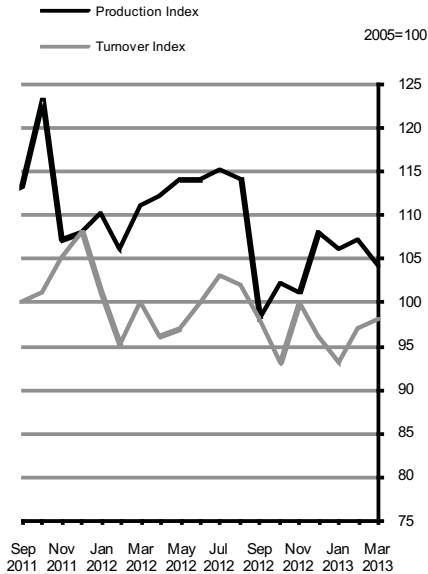




Manufacturing Industries
Seasonally adjusted



Industrial Production & Turnover
March 2013 (*Provisional*) and February 2013 (*Final*)

Manufacturing Industries (*Seasonally adjusted*)
(Base: year 2005=100)

	Production Index	Turnover Index
March 2012	111.4	99.6
February 2013	107.4	96.9
March 2013	104.5	97.6
Monthly % change	-2.7%	0.7%
Annual % change	-6.2%	-2.1%
Oct 2012 – Dec 2012	103.5	96.2
Jan 2013 – Mar 2013	106.1	95.7
% change	2.5%	-0.5%

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Industrial Production decreased 2.7% in March 2013

Production for Manufacturing Industries for March 2013 was 2.7% lower than in February 2013 (*see above and Table 1*). On an annual basis production for March 2013 decreased by 6.2% when compared with March 2012. The seasonally adjusted volume of industrial production for Manufacturing Industries for the quarter January 2013 to March 2013 was 2.5% higher than in the preceding quarter (*see above and table 4*).

The “Modern” Sector, comprising a number of high-technology and chemical sectors, showed a monthly decrease in production for March 2013 of 4.7%. There was a monthly decrease of 0.3 in the “Traditional” Sector (*see table 2*).

There was an increase of 0.7% in the seasonally adjusted industrial turnover index for Manufacturing Industries in March 2013 when compared with February 2013 (*see above and table 7*). On an annual basis turnover decreased by 2.1% when compared with March 2012.

For more information contact Stephanie Kelleher at 021 453 5123, Sean Hurley at 021 453 5242 or Alan Finlay at 021 453 5211.

Table 1 Volume Indices of Production¹

Base year 2005=100

Period	Manufacturing Industries NACE 10 - 33			Industries NACE 05 - 35		
	Seasonally adjusted					
	Index	% change on preceding period	Annual % change	Index	% change on preceding period	Annual % change
2009	101.7		-3.9	101.2		-4.3
2010	110.1		8.3	109.0		7.7
2011	110.6		0.4	109.0		0.0
2012	109.0		-1.5	107.2		-1.6
2011 Quarter 1	108.9		-0.4	107.4		-0.7
2	109.1	0.2	-0.4	107.3	-0.1	-1.1
3	112.0	2.6	1.0	110.6	3.1	0.8
4	112.4	0.4	1.2	110.7	0.1	0.5
2012 Quarter 1	109.1	-3.0	0.2	107.4	-3.0	0.0
2	113.3	3.8	3.8	111.0	3.4	3.5
3	109.4	-3.4	-2.3	107.6	-3.1	-2.7
4	103.5	-5.4	-8.0	102.2	-5.1	-7.7
2013 Quarter 1	106.1	2.5	-2.8	104.5	2.3	-2.7
2011 January	109.7	-1.8	1.9	108.3	-2.1	1.7
February	109.9	0.2	0.3	108.1	-0.2	-0.2
March	107.2	-2.4	-3.2	105.9	-2.1	-3.2
April	110.5	3.0	5.6	108.3	2.3	4.5
May	108.8	-1.5	-1.7	107.2	-1.0	-2.3
June	108.1	-0.7	-4.4	106.5	-0.6	-4.8
July	108.7	0.6	-7.8	107.6	1.0	-7.1
August	113.9	4.8	11.9	112.9	4.9	10.6
September	113.2	-0.6	0.5	111.2	-1.5	0.3
October	123.4	9.0	13.5	120.3	8.2	12.2
November	106.9	-13.4	-5.1	106.1	-11.8	-5.6
December	107.6	0.6	-3.7	106.2	0.1	-4.1
2012 January	109.8	2.0	0.1	108.1	1.8	-0.2
February	106.2	-3.3	-3.3	105.0	-2.9	-2.9
March	111.4	4.9	3.9	109.1	4.0	3.1
April	111.5	0.1	0.9	109.5	0.3	1.1
May	114.1	2.3	4.8	112.0	2.3	4.5
June	114.1	0.1	5.6	111.6	-0.3	4.8
July	114.8	0.6	5.7	112.1	0.5	4.2
August	114.4	-0.4	0.5	112.5	0.3	-0.3
September	97.9	-14.4	-13.5	97.3	-13.5	-12.5
October	101.6	3.8	-17.7	100.5	3.2	-16.5
November	101.3	-0.3	-5.2	100.8	0.3	-5.0
December	108.2	6.8	0.6	105.7	4.9	-0.4
2013 January	106.4	-1.6	-3.0	104.5	-1.1	-3.4
February	107.4	0.9	1.1	105.6	1.0	0.6
March	104.5	-2.7	-6.2	103.3	-2.2	-5.3

