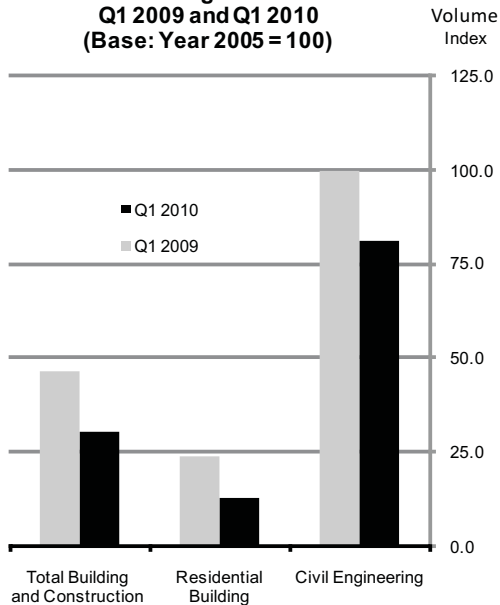




Production in Building and Construction Index

Quarter 1 2010 (First Estimates)
Quarter 4 2009 (Final Figures)

**Seasonally Adjusted
Volume of Production for Building
Categories
Q1 2009 and Q1 2010
(Base: Year 2005 = 100)**



**Seasonally Adjusted Production in Building and Construction index
(Base: Year 2005=100)**

	Volume Index	Value Index
Q1 2009	46.1	53.0
Q1 2010	30.3	34.6
% change	-34.1%	-34.8%

Building and Construction Output down by 34.1% in 1st Quarter

The volume of output in building and construction decreased by 34.1% in the first quarter of 2010 compared with the first quarter of 2009. The value of production decreased by 34.8% in the same period. *See table 1(a) and graph.*

The fall in the volume of output largely reflects declines of over 48% and over 32% respectively in residential building work and non-residential building work. Output in civil engineering fell by over 18%. *See tables 1(c), 2(a), 2(b) and graph.*

EU comparisons

In the year to Q1 2010, output in the building and construction sector fell by 7.8% in the EU 27 and fell by 9.9% in the EA16. The largest increases were in Sweden (+3.4%), Finland (+1.6%) and the United Kingdom (+1.2%). The largest decreases were in Latvia (-43.4%), Lithuania (-42.9%) and Ireland (-34.4%). *See table 3(b).*

Please note that all series presented in this release are now seasonally adjusted. The seasonally adjusted series have been calculated using X-12-Arima. The methodology has also been updated and so all indices have been revised as a result. Please see the background notes for more information. If you wish to view the unadjusted series, it can be found on the CSO website, under **Database Direct**.

For more information contact Brid Fitzpatrick at ext 021 453 5162, Alan Finlay at ext 021 453 5211 or Sinead Leyden at ext 021 453 5523.

Published by the Central Statistics Office, Ireland.

Ardee Road
Dublin 6
Ireland

Skehard Road
Cork
Ireland

LoCall: 1890 313 414 (ROI)
0870 8760256 (UK/NI)

Tel: +353 1 498 4000
Fax: +353 1 498 4229

Tel: +353 21 453 5000
Fax: +353 21 453 5555

Both offices may be contacted through any of these telephone numbers.

CSO on the Web: www.cso.ie
and go to
Business Sectors: Construction

Director General: Gerard O'Hanlon

Enquiries:

Short Term Statistics

Results, Analysis and
Publications Section,
ext 5523, 5211

sts_rap@cso.ie

Queries and Sales

Information Section, ext 5021
information@cso.ie

Table 1(a) Seasonally Adjusted Indices of Production in all Building and Construction

