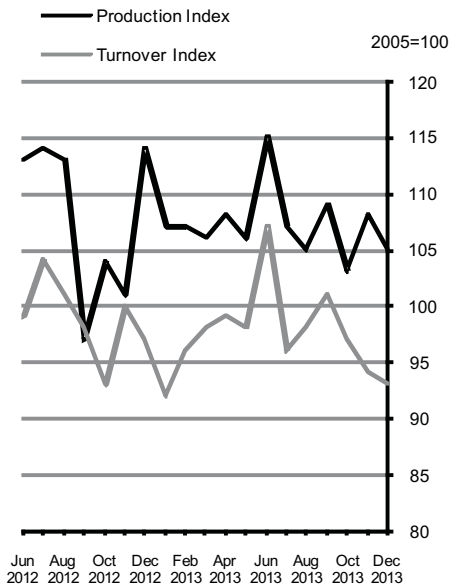


Manufacturing Industries
Seasonally adjusted



Industrial Production & Turnover
December 2013 (*Provisional*) and November 2013 (*Final*)

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

	Production Index	Turnover Index
December 2012	113.8	96.7
November 2013	107.6	94.2
December 2013	105.2	93.0
Monthly % change	-2.2%	-1.3%
Annual % change	-7.5%	-3.9%
Jul 2013 – Sep 2013	107.0	98.2
Oct 2013 – Dec 2013	105.3	94.8
% change	-1.5%	-3.4%

Published by the Central Statistics Office, Ireland.

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Industrial Production decreased 2.2% in December 2013

Production for Manufacturing Industries for December 2013 was 2.2% lower than in November 2013 (*see above and Table 1*). On an annual basis production for December 2013 decreased by 7.5% when compared with December 2012. The seasonally adjusted volume of industrial production for Manufacturing Industries for the three months October 2013 to December 2013 was 1.5% lower 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 December 2013 of 4.3%. There was a monthly increase of 0.1% in the “Traditional” Sector (*see table 2*).

There was a decrease of 1.3% in the seasonally adjusted industrial turnover index for Manufacturing Industries in December 2013 when compared with November 2013 (*see above and table 7*). On an annual basis turnover decreased by 3.9% when compared with December 2012.

Unadjusted data is available on the CSO website at <http://www.cso.ie/en/databases>

For more information contact Alan Finlay at 021 453 5211, Sean Hurley at 021 453 5242 or Susana Portillo at 021 453 5640.

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	109.4		-1.0	107.6		-1.3
2013	107.1		-2.1	105.4		-2.0
2011 Quarter 1	108.9		-0.4	107.5		-0.7
2	108.8	-0.1	-0.5	107.1	-0.3	-1.2
3	111.5	2.4	0.9	109.9	2.5	0.7
4	113.3	1.6	1.5	111.6	1.6	0.7
2012 Quarter 1	110.1	-2.8	1.1	108.4	-2.8	0.9
2	112.7	2.4	3.6	110.6	2.0	3.3
3	108.5	-3.8	-2.7	106.5	-3.8	-3.1
4	105.9	-2.3	-6.5	104.4	-1.9	-6.4
2013 Quarter 1	106.6	0.6	-3.3	105.0	0.5	-3.2
2	109.5	2.7	-2.9	107.8	2.7	-2.5
3	107.0	-2.3	-1.4	105.5	-2.1	-0.9
4	105.3	-1.5	-0.6	103.3	-2.1	-1.1
2011 January	109.9	-2.7	1.9	108.6	-2.8	1.8
February	109.9	0.0	0.3	108.2	-0.3	-0.1
March	107.2	-2.5	-3.2	105.9	-2.1	-3.2
April	110.2	2.9	5.4	108.1	2.1	4.4
May	108.7	-1.4	-1.7	107.2	-0.8	-2.3
June	107.6	-1.0	-4.7	106.1	-1.0	-5.0
July	108.2	0.6	-7.9	107.1	0.9	-7.3
August	113.5	4.9	11.9	111.7	4.3	10.7
September	112.6	-0.8	0.3	110.7	-0.8	0.0
October	124.3	10.3	13.8	121.3	9.5	12.4
November	106.8	-14.0	-5.2	106.4	-12.3	-5.7
December	109.5	2.4	-3.1	107.7	1.2	-3.6
2012 January	110.6	1.1	0.7	109.0	1.2	0.4
February	107.6	-2.7	-2.0	106.4	-2.4	-1.7
March	112.1	4.2	4.6	109.9	3.3	3.8
April	111.1	-0.9	0.8	109.1	-0.8	0.9
May	114.4	3.0	5.3	112.5	3.1	4.9
June	112.5	-1.6	4.6	110.2	-2.0	3.8
July	113.7	1.1	5.1	111.0	0.7	3.7
August	113.4	-0.3	-0.1	110.8	-0.1	-0.7
September	97.3	-14.2	-13.6	96.7	-12.7	-12.7
October	103.6	6.5	-16.6	102.4	5.9	-15.6
November	101.5	-2.1	-5.0	101.2	-1.1	-4.8
December	113.8	12.2	4.0	110.5	9.2	2.6
2013 January	106.6	-6.3	-3.6	104.8	-5.2	-3.8
February	107.4	0.7	-0.2	105.8	0.9	-0.5
March	105.6	-1.7	-5.8	104.4	-1.3	-5.0
April	108.2	2.4	-2.6	106.7	2.2	-2.1
May	106.1	-1.9	-7.3	104.2	-2.4	-7.4
June	114.8	8.2	2.0	113.3	8.8	2.8
July	106.8	-7.0	-6.1	105.4	-7.0	-5.0
August	105.4	-1.3	-7.0	104.4	-0.9	-5.8
September	108.6	3.0	11.6	106.9	2.4	10.5
October	103.3	-4.9	-0.3	101.7	-4.8	-0.7
November	107.6	4.2	6.1	105.3	3.5	4.0
December	105.2	-2.2	-7.5	103.1	-2.1	-6.8

