



**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

# United Kingdom Minerals Yearbook 2013

Minerals and Waste Programme

Open Report OR/14/036





BRITISH GEOLOGICAL SURVEY

MINERALS AND WASTE PROGRAMME

OPEN REPORT OR/14/036

# United Kingdom Minerals Yearbook 2013

Statistical data to 2012

T. Bide, T. J. Brown, S. F. Hobbs and N. Idoine

*Keywords*

United Kingdom, minerals,  
production, imports, exports.

*Front cover*

Muir Dean surface mine,  
Crossgates, Fife operated by  
Hargreaves Services plc.  
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# Explanatory notes

**Coverage:** Except where otherwise stated all the statistics shown relate to the United Kingdom of Great Britain and Northern Ireland.

The Channel Islands and the Isle of Man are also included in the 'United Kingdom' overseas trade statistics, but are excluded from the production statistics. The UK part of the Continental Shelf is included in both the overseas trade and the production statistics.

All figures for the latest year shown are provisional and subject to revision.

**Rounding of figures:** In tables where figures have been rounded to the nearest final digit, there may be a slight discrepancy between the sums of the constituent items and the total as shown.

**Units:** The statistics in this volume are expressed in metric units. The following factors are given for converting from or into non-metric units:

<i>Troy ounce</i>	<i>Kilogram</i>
1	= 0.0311035
32.1507	= 1

<i>Pound</i>	<i>Kilogram</i>
1	= 0.453592
2.20462	= 1

<i>Hundredweight</i>	<i>Kilogram</i>
1	= 50.8023
0.019684	= 1

<i>Long ton</i>	<i>Tonne</i>
1	= 1.01605
0.984206	= 1

<i>Square yard</i>	<i>Square metre</i>
1	= 0.836127
1.19599	= 1

<i>Cubic yard</i>	<i>Cubic metre</i>
1	= 0.764555
1.30795	= 1

<i>UK gallon</i>	<i>Litre</i>
1	= 4.54596
0.2199755	= 1

**Symbols:** The following symbols are used throughout:

...	Figures not available
0	Quantity less than half the unit shown
—	Nil
nes	Not elsewhere specified
BGS	British Geological Survey

**Apparent consumption:** BGS estimates of apparent consumption of metals are based on the formula: production (primary and secondary) plus imports minus exports. All the main traded forms of the metal are taken into account, for example, ores, concentrates, intermediate products, unwrought metal and alloys, oxides, etc. Figures are given in terms of metal content. No information is available for stock changes. Such estimates of apparent consumption are made for metals for which there are no reported consumption statistics: in this edition data are given for chromium, cobalt, manganese, molybdenum, titanium and zirconium.

**Trade:** Trade figures from INTRASTAT, the system for measuring intra-EC trade became available from 1993. This was introduced following the abolition of customs controls as a result of the Single Market and trade figures are now compiled



from data provided directly from companies instead of Customs documents. Extra-EC trade continues to be collected from Customs declarations as before. The transition from one system to another has produced some anomalous figures in terms of the size of the trade in and unit value of certain commodities. These factors should be taken into consideration when evaluating trends. Figures given in this edition are the combined intra and extra-EC trade data.

Values of commodities are c.i.f. (Cost, Insurance and Freight) for imports and f.o.b. (free on board) for exports.

The terms 'scrap', 'unwrought' and 'wrought' metal include alloys unless these are separately shown.

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### Sources of information

In compiling this volume the BGS has largely relied upon data originally collected by other bodies. A list of the departments and organisations concerned is given below, together with the titles of principal publications that have been used. In many cases the BGS has also been provided with supplementary or unpublished information. Interested readers are strongly advised to consult the original sources themselves wherever possible and in this connection may wish to refer not only to the publications as listed here, but also earlier issues in the same series, some of which were published under different titles.

Information about the production of minerals in the United Kingdom is given from 1853 to 1881 in a series of Geological Survey Memoirs entitled *Mineral Statistics*, by Robert Hunt, Keeper of Mining Records; earlier information for certain metalliferous minerals is also available. Since 1873 all collieries and metalliferous mines have been required by statute to complete annual returns of production, and since 1895 the same has applied to quarries. These returns were made to the Home Office, which, in 1882, was made responsible for the publication of *Mineral Statistics*. In 1920 responsibility for collection of returns was transferred to the Mines Department (Board of Trade) and statistics were subsequently published in the Annual Reports of the Secretary of Mines. The Mines Department was incorporated into the Ministry of Fuel and Power in 1942 and statistics from 1938 to 1972 were published in their Statistical Digests (subsequently the Digests of Energy Statistics of the Department of Trade and Industry). In 1973 responsibility for the collection of returns relating to most minerals other than fuels was transferred to the Business Statistics Office (formerly part of the Department of Trade and Industry, now the Office for National Statistics). The Department of Energy and Climate Change, collects statistics relating to hydrocarbons (natural gas and crude petroleum). Statistics on coal production are now collected by The Coal Authority. Returns of sand and gravel were collected by the Department of the Environment up to 1974. Details of mineral production in Northern Ireland since 1922 have been obtained by the Northern Ireland Government.

