUR million	Index - Unadjusted				Index - Seasonally adjusted			
			October 2008		Aug 2008 - Oct 2008		October 2008		Aug 2008 - Oct 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Pulp, paper and paper products; publishing, printing and reproduction of recorded media</b>	<b>21-22</b>	<b>10,026.6</b>	<b>184.2</b>	<b>5.8</b>	<b>181.4</b>	<b>3.2</b>	<b>189.0</b>	<b>1.5</b>	<b>193.8</b>	<b>4.4</b>
<b>Pulp, paper and paper products</b>	<b>21</b>	<b>753.3</b>	<b>91.1</b>	<b>-13.6</b>	<b>90.6</b>	<b>-13.7</b>	<b>91.2</b>	<b>-4.9</b>	<b>90.2</b>	<b>-2.0</b>
<b>Publishing, printing and reproduction of recorded media</b>	<b>22</b>	<b>9,273.4</b>	<b>191.8</b>	<b>6.7</b>	<b>188.8</b>	<b>4.1</b>	<b>196.9</b>	<b>1.7</b>	<b>202.5</b>	<b>4.9</b>
Publishing; printing and service activities related to printing	221,222	1,326.5	101.9	-0.2	98.9	-3.4	94.1	-3.0	97.9	0.3
Reproduction of recorded media	223	7,946.8	206.8	7.3	203.8	4.7	214.1	2.1	220.3	5.1
<b>Chemicals, chemical products and man-made fibres</b>	<b>24</b>	<b>22,303.9</b>	<b>166.7</b>	<b>9.4</b>	<b>146.2</b>	<b>11.0</b>	<b>159.5</b>	<b>23.5</b>	<b>147.7</b>	<b>0.8</b>
Basic chemicals	241	17,371.6	127.9	-2.2	111.9	7.8	116.8	23.8	114.9	5.5
Pharmaceuticals, medicinal chemicals and botanical products	244	3,288.9	401.8	37.9	344.2	17.6	406.3	28.5	362.5	12.2
Other chemicals and chemical products	242,243,245-247	1,643.4	106.9	3.0	112.5	7.4	116.0	-5.0	121.0	8.5
<b>Rubber and plastic products</b>	<b>25</b>	<b>1,279.3</b>	<b>92.1</b>	<b>-17.5</b>	<b>91.2</b>	<b>-14.3</b>	<b>92.4</b>	<b>-1.8</b>	<b>94.1</b>	<b>-5.5</b>
<b>Other non-metallic mineral products</b>	<b>26</b>	<b>1,531.1</b>	<b>124.4</b>	<b>-23.5</b>	<b>129.4</b>	<b>-19.2</b>	<b>118.9</b>	<b>-1.6</b>	<b>124.5</b>	<b>-9.5</b>
<b>Basic metals and fabricated metal products</b>	<b>27-28</b>	<b>1,881.1</b>	<b>120.3</b>	<b>-2.7</b>	<b>120.3</b>	<b>-1.2</b>	<b>115.6</b>	<b>-0.7</b>	<b>120.5</b>	<b>-6.2</b>
<b>Basic metals</b>	<b>27</b>	<b>469.9</b>	<b>119.7</b>	<b>-8.9</b>	<b>135.0</b>	<b>2.9</b>	<b>114.8</b>	<b>-19.2</b>	<b>138.9</b>	<b>-14.4</b>
<b>Fabricated metal products, except machinery and equipment</b>	<b>28</b>	<b>1,411.2</b>	<b>120.4</b>	<b>-0.5</b>	<b>115.5</b>	<b>-2.5</b>	<b>117.5</b>	<b>8.5</b>	<b>114.9</b>	<b>-2.5</b>
<b>Machinery and equipment, not elsewhere classified</b>	<b>29</b>	<b>1,712.4</b>	<b>102.1</b>	<b>-14.0</b>	<b>101.7</b>	<b>-5.5</b>	<b>104.9</b>	<b>-8.9</b>	<b>107.4</b>	<b>-2.0</b>