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	124.2		-0.2	85.7		-3.3
2013	120.1		-3.3	86.1		0.4
2011 Quarter 1	121.4		-2.3	89.2		3.1
2	121.4	0.0	-1.6	87.1	-2.4	-1.4
3	126.5	4.1	0.7	90.2	3.6	1.0
4	128.9	2.0	2.1	87.3	-3.2	-2.0
2012 Quarter 1	125.6	-2.6	3.4	85.5	-2.1	-4.2
2	129.1	2.8	6.3	85.9	0.5	-1.4
3	124.5	-3.6	-1.5	84.7	-1.3	-6.0
4	117.8	-5.4	-8.7	86.8	2.4	-0.5
2013 Quarter 1	119.0	1.1	-5.3	85.2	-1.9	-0.3
2	124.4	4.5	-3.7	85.9	0.8	0.0
3	121.6	-2.2	-2.3	86.7	1.0	2.3
4	116.1	-4.5	-1.4	86.8	0.0	-0.1
2011 January	121.2	-4.6	0.9	90.6	2.4	5.1
February	122.7	1.3	-2.7	89.6	-1.1	3.6
March	120.5	-1.8	-4.8	87.7	-2.2	0.9
April	123.3	2.4	4.0	86.6	-1.2	0.2
May	119.0	-3.5	-4.4	92.2	6.4	3.4
June	122.1	2.6	-3.9	82.4	-10.6	-7.6
July	122.2	0.1	-8.5	84.0	1.9	-4.4
August	128.1	4.8	9.9	98.2	16.9	9.9
September	128.8	0.5	2.1	88.2	-10.2	-3.0
October	145.5	13.0	20.4	88.2	0.0	-0.8
November	121.3	-16.7	-7.1	86.2	-2.3	-4.0
December	120.7	-0.5	-5.0	87.7	1.8	-0.9
2012 January	127.0	5.2	4.8	84.8	-3.3	-6.3
February	121.5	-4.3	-1.0	85.0	0.2	-5.1
March	128.3	5.6	6.5	86.6	1.9	-1.2
April	125.9	-1.9	2.1	88.0	1.6	1.6
May	134.5	6.8	13.1	85.5	-2.9	-7.3
June	126.4	-6.0	3.6	84.3	-1.4	2.2
July	129.7	2.6	6.1	85.8	1.8	2.1
August	137.1	5.7	7.0	83.4	-2.8	-15.1
September	105.0	-23.4	-18.5	85.1	2.1	-3.5
October	117.5	11.9	-19.3	84.2	-1.0	-4.4
November	111.6	-5.0	-8.0	89.4	6.1	3.8
December	125.3	12.3	3.7	86.8	-2.9	-1.0
2013 January	120.2	-4.1	-5.3	84.1	-3.1	-0.9
February	120.7	0.5	-0.6	85.1	1.2	0.1
March	116.0	-3.9	-9.6	86.4	1.5	-0.2
April	124.0	6.9	-1.5	86.6	0.2	-1.6
May	121.2	-2.3	-9.9	82.8	-4.3	-3.1
June	128.5	6.1	1.7	88.7	7.1	5.2
July	120.7	-6.1	-6.9	86.6	-2.4	1.0
August	120.4	-0.2	-12.2	88.1	1.8	5.7
September	124.0	3.0	18.1	85.5	-3.0	0.4
October	115.1	-7.1	-2.0	86.6	1.3	2.8
November	119.1	3.5	6.8	86.8	0.3	-2.9
December	114.0	-4.3	-9.0	86.9	0.1	0.1

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			
			2012 Q4 ³ (⁰⁰⁰)	2013 Q1 ³ (⁰⁰⁰)	2013 Q2 ³ (⁰⁰⁰)	2013 Q3 (⁰⁰⁰)
Modern Sector		17,492.2	61.4	62.2	61.3	62.8
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	42.9	43.7	43.3	44.1
Computers, electronic and optical products; Electrical equipment	26,27	4,352.2	18.5	18.5	18.0	18.7
All Other Sectors		13,301.9	133.9	132.2	134.6	137.1
Industries (B - E) NACE 5 - 35		30,794.1²	195.3	194.4	195.9	199.9

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 Final

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

Base year 2005=100

December 2013

Industrial Sector	NACE	Weighting base Year 2005 Gross value added EUR million	Index - Seasonally adjusted					
			December 2013			Oct 2013 - Dec 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	102.9	-0.2	-9.1	101.6	2.4	-3.6
Food products	10	4,475.2	98.7	-2.1	-9.9	99.1	2.4	-3.1
Meat and meat products	101	618.3	87.4	1.9	3.1	85.4	4.5	6.5
Dairy products	105	515.7	117.7	3.4	18.2	115.9	3.0	5.4
Bakery and farinaceous products	107	234.9	92.1	-5.4	-5.7	93.6	-3.3	0.1
Grain mill and starch products; prepared animal feeds	106,109	192.7	97.5	2.0	-12.8	95.5	-3.5	-12.0
Other foods	102-104,108	2,913.6	97.9	-4.2	-14.6	99.1	2.2	-5.6
Beverages	11	783.4	134.0	12.9	-4.0	119.8	10.3	-4.5
Textiles and wearing apparel	13-14	202.7	34.1	-18.5	26.0	39.2	12.0	51.9
Textiles	13	98.3	46.5	-26.5	26.1	56.9	20.3	62.1
Wearing apparel	14	104.4	22.6	4.1	26.5	22.6	0.9	29.9
Leather and related products	15	7.3	138.2	1.2	4.1	134.6	0.1	7.2
Wood and wood products, except furniture	16	350.3	46.8	1.2	14.2	46.4	10.2	16.0
Paper and paper products; printing and reproduction of recorded media	17-18	665.0	78.4	11.4	17.7	71.1	13.0	6.9
Paper and paper products	17	213.7	63.3	-1.0	-0.8	64.2	-0.8	-4.2
Printing and reproduction of recorded media	18	451.3	84.0	13.7	24.8	74.3	19.5	11.7