1853–1881 *Mineral Statistics*, by Robert Hunt, Keeper of Mining Records; Memoirs of the Geological Survey  
1882–1896 *Mineral Statistics*; Home Office  
1897–1919 *Mines and Quarries: General Report with Statistics*; Home Office  
1920 *Mines and Quarries: General Report with Statistics*; Mines Department, Board of Trade  
1921–1938 *Annual Report of the Secretary of Mines*; Mines Department, Board of Trade (Great Britain only from 1922)  
1938–1972 *Statistical Digest*; Ministry of Fuel and Power (Great Britain only)  
1973–2014 *Digest of United Kingdom Energy Statistics*; Department of Energy and climate change (formerly published by Department for Business Enterprise and Regulatory Reform, Department of Trade and Industry or Department of Energy)  
1973–1993 *Minerals (PA1007)*; Central Statistical Office  
1994–2014 *Mineral Extraction in Great Britain (PA 1007)*; Office for National Statistics  
1922–1949 *Annual Report of the Mining and Quarrying industries in Northern Ireland*; Ministry of Commerce (Northern Ireland)  
1950–1981 *Mineral Production in Northern Ireland*; Department of Commerce (Northern Ireland)  
1982–1995 *Mineral Production in Northern Ireland*; Department of Economic Development (Northern Ireland)  
1996–1998 *Annual Minerals Statement*; Department of Economic Development (Northern Ireland)  
1999–2009 *Annual Minerals Statement*; Department of Enterprise, Trade and Investment (Northern Ireland)

Department of Energy and Climate Change: *Digest of United Kingdom Energy Statistics (annual)*

Department for Business, Innovation and Skills: *Monthly Statistics of Building Materials and Components, BIS website for construction information*

Office for National Statistics, UK Statistics Authority, Website: [www.statisticsauthority.gov.uk](http://www.statisticsauthority.gov.uk) or [www.statistics.gov.uk](http://www.statistics.gov.uk), *Monthly Digest of Statistics, Mineral Extraction in Great Britain (annual), United Kingdom National Accounts*

HM Customs and Excise: *Overseas Trade Statistics (monthly, quarterly and annual), Guide to the Classification for Overseas Trade Statistics*

Crown Estate Commissioners, The Crown Mineral Agent

Department of Enterprise, Trade & Investment (Northern Ireland), *Annual Mineral Statement*

Department of Trade and Industry (Isle of Man)

Advisory and Finance Committee (Guernsey)

UK Iron and Steel Statistics Bureau, *Annual Statistics*

World Bureau of Metal Statistics, *World Metal Statistics (monthly)*

International Fertilizer Industry Association

Mineral Products Association (MPA), formerly the Quarry Products Association (QPA)

The Coal Authority

**Trade in minerals and mineral-based products compared with total trade 2006–2012**

£ million

SITC section	2006	2007	2008	2009	2010	2011	2012	
<b>Imports (c.i.f.)</b>								
0, 1	Food, beverages, tobacco	24 685.3	26 351.5	30 570.8	31 840.9	33 415.9	36 068.8	36 832.9
2, 4	Basic materials	8 497.5	10 115.7	11 411.2	8 096.0	10 731.6	12 418.4	11 186.1
	of which: Minerals	3 420.9	4 559.3	5 498.4	2 932.5	4 719.3	5 674.3	4 784.6
3	Fuels and related materials	29 531.8	29 470.4	44 289.5	31 721.3	40 857.5	56 753.1	60 498.6
	of which: Mineral-based	29 098.4	29 231.9	43 906.3	31 461.9	40 531.9	56 285.8	59 824.5
	Manufactured goods:							
5, 6	Semi-manufactures	71 723.1	76 718.3	81 638.4	76 663.1	90 246.6	99 988.3	101 430.9
	of which: Mineral-based	31 348.9	39 877.0	35 062.3	31 135.8	38 973.1	45 038.1	45 428.1
7, 8	Finished manufactures	166 367.3	166 661.7	171 678.0	157 080.1	183 328.1	186 824.7	190 943.8
	<b>Total</b>	<b>300 805.0</b>	<b>309 317.6</b>	<b>339 588.1</b>	<b>305 401.4</b>	<b>358 579.6</b>	<b>392 053.5</b>	<b>400 892.4</b>
	All traded goods							
	of which: Mineral-based	63 868.3	73 668.1	84 467.0	65 530.3	84 224.3	106 998.2	110 037.2
	As % of all traded goods	21.2	23.8	24.9	21.5	23.5	27.3	27.4
<b>Exports (f.o.b.)</b>								
0, 1	Food, beverages, tobacco	11 080.1	11 752.6	13 670.8	14 398.2	16 027.4	18 125.2	17 917.4
2, 4	Basic materials	4 906.1	5 473.8	6 558.5	5 160.0	7 288.5	8 941.0	8 390.4
	of which: Minerals	2 893.7	3 372.5	4 141.9	2 998.0	4 556.1	5 574.8	4 921.1
3	Fuels and related materials	23 976.1	23 147.4	33 595.7	25 399.7	33 416.3	40 674.5	41 664.1
	of which: Mineral-based	23 872.3	23 035.7	33 485.2	25 239.0	33 212.1	40 536.4	41 562.3
	Manufactured goods:							
5, 6	Semi-manufactures	65 327.6	68 344.9	76 148.4	71 385.9	79 884.7	87 742.3	84 916.0
	of which: Mineral-based	28 775.7	30 464.8	33 924.9	27 555.7	33 361.0	38 755.8	35 332.6
7, 8	Finished manufactures	137 485.6	110 304.8	117 063.9	106 773.0	123 510.2	136 474.3	139 692.2
	<b>Total</b>	<b>242 775.5</b>	<b>219 023.5</b>	<b>247 037.2</b>	<b>223 116.7</b>	<b>260 127.1</b>	<b>291 957.3</b>	<b>292 580.1</b>
	All traded goods							
	of which: Mineral-based	55 541.6	56 873.0	71 552.0	55 792.7	71 129.3	84 867.0	81 816.0
	As % of all traded goods	22.9	26.0	29.0	25.0	27.3	29.1	28.0