¹ All data for latest month are provisional

Table 2 Volume Indices of Production¹ for "Modern"² and "Traditional"² Sectors

Base year 2005=100

Period	"Modern" Sector			"Traditional" (All Other Sectors)		
	Seasonally adjusted					
	Index	% change on preceding period	Annual % change	Index	% change on preceding period	Annual % change
2009	112.7		2.6	86.2		-14.1
2010	124.7		10.7	88.3		2.5
2011	124.5		-0.2	88.6		0.3
2012	124.0		-0.4	85.1		-4.0
2011 Quarter 1	121.0		-2.5	89.2		3.1
2	122.6	1.3	-1.2	87.3	-2.1	-1.3
3	126.8	3.5	0.8	90.1	3.1	0.9
4	127.8	0.7	1.8	87.2	-3.1	-2.0
2012 Quarter 1	124.0	-3.0	2.4	84.5	-3.1	-5.2
2	131.6	6.1	7.4	85.3	1.0	-2.3
3	125.6	-4.5	-0.9	84.6	-0.9	-6.1
4	114.8	-8.6	-10.1	85.9	1.5	-1.6
2013 Quarter 1	117.9	2.7	-4.9	84.5	-1.6	0.0
2011 January	120.7	-4.6	0.6	90.4	2.3	5.0
February	122.4	1.4	-2.7	89.5	-1.1	3.5
March	120.0	-1.9	-5.1	87.7	-1.9	1.0
April	124.4	3.6	4.5	86.9	-0.9	0.3
May	119.6	-3.9	-4.3	92.1	5.9	3.3
June	123.8	3.6	-3.2	83.0	-9.9	-7.3
July	122.2	-1.4	-8.6	84.1	1.4	-4.4
August	128.6	5.3	10.1	97.9	16.4	9.9
September	129.5	0.7	2.4	87.9	-10.2	-3.1
October	143.9	11.1	20.4	88.3	0.4	-0.9
November	120.4	-16.3	-7.3	85.9	-2.6	-4.1
December	119.6	-0.7	-5.5	87.7	2.0	-0.8
2012 January	125.8	5.2	4.2	83.6	-4.6	-7.5
February	119.5	-5.0	-2.3	83.8	0.3	-6.3
March	126.6	5.9	5.5	86.0	2.6	-1.9
April	128.2	1.3	3.1	87.5	1.7	0.7
May	135.1	5.4	13.0	84.2	-3.7	-8.5
June	131.1	-3.0	5.9	84.4	0.2	1.7
July	130.9	-0.1	7.1	85.0	0.7	1.1
August	137.8	5.3	7.2	84.7	-0.4	-13.5
September	106.4	-22.8	-17.8	83.9	-0.9	-4.5
October	114.8	7.9	-20.2	83.3	-0.7	-5.6
November	110.9	-3.4	-7.9	88.2	5.8	2.6
December	119.2	7.5	-0.3	86.1	-2.4	-1.8
2013 January	118.7	-0.4	-5.6	84.1	-2.3	0.6
February	120.2	1.2	0.6	84.8	0.9	1.2
March	114.6	-4.7	-9.5	84.6	-0.3	-1.7

¹ All data for latest month are provisional² See Background notes for detailed breakdown

Table 3 Employment Information on the "Modern" Sector

Industrial Sector	NACE Rev. 2	Weighting base	Employment			
		Year 2005 Gross value added € Million	Quarterly totals			
			2011 Q4 ³ (⁰⁰⁰)	2012 Q1 ³ (⁰⁰⁰)	2012 Q2 ³ (⁰⁰⁰)	2012 Q3 ³ (⁰⁰⁰)
Modern Sector		17,492.2	67.1	63.5	63.9	63.2
Chemicals and chemical products; Basic pharmaceutical products & preparations; Reproduction of recorded media ¹ ; Medical and dental instruments and supplies ¹	20,21,1820 3250	13,139.8	43.3	43.8	44.2	43.1
Computers, electronic and optical products; Electrical equipment	26,27	4,352.2	23.8	19.7	19.7	20.1
All Other Sectors		13,301.9	135.0	129.3	126.6	126.9
Industries (B - E) NACE 5 - 35		30,794.1²	202.1	192.8	190.5	190.1

¹ Employment data estimated based on Nace 18 and 32 (Source: Earnings, Hours and Employment Costs Survey data, CSO).

² Gross Value Added is for Industries (B - D) NACE 5 - 35 (Source: Census of Industrial Production 2005, CSO).

³ Revised

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

Base year 2005=100

March 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	March 2013			Jan 2013 - Mar 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Food products and beverages	10-11	5,258.6	101.1	-0.3	3.4	100.6	-3.4	6.0
Food products	10	4,475.2	97.1	-0.6	3.4	97.2	-3.1	7.0
Meat and meat products	101	618.3	78.8	1.5	4.1	81.2	0.2	6.4
Dairy products	105	515.7	106.8	1.5	-8.4	104.3	-5.9	-5.4
Bakery and farinaceous products	107	234.9	83.3	-12.5	-9.7	91.0	-1.4	3.6
Grain mill and starch products; prepared animal feeds	106,109	192.7	111.3	0.2	18.8	111.0	2.3	20.0
Other foods	102-104,108	2,913.6	98.4	-1.1	4.6	98.7	-3.0	8.0
Beverages	11	783.4	122.7	0.1	4.1	120.5	-4.7	1.3
Textiles and wearing apparel	13-14	202.7	27.4	2.7	-6.4	26.5	0.0	-9.9
Textiles	13	98.3	35.7	7.5	-18.0	33.6	-7.7	-23.1
Wearing apparel	14	104.4	17.8	-14.8	5.5	19.1	11.7	17.2
Leather and related products	15	7.3	138.6	1.0	7.5	134.5	7.6	3.5
Wood and wood products, except furniture	16	350.3	42.1	-3.5	-2.0	44.1	9.4	3.3
Paper and paper products; printing and reproduction of recorded media	17-18	665.0	69.8	0.5	2.2	67.5	0.3	3.4
Paper and paper products	17	213.7	68.9	5.6	3.5	65.2	-2.7	1.4
Printing and reproduction of recorded media	18	451.3	70.6	-0.7	1.8	69.0	2.5	4.4

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

Base year 2005=100

March 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	March 2013			Jan 2013 - Mar 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	10,897.7	133.7	-6.5	-10.3	140.5	4.1	-4.0
Chemicals and chemical products	20	816.8	165.1	-13.5	8.9	172.8	18.0	17.5
Basic pharmaceutical products and preparations	21	10,080.9	131.7	-5.9	-11.4	138.4	3.7	-5.5
Rubber and plastic products	22	531.5	72.2	2.9	7.0	70.6	1.7	3.7
Other non-metallic mineral products	23	863.9	33.9	0.5	-1.2	33.3	1.5	-4.6
Basic metals and fabricated metal products	24-25	701.6	63.1	1.5	-5.5	62.2	3.0	-5.5
Basic metals	24	137.2	80.8	6.0	-0.7	77.4	-1.0	2.7
Fabricated metal products, except machinery and equipment	25	564.4	59.5	1.3	-7.2	58.7	3.9	-7.7
Computer, electronic, optical and electrical equipment	26-27	4,352.2	55.4	7.4	-7.7	51.2	-10.5	-12.0
Computer, electronic and optical products	26	4,017.5	55.5	7.1	-8.7	51.5	-12.4	-12.7
Electronic components and boards	261	2,003.8	50.0	16.3	-13.2	47.3	-17.5	-20.6
Computers and peripheral equipment	262	1,637.9	54.5	20.1	0.9	43.5	0.7	-5.0
Other electronic and optical products	263-268	375.8	127.9	-4.1	0.2	129.7	7.8	3.8
Electrical equipment	27	334.7	43.1	-1.1	-5.6	42.3	3.2	-6.0