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

Base year 2005=100

December 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Gross value added EUR million	December 2013			Oct 2013 - Dec 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	10,897.7	132.4	-7.1	-13.9	137.3	-5.6	-1.4
Chemicals and chemical products	20	816.8	190.7	-20.7	30.7	205.1	20.1	36.7
Basic pharmaceutical products and preparations	21	10,080.9	129.1	-4.4	-17.2	132.3	-7.5	-4.8
Rubber and plastic products	22	531.5	72.2	-6.5	5.1	75.6	8.3	9.2
Other non-metallic mineral products	23	863.9	42.2	12.9	27.6	38.2	8.2	16.1
Basic metals and fabricated metal products	24-25	701.6	66.8	-5.9	7.6	69.5	2.4	15.3
Basic metals	24	137.2	97.4	-3.0	21.2	97.9	3.9	25.5
Fabricated metal products, except machinery and equipment	25	564.4	58.6	-8.6	2.3	62.5	1.1	11.6
Computer, electronic, optical and electrical equipment	26-27	4,352.2	57.4	23.1	-8.2	49.0	-2.4	-15.1
Computer, electronic and optical products	26	4,017.5	58.3	25.5	-8.8	49.1	-3.3	-17.3
Electronic components and boards	261	2,003.8	42.9	5.2	-21.1	40.9	-3.5	-28.0
Computers and peripheral equipment	262	1,637.9	50.7	32.5	-8.2	41.2	4.0	-9.5
Other electronic and optical products	263-268	375.8	143.2	35.0	17.0	123.2	-8.6	-0.2
Electrical equipment	27	334.7	46.5	-8.7	11.1	48.1	1.3	19.1

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

Base year 2005=100

December 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	December 2013			Oct 2013 - Dec 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	117.2	4.6	22.0	113.5	8.2	14.9
Transport equipment	29-30	406.1	82.7	2.8	-10.4	80.4	4.0	0.0
Tobacco; coke and refined petroleum products; furniture	12,19,31	402.6	54.0	-2.5	-0.5	56.0	-4.6	-0.4
Other manufacturing	32	2,171.5	146.2	-8.2	0.0	151.3	7.8	3.7
Repair and installation of machinery and equipment	33	69.3	245.7	9.3	36.6	210.1	-2.3	37.0
Electricity, gas, steam and air conditioning supply	35	2,379.1	87.4	0.4	-6.9	88.3	-4.2	-11.5
Manufacturing industries	10-33	27,790.5	105.2	-2.2	-7.5	105.3	-1.6	-0.6
Mining and quarrying	05-09	624.5	86.2	18.0	57.8	76.9	-17.9	44.8
Transportable goods industries	05-33	28,415.0	104.9	-2.1	-6.8	104.9	-1.6	-0.1
Industries	05-35	30,794.1	103.1	-2.1	-6.8	103.3	-2.1	-1.1
<i>of which:</i> Energy producing industries		2,526.5	89.7	2.0	-4.9	89.4	-2.1	-10.1
Capital goods		5,550.9	102.6	-2.6	2.5	102.3	3.1	5.0
Intermediate products		5,933.9	58.1	0.9	1.7	57.2	-0.5	0.9
Consumer goods		16,782.8	123.0	-4.0	-11.3	124.9	-0.5	-1.9
<i>of which:</i> Durable consumer goods		515.0	73.4	39.9	-2.4	60.1	-13.4	-21.5
Non-durable consumer goods		16,267.8	124.6	-4.4	-11.5	126.9	-0.2	-1.5

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

Base year 2005=100

November 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	November 2013			Sep 2013 - Nov 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	103.1	4.0	-1.2	99.7	-1.2	-2.3
Food products	10	4,475.2	100.8	3.1	-0.7	97.7	-1.2	-1.3
Meat and meat products	101	618.3	85.7	2.8	9.3	82.8	0.6	6.0
Dairy products	105	515.7	113.9	-2.0	0.2	114.7	-0.2	0.1
Bakery and farinaceous products	107	234.9	97.3	6.4	6.7	94.4	-4.9	-0.9
Grain mill and starch products; prepared animal feeds	106,109	192.7	95.6	2.2	-10.3	94.4	-9.8	-11.8
Other foods	102-104,108	2,913.6	102.2	4.9	-2.5	97.5	-1.8	-2.7
Beverages	11	783.4	118.6	9.9	-2.6	112.2	3.4	-5.9
Textiles and wearing apparel	13-14	202.7	41.9	1.2	72.3	40.4	23.5	56.6
Textiles	13	98.3	63.3	5.3	95.3	58.5	36.4	68.6
Wearing apparel	14	104.4	21.7	-7.6	23.7	22.8	0.9	31.0
Leather and related products	15	7.3	136.6	5.6	7.9	133.2	-1.8	6.8
Wood and wood products, except furniture	16	350.3	46.2	0.2	14.4	44.7	6.2	12.0
Paper and paper products; printing and reproduction of recorded media	17-18	665.0	70.4	8.0	5.1	67.3	7.2	1.8
Paper and paper products	17	213.7	63.9	-2.0	-4.6	63.9	-2.7	-5.9
Printing and reproduction of recorded media	18	451.3	73.8	12.0	9.7	69.3	12.7	5.5