This table no longer includes Section 9 'other commodities' as the data for monetary gold is no longer available, Section 9 has been removed from previous years so comparisons can be maintained.

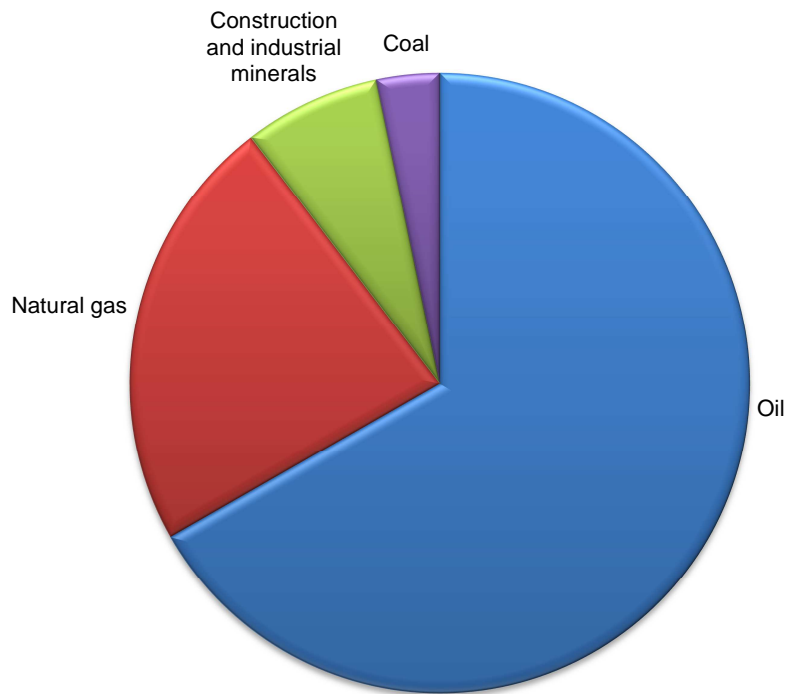
**Balance of trade in minerals and mineral-based products 2008–2012**

£ million (a)