Table 7 Turnover Indices for Industrial Sectors - Final Results (continued)

Base year 2000=100

October 2008

Industrial Sector	NACE	Weighting base  Year 2000 Turnover EUR million	Index - Unadjusted				Index - Seasonally adjusted			
			October 2008		Aug 2008 - Oct 2008		October 2008		Aug 2008 - Oct 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
Electrical and optical equipment	30-33	30,594.4	90.2	-4.3	90.5	-5.2	90.2	-2.6	92.0	0.0
Office machinery and computers	30	18,900.5	79.4	-9.0	83.3	-6.2	81.1	-5.7	86.4	-0.2
Electrical machinery and apparatus, not elsewhere classified	31	2,384.2	121.9	5.2	112.4	1.3	115.6	4.2	113.3	7.0
Radio, television and communication equipment and apparatus	32	5,969.2	51.1	-21.0	49.6	-23.5	48.2	-5.2	46.9	-5.4
Medical, precision and optical instruments, watches and clocks	33	3,340.6	199.1	16.1	189.0	6.9	203.4	6.6	194.2	3.4
Transport equipment	34-35	1,122.7	100.7	-9.7	100.9	-5.1	98.5	-5.5	103.0	-2.8
Manufacturing not elsewhere classified; recycling; refined petroleum products; tobacco products	36,37,23,16	2,620.5	57.8	-15.1	58.2	-10.5	54.1	-10.0	59.0	-2.6
Manufacturing industries .....		90,902.8	126.0	1.1	121.0	0.2	125.6	5.7	123.8	1.1
Mining and quarrying	10-14	991.9	143.5	-28.4	151.6	-25.1	145.5	-12.8	164.2	-9.9
Transportable goods industries .....		91,894.7	126.2	0.6	121.3	-0.2	125.8	5.3	124.3	1.1
of which: Industries mainly or wholly producing <sup>1</sup>										
Capital goods .....		27,565.1	96.8	-3.5	97.5	-3.8	97.3	-2.1	99.8	0.2
Intermediate products .....		31,486.1	109.6	-8.2	101.3	-2.8	103.3	9.2	103.8	1.1
Consumer goods .....		32,584.2	166.7	9.7	160.3	3.3	172.6	8.1	168.2	8.0
of which: Durable consumer goods .....		1,800.6	127.1	-10.9	121.5	-6.8	119.0	-7.5	125.3	1.6
Non-durable consumer goods .....		30,783.6	169.0	10.8	162.6	3.8	175.7	8.9	170.7	8.3

<sup>1</sup> Excludes Energy producing industries

Table 7 Turnover Indices for Industrial Sectors - Provisional Results (continued)