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

Base year 2005=100

March 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	March 2013			Jan 2013 - Mar 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Machinery and equipment, not elsewhere classified	28	910.0	99.8	1.1	-20.1	98.0	-0.5	-8.9
Transport equipment	29-30	406.1	83.0	10.4	1.1	77.5	-3.7	-14.2
Tobacco; coke and refined petroleum products; furniture	12,19,31	402.6	56.9	8.5	-3.2	54.3	-3.9	-9.0
Other manufacturing	32	2,171.5	140.1	-3.4	-4.0	142.2	4.9	-1.5
Repair and installation of machinery and equipment	33	69.3	192.1	9.9	39.4	181.3	16.6	29.8
Electricity, gas, steam and air conditioning supply	35	2,379.1	98.9	2.1	5.2	96.0	-2.7	-3.9
Manufacturing industries	10-33	27,790.5	104.5	-2.7	-6.2	106.1	2.5	-2.7
Mining and quarrying	05-09	624.5	54.4	-17.8	-10.9	62.0	17.9	6.2
Transportable goods industries	05-33	28,415.0	103.4	-2.9	-6.3	105.2	2.6	-2.7
Industries	05-35	30,794.1	103.3	-2.2	-5.3	104.5	2.3	-2.7
<i>of which:</i> Energy producing industries		2,526.5	100.0	4.3	6.1	95.4	-1.9	-3.8
Capital goods		5,550.9	96.1	-1.7	-7.5	95.8	2.4	-3.6
Intermediate products		5,933.9	57.5	3.8	-2.2	56.2	-1.4	-5.2
Consumer goods		16,782.8	124.6	-3.3	-5.1	127.4	2.0	-1.3
<i>of which:</i> Durable consumer goods		515.0	76.1	0.8	1.2	76.6	1.5	-0.9
Non-durable consumer goods		16,267.8	126.1	-3.4	-5.2	129.0	2.1	-1.3

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

Base year 2005=100

February 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	February 2013			Dec 2012 - Feb 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Food products and beverages	10-11	5,258.6	101.4	1.9	6.2	104.1	4.0	8.4
Food products	10	4,475.2	97.7	0.8	6.4	100.3	3.8	8.5
Meat and meat products	101	618.3	77.6	-10.5	2.5	83.5	6.2	8.2
Dairy products	105	515.7	105.2	3.9	-4.4	102.2	-11.6	-2.7
Bakery and farinaceous products	107	234.9	95.2	1.1	14.5	94.7	0.2	9.0
Grain mill and starch products; prepared animal feeds	106,109	192.7	111.0	0.4	16.8	111.0	4.3	20.7
Other foods	102-104,108	2,913.6	99.4	1.2	7.2	102.6	6.4	9.0
Beverages	11	783.4	122.6	5.2	5.5	126.9	7.0	7.8
Textiles and wearing apparel	13-14	202.7	26.7	5.5	-8.9	26.4	0.0	-16.7
Textiles	13	98.3	33.2	3.2	-23.4	34.1	-4.5	-28.8
Wearing apparel	14	104.4	20.9	12.0	29.5	19.0	8.6	18.0
Leather and related products	15	7.3	137.3	6.9	18.9	133.1	7.8	-0.1
Wood and wood products, except furniture	16	350.3	43.7	-5.4	4.1	43.8	9.5	5.8
Paper and paper products; printing and reproduction of recorded media	17-18	665.0	69.5	9.3	11.0	67.1	1.2	2.0
Paper and paper products	17	213.7	65.3	5.9	8.5	63.4	-6.5	-1.7
Printing and reproduction of recorded media	18	451.3	71.1	8.4	12.3	68.8	4.7	3.6

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

Base year 2005=100

February 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Gross value added EUR million	February 2013			Dec 2012 - Feb 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	10,897.7	143.0	-1.0	2.1	143.7	15.1	0.8
Chemicals and chemical products	20	816.8	190.9	16.9	34.5	166.3	10.8	16.7
Basic pharmaceutical products and preparations	21	10,080.9	139.9	-2.3	-0.2	141.8	15.7	-0.8
Rubber and plastic products	22	531.5	70.1	0.9	2.7	69.3	-1.7	0.6
Other non-metallic mineral products	23	863.9	33.8	4.1	-0.7	33.4	2.5	-5.1
Basic metals and fabricated metal products	24-25	701.6	62.2	1.3	-2.2	61.3	-0.8	-8.4
Basic metals	24	137.2	76.2	1.1	12.9	77.1	-3.7	2.5
Fabricated metal products, except machinery and equipment	25	564.4	58.8	1.6	-5.9	57.7	0.0	-11.4
Computer, electronic, optical and electrical equipment	26-27	4,352.2	51.5	9.2	-11.0	53.6	-7.3	-5.8
Computer, electronic and optical products	26	4,017.5	51.8	9.2	-11.6	54.2	-9.4	-6.1
Electronic components and boards	261	2,003.8	43.0	-11.8	-29.2	49.2	-18.7	-18.7
Computers and peripheral equipment	262	1,637.9	45.4	43.4	14.5	43.0	6.7	4.4
Other electronic and optical products	263-268	375.8	133.3	4.2	8.0	127.1	-0.6	5.9
Electrical equipment	27	334.7	43.5	7.5	-3.0	41.7	1.2	-1.2