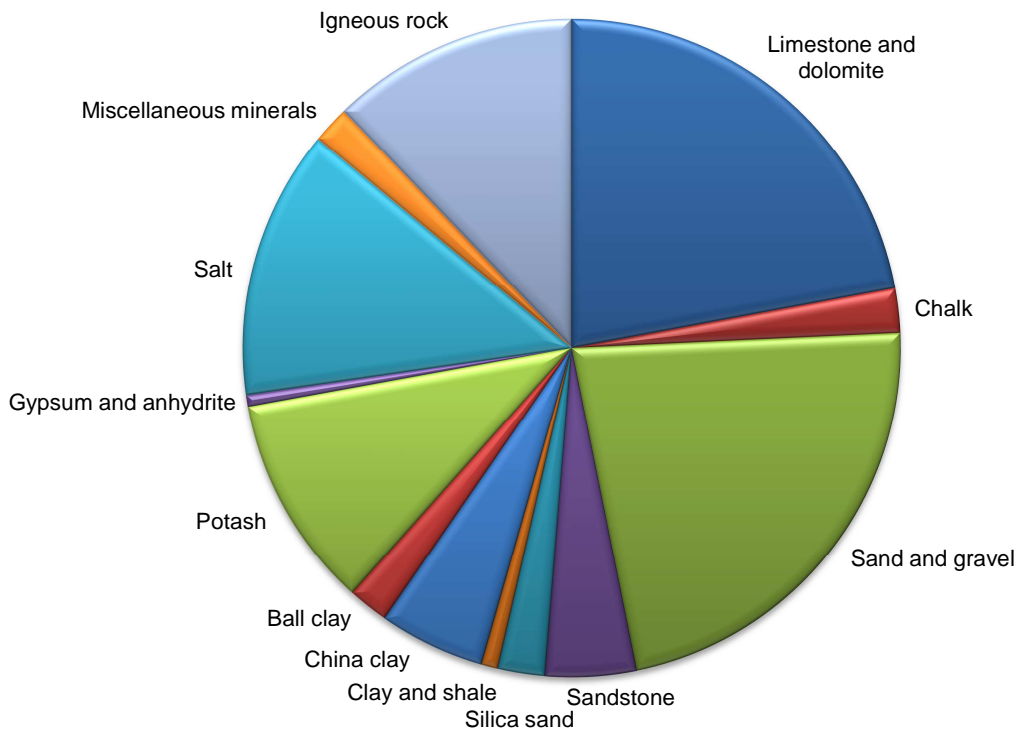
SITC (R3) divisions	2008	2009	2010	2011	2012	
27	Crude minerals and fertilisers:					
	imports	554.7	448.6	551.3	635.6	607.6
	exports	497.1	492.8	478.6	520.0	436.8
		-57.6	+44.1	-72.7	-115.6	-107.8
28	Metal ores and scrap:					
	imports	4 943.7	2 483.9	4 168.0	5 038.7	4 197.7
	exports	3 644.8	2 505.3	4 077.5	5 054.7	4 487.8
		-1 298.9	+21.4	-90.5	+16	+290.2
32	Coal, coke and briquettes:					
	imports	3 688.4	2 702.4	1 908.2	3 026.6	3 174.4
	exports	147.1	115.5	227.7	185.1	156.4
		-3 541.2	-2 586.8	-1 680.5	-2 841.6	-3 018.0
33	Petroleum, petroleum products and related materials:					
	imports	33 325.9	23 820.8	31 519.6	43 899.5	48 639.4
	exports	30 074.4	23 038.7	29 610.8	35 956.2	37 500.0
		-3 251.5	-782.1	-1 908.8	-7 943.3	-11 139.4
34	Gas, natural and manufactured:					
	imports	6 892.1	4 938.8	7 104.1	9 359.6	8 010.8
	exports	3 263.7	2 084.7	3 373.6	4 395.1	3 905.9
		-3 628.4	-2 854.1	-3 270.5	-4 964.5	-4 104.9
51	Organic chemicals:					
	imports	8 660.3	8 420.4	9 545.8	10 260.6	10 405.0
	exports	8 322.0	8 996.7	8 761.5	9 075.7	8 987.4
		-338.3	+576.3	-784.3	-1 184.9	-1 417.6
52	Inorganic chemicals:					
	imports	2 749.3	2 749.1	2 950.6	3 528.1	3 246.7
	exports	2 885.2	2 775.4	3 399.7	2 939.4	2 864.6
		+136.0	+26.3	+449.1	-588.7	-382.1
56	Manufactured fertilisers:					
	imports	379.3	188.0	329.1	324.7	836.1
	exports	197.0	169.7	133.0	158.3	183.8
		-182.3	-18.3	-196.1	-166.3	-652.5
53–59 (part)	Miscellaneous chemical products:					
	imports	4 196.2	4 586.8	5 822.9	6 595.7	6 260.6
	exports	3 750.9	3 423.3	4 830.6	5 617.8	5 186.6
		-445.3	-1 163.5	-992.4	-977.9	-1 073.9
66	Non-metallic mineral products:					
	imports	7 136.4	5 823.3	7 377.5	8 466.1	8 415.2
	exports	6 303.0	4 955.4	6 482.4	7 406.2	7 570.4
		-833.4	-868.0	-895.1	-1 059.9	-844.8
67	Iron and steel:					
	imports	5 136.0	2 708.4	3 884.5	4 962.6	6 354.4
	exports	5 314.1	3 067.6	3 740.1	4 528.0	5 726.0
		+178.1	+359.2	-144.4	-434.7	-628.4
68	Non-ferrous metals:					
	imports	6 567.3	6 448.7	8 850.4	10 321.6	12 715.2
	exports	6 910.2	3 973.6	5 822.0	8 572.6	6 783.8
		+342.9	-2 475.1	-3028.4	-749.1	-5 931.4
69	Manufactures of metal:					
	imports (b)	237.5	211.0	212.2	289.3	326.7
	exports (b)	242.5	194.1	191.7	228.9	280.3
		+5.0	-17.0	-20.5	-60.4	-46.4
96	Coin other than gold:					
	imports	4.7	2.9	3.7	6.1	10.9
	exports	48.2	76.9	40.3	42.2	12.8
		+43.5	+74.0	+36.6	+36.0	+1.9
	<b>Total (excluding gold)</b>					
	imports	<b>84 471.8</b>	<b>65 533.2</b>	<b>84 228.0</b>	<b>106 714.8</b>	<b>113 200.5</b>
	exports	<b>71 600.2</b>	<b>55 869.6</b>	<b>71 169.5</b>	<b>84 680.2</b>	<b>84 082.5</b>
		<b>-11 572.5</b>	<b>-8 500.1</b>	<b>-9 469.24</b>	<b>-21 066.9</b>	<b>-29 055.1</b>
97	Gold (non-monetary):					
	imports	486.0	386.8	976.0	...	...
	exports	815.5	1 478.9	2 137.4	...	...
		+329.4	+1 092.1	+1 161.4	...	...
	<b>Total</b>					
	imports	<b>84 957.9</b>	<b>65 920.0</b>	<b>85 204.0</b>	...	...
	exports	<b>72 415.7</b>	<b>57 348.5</b>	<b>73 306.9</b>	...	...
		<b>-12 542.2</b>	<b>-8 571.5</b>	<b>-11 897.1</b>	...	...
	Gold (monetary):					
	imports	13 010.0	23 336.9	19 202.5	...	...
	exports	7 725.2	1 082.7	6 213.8	...	...
		-5 284.9	-22 254.2	-12 988.7	...	...
	<b>Grand total</b>					
	imports	<b>97 967.9</b>	<b>89 256.8</b>	<b>104 406.5</b>	...	...
	exports	<b>80 140.8</b>	<b>58 431.1</b>	<b>79 520.7</b>	...	...
		<b>-17 827.0</b>	<b>-30 825.7</b>	<b>-24 885.8</b>	...	...