Base year 2000=100

November 2008

Industrial Sector	NACE	Weighting base	Index - Unadjusted				Index - Seasonally adjusted			
		Year 2000 Turnover EUR million	November 2008		Sep 2008 - Nov 2008		November 2008		Sep 2008 - Nov 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Food products and beverages</b>	<b>15</b>	<b>16,121.3</b>	<b>132.4</b>	<b>2.2</b>	<b>127.4</b>	<b>-0.8</b>	<b>133.1</b>	<b>-0.4</b>	<b>130.4</b>	<b>2.6</b>
<b>Food products</b>	<b>151-158</b>	<b>13,724.1</b>	<b>134.4</b>	<b>3.5</b>	<b>128.5</b>	<b>-0.8</b>	<b>138.7</b>	<b>2.0</b>	<b>133.8</b>	<b>2.5</b>
Meat and meat products	151	3,563.6	126.7	-1.6	129.1	0.9	121.6	-3.1	124.8	-2.7
Dairy products	155	3,022.6	100.6	-17.1	99.2	-20.1	100.2	5.0	97.5	-10.3
Bread; fresh pastry goods and cakes; rusks and biscuits; preserved pastry goods and cakes	1581,1582	558.6	113.6	17.7	104.6	5.3	114.0	10.9	106.2	0.9
Sugar; cocoa; chocolate and sugar confectionery	1583,1584	593.5	67.3	-17.1	69.2	-3.6	72.6	-4.7	73.5	20.3
Grain mill products, starches and starch products; prepared animal feeds	156,157	842.8	126.0	3.2	123.0	10.8	121.6	-9.0	128.1	11.9
Other foods	152-154,1585-1589	5,143.0	171.0	17.0	155.5	5.9	186.4	3.4	172.8	9.8
<b>Beverages</b>	<b>159</b>	<b>2,397.2</b>	<b>121.3</b>	<b>-5.0</b>	<b>121.4</b>	<b>-0.4</b>	<b>104.9</b>	<b>-11.5</b>	<b>111.9</b>	<b>2.4</b>
<b>Textiles and textile products</b>	<b>17-18</b>	<b>778.4</b>	<b>44.7</b>	<b>7.4</b>	<b>43.8</b>	<b>2.8</b>	<b>47.3</b>	<b>6.7</b>	<b>44.9</b>	<b>10.0</b>
<b>Textiles</b>	<b>17</b>	<b>477.3</b>	<b>60.6</b>	<b>10.5</b>	<b>58.6</b>	<b>5.6</b>	<b>60.1</b>	<b>2.9</b>	<b>58.6</b>	<b>6.7</b>
<b>Wearing apparel; dressing and dyeing of fur</b>	<b>18</b>	<b>301.1</b>	<b>19.5</b>	<b>-5.4</b>	<b>20.4</b>	<b>-7.7</b>	<b>21.8</b>	<b>2.3</b>	<b>21.3</b>	<b>17.0</b>
<b>Leather and leather products</b>	<b>19</b>	<b>78.0</b>	<b>19.3</b>	<b>-13.0</b>	<b>23.9</b>	<b>-9.8</b>	<b>18.0</b>	<b>5.1</b>	<b>18.8</b>	<b>-11.3</b>
<b>Wood and wood products</b>	<b>20</b>	<b>853.2</b>	<b>85.6</b>	<b>-34.8</b>	<b>91.3</b>	<b>-34.7</b>	<b>84.9</b>	<b>-4.4</b>	<b>89.1</b>	<b>-17.6</b>



Table 7 Turnover Indices for Industrial Sectors - Provisional Results (continued)