Base: Year 2005 = 100

Period	Total Production in all Building and Construction			
	Value of Production		Volume of Production	
	Index	Annual % change	Index	Annual % change
2006	109.8	10.0	102.7	2.9
2007	99.7	-9.2	89.2	-13.1
2008	73.2	-26.6	63.1	-29.3
2009	45.6	-37.7	40.2	-36.3
2006 1st quarter	110.3	19.3	105.1	12.8
2nd quarter	106.5	5.7	100.3	-0.4
3rd quarter	105.6	2.3	98.7	-5.1
4th quarter	116.6	13.6	106.6	5.3
2007 1st quarter	103.6	-6.0	93.0	-11.5
2nd quarter	104.8	-1.6	94.7	-5.6
3rd quarter	96.4	-8.7	85.9	-13.0
4th quarter	93.9	-19.5	83.3	-21.8
2008 1st quarter	83.7	-19.2	72.8	-21.7
2nd quarter	77.6	-25.9	66.6	-29.6
3rd quarter	70.2	-27.2	60.3	-29.8
4th quarter	61.3	-34.7	52.7	-36.8
2009 1st quarter	53.0	-36.7	46.1	-36.7
2nd quarter	46.7	-39.8	41.4	-37.9
3rd quarter	43.7	-37.7	38.8	-35.8
4th quarter	38.9	-36.6	34.4	-34.6
2010 1st quarter ¹	34.6	-34.8	30.3	-34.1

¹ Provisional

Table 1(b) Seasonally Adjusted Indices of Production in Building (excluding civil engineering)**Base: Year 2005 = 100**

Period	Total Production in Building (excluding civil engineering)			
	Value of Production		Volume of Production	
	Index	Annual % change	Index	Annual % change
2006	108.3	8.5	101.2	1.4
2007	95.0	-12.3	84.9	-16.1
2008	64.9	-31.6	56.1	-34.0
2009	35.8	-44.9	31.6	-43.7
2006 1st quarter	109.1	16.5	103.1	10.3
2nd quarter	105.6	3.4	99.1	-2.1
3rd quarter	104.2	2.0	98.2	-5.5
4th quarter	114.4	13.0	104.3	3.6
2007 1st quarter	98.9	-9.3	89.0	-13.8
2nd quarter	101.0	-4.4	91.1	-8.1
3rd quarter	91.9	-11.9	82.2	-16.3
4th quarter	88.0	-23.1	77.3	-25.9
2008 1st quarter	76.3	-22.9	66.9	-24.8
2nd quarter	69.2	-31.5	59.7	-34.5
3rd quarter	61.7	-32.8	52.8	-35.7
4th quarter	52.5	-40.3	44.8	-42.1
2009 1st quarter	43.5	-43.1	38.1	-43.1
2nd quarter	37.0	-46.6	33.0	-44.7
3rd quarter	33.4	-45.9	29.3	-44.5
4th quarter	29.2	-44.3	25.8	-42.5
2010 1st quarter ¹	25.6	-41.1	22.6	-40.5

¹ Provisional

Table 1(c) Seasonally Adjusted Indices of Production in Civil Engineering

Base: Year 2005 = 100

Period	Total Production in Civil Engineering			
	Value of Production		Volume of Production	
	Index	Annual % change	Index	Annual % change
2006	118.7	19.3	111.2	11.7
2007	130.2	9.7	116.6	4.9
2008	126.4	-2.9	109.1	-6.5
2009	108.7	-14.1	95.9	-12.1
2006 1st quarter	116.0	37.6	112.2	28.8
2nd quarter	113.4	21.6	104.9	15.9
3rd quarter	116.9	6.1	108.5	-2.0
4th quarter	128.4	16.4	119.0	8.2
2007 1st quarter	131.5	13.3	119.4	6.4
2nd quarter	130.9	15.4	116.8	11.3
3rd quarter	128.2	9.6	113.3	4.4
4th quarter	130.2	1.4	116.9	-1.8
2008 1st quarter	129.7	-1.4	114.2	-4.4
2nd quarter	133.1	1.7	112.8	-3.4
3rd quarter	125.6	-2.0	107.9	-4.8
4th quarter	117.3	-9.9	101.3	-13.3
2009 1st quarter	114.5	-11.7	99.3	-13.0
2nd quarter	110.3	-17.1	97.6	-13.4
3rd quarter	108.4	-13.7	96.8	-10.3
4th quarter	101.4	-13.6	89.8	-11.3
2010 1st quarter ¹	92.3	-19.3	81.0	-18.5

¹ Provisional

Table 2(a) Seasonally Adjusted Indices of Production in Residential Building**Base: Year 2005 = 100**