(a) Imports are valued c i f and exports are valued f o b.  
As of 2011 information regarding trade in gold is no longer available.

**Value of United Kingdom minerals production 2012  
(total value £34 422 million)**



**Value of United Kingdom construction and industrial minerals production 2012  
(total value £2460 million)**



**Approximate value (a) of minerals produced in the United Kingdom 2006–2012**

£ million

Mineral	2006	2007	2008	2009	2010	2011	2012
Coal	705	708	1 154	973	1 002	1 345	1 131
Natural gas	11 741	9 377	10 612	7 570	7 590	7 960	7 855
Natural gas liquids	1 910	1 749	2 204	... (b)	... (b)	... (b)	... (b)
Crude petroleum	17 935	18 979	25 102	19 075	23 110	25 505	22 975
Iron ore	0	0	0	—	—	—	—
Tin	—	—	—	—	—	—	—
Gold	—	1	3	4	4	6	3
Silver	—	0	0	1	5	4	2
Other non-ferrous metals	0	0	0	0	0	0	0
Sand and gravel	818	811	814	640	630	661	555
Limestone and dolomite	756	686	777	518	589	566	543
Igneous rock	374	392	426	336	320	319	300
Sandstone	143	135	120	106	116	113	110
Chalk	101	117	93	43	56	74	54
Clay and shale	27	27	19	14	17	24	20
China clay	155	142	137	122	128	137	128
Ball clay	81	60	65	47	53	57	49
Fuller's earth	—	—	—	—	—	—	—
Salt	195	285	186	405	530	424	326
Silica sand	72	69	67	53	57	57	57
Potash	64	60	61	240	279	246	259
Fluorspar	7	7	5	3	4	—	—
Gypsum and anhydrite	19	19	14	14	14	14	14
Miscellaneous minerals	49	49	46	48	42	45	40
<b>Total</b>	<b>35 152</b>	<b>33 673</b>	<b>41 907</b>	<b>30 212</b>	<b>34 550</b>	<b>37 557</b>	<b>32 422</b>

**At 2010 constant prices**

Coal	784	770	1 216	1 003	1 002	1 315	1 090
Oil and gas	35 135	32 758	39 956	27 469	30 700	32 713	29 701
Metals	0	1	3	4	4	6	3
Construction and industrial minerals	3 182	3 111	2 982	2 669	2 835	2 675	2 365
<b>Total</b>	<b>39 101</b>	<b>36 641</b>	<b>44 157</b>	<b>31 145</b>	<b>34 541</b>	<b>36 709</b>	<b>33 159</b>

(a) Calculated on an ex-works sales basis.

Source: British Geological Survey.

(b) Included in gas and petroleum figures.

**United Kingdom approximate value of minerals produced onshore and offshore 2005–2012**

£ million

	2006	2007	2008	2009	2010	2011	2012
Onshore	5 668	5 459	6 389	3 752	4 113	4 277	3 963
Offshore	29 485	28 214	35 518	26 459	30 437	33 280	30 460
<b>Total</b>	<b>35 153</b>	<b>33 672</b>	<b>41 907</b>	<b>30 211</b>	<b>34 550</b>	<b>37 557</b>	<b>34 422</b>

Source: British Geological Survey.