Base year 2000=100

November 2008

Industrial Sector	NACE	Weighting base  Year 2000 Turnover EUR million	Index - Unadjusted				Index - Seasonally adjusted			
			November 2008		Sep 2008 - Nov 2008		November 2008		Sep 2008 - Nov 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
<b>Pulp, paper and paper products; publishing, printing and reproduction of recorded media</b>	<b>21-22</b>	<b>10,026.6</b>	<b>204.7</b>	<b>19.3</b>	<b>193.7</b>	<b>6.6</b>	<b>210.6</b>	<b>11.5</b>	<b>194.8</b>	<b>1.3</b>
<b>Pulp, paper and paper products</b>	<b>21</b>	<b>753.3</b>	<b>96.7</b>	<b>-10.9</b>	<b>96.1</b>	<b>-11.4</b>	<b>93.9</b>	<b>3.0</b>	<b>93.7</b>	<b>5.5</b>
<b>Publishing, printing and reproduction of recorded media</b>	<b>22</b>	<b>9,273.4</b>	<b>213.5</b>	<b>20.8</b>	<b>201.6</b>	<b>7.5</b>	<b>220.1</b>	<b>11.8</b>	<b>203.0</b>	<b>1.1</b>
Publishing; printing and service activities related to printing	221,222	1,326.5	101.3	-7.3	100.6	-4.3	98.9	5.1	96.6	-2.9
Reproduction of recorded media	223	7,946.8	232.3	23.6	218.4	8.4	240.7	12.4	220.9	1.2
<b>Chemicals, chemical products and man-made fibres</b>	<b>24</b>	<b>22,303.9</b>	<b>128.1</b>	<b>-9.9</b>	<b>139.7</b>	<b>4.2</b>	<b>113.4</b>	<b>-28.9</b>	<b>134.7</b>	<b>-5.7</b>
Basic chemicals	241	17,371.6	80.1	-29.4	99.8	-8.4	71.3	-38.9	94.8	-12.7
Pharmaceuticals, medicinal chemicals and botanical products	244	3,288.9	390.3	23.8	364.4	29.0	368.5	-9.3	363.5	10.2
Other chemicals and chemical products	242,243,245-247	1,643.4	111.1	10.7	111.8	8.8	121.9	5.1	119.9	0.4
<b>Rubber and plastic products</b>	<b>25</b>	<b>1,279.3</b>	<b>91.6</b>	<b>-18.2</b>	<b>93.0</b>	<b>-16.7</b>	<b>91.1</b>	<b>-1.5</b>	<b>92.6</b>	<b>-6.5</b>
<b>Other non-metallic mineral products</b>	<b>26</b>	<b>1,531.1</b>	<b>123.9</b>	<b>-18.5</b>	<b>126.8</b>	<b>-21.6</b>	<b>122.1</b>	<b>2.7</b>	<b>120.6</b>	<b>-10.1</b>
<b>Basic metals and fabricated metal products</b>	<b>27-28</b>	<b>1,881.1</b>	<b>117.4</b>	<b>-12.2</b>	<b>118.7</b>	<b>-7.7</b>	<b>115.8</b>	<b>0.2</b>	<b>116.0</b>	<b>-10.1</b>
<b>Basic metals</b>	<b>27</b>	<b>469.9</b>	<b>136.0</b>	<b>-1.0</b>	<b>130.2</b>	<b>-3.7</b>	<b>137.4</b>	<b>19.7</b>	<b>131.2</b>	<b>-19.0</b>
<b>Fabricated metal products, except machinery and equipment</b>	<b>28</b>	<b>1,411.2</b>	<b>111.2</b>	<b>-16.1</b>	<b>114.9</b>	<b>-9.1</b>	<b>107.5</b>	<b>-8.5</b>	<b>111.2</b>	<b>-6.0</b>
<b>Machinery and equipment, not elsewhere classified</b>	<b>29</b>	<b>1,712.4</b>	<b>140.4</b>	<b>27.5</b>	<b>119.8</b>	<b>4.1</b>	<b>136.6</b>	<b>30.2</b>	<b>118.3</b>	<b>8.2</b>

Table 7 Turnover Indices for Industrial Sectors - Provisional Results (continued)