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

Base year 2005=100

November 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	November 2013			Sep 2013 - Nov 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	10,897.7	142.6	4.3	10.7	142.2	-3.5	14.4
Chemicals and chemical products	20	816.8	240.5	30.4	54.9	195.5	11.0	27.5
Basic pharmaceutical products and preparations	21	10,080.9	135.1	1.8	6.2	137.7	-4.8	13.0
Rubber and plastic products	22	531.5	77.2	-0.2	9.1	74.2	3.8	5.7
Other non-metallic mineral products	23	863.9	37.4	5.5	14.2	35.8	-0.8	7.8
Basic metals and fabricated metal products	24-25	701.6	71.0	0.5	17.1	70.8	5.8	16.4
Basic metals	24	137.2	100.4	4.8	30.7	98.8	6.1	24.7
Fabricated metal products, except machinery and equipment	25	564.4	64.1	-0.8	12.8	64.4	6.4	13.8
Computer, electronic, optical and electrical equipment	26-27	4,352.2	46.6	7.0	-16.0	46.7	-11.4	-19.6
Computer, electronic and optical products	26	4,017.5	46.4	7.2	-19.1	46.8	-12.2	-22.1
Electronic components and boards	261	2,003.8	40.8	4.0	-24.1	40.6	-5.4	-32.7
Computers and peripheral equipment	262	1,637.9	38.3	8.8	-12.9	38.0	-9.5	-9.5
Other electronic and optical products	263-268	375.8	106.1	-12.7	-15.1	113.4	-21.5	-13.2
Electrical equipment	27	334.7	50.9	8.6	32.4	47.7	-0.2	16.3

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

Base year 2005=100

November 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Gross value added EUR million	November 2013			Sep 2013 - Nov 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	112.0	0.4	6.7	110.4	2.7	7.6
Transport equipment	29-30	406.1	80.4	2.9	3.7	79.7	2.3	6.4
Tobacco; coke and refined petroleum products; furniture	12,19,31	402.6	55.4	-5.4	-2.6	56.7	-3.1	-1.0
Other manufacturing	32	2,171.5	159.3	7.3	9.1	149.1	3.7	-1.2
Repair and installation of machinery and equipment	33	69.3	224.8	37.3	43.8	195.7	-11.5	23.2
Electricity, gas, steam and air conditioning supply	35	2,379.1	87.1	-3.6	-17.0	89.8	-4.7	-11.4
Manufacturing industries	10-33	27,790.5	107.6	4.2	6.1	106.5	-2.1	5.6
Mining and quarrying	05-09	624.5	73.0	1.3	32.4	75.9	-19.8	34.8
Transportable goods industries	05-33	28,415.0	107.2	4.4	6.1	105.9	-2.3	5.8
Industries	05-35	30,794.1	105.3	3.5	4.0	104.6	-2.6	4.4
<i>of which:</i> Energy producing industries		2,526.5	87.9	-2.8	-15.1	89.9	-3.1	-10.5
Capital goods		5,550.9	105.3	6.3	7.0	101.8	0.1	1.1
Intermediate products		5,933.9	57.6	2.8	3.2	56.7	-2.6	-3.2
Consumer goods		16,782.8	128.1	3.5	6.5	126.7	0.2	9.0
<i>of which:</i> Durable consumer goods		515.0	52.5	-4.7	-34.4	53.1	-31.3	-30.6
Non-durable consumer goods		16,267.8	130.3	3.7	7.3	128.9	0.6	9.9

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	109.9	99.5	144.7	133.7	142.9	61.3	135.5
February	109.9	97.2	119.5	134.3	146.1	58.3	130.4
March	107.2	99.5	111.4	137.0	145.9	56.2	133.3
April	110.2	99.1	115.7	142.0	148.0	56.0	135.8
May	108.7	107.9	131.9	146.2	142.1	54.1	130.3
June	107.6	79.8	125.9	139.6	151.4	55.4	128.2
July	108.2	83.8	129.5	157.7	147.0	54.1	133.0
August	113.5	122.3	131.3	156.0	156.6	53.3	137.9
September	112.6	97.6	130.3	145.7	153.9	56.5	136.0
October	124.3	100.4	118.6	174.2	185.6	55.7	148.1
November	106.8	94.6	113.3	146.4	143.8	57.8	156.5
December	109.5	99.1	111.7	138.9	144.8	56.7	171.2
2012 January	110.6	91.6	121.1	149.3	151.0	57.2	147.4
February	107.6	94.5	114.3	140.4	140.6	58.7	154.0
March	112.1	95.5	118.5	152.3	149.0	59.8	153.2
April	111.1	99.0	119.1	151.2	151.1	56.4	135.2
May	114.4	95.4	102.0	153.6	158.3	61.5	161.3
June	112.5	95.8	117.8	148.6	148.8	61.6	161.9
July	113.7	98.0	109.4	180.0	150.7	59.3	164.7
August	113.4	89.5	119.5	125.4	165.9	63.6	159.5
September	97.3	98.7	118.5	156.5	100.7	66.0	161.9
October	103.6	96.9	117.2	148.4	135.9	57.5	145.7
November	101.5	101.6	121.8	155.2	127.1	57.4	146.0
December	113.8	109.5	139.5	145.9	156.0	63.9	146.2
2013 January	106.6	96.9	114.5	163.2	144.5	46.6	142.5
February	107.4	97.2	119.9	188.4	140.3	52.0	144.1
March	105.6	97.7	118.3	171.1	132.4	54.6	140.7
April	108.2	95.3	122.7	179.4	145.1	50.5	139.4
May	106.1	95.1	106.4	189.0	141.5	49.9	144.0
June	114.8	100.9	110.2	179.4	151.3	59.3	150.8
July	106.8	97.5	113.7	168.3	142.7	51.3	141.0
August	105.4	98.5	101.4	182.0	140.8	50.2	140.5
September	108.6	94.4	110.3	162.3	145.6	50.9	139.8
October	103.3	97.8	107.9	184.4	132.7	43.3	148.4
November	107.6	100.8	118.6	240.5	135.1	46.4	159.3
December	105.2	98.7	134.0	190.7	129.1	58.3	146.2
Dec 13 / Dec 12	-7.5%	-9.9%	-4.0%	30.7%	-17.2%	-8.8%	0.0%
Dec 13 / Nov 13	-2.2%	-2.1%	12.9%	-20.7%	-4.4%	25.5%	-8.2%