### Value of the major sectors of the minerals industry in the UK, 2009-2012

	£ million			
	2009	2010	2011	2012
Oil and natural gas liquids	19 075	23 110	25 505	22 975
Natural gas	7 570	7 590	7 960	7 855
Coal	973	1 002	1 345	1 131
Aggregates	1 425	1 377	1 410	1 279
Other construction minerals	229	307	283	256
Industrial minerals	935	1 154	1 074	922
Metalliferous minerals	6	10	11	5
<b>Total</b>	<b>30 212</b>	<b>34 540</b>	<b>37 557</b>	<b>34 422</b>

Source: British Geological Survey.

### United Kingdom mining and quarrying: Gross value added (a) 2006-2013

	£ million							
	2006	2007	2008	2009	2010	2011	2012	2013
<b>Production</b>								
Mining and quarrying								
Mining and quarrying of energy producing materials								
Mining of coal and lignite	263	318	380	322	335	322	208	131
Extraction of crude petroleum and natural gas	26 144	25 432	29 851	20 752	25 031	25 754	22 018	19 745
Other mining and quarrying	2 163	2 301	2 408	2 100	2 242	2 359	2 448	3 303
<b>Total mining and quarrying</b>	<b>30 895</b>	<b>30 437</b>	<b>35 363</b>	<b>25 340</b>	<b>30 412</b>	<b>31 380</b>	<b>27 890</b>	<b>26 531</b>
<b>All industries</b>	<b>1 204 839</b>	<b>1 274 875</b>	<b>1 312 112</b>	<b>1 280 261</b>	<b>1 327 923</b>	<b>1 360 925</b>	<b>1 383 166</b>	<b>1 428 019</b>
of which: minerals related (%)	3	2	3	2	2	2	2	2

(a) At current basic prices.

Source: Office for National Statistics.

## United Kingdom employment in the minerals industry, 2012

Mineral	2012			Number
	Great Britain (a)			Northern Ireland
	Mines (c)	Quarries	Total	
Ball clay	—	...	...	—
Chalk	—	330	330	...
Chert and flint	—	...	...	—
China clay	—	...	...	—
Clay and shale	—	386	386	...
Coal	3 754	2 450	6 193	—
Dolomite	—	340	340	—
Fireclay	...	5	5	...
Gypsum and anhydrite	...	...	...	—
Igneous rock	—	1 440	1 440	...
Limestone	—	2 090	2 090	...
Oil and gas	—	—	(b)	—
Peat	—	239	239	—
Potash	...	...	...	—
Salt	...	...	...	...
Sand and gravel	—	2 039	2 039	...
Sandstone	—	959	959	...
Silica sand	...	100	100	—
Silica stone	...	...	...	—
Slate	...	...	...	—
Soapstone and talc	...	...	...	—
Others (including ore minerals)	...	...	1 664	...

(a) Where more than one mineral is extracted at a mine or quarry all employment is attributed to the chief mineral.

(b) Oil and Gas UK estimates the workforce employed on the UK Continental Shelf at 450 000, of which 36 000 are directly employed by exploration and production companies.

(c) Including surface and underground workers at mines.

These figures should not be used for time series analysis due to changes in question format over recent years.

Sources: Office for National Statistics, Department of Enterprise Trade and Investment (Northern Ireland), The Coal Authority, Department for Business Innovation and Skills.