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

Base year 2005=100

February 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	February 2013			Dec 2012 - Feb 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Machinery and equipment, not elsewhere classified	28	910.0	98.6	2.9	-4.1	97.4	-4.2	-7.3
Transport equipment	29-30	406.1	75.2	0.6	-26.9	80.7	8.2	-10.4
Tobacco; coke and refined petroleum products; furniture	12,19,31	402.6	52.4	-2.1	-7.8	53.3	-7.8	-12.0
Other manufacturing	32	2,171.5	145.0	2.4	1.5	138.6	-2.2	-9.3
Repair and installation of machinery and equipment	33	69.3	174.7	-1.6	23.0	179.7	18.4	25.2
Electricity, gas, steam and air conditioning supply	35	2,379.1	96.8	4.8	-6.3	94.0	-6.6	-8.7
Manufacturing industries	10-33	27,790.5	107.4	0.9	1.1	107.3	6.9	-0.6
Mining and quarrying	05-09	624.5	66.2	1.5	13.2	62.9	16.5	7.3
Transportable goods industries	05-33	28,415.0	106.5	0.8	1.2	106.4	6.9	-0.5
Industries	05-35	30,794.1	105.6	1.0	0.6	105.3	5.7	-1.0
<i>of which:</i> Energy producing industries		2,526.5	95.8	5.5	-6.3	92.8	-6.5	-8.8
Capital goods		5,550.9	97.7	4.0	0.4	95.5	-1.4	-3.6
Intermediate products		5,933.9	55.4	-0.4	-6.8	56.3	-3.6	-5.5
Consumer goods		16,782.8	128.9	0.3	3.2	129.5	10.6	1.8
<i>of which:</i> Durable consumer goods		515.0	75.5	-3.3	0.7	76.3	1.7	-0.7
Non-durable consumer goods		16,267.8	130.5	0.3	3.2	131.2	10.9	1.9

Table 5 Volume Indices of Production for Selected Sectors - Seasonally Adjusted¹

Base year 2005=100

Period	Industrial Sector and NACE Code						
	Total for Manufacturing Industries	Food products	Beverages	Chemicals and chemical products	Basic pharmaceutical products and preparations	Computer, electronic and optical products	Other manufacturing
	10-33	10	11	20	21	26	32
2011 January	109.7	98.2	145.9	132.8	142.3	61.5	135.0
February	109.9	97.5	120.9	135.2	145.6	58.3	131.2
March	107.2	99.7	110.6	136.7	145.8	57.1	133.1
April	110.5	98.8	118.1	146.1	149.5	54.5	136.1
May	108.8	106.9	128.6	149.6	142.5	53.8	131.5
June	108.1	80.9	125.7	139.3	154.6	55.6	126.5
July	108.7	84.0	129.9	157.2	148.3	54.1	131.9
August	113.9	122.4	130.1	157.1	157.9	53.5	138.5
September	113.2	96.8	128.8	145.8	157.0	57.5	135.1
October	123.4	100.7	117.4	164.7	182.7	54.8	148.5
November	106.9	95.6	114.1	146.4	140.9	57.2	157.1
December	107.6	99.1	114.1	137.6	137.9	57.0	172.7
2012 January	109.8	86.8	122.7	147.8	150.3	57.5	143.9
February	106.2	91.8	116.3	142.0	140.2	58.7	143.0
March	111.4	93.9	117.8	151.6	148.6	60.8	146.0
April	111.5	95.9	123.0	155.7	154.3	54.5	139.3
May	114.1	91.6	98.0	158.7	161.3	61.0	151.1
June	114.1	95.8	117.3	148.9	155.4	62.1	159.6
July	114.8	95.6	109.8	178.7	155.2	59.3	163.0
August	114.4	94.2	117.1	126.8	171.0	63.8	145.2
September	97.9	95.0	117.5	155.8	106.8	67.6	148.4
October	101.6	94.4	115.1	139.7	133.0	56.3	140.5
November	101.3	100.3	123.1	155.2	126.4	56.3	136.9
December	108.2	107.1	143.3	143.9	142.0	64.5	128.3
2013 January	106.4	96.9	116.5	163.3	143.2	47.5	141.7
February	107.4	97.7	122.6	190.9	139.9	51.8	145.0
March	104.5	97.1	122.7	165.1	131.7	55.5	140.1
Mar 13 / Mar 12	-6.2%	3.4%	4.1%	8.9%	-11.4%	-8.7%	-4.0%
Mar 13 / Feb 13	-2.7%	-0.6%	0.1%	-13.5%	-5.9%	7.1%	-3.4%

¹ All data for latest month are provisional

Table 6 Industrial Turnover Indices¹

Base year 2005=100

Period	Manufacturing Industries NACE 10 - 33			Transportable Goods Industries ² NACE 05 - 33		
	Seasonally adjusted					
	Index	% change on preceding period	Annual % change	Index	% change on preceding period	Annual % change
2009	93.0		-12.2	92.8		-12.3
2010	97.5		4.8	97.2		4.8
2011	100.3		2.9	99.9		2.8
2012	98.3		-2.0	97.9		-2.0
2011 Quarter 1	98.5		4.2	98.2		4.2
2	98.4	-0.1	0.8	98.1	-0.1	0.7
3	100.0	1.6	0.3	99.6	1.5	0.2
4	104.4	4.5	6.5	103.9	4.3	6.3
2012 Quarter 1	98.5	-5.7	0.0	98.2	-5.5	0.0
2	97.4	-1.1	-1.0	97.1	-1.1	-1.0
3	101.0	3.7	1.0	100.6	3.6	1.0
4	96.2	-4.7	-7.9	95.8	-4.8	-7.8
2013 Quarter 1	95.7	-0.5	-2.8	95.4	-0.4	-2.9
2011 January	101.7	4.0	6.6	101.3	3.9	6.7
February	100.4	-1.3	6.9	99.9	-1.4	6.6
March	93.8	-6.6	-0.5	93.8	-6.1	-0.4
April	99.3	5.8	5.8	98.8	5.4	5.5
May	100.2	1.0	0.2	99.8	1.0	0.1
June	95.8	-4.4	-3.2	95.5	-4.3	-3.2
July	97.4	1.6	-3.6	97.2	1.7	-3.5
August	102.0	4.7	4.8	101.5	4.5	4.7
September	100.4	-1.5	-0.2	99.9	-1.6	-0.4
October	100.6	0.2	0.9	100.1	0.2	0.7
November	104.5	3.9	8.0	104.0	3.9	7.8
December	108.1	3.5	10.5	107.5	3.4	10.2
2012 January	100.9	-6.7	-0.8	100.5	-6.6	-0.9
February	95.0	-5.8	-5.4	94.7	-5.7	-5.2
March	99.6	4.9	6.2	99.4	4.9	6.0
April	95.6	-4.1	-3.7	95.3	-4.1	-3.6
May	96.7	1.2	-3.5	96.4	1.2	-3.4
June	100.0	3.3	4.3	99.6	3.3	4.3
July	102.6	2.7	5.3	102.2	2.6	5.1
August	102.3	-0.3	0.3	101.8	-0.4	0.2
September	97.7	-4.5	-2.7	97.6	-4.1	-2.3
October	93.0	-4.8	-7.5	92.4	-5.3	-7.7
November	99.8	7.3	-4.5	99.4	7.6	-4.4
December	95.7	-4.1	-11.5	95.4	-4.0	-11.2
2013 January	93.0	-2.8	-7.8	92.6	-3.0	-7.8
February	96.9	4.2	2.0	96.5	4.2	1.9
March	97.6	0.7	-2.1	97.2	0.7	-2.2