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	98.5		-1.8	98.1		-1.8
2013	97.3		-1.2	96.9		-1.2
2011 Quarter 1	98.3		4.2	98.0		4.2
2	98.5	0.2	0.8	98.2	0.2	0.7
3	100.0	1.5	0.2	99.6	1.5	0.2
4	104.4	4.3	6.5	103.8	4.2	6.2
2012 Quarter 1	98.9	-5.3	0.5	98.5	-5.1	0.5
2	97.4	-1.5	-1.2	97.1	-1.4	-1.1
3	101.0	3.8	1.0	100.7	3.7	1.0
4	96.6	-4.4	-7.4	96.2	-4.5	-7.4
2013 Quarter 1	95.3	-1.3	-3.6	95.0	-1.2	-3.5
2	100.8	5.7	3.5	100.3	5.6	3.4
3	98.2	-2.6	-2.8	97.8	-2.5	-2.8
4	94.8	-3.4	-1.9	94.4	-3.5	-1.8
2011 January	101.6	4.1	6.6	101.2	4.0	6.7
February	99.4	-2.1	6.7	98.9	-2.3	6.4
March	94.4	-5.0	-0.3	94.3	-4.6	-0.2
April	99.4	5.3	5.8	99.0	4.9	5.5
May	100.5	1.1	0.4	100.2	1.2	0.3
June	95.7	-4.7	-3.4	95.4	-4.7	-3.4
July	98.7	3.0	-3.1	98.4	3.1	-3.0
August	102.1	3.5	4.8	101.7	3.4	4.7
September	99.2	-2.8	-0.9	98.7	-2.9	-1.0
October	100.1	0.9	0.6	99.6	0.9	0.4
November	104.9	4.8	8.1	104.5	4.9	7.9
December	107.9	2.8	10.6	107.3	2.7	10.3
2012 January	101.2	-6.2	-0.3	100.8	-6.1	-0.4
February	94.6	-6.5	-4.8	94.3	-6.5	-4.7
March	100.8	6.5	6.8	100.4	6.6	6.5
April	95.7	-5.0	-3.7	95.4	-5.0	-3.6
May	97.1	1.5	-3.4	96.8	1.5	-3.3
June	99.3	2.3	3.7	99.0	2.2	3.7
July	104.3	5.0	5.7	103.8	4.9	5.5
August	100.9	-3.3	-1.2	100.4	-3.3	-1.3
September	97.7	-3.1	-1.5	97.5	-2.8	-1.2
October	93.0	-4.9	-7.2	92.3	-5.3	-7.3
November	100.1	7.7	-4.6	99.7	8.0	-4.5
December	96.7	-3.4	-10.4	96.5	-3.3	-10.1
2013 January	92.3	-4.6	-8.9	92.1	-4.5	-8.7
February	96.0	4.1	1.5	95.6	3.8	1.4
March	98.1	2.2	-2.7	97.7	2.2	-2.7
April	99.0	0.9	3.4	98.5	0.8	3.2
May	97.6	-1.3	0.5	97.2	-1.3	0.3
June	106.5	9.1	7.3	106.0	9.1	7.1
July	96.2	-9.7	-7.7	95.8	-9.7	-7.7
August	98.1	2.0	-2.8	97.7	2.0	-2.6
September	100.5	2.5	2.9	100.2	2.5	2.7
October	97.1	-3.4	4.4	96.5	-3.7	4.5
November	94.2	-3.0	-5.9	93.9	-2.6	-5.8
December	93.0	-1.3	-3.9	92.7	-1.3	-3.9

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

December 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Turnover EUR million	December 2013			Oct 2013 - Dec 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	122.5	-1.2	-4.1	123.6	-1.1	0.7
Food products	10	16,057.4	123.5	-1.5	-5.1	124.1	-1.3	-0.2
Meat and meat products	101	3,581.3	128.2	-0.4	7.9	128.0	0.9	11.8
Dairy products	105	2,663.0	132.1	10.6	24.6	127.6	-4.9	17.4
Bakery and farinaceous products	107	600.8	118.4	-5.3	-9.0	119.3	-1.1	-0.4
Grain mill and starch products; prepared animal feeds	106,109	902.7	161.0	2.6	-5.8	155.6	-1.5	-6.3
Other foods	102-104,108	8,309.4	116.5	-5.4	-15.8	119.3	0.7	-8.8
Beverages	11	2,449.7	126.0	-0.4	1.8	126.5	2.3	4.4
Textiles and wearing apparel	13-14	483.2	43.4	-15.2	35.9	47.7	8.7	51.9
Textiles	13	244.4	58.8	-20.6	41.5	66.0	11.3	60.2
Wearing apparel	14	238.9	27.6	-0.2	24.5	28.8	1.8	34.6
Leather and related products	15	27.2	124.4	-1.4	3.2	123.6	1.8	6.5
Wood and wood products, except furniture	16	1,073.6	57.2	4.9	19.5	56.1	7.3	14.5
Paper and paper products; printing and reproduction of recorded media	17-18	1,968.5	64.7	-4.5	-4.1	64.7	4.4	-3.3
Paper and paper products	17	558.1	60.9	-2.7	-0.1	61.9	-1.4	-1.3
Printing and reproduction of recorded media	18	1,410.4	66.6	-2.7	-5.2	65.7	6.1	-4.1