# United Kingdom production of minerals 2006–2013

Thousand tonnes

Mineral	2006	2007	2008	2009	2010	2011	2012	2013 (Estimated)
<b>Coal:</b>								
Deep-mined	9 444	7 674	8 096	7 520	7 390	7 312	6 153	<b>4 089</b>
Opencast	8 635	8 866	9 509	9 854	10 426	10 580	10 134	<b>8 584</b>
Other (a)	438	467	449	500	600	735	760	<b>167</b>
<b>Natural gas and oil:</b>								
<b>Methane (oil equivalent)</b>								
Colliery	65	62	63	67	63	58	61	<b>60</b>
Onshore	91	105	92	89	88	27	15	
Offshore	79 856	71 957	69 525	59 581	57 036	45 204	38 858	
<b>Crude oil</b>								
Onshore	1 379	1 271	1 248	1 181	941	678	870	<b>38 456</b>
Offshore	68 287	69 086	64 249	61 639	57 106	47 893	41 182	
<b>Condensates and other (c)</b>								
Onshore	41	38	33	32	17	0	13	<b>2 190</b>
Offshore	6 872	6 180	6 135	5 346	4 898	3 401	2 495	
Iron ore	0.4	0.3	0.1	—	—	—	—	—
<b>Non-ferrous ores (metal content):</b>								
Tin	—	—	—	—	—	—	—	—
Lead (h)	0.4	0.3	0.3	0.2	0.3	0.3	0.1	<b>0.0</b>
Gold (kg)	...	88	163	187	177	202	102	<b>42</b>
Silver (kg)	—	212	398	514	506	531	230	<b>82</b>
Chalk (e)	7 376	7 566	5 874	4 047	3 626	3 996	3 473	<b>3 500</b>
Clay and shale (e)	10 432	10 104	8 459	5 310	5 934	6 154	5 497	<b>5 600</b>
Igneous rock (j) (k)	53 954	58 909	53 490	44 618	44 876	(l) 44 400	(l) 40 200	<b>40 400</b>
Limestone (excluding dolomite)	80 228	83 491	74 145	60 111	56 985	(l) 58 100	(l) 54 800	
Dolomite (excluding limestone)	12 101	7 622	5 509	3 164	4 540	4 490	4 896	
<b>Sand and gravel:</b>								
Land	71 418	72 810	66 640	50 973	47 167	(l) 45 800	(l) 41 800	<b>58 100</b>
Marine (i)	20 689	20 426	18 833	15 253	14 533	17 287	14 840	
Sandstone	18 038	16 806	12 255	12 335	11 556	(l) 12 300	(l) 11 500	<b>11 800</b>
Slate (g)	865	1 428	1 058	683	695	763	701	<b>710</b>
Ball clay (sales)	1 015	1 022	1 020	727	(h) 900	(h) 930	(h) 748	<b>740</b>
Barytes	48	53	43	36	34	31	30	<b>30</b>
Chert and flint	2	1	1	1	...	...	...	...
China clay (sales) (d)	1 762	1 671	1 355	1 060	(h) 1 140	(h) 1 290	(h) 1 150	<b>1 110</b>
China stone	1	1	0.5	0.0	0.0	0.0	0.0	<b>0.0</b>
Fireclay (e)	228	338	180	129	110	162	96	<b>100</b>
Fluorspar (h)	50	45	37	19	26	—	—	<b>30</b>
Gypsum (natural) (h)	1 700	1 700	1 200	1 200	1 200	1 200	1 200	<b>1 200</b>
Lignite	...	...	...	...	...	...	...	...
Peat (000 m <sup>3</sup> )	1 593	885	760	887	1 004	825	568	<b>600</b>
Potash (b)	716	712	673	(h) 700	(h) 700	(h) 770	(h) 900	<b>1 000</b>
Salt	5 499	5 600	5 565	6 166	6 666	6 060	6 152	<b>6 000</b>
Silica sand	5 174	4 909	4 777	3 755	4 070	3 969	3 888	<b>4 000</b>
Talc	4	3	2	3	3	4	4	<b>4</b>

(a) Slurry etc. recovered from dumps, ponds, rivers etc.

(b) Marketable product (KCl).

(c) Including ethane, propane and butane, in addition to condensates.

(d) Dry weight.

(e) Excluding a small production in Northern Ireland.

(f) BGS estimates based on data from producing companies.

(g) Slate figures include waste used for constructional fill and powder and granules used in industry.

(h) BGS estimate.

(i) Including marine-dredged landings at foreign ports (exports).

(j) Excluding a small production of granite in Northern Ireland.

(k) In addition, the following amounts of igneous rock were produced in Guernsey (thousand tonnes): 2006: 136; 2007: 160; 2008: 139; 2009: 120; 2010: 116; 2011: 156; 2012: 169 and Jersey: 2007: 295; 2008: 325; 2009: 249; 2010: 238; 2011: 220; 2012: 239.

(l) Contains an estimate related to Northern Ireland production.

Sources: Office for National Statistics, Department of Business, Innovation and Skills, Dept. of Enterprise, Trade & Investment (Northern Ireland), Crown Estate Commissioners (marine sand and gravel produced for export), and company data.