¹ All data for latest month are provisional

² See Background notes for detailed breakdown

Table 7 Turnover Indices for Industrial Sectors - Provisional Results

Base year 2005=100

March 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Turnover EUR million	March 2013			Jan 2013 - Mar 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Food products and beverages	10-11	18,507.1	118.8	-2.3	4.8	121.6	-0.9	8.3
Food products	10	16,057.4	121.6	-0.6	4.8	122.7	2.0	8.8
Meat and meat products	101	3,581.3	117.6	0.9	11.2	123.0	7.1	12.0
Dairy products	105	2,663.0	109.9	4.0	-2.5	106.3	-2.4	-3.5
Bakery and farinaceous products	107	600.8	122.2	6.6	11.1	116.0	-2.5	8.6
Grain mill and starch products; prepared animal feeds	106,109	902.7	185.6	3.7	43.5	180.4	9.5	43.4
Other foods	102-104,108	8,309.4	119.3	-2.5	2.0	122.1	-2.8	7.4
Beverages	11	2,449.7	118.4	-6.3	4.3	119.4	-2.6	2.5
Textiles and wearing apparel	13-14	483.2	33.8	1.7	17.6	32.5	2.2	5.2
Textiles	13	244.4	45.8	9.0	13.0	41.1	-2.6	-7.4
Wearing apparel	14	238.9	21.5	-11.0	29.2	23.2	8.4	38.9
Leather and related products	15	27.2	128.4	4.6	10.1	122.8	6.0	6.2
Wood and wood products, except furniture	16	1,073.6	50.6	-2.2	-4.7	51.2	3.2	-3.8
Paper and paper products; printing and reproduction of recorded media	17-18	1,968.5	70.2	2.8	-2.3	67.4	-0.7	-2.0
Paper and paper products	17	558.1	64.3	0.7	-6.9	63.0	0.3	-7.2
Printing and reproduction of recorded media	18	1,410.4	73.6	5.6	0.0	69.2	-1.0	0.1

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

Base year 2005=100

March 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	March 2013			Jan 2013 - Mar 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	28,397.2	129.3	5.0	6.0	122.2	5.0	-4.0
Chemicals and chemical products	20	2,139.4	165.6	-0.8	-0.7	164.1	-1.7	5.7
Basic pharmaceutical products and preparations	21	26,257.8	126.0	5.8	6.8	118.6	5.5	-5.0
Rubber and plastic products	22	1,485.6	75.9	2.6	6.7	74.7	-0.7	7.6
Other non-metallic mineral products	23	2,173.4	37.2	-1.4	-12.5	35.3	-9.9	-16.7
Basic metals and fabricated metal products	24-25	2,029.8	76.5	5.4	3.4	73.8	1.0	2.9
Basic metals	24	491.1	132.6	9.1	8.2	122.7	-1.7	6.4
Fabricated metal products, except machinery and equipment	25	1,538.7	58.9	-0.4	-0.4	58.7	4.3	1.0
Computer, electronic, optical and electrical equipment	26-27	23,574.0	45.3	9.0	0.6	42.7	-5.3	-5.5
Computer, electronic and optical products	26	22,576.3	48.7	17.9	3.0	43.0	-2.7	-4.7
Electronic components and boards	261	4,312.1	59.1	12.8	-8.3	55.5	-16.4	-16.0
Computers and peripheral equipment	262	17,068.1	37.3	4.4	0.9	32.6	-9.2	-3.6
Other electronic and optical products	263-268	1,196.0	97.3	-6.7	0.5	101.2	-3.1	7.0
Electrical equipment	27	997.7	56.3	-2.6	-11.3	55.3	-5.5	-11.4

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

Base year 2005=100

March 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	March 2013			Jan 2013 - Mar 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Machinery and equipment, not elsewhere classified	28	2,296.9	94.8	-1.5	-22.1	97.1	-5.6	-8.8
Transport equipment	29-30	1,088.3	74.1	7.6	-2.5	71.0	-3.9	-12.2
Tobacco; coke and refined petroleum products; furniture	12,19,31	2,547.3	135.4	1.3	0.9	130.7	-1.9	-1.4
Other manufacturing	32	4,845.5	167.8	-1.3	-1.3	168.1	-0.2	-1.1
Repair and installation of machinery and equipment	33	129.7	162.0	7.7	26.9	155.4	8.4	19.7
Manufacturing industries	10-33	90,627.4	97.6	0.7	-2.1	95.7	-0.5	-2.8
Mining and quarrying	05-09	1,513.7	71.1	0.2	-6.6	71.2	-2.3	-7.4
Transportable goods industries	05-33	92,141.1	97.2	0.7	-2.2	95.4	-0.4	-2.9
<i>of which: Industries mainly or wholly producing¹</i>								
Capital goods		26,478.0	71.8	5.2	0.3	66.9	-1.9	-1.5
Intermediate products		15,554.9	71.8	0.8	-2.3	71.1	-3.5	-2.6
Consumer goods		48,377.9	123.4	4.3	5.3	118.2	2.2	-0.8
<i>of which: Durable consumer goods</i>		1,494.5	75.8	1.6	-3.1	75.3	-3.5	-4.4
Non-durable consumer goods		46,883.4	124.8	4.3	5.5	119.5	2.3	-0.7