Base year 2000=100

November 2008

Industrial Sector	NACE	Weighting base  Year 2000 Turnover EUR million	Index - Unadjusted				Index - Seasonally adjusted			
			November 2008		Sep 2008 - Nov 2008		November 2008		Sep 2008 - Nov 2008	
			Index	Annual % change	Index	Annual % change	Index	% change on preceding month	Index	% change on preceding 3 months
Electrical and optical equipment	30-33	30,594.4	96.5	8.0	96.6	-1.7	100.5	11.4	94.3	2.5
Office machinery and computers	30	18,900.5	87.7	7.3	89.6	-4.1	95.2	17.3	87.2	-2.0
Electrical machinery and apparatus, not elsewhere classified	31	2,384.2	106.2	6.4	114.1	4.2	110.5	-4.4	112.4	5.9
Radio, television and communication equipment and apparatus	32	5,969.2	49.5	-18.8	51.0	-18.9	46.2	-4.1	48.5	6.6
Medical, precision and optical instruments, watches and clocks	33	3,340.6	223.1	26.9	205.2	13.2	220.9	8.6	204.5	8.5
Transport equipment	34-35	1,122.7	108.0	3.5	104.3	-3.2	106.5	8.1	103.0	-3.2
Manufacturing not elsewhere classified; recycling; refined petroleum products; tobacco products	36,37,23,16	2,620.5	61.2	-8.9	59.7	-12.2	55.4	2.4	56.6	-6.1
Manufacturing industries .....		90,902.8	122.7	1.7	123.2	0.2	120.4	-4.1	121.7	-0.4
Mining and quarrying	10-14	991.9	153.1	-18.5	150.8	-23.4	135.5	-6.9	149.7	-15.2
Transportable goods industries .....		91,894.7	123.1	1.4	123.5	-0.2	121.1	-3.7	122.2	-0.4
of which: Industries mainly or wholly producing <sup>1</sup>										
Capital goods .....		27,565.1	105.9	10.5	104.9	-0.5	112.3	15.4	102.7	2.0
Intermediate products .....		31,486.1	83.7	-22.7	94.7	-11.6	77.8	-24.7	92.3	-8.7
Consumer goods .....		32,584.2	175.3	12.8	166.5	7.4	176.7	2.4	169.4	5.9
of which: Durable consumer goods .....		1,800.6	137.6	-1.7	130.2	-6.3	126.1	6.0	124.6	2.1
Non-durable consumer goods .....		30,783.6	177.5	13.6	168.6	8.1	180.2	2.6	172.2	6.2

<sup>1</sup> Excludes Energy producing industries

**Table 8 Turnover Indices for Selected Sectors - Unadjusted<sup>1</sup>**

Base year 2000=100

Period	Industrial Sector and NACE Code						
	Food products and beverages 15	Publishing, printing and reproduction of recorded media 22	Basic chemicals 241	Pharmaceuticals, medicinal chemicals and botanical products 244	Other chemicals and chemical products 24 (other)	Office machinery and computers 30	Medical, precision and optical instruments, etc 33
2007 January	108.2	175.9	119.3	322.9	98.9	84.9	189.4
February	116.7	209.1	131.4	263.1	109.7	78.6	187.8
March	125.8	199.1	133.7	249.5	109.8	115.3	210.3
April	136.3	179.9	126.0	262.3	115.8	93.9	181.1
May	141.2	170.9	103.3	268.7	111.3	75.7	186.2
June	136.7	231.9	107.2	333.2	104.8	110.2	191.9
July	130.6	165.1	95.1	263.1	101.6	76.7	179.8
August	137.0	158.6	98.1	345.4	106.0	68.4	162.8
September	131.7	208.3	80.3	236.7	104.3	113.1	198.1
October	124.4	179.7	130.8	291.3	103.8	87.2	171.5
November	129.5	176.7	113.4	315.3	100.4	81.7	175.9
December	132.2	285.3	86.9	251.7	105.6	135.1	159.0
2008 January	117.8	165.8	110.1	282.1	101.2	80.1	175.6
February	129.8	159.9	122.3	381.4	103.0	73.4	191.0
March	141.1	227.1	144.7	316.8	101.1	109.1	207.3
April	132.2	166.6	117.9	288.7	107.2	71.3	182.3
May	140.6	171.5	145.1	334.4	108.7	67.0	190.8
June	136.3	240.4	104.0	336.0	119.0	107.8	191.0
July	129.8	157.1	84.6	329.6	117.6	68.3	188.2
August	132.4	172.6	118.7	325.4	113.2	67.4	171.0
September	123.5	200.5	89.6	303.5	117.3	101.6	195.1
October	126.7	191.8	127.9	401.8	106.9	79.4	199.1
November	132.4	213.5	80.1	390.3	111.1	87.7	223.1
Nov 08 / Nov 07	2.2%	20.8%	-29.4%	23.8%	10.7%	7.3%	26.9%