Period	Total Production in all Building and Construction			
	Value of Production		Volume of Production	
	Index	Annual % change	Index	Annual % change
2006	107.4	7.6	100.5	0.6
2007	88.7	-17.4	79.4	-21.0
2008	50.6	-42.9	43.7	-45.0
2009	20.9	-58.7	18.4	-57.8
2006 1st quarter	107.8	14.2	103.0	8.2
2nd quarter	104.0	0.4	97.9	-5.3
3rd quarter	103.5	1.1	97.0	-6.5
4th quarter	114.3	15.6	103.9	7.1
2007 1st quarter	94.0	-12.8	84.6	-17.8
2nd quarter	96.1	-7.6	86.8	-11.4
3rd quarter	84.6	-18.2	75.4	-22.2
4th quarter	80.2	-29.8	70.8	-31.9
2008 1st quarter	64.0	-31.9	56.1	-33.7
2nd quarter	55.7	-42.1	47.7	-45.0
3rd quarter	47.3	-44.1	40.6	-46.2
4th quarter	35.5	-55.8	30.3	-57.1
2009 1st quarter	27.3	-57.4	23.8	-57.6
2nd quarter	21.7	-61.0	19.3	-59.5
3rd quarter	18.5	-61.0	16.4	-59.6
4th quarter	16.2	-54.4	14.2	-53.0
2010 1st quarter ¹	14.0	-48.8	12.3	-48.2

¹ Provisional

Table 2(b) Seasonally Adjusted Indices of Production in Non-Residential Building**Base: Year 2005 = 100**

Period	Total Production in all Building and Construction			
	Value of Production		Volume of Production	
	Index	Annual % change	Index	Annual % change
2006	111.9	12.1	104.9	5.0
2007	118.7	6.0	106.3	1.3
2008	119.7	0.9	103.2	-2.8
2009	92.3	-22.9	81.4	-21.1
2006 1st quarter	114.5	26.6	110.2	20.7
2nd quarter	111.2	14.5	104.6	7.0
3rd quarter	107.5	5.6	99.8	-1.9
4th quarter	114.4	4.2	104.8	-3.3
2007 1st quarter	118.1	3.1	106.8	-3.0
2nd quarter	118.9	6.9	107.3	2.5
3rd quarter	120.1	11.7	106.5	6.7
4th quarter	117.5	2.7	104.4	-0.4
2008 1st quarter	122.5	3.8	106.7	-0.1
2nd quarter	121.1	1.9	104.5	-2.6
3rd quarter	117.0	-2.6	100.2	-5.9
4th quarter	118.2	0.6	101.5	-2.7
2009 1st quarter	103.7	-15.4	90.8	-14.9
2nd quarter	95.8	-21.0	84.7	-19.0
3rd quarter	90.3	-22.8	79.9	-20.3
4th quarter	79.4	-32.8	70.3	-30.8
2010 1st quarter ¹	69.4	-33.1	60.9	-32.9

¹ Provisional

Table 3(a) Annual Volume Indices of Production in all Building and Construction in the EU15, the EU27, the Euro Area and Member States 2000 to 2009 ¹