¹ Excludes Energy producing industries

Table 7a Turnover Indices for Industrial Sectors - Final Results

Base year 2005=100

February 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Turnover EUR million	February 2013			Dec 2012 - Feb 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Food products and beverages	10-11	18,507.1	121.6	-2.1	7.6	123.6	1.2	9.8
Food products	10	16,057.4	122.4	-1.2	6.9	123.7	5.5	10.8
Meat and meat products	101	3,581.3	116.5	-12.8	2.8	123.6	9.7	10.5
Dairy products	105	2,663.0	105.6	1.9	-4.4	105.2	-4.6	-1.7
Bakery and farinaceous products	107	600.8	114.6	2.6	14.6	118.0	1.5	11.3
Grain mill and starch products; prepared animal feeds	106,109	902.7	179.0	1.1	41.5	175.3	8.7	41.0
Other foods	102-104,108	8,309.4	122.3	-1.8	6.1	125.4	3.5	10.5
Beverages	11	2,449.7	126.4	10.8	12.8	121.3	-5.0	2.4
Textiles and wearing apparel	13-14	483.2	33.3	8.1	11.9	31.8	-5.4	-11.2
Textiles	13	244.4	42.0	15.9	-1.0	39.6	-12.6	-25.1
Wearing apparel	14	238.9	24.1	0.9	43.3	23.3	4.0	31.6
Leather and related products	15	27.2	122.8	4.4	22.7	120.3	4.9	2.6
Wood and wood products, except furniture	16	1,073.6	51.7	0.8	-1.0	50.6	1.4	-3.8
Paper and paper products; printing and reproduction of recorded media	17-18	1,968.5	68.3	6.8	3.7	66.8	-1.0	-1.9
Paper and paper products	17	558.1	63.8	4.5	-2.8	61.8	-2.8	-9.4
Printing and reproduction of recorded media	18	1,410.4	69.7	7.6	6.2	68.6	-0.6	0.7

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

Base year 2005=100

February 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	February 2013			Dec 2012 - Feb 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	28,397.2	123.1	7.1	-1.3	115.5	-1.6	-20.9
Chemicals and chemical products	20	2,139.4	166.9	4.2	18.0	154.4	-14.2	1.7
Basic pharmaceutical products and preparations	21	26,257.8	119.0	6.8	-3.2	112.3	-0.2	-22.8
Rubber and plastic products	22	1,485.6	74.0	-0.3	7.1	74.3	-2.4	4.5
Other non-metallic mineral products	23	2,173.4	37.7	19.9	-10.2	35.9	-9.6	-16.9
Basic metals and fabricated metal products	24-25	2,029.8	72.6	0.3	8.6	72.5	-3.1	1.3
Basic metals	24	491.1	121.6	6.1	16.3	120.6	-4.1	4.1
Fabricated metal products, except machinery and equipment	25	1,538.7	59.1	1.8	4.5	57.9	0.9	-0.9
Computer, electronic, optical and electrical equipment	26-27	23,574.0	41.6	0.7	2.2	44.7	2.8	3.2
Computer, electronic and optical products	26	22,576.3	41.3	4.7	3.3	42.9	-2.1	2.9
Electronic components and boards	261	4,312.1	52.4	-5.1	-20.9	58.9	-11.7	-12.0
Computers and peripheral equipment	262	17,068.1	35.7	39.9	18.5	34.2	0.6	8.6
Other electronic and optical products	263-268	1,196.0	104.3	2.2	11.3	104.9	-0.8	9.7
Electrical equipment	27	997.7	57.8	11.4	-4.6	55.9	-7.0	-1.1

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

Base year 2005=100

February 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	February 2013			Dec 2012 - Feb 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Machinery and equipment, not elsewhere classified	28	2,296.9	96.2	-3.8	-5.4	98.0	-8.4	-4.3
Transport equipment	29-30	1,088.3	68.9	-1.7	-22.3	72.3	1.7	-10.0
Tobacco; coke and refined petroleum products; furniture	12,19,31	2,547.3	133.7	8.1	8.6	127.9	-6.4	-2.6
Other manufacturing	32	4,845.5	170.0	2.0	1.7	167.3	-3.6	-7.0
Repair and installation of machinery and equipment	33	129.7	150.4	-2.2	19.2	156.3	11.2	15.8
Manufacturing industries	10-33	90,627.4	96.9	4.2	2.0	95.1	-1.8	-6.0
Mining and quarrying	05-09	1,513.7	71.0	-0.8	-5.4	74.7	-2.4	-2.6
Transportable goods industries	05-33	92,141.1	96.5	4.2	1.9	94.8	-1.7	-6.0
<i>of which: Industries mainly or wholly producing¹</i>								
Capital goods		26,478.0	68.2	11.3	4.4	67.0	-2.3	2.0
Intermediate products		15,554.9	71.2	1.1	-0.6	72.8	-1.2	0.1
Consumer goods		48,377.9	118.3	4.2	1.1	115.1	-0.2	-10.8
<i>of which: Durable consumer goods</i>		1,494.5	74.6	-1.2	-6.1	76.4	-0.8	-4.4
Non-durable consumer goods		46,883.4	119.6	4.3	1.3	116.3	-0.2	-10.9

¹ Excludes Energy producing industries

Table 8 Turnover Indices for Selected Sectors - Seasonally Adjusted¹

Base year 2005=100

Period	Industrial Sector and NACE Code						
	Total for Manufacturing Industries	Food products	Beverages	Chemicals and chemical products	Basic pharmaceutical products and preparations	Computer, electronic and optical products	Other manufacturing
	10-33	10	11	20	21	26	32
2011 January	101.7	110.5	113.3	146.0	139.0	47.7	142.0
February	100.4	110.9	116.3	146.7	141.8	40.8	142.0
March	93.8	113.2	116.0	144.0	120.7	38.7	143.5
April	99.3	116.1	126.0	149.4	139.7	39.9	141.7
May	100.2	123.9	121.7	147.9	140.5	38.0	151.2
June	95.8	99.5	120.1	150.2	139.7	39.1	144.1
July	97.4	103.1	123.7	164.3	135.8	39.4	147.6
August	102.0	136.2	125.4	172.9	142.0	36.8	145.9
September	100.4	111.5	124.1	153.1	144.0	40.1	148.6
October	100.6	115.4	123.7	167.4	137.3	38.5	158.5
November	104.5	112.2	126.4	157.5	147.4	38.5	177.8
December	108.1	112.7	119.7	156.7	181.6	37.1	200.6
2012 January	100.9	107.7	123.9	157.6	133.6	47.9	172.7
February	95.0	114.5	112.1	141.4	123.0	40.0	167.1
March	99.6	116.1	113.6	166.7	118.0	47.3	169.9
April	95.6	117.0	110.0	170.4	121.9	40.0	163.1
May	96.7	113.0	109.4	170.2	128.4	42.4	177.3
June	100.0	115.3	110.3	162.2	127.3	47.2	180.3
July	102.6	115.6	101.0	177.1	143.4	39.1	180.6
August	102.3	117.8	128.4	160.8	138.5	48.7	196.5
September	97.7	114.7	140.5	177.9	106.9	47.0	181.8
October	93.0	113.7	121.4	159.2	107.7	41.6	172.6
November	99.8	123.1	122.4	202.6	122.5	43.0	167.2
December	95.7	124.9	124.3	134.5	106.0	48.6	165.2
2013 January	93.0	123.9	114.1	160.2	111.5	39.4	166.6
February	96.9	122.4	126.4	166.9	119.0	41.3	170.0
March	97.6	121.6	118.4	165.6	126.0	48.7	167.8
Mar 13 / Mar 12	-2.1%	4.8%	4.3%	-0.7%	6.8%	3.0%	-1.3%
Mar 13 / Feb 13	0.7%	-0.6%	-6.3%	-0.8%	5.8%	17.9%	-1.3%