<sup>1</sup> All data for latest month are provisional

**Table 9 Production and Turnover Indices by Main Industrial Groupings - Unadjusted<sup>1</sup>**

Base year 2000=100

Period	Production					Turnover				
	Capital goods	Intermediate goods	Consumer goods	Durable consumer goods	Non-durable consumer goods	Capital goods	Intermediate goods	Consumer goods	Durable consumer goods	Non-durable consumer goods
2007 January	136.9	126.9	156.9	126.2	160.6	98.0	112.3	144.1	121.2	145.5
February	137.4	131.9	171.2	134.0	175.7	95.3	120.7	153.0	129.4	154.3
March	165.8	138.5	170.8	138.9	174.7	124.6	123.3	152.8	130.2	154.1
April	144.6	129.0	173.8	141.9	177.7	105.2	118.4	154.4	125.9	156.0
May	133.5	122.0	183.6	145.7	188.2	93.1	108.4	155.2	129.8	156.7
June	152.2	112.2	196.9	143.9	203.4	117.8	109.0	176.9	136.8	179.2
July	137.3	111.1	167.8	139.6	171.2	93.1	97.9	147.2	127.9	148.3
August	124.7	119.0	172.8	122.6	178.9	84.0	99.9	156.0	114.8	158.4
September	166.5	100.0	174.6	132.5	179.7	121.4	92.3	157.8	133.8	159.2
October	148.1	138.2	172.0	147.0	175.1	100.3	119.4	152.0	142.6	152.5
November	143.9	125.3	181.6	139.7	186.7	95.8	108.3	155.4	139.9	156.3
December	165.3	107.4	202.0	120.6	211.9	131.3	91.3	180.6	130.4	183.5
2008 January	144.3	123.8	166.2	129.0	170.7	93.9	103.2	142.0	122.1	143.1
February	144.6	123.1	169.8	135.2	174.0	91.7	115.3	156.6	130.6	158.1
March	173.1	144.0	201.2	151.3	207.3	120.9	127.5	174.3	136.2	176.6
April	143.4	118.0	178.3	134.5	183.6	89.3	110.7	150.2	125.0	151.7
May	140.0	147.0	186.9	145.4	192.0	85.9	125.0	161.3	132.7	163.0
June	160.0	122.1	205.6	127.8	215.0	115.3	101.7	179.2	124.5	182.4
July	138.6	88.1	174.9	128.0	180.6	86.4	86.5	151.4	117.1	153.4
August	125.3	131.7	174.7	131.8	180.0	82.5	104.7	155.4	109.6	158.0
September	154.4	108.0	175.9	142.0	180.0	112.0	89.9	158.4	126.6	160.2
October	146.4	98.7	183.5	140.6	188.8	96.8	109.6	166.7	127.1	169.0
November	159.3	118.7	192.5	153.2	197.3	105.9	83.7	175.3	137.6	177.5
Nov 08 / Nov 07	10.6%	-5.2%	6.0%	9.6%	5.7%	10.5%	-22.7%	12.8%	-1.7%	13.6%