Base: Year 2005 = 100

	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
EU27	94.4	94.8	95.9	97.6	98.3	100.0	103.7	105.8	102.6	93.6
EU15	94.6	95.1	96.3	98.1	98.6	100.0	103.2	104.8	100.9	92.0
Euro Area (EA 16)	96.7	97.1	97.5	98.3	98.1	100.0	103.7	104.9	100.2	92.1
Belgium	113.6 ^p	111.7 ^p	108.5 ^p	105.4 ^p	103.6 ^p	99.9 ^p	103.1 ^p	105.5 ^p	104.2 ^p	97.3 ^p
Bulgaria	45.3 ^s	51.9 ^s	53.4 ^s	56.2 ^s	75.8 ^s	100.2 ^s	124.2 ^s	158.8 ^s	153.1 ^{ps}	131.2 ^{ps}
Czech Republic	70.5	78.0	80.2	87.7	95.1	100.2	106.6	114.0	113.4	112.9
Denmark	103.3 ^e	95.9	95.0	97.4	97.1	100.0	104.3	107.8	101.8	85.9
Germany	131.1	121.1	116.0	111.1	105.2	99.7	106.0	109.1	108.3	108.4
Estonia	53.7	55.9	68.6	72.7	81.9	100.2	127.2	144.4	125.3	89.7
Ireland	65.1	67.3	68.7	72.6	91.0	100.0	102.9	89.3	63.0	40.0
Greece	139.2	148.3	206.3	194.5	163.5	100.2	103.8	118.7	127.7	101.6
Spain	79.7 ^p	82.1 ^p	82.6 ^p	88.5 ^p	90.6 ^p	99.8 ^p	102.0 ^p	97.6 ^p	81.6 ^p	72.6 ^p
France	100.2	101.5	99.1	98.4	97.1	99.9	104.0	105.8	106.5	100.6
Italy	84.6	89.9	94.6	97.2	98.7	100.0	103.9	110.5	110.1	97.6
Cyprus	81.7	84.7	87.5	93.1	97.3	100.0	104.1	111.2	113.7	101.4 ^p
Latvia	57.0	60.5	67.8	76.7	86.8	100.3	113.6	129.1	125.1	81.4
Lithuania	51.1	54.9	66.8	85.4	91.2	100.3	122.0	149.1	155.2	79.9
Luxembourg	95.3	99.3	101.2	102.1	100.9	100.0	102.5	105.2	103.1	104.2
Hungary	62.6	68.4	80.7	82.9	86.5	100.1	99.4	85.5	81.0	77.5
Malta	85.7	82.4	101.4	95.7	95.9	100.1	108.3	110.2	112.8	110.6 ^p
Netherlands	107.3	107.1	104.7	99.1	96.6	99.9	102.5	108.5	114.5	107.3 ^e
Austria	81.1	80.6	81.0	91.0	95.5	100.2	106.1	110.2	109.2	107.2
Poland	125.9	112.0	100.7	93.4	91.7	100.3	115.9	134.8	148.4	155.0
Portugal	115.7	121.1	119.8	109.5	104.8	100.0	93.7	90.0	88.9	83.0
Romania	77.7	86.5	90.5	93.3	94.8	100.9	116.6	155.2	196.7	166.7
Slovenia	92.2	82.5	88.7	97.3	97.9	99.8	115.5	136.9	158.1	125.0
Slovakia	74.9	75.3	78.5	83.1	87.8	100.5	116.3	122.4	136.6	121.3
Finland	86.3 ^e	86.3 ^e	87.5 ^e	91.2 ^e	95.2 ^e	100.1 ^e	107.9 ^e	118.9 ^e	123.8 ^e	107.3 ^e
Sweden	91.7	96.7	97.0	97.0	97.0	100.0	108.0	114.6	119.5	115.3
United Kingdom	87.0	87.9	92.0	97.1	100.5	100.0	101.4	103.8	102.4	90.6 ^p

: Data not available, e Estimated value, p Provisional data, s Eurostat estimate

Source: Eurostat

Data updated from previous publication

The Euro Area (EA16) consists of Belgium, Germany, Ireland, Greece, Spain, France, Italy, Cyprus, Luxembourg, Malta, the Netherlands, Austria, Portugal, Slovenia, Finland and Slovakia.

¹ Working Day Adjusted Series

Table 3(b) Volume of Production in All Building and Construction in the EU27, the EU15, the Euro Area and Member States, annual % changes q1 2008 to q1 2010¹