¹ All data for latest month are provisional

Table 9 Production and Turnover Indices by Main Industrial Groupings - Seasonally Adjusted¹

Base year 2005=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
2011 January	97.1	66.9	128.0	65.7	130.0	61.5	81.0	126.2	74.7	127.7
February	96.0	63.2	129.6	67.7	131.6	62.4	74.5	126.8	74.8	128.4
March	92.1	60.7	125.4	69.7	127.1	56.2	76.9	117.1	76.7	118.3
April	91.0	65.3	133.7	72.7	135.7	58.6	73.1	127.5	82.4	128.9
May	93.1	57.5	128.4	68.0	130.3	61.2	70.6	127.2	72.4	128.9
June	94.1	58.3	127.3	73.0	129.1	59.7	71.3	121.2	76.1	122.6
July	93.6	60.6	125.7	73.9	127.4	59.6	73.5	121.5	79.6	123.1
August	96.6	57.4	135.8	73.6	137.4	59.3	70.4	130.2	76.1	131.8
September	93.6	57.5	137.3	73.5	139.3	60.2	69.7	130.2	78.5	131.8
October	98.1	59.3	156.8	75.0	159.4	60.6	71.6	129.2	79.9	130.7
November	102.0	61.1	127.4	72.8	129.3	65.9	72.5	131.9	80.7	133.7
December	103.1	59.8	125.7	73.6	127.4	64.7	72.6	147.7	81.7	149.8
2012 January	97.1	59.6	130.9	81.6	132.5	66.8	73.9	123.2	78.7	124.5
February	97.3	59.5	124.9	75.0	126.5	65.3	71.6	117.0	79.5	118.1
March	103.8	58.8	131.4	75.2	133.1	71.6	73.5	117.1	78.3	118.3
April	97.0	58.8	132.4	77.3	134.2	65.6	73.5	117.1	77.5	118.3
May	100.8	59.9	133.9	79.9	135.7	69.0	73.9	116.7	79.1	117.9
June	107.7	57.3	132.3	75.1	134.2	72.5	73.2	119.9	77.4	121.2
July	101.6	60.0	131.8	69.7	133.8	63.4	75.5	128.2	74.5	130.2
August	99.9	60.1	132.9	68.1	134.9	77.4	74.5	121.7	75.9	123.1
September	105.4	62.3	105.9	73.4	106.8	73.5	76.9	112.8	75.9	113.9
October	90.6	57.1	122.9	72.7	124.5	64.0	72.4	111.1	75.2	112.2
November	95.5	56.2	121.3	78.7	122.6	68.8	71.9	121.8	79.9	123.2
December	94.9	58.0	131.2	75.0	132.9	72.2	77.1	113.8	79.2	114.8
2013 January	94.0	55.7	128.5	78.1	130.2	61.3	70.4	113.5	75.5	114.7
February	97.7	55.4	128.9	75.5	130.5	68.2	71.2	118.3	74.6	119.6
March	96.1	57.5	124.6	76.1	126.1	71.8	71.8	123.4	75.8	124.8
Mar 13 / Mar 12	-7.5%	-2.2%	-5.1%	1.2%	-5.2%	0.3%	-2.3%	5.3%	-3.1%	5.5%
Mar 13 / Feb 13	-1.7%	3.8%	-3.3%	0.8%	-3.4%	5.2%	0.8%	4.3%	1.6%	4.3%

¹ All data for latest month are provisional

Table 10 New Orders Indices for Selected Sectors¹

Base year 2005=100

New Orders Indices - Seasonally adjusted								
Period	Industrial sector and NACE code							
	Total for Manufacturing Industries 10-33	Food products 10	Beverages 11	Chemicals and chemical products 20	Basic pharmaceutical products and preparations 21	Computer, electronic and optical products 26	Other manufacturing 32	
2011 January	101.9	109.7	114.6	145.3	138.7	47.7	145.4	
February	100.7	109.4	116.1	153.3	144.9	40.7	141.5	
March	90.9	111.8	115.6	144.8	114.7	38.6	139.0	
April	99.5	115.9	126.1	153.2	138.5	39.6	140.3	
May	100.0	123.5	122.3	149.3	138.1	37.8	151.4	
June	96.6	98.7	120.3	149.4	139.6	39.0	145.5	
July	97.7	102.5	124.2	166.1	134.7	39.3	144.7	
August	99.6	136.4	126.6	167.0	134.8	36.9	144.9	
September	99.9	110.6	124.0	153.3	145.7	40.1	147.9	
October	99.9	114.1	123.5	168.0	139.9	38.5	159.8	
November	103.9	111.4	126.1	157.6	146.5	38.8	178.8	
December	108.1	112.0	119.6	149.9	185.1	37.4	197.2	
2012 January	101.0	106.4	120.7	162.3	135.6	48.0	167.4	
February	94.0	114.3	112.0	154.0	122.6	40.1	161.4	
March	98.8	115.9	113.5	174.0	117.4	47.3	171.5	
April	95.6	115.7	110.7	171.5	119.5	40.1	166.2	
May	97.5	112.7	109.9	174.0	128.7	42.6	177.5	
June	100.1	114.5	110.9	162.6	124.9	47.3	177.8	
July	102.1	115.1	101.6	177.4	138.3	39.2	182.1	
August	103.2	116.9	129.7	156.9	142.8	48.4	197.9	
September	97.4	114.2	139.8	181.0	109.0	47.1	177.9	
October	91.2	113.6	120.6	163.2	106.1	41.4	174.0	
November	99.9	122.7	122.0	205.4	124.0	42.7	165.0	
December	95.7	124.6	123.6	123.9	108.2	48.3	168.0	
2013 January	92.5	123.5	111.5	159.4	111.4	39.4	166.3	
February	95.9	122.1	126.6	174.2	118.9	41.2	170.9	
March	96.3	121.3	118.9	167.3	123.9	48.9	168.9	
Mar 13 / Mar 12	-2.5%	4.7%	4.7%	-3.8%	5.5%	3.4%	-1.5%	
Mar 13 / Feb 13	0.4%	-0.6%	-6.1%	-4.0%	4.2%	18.7%	-1.2%	

¹ All data for latest month are provisional

Background Notes

Introduction 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.