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

Base year 2005=100

December 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Turnover EUR million	December 2013			Oct 2013 - Dec 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	28,397.2	107.3	-6.0	-4.4	114.8	-10.2	-3.4
Chemicals and chemical products	20	2,139.4	167.1	-18.4	21.4	177.4	9.0	6.0
Basic pharmaceutical products and preparations	21	26,257.8	102.6	-4.6	-7.0	110.0	-12.1	-4.4
Rubber and plastic products	22	1,485.6	74.8	-10.6	0.8	79.1	5.9	6.0
Other non-metallic mineral products	23	2,173.4	57.5	29.0	48.0	48.5	11.8	24.7
Basic metals and fabricated metal products	24-25	2,029.8	69.3	-8.7	-6.0	73.4	-4.7	0.1
Basic metals	24	491.1	138.6	-1.0	9.5	138.1	2.5	10.8
Fabricated metal products, except machinery and equipment	25	1,538.7	46.6	-16.7	-18.6	52.6	-8.5	-6.9
Computer, electronic, optical and electrical equipment	26-27	23,574.0	43.1	7.3	-11.2	41.2	0.2	-9.1
Computer, electronic and optical products	26	22,576.3	42.7	10.3	-10.9	39.9	1.0	-10.3
Electronic components and boards	261	4,312.1	48.3	4.7	-31.1	49.2	-4.5	-25.0
Computers and peripheral equipment	262	17,068.1	37.1	17.5	-8.4	32.9	3.1	-9.4
Other electronic and optical products	263-268	1,196.0	111.8	-0.1	3.5	112.3	7.0	9.7
Electrical equipment	27	997.7	59.4	-11.8	-3.4	62.4	-0.5	6.7

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

Base year 2005=100

December 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	December 2013			Oct 2013 - Dec 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	113.6	0.2	16.4	111.3	7.8	8.3
Transport equipment	29-30	1,088.3	70.5	-2.9	-10.3	70.4	3.7	-4.7
Tobacco; coke and refined petroleum products; furniture	12,19,31	2,547.3	113.5	-5.2	-11.2	118.2	-0.4	-10.0
Other manufacturing	32	4,845.5	169.2	-1.7	2.7	171.7	7.4	2.5
Repair and installation of machinery and equipment	33	129.7	222.7	6.2	40.7	194.9	6.6	37.2
Manufacturing industries	10-33	90,627.4	93.0	-1.3	-3.9	94.8	-3.5	-1.9
Mining and quarrying	05-09	1,513.7	75.7	-4.0	-5.7	76.1	-1.8	4.4
Transportable goods industries	05-33	92,141.1	92.7	-1.3	-3.9	94.4	-3.5	-1.9
<i>of which: Industries mainly or wholly producing¹</i>								
Capital goods		26,478.0	69.3	2.6	-2.1	67.5	3.7	-0.7
Intermediate products		15,554.9	71.9	-0.3	-7.0	72.2	2.4	-1.8
Consumer goods		48,377.9	112.5	-2.0	-4.0	115.7	-4.8	-1.7
<i>of which: Durable consumer goods</i>		1,494.5	86.0	2.4	10.4	81.6	10.1	5.0
Non-durable consumer goods		46,883.4	113.2	-2.2	-4.3	116.8	-5.0	-1.8

¹ Excludes Energy producing industries

Table 7a Turnover Indices for Industrial Sectors - Final Results

Base year 2005=100

November 2013

Industrial Sector	NACE	Weighting base		Index - Seasonally adjusted				
		Year 2005 Turnover EUR million	November 2013			Sep 2013 - Nov 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	124.0	0.0	0.4	123.3	-2.9	2.3
Food products	10	16,057.4	125.5	1.7	-0.5	123.6	-3.2	2.5
Meat and meat products	101	3,581.3	128.8	1.3	13.0	126.9	-0.1	12.5
Dairy products	105	2,663.0	119.5	-8.9	7.9	127.9	-4.6	16.4
Bakery and farinaceous products	107	600.8	125.0	9.0	8.4	119.7	-2.0	2.5
Grain mill and starch products; prepared animal feeds	106,109	902.7	156.9	5.0	-5.0	153.4	-5.4	-5.7
Other foods	102-104,108	8,309.4	123.2	4.4	-8.1	118.6	-1.7	-5.4
Beverages	11	2,449.7	126.6	-0.3	5.2	127.1	2.8	0.8
Textiles and wearing apparel	13-14	483.2	51.1	5.5	70.0	48.8	14.8	48.8
Textiles	13	244.4	74.1	14.2	91.1	67.0	18.0	53.7
Wearing apparel	14	238.9	27.7	-10.2	27.5	30.0	6.4	37.0
Leather and related products	15	27.2	126.2	4.8	7.4	122.7	0.1	6.5
Wood and wood products, except furniture	16	1,073.6	54.5	-3.7	8.0	55.2	7.8	11.7
Paper and paper products; printing and reproduction of recorded media	17-18	1,968.5	67.7	9.7	2.9	64.6	2.7	-3.3
Paper and paper products	17	558.1	62.6	0.8	-0.3	61.9	-2.8	-2.7
Printing and reproduction of recorded media	18	1,410.4	68.4	9.8	3.6	65.5	4.3	-3.7