Base: Year 2005 = 100

	Q12008	Q2 2008	Q3 2008	Q4 2008	Q1 2009	Q2 2009	Q3 2009	Q4 2009	Q1 2010
EU27	0.6	-1.7	-3.1	-7.6	-10.7	-8.9	-9.0	-6.4	-7.8
EU15	0.2	-2.4	-3.8	-8.3	-10.9	-9.0	-9.2	-6.4	-7.3
Euro Area (EA16)	-0.5	-3.6	-4.7	-8.5	-10.0	-7.6	-9.1	-6.0	-9.9
Belgium	-2.3 ^p	5.9 ^p	0.1 ^p	-8.8 ^p	-3.9 ^p	-10.8 ^p	-5.8 ^p	-5.3 ^p	-6.2 ^p
Bulgaria	-3.4 ^{ps}	-0.8 ^{ps}	-2.7 ^{ps}	-7.2 ^{ps}	-5.3 ^{ps}	-10.7 ^{ps}	-16.9 ^{ps}	-23.6 ^{ps}	-26.1 ^{ps}
Czech Republic	0.6	-2.9	4.7	-3.5	-10.2	1.9	1.1	1.6	-21.4
Denmark	-5.2	-4.2	-6.1	-6.6	-10.3	-17.0	-15.7	-19.4	-24.4
Germany	3.1	-1.0	-1.2	-2.4	-12.2	4.0	3.3	1.9	-8.9
Estonia	-3.7	-6.4	-18.9	-20.5	-31.3	-28.4	-28.5	-25.8	-34.2
Ireland	-22.5	-30.0	-29.4	-36.4	-37.2	-38.1	-35.4	-34.5	-34.4^p
Greece	14.9	24.6	3.3	-3.8	-13.8	-13.9	-20.7	-30.2	-19.7 ^p
Spain	-9.4 ^p	-17.3 ^p	-18.6 ^p	-19.7 ^p	-10.9 ^p	-11.6 ^p	-17.8 ^p	-4.2 ^p	-12.9 ^p
France	2.8	0.9	2.0	-2.9	-6.1	-4.9	-6.0	-5.0	-5.1
Italy	2.8	1.6	1.4	-6.8	-12.6	-11.2	-13.4	-8.3	-6.6
Cyprus	9.0	3.9	2.8	-4.9	-8.9	-10.6	-10.4	-13.3 ^p	: ^{cp}
Latvia	11.1	5.5	-7.4	-11.4	-29.7	-32.4	-36.8	-38.5	-43.4
Lithuania	19.3	10.0	4.1	-9.2	-42.8	-48.0	-49.3	-52.3	-42.9
Luxembourg	-4.4	1.2	-1.1	-3.9	0.7	-4.1	5.5	3.1	-1.2
Hungary	-15.9	-4.6	-4.3	1.3	-5.0	-0.5	-4.1	-7.4	-10.2
Malta	1.3	2.7	2.5	3.0	1.5	-1.5	-2.9 ^p	-4.9 ^p	-4.8 ^p
Netherlands	9.7	6.9	3.8	1.6	-1.7 ^e	-5.7 ^e	-7.3 ^e	-10.8 ^e	-19.5 ^e
Austria	3.2	-0.7	-2.3	-2.0	-5.5	-3.1	-0.9	0.3	-5.3
Poland	16.7	17.6	9.0	3.4	2.7	1.3	8.4	4.2	-15.4
Portugal	0.5	-2.4	-0.8	-2.1	-6.4	-4.7	-7.0	-8.4	-7.5
Romania	35.0	41.0	27.7	14.6	2.9	-15.5	-21.8	-17.3	-21.2
Slovenia	32.3	16.9	15.6	4.3	-19.1	-19.0	-24.4	-20.5	-18.8
Slovakia	11.7	10.0	10.9	14.2	-13.4	-5.3	-8.1	-18.1	-13.8
Finland	10.1 ^e	7.4 ^e	7.8 ^e	-5.8 ^e	-15.6 ^e	-19.1 ^e	-11.6 ^e	-7.7 ^e	1.6 ^e
Sweden	2.1	11.1	3.4	0.7	-3.9	-3.0	-2.4	-4.5	3.4
United Kingdom	2.9	1.1	-0.9	-8.0	-14.6 ^p	-14.1 ^p	-10.0 ^p	-7.3 ^p	1.2 ^p

: Data not available, c Confidential, e Estimated Value, p Provisional data, s Eurostat estimate

Source: Eurostat

Data updated from previous publication

The Euro Area (EA16) consists of Belgium, Germany, Ireland, Greece, Spain, France, Italy, Cyprus, Luxembourg, Malta, the Netherlands, Austria, Portugal, Slovenia, Finland and Slovakia.