<sup>1</sup> All data for latest month are provisional

**Table 10 New Orders Indices for Selected Sectors - Unadjusted<sup>1</sup>**

Base year 2000=100

Period	Industrial Sector and NACE Code						
	Total for Manufacturing industries	Publishing, printing and reproduction of recorded media	Basic chemicals	Pharmaceuticals, medicinal chemicals and botanical products	Other chemicals and chemical products 24 (other)	Office machinery and computers	Medical, precision and optical instruments, etc
	15-37	22	241	244		30	33
2007 January	118.4	176.7	118.7	319.9	99.1	84.9	194.3
February	123.4	208.9	131.4	270.1	110.9	78.6	190.8
March	132.4	197.3	133.4	243.4	111.7	115.3	212.2
April	125.1	179.3	126.2	240.0	116.6	93.9	180.8
May	118.3	170.3	102.3	262.8	112.1	75.9	185.2
June	133.6	223.8	107.5	332.0	106.9	110.2	190.0
July	112.9	165.1	94.9	263.5	104.9	76.7	179.5
August	113.4	158.4	98.1	328.3	106.7	68.4	163.0
September	122.9	208.9	80.2	225.6	106.1	113.1	198.4
October	124.1	175.3	130.3	294.8	104.8	87.2	175.7
November	119.1	170.8	113.6	296.7	101.5	81.8	179.7
December	136.7	307.8	86.7	246.1	107.1	135.1	161.6
2008 January	113.4	165.5	109.8	279.5	101.4	80.1	177.7
February	121.7	161.4	122.0	378.3	103.7	73.4	188.9
March	141.2	222.0	144.6	320.9	104.2	109.1	206.8
April	117.8	165.4	118.0	297.3	106.5	71.3	183.9
May	125.0	171.7	144.9	330.5	106.5	67.0	187.6
June	132.9	241.6	103.8	334.8	119.6	107.5	194.6
July	109.3	161.0	84.5	333.8	120.2	68.4	186.8
August	114.5	172.4	118.6	299.1	114.3	67.5	170.3
September	118.9	186.4	89.9	302.8	117.4	101.4	194.4
October	124.7	189.4	127.8	377.1	107.6	79.5	198.7
November	120.5	203.3	80.4	371.0	113.4	88.1	218.6
Nov 08 / Nov 07	1.2%	19.1%	-29.2%	25.0%	11.7%	7.7%	21.6%

<sup>1</sup> All data for latest month are provisional

**Table 11 New Orders Indices for Selected Sectors - Seasonally adjusted<sup>1</sup>**

Base year 2000=100

Period	Industrial Sector and NACE Code						
	Total for Manufacturing industries	Publishing, printing and reproduction of recorded media	Basic chemicals	Pharmaceuticals, medicinal chemicals and botanical products	Other chemicals and chemical products 24 (other)	Office machinery and computers	Medical, precision and optical instruments, etc
	15-37	22	241	244		30	33
2007 January	129.8	180.0	139.2	283.5	98.2	94.6	216.6
February	128.1	227.7	118.0	263.8	102.5	93.8	187.2
March	125.6	193.8	122.5	256.6	105.8	95.9	187.6
April	125.9	183.3	116.8	234.2	108.8	101.8	175.2
May	119.8	192.8	96.9	263.9	104.4	95.3	181.0
June	120.6	194.0	99.4	301.3	101.8	94.0	186.4
July	122.1	194.1	104.2	255.7	105.4	90.6	180.7
August	124.1	202.0	107.3	372.0	119.0	95.5	181.2
September	121.3	206.0	85.4	237.8	111.0	95.7	193.7
October	124.9	180.6	124.2	298.0	113.7	89.7	177.4
November	117.7	180.4	103.8	284.7	111.2	89.9	176.6
December	121.6	203.9	106.9	279.8	108.9	87.3	171.8
2008 January	123.9	168.0	127.9	246.3	100.5	89.6	198.3
February	126.3	176.4	109.0	368.0	95.9	87.9	184.9
March	133.9	218.7	133.1	338.9	98.8	90.3	182.5
April	118.6	169.2	108.8	291.1	99.1	77.4	178.0
May	126.7	194.8	136.8	332.5	99.0	84.8	182.9
June	120.0	209.6	96.0	303.2	114.6	91.5	190.4
July	118.3	189.0	92.8	324.0	121.0	80.9	188.0
August	125.5	220.4	129.7	337.6	127.6	94.4	189.4
September	117.4	183.6	96.4	320.1	122.6	85.6	190.0
October	125.8	195.7	121.8	382.0	117.0	82.1	200.8
November	119.2	215.8	73.6	356.7	124.1	97.0	215.5
Nov 08 / Oct 08	-5.2%	10.3%	-39.6%	-6.6%	6.1%	18.2%	7.4%