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

Base year 2005=100

November 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	November 2013			Sep 2013 - Nov 2013		
			Index	% change on preceding month	Annual % change	Index	% change on preceding 3 months	Annual % change
Chemicals and pharmaceuticals	20-21	28,397.2	114.2	-6.7	-13.4	122.6	-5.2	3.2
Chemicals and chemical products	20	2,139.4	204.7	27.4	3.7	174.1	2.8	-4.0
Basic pharmaceutical products and preparations	21	26,257.8	107.5	-9.7	-15.3	119.0	-5.2	4.2
Rubber and plastic products	22	1,485.6	83.7	6.5	10.9	79.3	3.9	4.9
Other non-metallic mineral products	23	2,173.4	44.6	0.8	16.1	43.9	-1.3	11.1
Basic metals and fabricated metal products	24-25	2,029.8	75.9	1.3	4.5	76.2	-1.4	2.4
Basic metals	24	491.1	140.0	3.0	14.6	138.8	3.3	10.9
Fabricated metal products, except machinery and equipment	25	1,538.7	55.9	2.1	-1.2	55.8	-4.3	-2.4
Computer, electronic, optical and electrical equipment	26-27	23,574.0	40.2	-0.2	-10.1	40.5	-5.4	-9.2
Computer, electronic and optical products	26	22,576.3	38.7	0.6	-12.3	39.4	-3.9	-10.5
Electronic components and boards	261	4,312.1	46.1	-12.8	-24.4	50.2	-2.9	-23.6
Computers and peripheral equipment	262	17,068.1	31.6	4.0	-13.5	32.0	-3.6	-7.8
Other electronic and optical products	263-268	1,196.0	111.9	-1.0	8.3	109.9	3.9	4.9
Electrical equipment	27	997.7	67.3	11.4	18.7	62.7	-1.1	5.7

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

Base year 2005=100

November 2013

Industrial Sector	NACE	Weighting base	Index - Seasonally adjusted					
		Year 2005 Turnover EUR million	November 2013			Sep 2013 - Nov 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	113.3	5.5	3.5	109.5	4.1	2.5
Transport equipment	29-30	1,088.3	72.6	6.7	0.1	69.8	0.6	-2.1
Tobacco; coke and refined petroleum products; furniture	12,19,31	2,547.3	119.8	-0.8	-2.7	117.9	-2.9	-12.6
Other manufacturing	32	4,845.5	172.1	-0.9	4.4	168.3	4.0	-3.1
Repair and installation of machinery and equipment	33	129.7	209.7	34.8	48.9	180.1	-3.2	25.1
Manufacturing industries	10-33	90,627.4	94.2	-3.0	-5.9	97.2	-2.7	0.3
Mining and quarrying	05-09	1,513.7	78.8	6.4	6.2	79.0	7.2	4.4
Transportable goods industries	05-33	92,141.1	93.9	-2.6	-5.8	96.9	-2.6	0.4
<i>of which: Industries mainly or wholly producing¹</i>								
Capital goods		26,478.0	67.5	2.6	-1.0	66.8	-0.6	-2.6
Intermediate products		15,554.9	72.1	-0.6	0.8	72.0	1.7	-2.2
Consumer goods		48,377.9	114.8	-4.0	-8.1	119.6	-2.4	2.9
<i>of which: Durable consumer goods</i>		1,494.5	84.0	11.4	6.4	77.7	5.1	0.3
Non-durable consumer goods		46,883.4	115.8	-4.3	-8.5	121.0	-2.4	3.0

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	101.6	111.3	113.0	146.8	139.1	47.5	141.6
February	99.4	109.5	116.1	150.3	141.7	40.9	141.4
March	94.4	112.1	115.8	142.8	123.6	38.4	142.9
April	99.4	115.1	127.2	147.5	140.1	40.1	141.3
May	100.5	122.7	122.3	147.5	138.6	38.7	151.8
June	95.7	98.4	118.8	147.4	136.2	38.6	144.1
July	98.7	102.4	123.5	166.0	139.2	38.7	147.9
August	102.1	137.6	128.5	168.5	138.3	38.3	148.1
September	99.2	111.9	123.8	156.6	140.0	39.7	150.1
October	100.1	116.3	122.8	170.0	137.0	38.7	158.5
November	104.9	113.0	124.7	155.2	153.1	39.0	176.2
December	107.9	115.4	119.5	159.0	182.1	36.8	200.0
2012 January	101.2	112.3	123.2	158.9	133.8	47.6	172.0
February	94.6	116.3	112.4	145.6	123.1	40.1	166.0
March	100.8	117.0	113.1	164.9	122.0	46.7	168.8
April	95.7	118.1	111.6	167.1	122.9	40.6	154.4
May	97.1	114.7	111.0	169.6	123.8	43.9	178.3
June	99.3	115.3	108.5	158.2	120.1	46.0	179.9
July	104.3	117.4	100.8	179.2	145.6	38.5	181.1
August	100.9	114.2	132.4	155.6	131.3	51.4	200.4
September	97.7	117.8	139.5	183.9	107.7	46.0	184.4
October	93.0	117.5	119.9	163.0	107.5	42.0	172.5
November	100.1	126.1	120.3	197.3	126.9	44.1	164.8
December	96.7	130.1	123.8	137.6	110.3	47.9	164.7
2013 January	92.3	120.7	113.0	161.2	112.3	39.2	165.5
February	96.0	121.3	127.1	172.6	119.2	41.5	168.6
March	98.1	122.3	121.3	175.8	124.0	48.1	166.6
April	99.0	125.6	120.6	176.0	116.2	38.7	164.1
May	97.6	122.5	120.1	170.4	125.8	38.1	160.6
June	106.5	128.2	127.9	179.0	132.2	46.4	165.5
July	96.2	126.0	122.5	160.7	119.0	38.8	162.8
August	98.1	129.0	121.0	170.2	126.4	38.6	157.3
September	100.5	122.0	127.7	157.5	130.6	41.1	159.0
October	97.1	123.4	126.9	160.7	119.0	38.5	173.7
November	94.2	125.5	126.6	204.7	107.5	38.7	172.1
December	93.0	123.5	126.0	167.1	102.6	42.7	169.2
Dec 13 / Dec 12	-3.9%	-5.1%	1.8%	21.4%	-7.0%	-10.9%	2.7%
Dec 13 / Nov 13	-1.3%	-1.5%	-0.4%	-18.4%	-4.6%	10.3%	-1.7%