¹ Working Day Adjusted Series

Background Notes

Production in Building & Construction Index	<p>The quarterly production in building and construction index provides quarterly statistics on output in the sector. The index monitors trends in the value and the volume of production in building and construction. The primary purpose of the index is to measure changes in value added at constant prices.</p> <p>The principal difference between the value and volume indices is that the volume index traces the quantitative volume of production (i.e. effect of price changes excluded) each quarter. The Capital Goods price index for Building and Construction was used as the price deflator for this series.</p> <p>This series is also available using the interactive tables in the CSO's Database Direct on www.cso.ie.</p>
Reference Periods	The production in building and construction index is carried out on a quarterly basis (i.e. the first quarter covers January, February and March etc.).
Base Year	The set of indices, based on the Laspeyres Index, has been compiled with reference to base year 2005 = 100. The underlying structural weighting system is based on annual output in the Building and Construction sector as published in the DKM Economic Consultants Review of the Construction Industry for the year 2007, which presents annual output for reference year 2005.
Legal Basis	The survey is carried out in accordance with the Statistics (Quarterly Survey of Construction) Order 2009, Number 73 made under the 1993 Statistics Act. The statistics are also required for EU comparisons under Council Regulation (EC) No. 1165/98 which has been amended by Regulation (EC) No. 1893/2006 with the introduction of NACE Rev. 2.
Scope and Coverage	The production in building and construction index covers, on a sample basis, the production of all firms in the private (i.e. non-State) sector whose main activity is building, construction or civil engineering i.e. firms classified to division F of the Statistical Classification of Economic Activities in the European Community (NACE Rev. 2). Approximately 2,000 firms are surveyed each quarter.
Seasonal Adjustment	<p>Seasonal Adjustment is conducted using the direct seasonal adjustment approach. Under this approach, each individual series is independently adjusted. Each individual seasonally adjusted series is calculated based on working day adjusted data.</p> <p>The adjustments are completed by applying the X-12-ARIMA model, developed by the U.S. Census Bureau to the working day adjusted data. This methodology estimates seasonal factors while also taking into consideration factors that impact on the quality of the seasonal adjustment such as:</p> <ul style="list-style-type: none"> • Outliers and level shifts in the series. <p>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", <i>Journal of Business & Economic Statistics</i>, 16, pp. 127-177.) and www.census.gov/srd/www/x12a/.</p>
Methodology	A detailed description of the methodology is available on the CSO website at: http://www.cso.ie/surveysandmethodologies/documents/pdf_docs/qsc_methodology.pdf
Revisions	The series have been revised to take account of some methodological improvements, such as modifications to aggregation, the introduction of a working day adjusted series and the incorporation of updated deflators for Building and Construction Materials and Wages. Late returns have also been incorporated into the series.

Comparison with other national series

The CSO considers the results of this QSC survey to be experimental and the methodology is still under review. There are differences (due to timing, definitions and other factors) between the quarterly and annual trends measured by this survey and by other national data sources. In particular the quarterly series from the QSC show considerable volatility. Table A, below, compares the main *annual* results of the survey with national employment and house building indicators.

The series shows a decrease of 40.3% in the annual volume of production in building and construction, between 2000 and 2009. In the same period, employment in the sector, as measured by the QNHS, decreased by 8.6%.

For residential buildings, the QSC shows a decrease of 69.1% in the annual volume of production between 2000 and 2009, whereas the house completions series shows a decrease of 46.9%. These two series also show substantially different trends between 2008 and 2009.

Data on house-building commencements, a relatively new leading indicator, are also included in Table A. This indicator suggests a substantial slowdown in residential building in 2009 compared to 2008.

Table A: Comparison of Building and Construction sector indicators

New CSO Series			Other Indicators		
Seasonally Adjusted Volume of production in building and construction ³	Seasonally Adjusted Volume of production in civil engineering ³	Seasonally Adjusted Volume of production in residential building ³	Persons Employed in the Construction Sector ¹	House Completions ²	House Commencement Notices ²
Index	Index	Index	No.	No.	No.
2005=100	2005=100	2005=100			
2006	102.7	111.2	251,600	88,187	75,602
2007	89.2	116.6	269,900	78,027	48,876
2008	63.1	109.1	241,400	51,724	22,852
2009	40.2	95.9	155,400	26,420	8,604

¹ Quarterly National Household Survey, April - June quarter, NACE Rev. 2.

² Source Department of the Environment, Heritage and Local Government.

³ Seasonally Adjusted series introduced in Q1 2010.