<sup>1</sup> All data for latest month are provisional

# Background Notes

<b>Introduction</b>	<p>The monthly industrial production index monitors current trends in the volume of production of industrial local units with three or more persons engaged. The primary purpose of the index is to measure changes in value added at constant prices.</p> <p>The monthly index of turnover measures the change in the level of sales each month of industrial products, whether manufactured in the month in question or in previous periods (excluding non-industrial activity where practicable). The turnover indices outlined in this release are exclusive of VAT.</p> <p>The principal difference between the production and turnover indices is that the production index traces the quantitative volume of production (i.e. effect of price changes excluded) each month whether sold or not, whereas the turnover index reflects both the volume of sales and the price level. Starting with January 2004 updated industrial production and turnover indices are being published to base year 2000=100.</p> <p>The new orders indices measures trends in new orders accepted, including those received and filled during the last month. Orders are valued at the amounts invoiced or still to be invoiced (excluding VAT).</p> <p>The response rates for the provisional results are typically 45% in terms of the local units surveyed covering 80% of the value of production and 77% of the value of turnover. The corresponding figures for the final results are 56%, 91% and 89% respectively. These response rates are based on averages for a 12 month period. In September 2008 an additional question on response burden showed that respondents took an average of 17 minutes to complete the monthly inquiry form.</p>
<b>Sample covered</b>	<p>The monthly survey which provides data for calculating the indices covers the larger local units which between them account for the bulk of industrial output – in general those which in the base year 2000 had twenty or more persons engaged. For certain sectors the threshold of 20 persons engaged is lowered where this is considered necessary to ensure representativeness of the sample or where data for a sector would have to be kept confidential if the 20 persons engaged threshold were applied. The business activity classifications are based on the Statistical Classification of Economic Activities in the European Community (Nace Rev.1.1).</p>
<b>Methodology</b>	<p>Working day adjusted individual production, turnover and new orders sub-indices are compiled for each detailed NACE class. These sub-indices are combined to provide the indices for broader sectoral groupings, using as weights for a sector the gross value added at factor cost for production indices, and turnover in goods produced and industrial services provided to others for turnover and new orders indices, for all units in that sector covered in the 2000 Census of Industrial Production (CIP). Weights and base year are revised every five years.</p> <p>The production index is compiled by valuing quantitative commodity data at base year prices. The series has been compiled using updated prices from the Prodcom 2000 survey. In cases where reliable quantity data cannot be obtained current value data is converted to values at base year prices using suitable Wholesale Price Index (WPI) deflators.</p> <p>New orders indices have been produced from January 2004 onwards using reported monthly orders data. In the event of non-response, the reported turnover is used as an estimate for the calculation of new orders indices.</p>
<b>Seasonal Adjustment</b>	<p>The data is seasonally adjusted using an X-11 procedure. This procedure is an adaptation of the US Bureau of the Census X-11 Seasonal Adjustment Program. This seasonal adjustment process is carried out once a year using the latest (currently up to and including December 2007) monthly production patterns available. Each index is independently seasonally adjusted i.e. the adjusted indices of groupings of sectors are not systematically derivable as weighted averages of their component parts.</p>
<b>Retrospection</b>	<p>To enable comparisons to be made with earlier periods efforts have been made to re-cast indices calculated under the previous system (base year 1995=100) to take account of the changes between the old and new systems. Aggregate indices prior to 2001 have been re-scaled to take account of the base year 2000=100.</p>
<b>NACE classification</b>	<p>The descriptions of particular NACE Rev. 1.1 sectors are sometimes shown in abbreviated form in the release. Fuller descriptions are given in recent Census of Industrial Production publications. When making comparisons with data produced in previous monthly industrial production releases (classified by NACE 70) it should be noted that the content of NACE Rev. 1.1 sectors can be quite different from that of similarly-titled NACE 70 sectors. From October 2006 it is no longer possible to report indices for NACE 16 and NACE 15-16 due to confidentiality.</p>