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.

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 2009 updated industrial production and turnover indices are being published to base year 2005=100.

The new orders indices measure 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).

The response rates for the provisional results are typically 46% in terms of the local units surveyed covering 84% of the value of production and 82% of the value of turnover. The corresponding figures for the final results are 58%, 91% and 90% respectively. These response rates are based on averages for a 12 month period ending September 2009. In September 2009 an additional question on response burden showed that respondents took an average of 19 minutes to complete the monthly inquiry form.

Sample covered 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 2005 had twenty or more persons engaged in NACE 5 to 35. 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. 2).

Methodology 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 2005 Census of Industrial Production (CIP). Weights and base year are revised every five years.

The production index is compiled using two methods. One method is based on the valuation of quantity data at base year prices. The series has been compiled using updated prices from the Prodcom 2005 survey. Alternatively, 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.

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.

Seasonal Adjustment Seasonal adjustment is conducted using the direct seasonal adjustment approach. Under this approach each individual series is independently adjusted, e.g. aggregate series are adjusted without reference to the component series. Seasonal adjustment models are developed for each series based on unadjusted data spanning from January 1998 to the current period. These models are then applied to the entire series. Seasonal factors are updated each month.

The adjustments are completed by applying the X-12-ARIMA model, developed by the U.S. Census Bureau to the unadjusted data. This methodology estimates seasonal factors while also taking into consideration factors that impact on the quality of the seasonal adjustment such as:

- Calendar effects, e.g. the timing of Easter
- Outliers, temporary changes and level shifts in the series

For additional information on the use of X-12-ARIMA see (Findley, D.F., B.C. Monsell, W.R. Bell, M.C. Otto, and B. Chen (1998), "New Capabilities and Methods of the X-12-Arima Seasonal Adjustment Program", *Journal of Business & Economic Statistics*, 16, pp. 127-177.)

NACE classification

The business activity classifications used in this Statistical release are based on the Statistical Classification of Economic Activities in the European Community i.e. NACE Rev. 2. The main change for the Industrial Production and Turnover release is the reclassification of local units in the Publishing sector (NACE Rev 1.1 22) to the Services sector (i.e. outside the scope of this release).

Other changes mean that there are separate NACE groups for Food products (NACE 10), Beverages (NACE 11), Chemical and chemical products (NACE 20) and Basic pharmaceutical products and preparations (NACE 21).

The descriptions of particular NACE Rev. 2 sectors are sometimes shown in abbreviated form in the release. For further information on the NACE Rev. 2 classification of industrial activity, visit the CSO website:

<http://www.cso.ie/en/surveysandmethodology/classifications/classificationofindustrialactivity/>

Definitions

All Industries

All industries is comprised of all sectors classified NACE 05 to 35 inclusive. This includes Mining and quarrying NACE 05 to 09, Manufacturing Industries NACE 10 to 33, and Electricity, gas, steam and air conditioning supply NACE 35.

Manufacturing Industries

Manufacturing Industries is comprised of all sectors classified NACE 10 to 33 inclusive.

Transportable Goods Industries

Transportable Goods Industries is comprised of all sectors classified NACE 05 to 33 inclusive. This includes Mining and quarrying NACE 05 to 09 and Manufacturing Industries NACE 10 to 33.

"Modern" Sector

Modern sector includes the following industrial sectors

NACE 20.00 - 21.20	Chemicals and pharmaceuticals
NACE 26.00 - 27.90	Computer, electronic, optical and electrical equipment
NACE 18.20	Reproduction of recorded media
NACE 32.50	Medical and dental instruments and supplies

"Traditional" Sector

Traditional Sector includes All Industries (NACE 05 to 35) excluding "Modern" sector as detailed above.

Retrospection

Indices calculated under the previous system (NACE Rev1.1 and base year 2000) have been re-cast in order to make comparisons with earlier periods. When making comparisons with data produced in previous monthly industrial production and turnover releases (classified by NACE Rev. 1.1 and NACE Rev. 70) it should be noted that the content of NACE Rev.2 sectors can be quite different from that of similarly-titled NACE Rev. 1.1 and NACE Rev. 70 sectors.

Updated Wholesale Price Index (Base Year = 2005)

The wholesale price indices were revised in June 2010 to include updated weights (base year = 2005) and to allow for the NACE Rev. 2 reclassification of the indices. New base year weights were compiled for the Wholesale Price Index using the results of the 2005 Census of Industrial Production (CIP) and the Prodcum Inquiry surveys. New baseweights were applied to each three digit NACE group on the basis of the Census of Industrial Production and the commodity groups weights were assigned on the basis of the Prodcum Inquiry. The business activity classifications used in the updated WPI series are based on the Statistical Classification of Economic Activities in the European Community i.e. NACE Rev. 2. The main change arising from the adoption of NACE Rev. 2 is the reclassification of local units in the Publishing sector (NACE Rev 1.1 22) to the Services sector. Other significant changes include separate NACE divisions for Food products (NACE 10), Beverages (NACE 11), Chemicals and chemical products (NACE 20) and Basic pharmaceutical products and preparations (NACE 21).

For further information on the updated WPI indices see the CSO publication *Wholesale Price Index, Introduction of Updated Series Base Year 2005 = 100*

<http://www.cso.ie/en/media/csoie/releasespublications/documents/prices/2010/wpiintro05.pdf>

Prior to the adoption of the updated WPI indices industrial production mapped the WPI indices from NACE Rev. 1 to NACE Rev.2 to create deflators for the industrial production indices.