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	97.2	66.8	127.6	65.1	129.6	61.7	80.9	126.3	74.2	127.6
February	95.7	63.4	129.2	67.9	131.2	62.4	74.7	126.3	74.5	127.9
March	92.6	61.1	124.9	69.1	126.7	57.8	76.6	117.4	76.1	118.6
April	90.3	66.0	133.4	72.3	135.3	57.9	72.8	128.1	82.4	129.6
May	92.8	57.5	129.1	68.2	131.0	60.5	70.8	127.0	72.2	128.9
June	93.4	57.7	125.9	71.7	127.6	59.1	71.3	119.9	76.7	121.1
July	95.0	60.2	125.8	73.8	127.5	59.7	73.9	123.9	79.3	125.3
August	96.4	56.8	137.8	73.7	139.7	59.8	70.5	129.8	77.2	131.5
September	94.2	58.1	135.3	74.4	137.1	59.7	70.1	127.1	79.4	128.6
October	98.8	59.4	157.4	76.2	159.9	61.4	71.5	128.2	80.6	129.7
November	101.3	60.9	127.3	73.4	129.0	65.6	72.1	134.7	80.3	136.9
December	102.4	59.1	128.7	74.0	130.5	64.0	72.8	148.0	80.8	150.2
2012 January	98.5	59.5	131.1	80.8	132.8	67.1	73.7	124.1	77.9	125.4
February	102.2	59.8	125.1	75.5	126.7	65.1	72.0	117.4	79.1	118.5
March	106.9	59.4	131.2	74.1	133.0	73.7	73.3	118.3	77.3	119.6
April	94.7	59.7	132.6	76.7	134.4	63.0	72.7	119.2	77.6	120.5
May	105.4	59.9	134.3	80.1	136.1	68.6	74.3	116.5	78.9	117.7
June	106.6	56.5	128.7	73.2	130.5	71.6	73.2	117.0	78.4	118.2
July	103.5	59.8	131.2	69.3	133.2	64.0	75.9	131.0	74.0	132.8
August	105.9	59.1	132.2	68.0	134.3	78.8	74.6	118.3	77.5	119.6
September	110.4	63.2	102.5	75.1	103.2	72.7	77.4	112.4	77.3	113.5
October	94.1	57.3	124.6	74.3	126.0	65.4	72.2	111.0	76.2	112.1
November	98.4	55.8	120.3	80.0	121.4	68.2	71.5	124.8	79.0	126.5
December	100.1	57.1	138.7	75.2	140.8	70.8	77.3	117.1	77.9	118.3
2013 January	94.6	55.7	127.8	74.7	129.6	61.8	71.6	112.2	76.7	113.3
February	97.7	55.8	128.2	76.2	129.9	67.7	71.6	117.7	74.2	119.0
March	100.5	59.1	124.2	76.5	125.8	75.3	73.9	121.1	76.1	122.5
April	99.4	55.7	125.9	74.1	127.5	67.3	74.6	115.0	74.9	116.3
May	98.9	57.6	123.3	76.0	124.8	64.9	71.6	119.1	74.1	120.5
June	109.6	58.8	132.2	75.9	134.0	74.5	72.8	128.3	72.9	130.0
July	98.4	56.6	125.2	78.0	126.8	64.6	68.4	119.4	75.8	120.8
August	98.1	59.5	122.7	77.8	124.2	63.4	71.7	120.6	72.5	122.1
September	101.1	56.5	128.5	51.6	130.7	67.3	71.5	124.6	73.8	126.2
October	99.1	56.0	123.7	55.1	125.7	65.8	72.5	119.5	75.4	121.0
November	105.3	57.6	128.1	52.5	130.3	67.5	72.1	114.8	84.0	115.8
December	102.6	58.1	123.0	73.4	124.6	69.3	71.9	112.5	86.0	113.2
Dec 13 / Dec 12	2.5%	1.7%	-11.3%	-2.4%	-11.5%	-2.1%	-7.0%	-4.0%	10.4%	-4.3%
Dec 13 / Nov 13	-2.6%	0.9%	-4.0%	39.9%	-4.4%	2.6%	-0.3%	-2.0%	2.4%	-2.2%

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 Prodcum 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. As a result, the historical monthly series are also updated.

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 base weights 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.

New Orders Indices The index of new orders received was an indicator which represented the nominal value of the new orders placed during a certain reference month in an industry. Due to methodological difficulties the publication of this indicator was discontinued with the end of the reference year 2011 by Eurostat. As a result this data is no longer collected by the C.S.O. and the series has been discontinued from July 2013.