## England production of minerals 2006–2012

Thousand tonnes

Mineral	2006	2007	2008	2009	2010	2011	2012
Coal:							
Deep-mined	8 954	7 452	7 817	7 397	7 344	7 231	6 013
Opencast	966	1 619	2 139	2 137	2 689	2 949	2 956
Other (a)	...	...	...	...	...	...	...
Natural gas and oil:							
Methane (oil equivalent)							
Colliery	...	...	...	...	...	...	...
Onshore	...	...	...	...	...	...	...
Offshore	...	...	...	...	...	...	...
Crude oil							
Onshore	...	...	...	...	...	...	...
Offshore	...	...	...	...	...	...	...
Condensates and other (c)	...	...	...	...	...	...	...
Iron ore	—	—	—	—	—	—	—
Non-ferrous ores (metal content):							
Tin	—	—	—	—	—	—	—
Lead (e)	0.4	0.2	0.1	0.1	0.1	—	—
Zinc	—	—	—	—	—	—	—
Chalk	7 376	7 565	5 874	4 047	3 626	3 996	3 473
Clay and shale (b)	9 437	9 269	7 682	4 666	5 424	5 852	5 298
Igneous rock	22 076	21 865	21 056	17 846	17 460	17 428	15 646
Limestone (h)	67 356	67 378	60 738	48 751	47 569	...	...
Dolomite (i)	10 238	...	...	...	...	...	...
Limestone and dolomite	...	...	...	...	...	49 772	46 976
Sand and gravel:							
Land	56 148	54 512	61 669	37 810	36 723	36 589	33 229
Marine (f)	19 602	19 274	17 746	14 380	13 801	16 548	14 227
Sandstone	7 041	6 918	5 854	3 980	4 176	4 454	4 451
Slate (g)	...	...	...	...	...	...	...
Anhydrite	...	...	...	...	...	...	...
Ball clay (sales)	1 015	1 022	1 020	727	(e) 900	(e) 930	(e) 750
Barytes	11	10	7	3	—	—	—
Calcspars	—	—	—	—	—	—	—
Chert and flint	2	1	1	1	...	...	...
China clay (sales) (j)	1 762	1 671	1 355	1 060	(e) 1 140	(e) 1 290	(e) 1 150
China stone	1	1	0	0	(e) 0	(e) 0	(e) 0
Fireclay	213	305	168	128	108	154	...
Fluorspar (e)	50	43	37	19	26	—	—
Gypsum (natural)	(e) 1 700	(e) 1 700	(e) 1 200	(e) 1 200	(e) 1 200	(e) 1 200	(e) 1 200
Lignite	...	...	...	...	...	...	...
Peat (000 m <sup>3</sup> )	857	654	496	476	456	429	422
Potash (d)	716	712	673	700	700	770	900
Potter's clay	...	...	...	...	...	...	...
Rock salt	...	...	...	...	...	...	...
Salt	5 224	5 320	5 287	5 858	6 333	5 771	6 152
Silica sand	4 540	4 335	4 208	3 293	3 633	3 533	3 361
Silica stone and ganister	...	...	...	...	...	...	...

(a) Slurry etc. recovered from dumps, ponds, rivers etc.

(b) Including potter's clay.

(c) Including ethane, propane and butane, in addition to condensates.

(d) Marketable product (KCI).

(e) BGS estimate.

(f) Including marine-dredged landings at foreign ports (exports).

(g) Slate figures include waste used for constructional fill and powder and granules used in industry.

(h) Including dolomite for constructional uses.

(i) Dolomite and magnesian limestone used for constructional and agricultural purposes as well as for refractory, chemical and other purposes specifically dependent on the high magnesium content.

(j) Dry weight.

Sources: Office for National Statistics, Department of Business, Innovation and Skills, Crown Estate Commissioners (marine sand and gravel produced for export) and company data.

## Wales production of minerals 2006–2012

Thousand tonnes

Mineral	2006	2007	2008	2009	2010	2011	2012
Coal:							
Deep-mined	485	253	110	99	47	82	139
Opencast	1 257	1 060	1 632	1 598	1 699	2 103	2 408
Other (a)	...	...	...	...	...	...	...
Natural gas and oil:							
Methane (oil equivalent)							
Colliery	...	...	...	...	...	...	...
Onshore	—	—	—	—	—	—	—
Offshore	...	...	...	...	...	...	...
Crude oil							
Onshore	—	—	—	—	—	—	—
Offshore	...	...	...	...	...	...	...
Condensates and other (b)	...	...	...	...	...	...	...
Non-ferrous ores (metal content):							
Gold	—	—	—	—	—	—	—
Clay and shale	604	405	104	151	...	165	141
Igneous rock	2 596	2 474	3 028	1 932	2 294	2 450	1 769
Limestone (d)	13 707	14 549	12 114	8 131	7 878	...	...
Dolomite (e)	...	...	...	...	...	...	...
Limestone and dolomite	...	...	...	...	...	7 897	7 938
Sand and gravel:							
Land	1 528	1 187	1 275	795	901	870	751
Marine	1 087	1 152	1 086	873	732	740	613
Sandstone	3 415	3 558	2 323	2 667	2 807	3 114	2 701
Slate (c)	...	...	...	...	...	...	...
Fireclay	—	—	—	—	—	—	—
Silica sand	92	71	62	59	...	...	86

(a) Slurry etc. recovered from dumps, ponds, rivers etc.

(b) Including ethane, propane and butane, in addition to condensates.

(c) Slate figures include waste used for constructional fill and powder and granules used in industry.

(d) Including dolomite for constructional uses.

(e) Dolomite and magnesian limestone used for constructional and agricultural purposes as well as for refractory, chemical and other purposes specifically dependent on the high magnesium content.

Sources: Office for National Statistics, Department of Business, Innovation and Skills and company data.

## Scotland production of minerals 2006–2012

Thousand tonnes

Mineral	2006	2007	2008	2009	2010	2011	2012
Coal:							
Deep-mined	—	—	—	—	—	—	—
Opencast	6 487	6 188	5 678	6 037	6 038	5 528	4 823
Other (a)	...	...	...	...	...	...	...
Natural gas and oil:							
Methane (oil equivalent)							
Colliery	...	...	...	...	...	...	...
Onshore	—	—	—	—	—	—	—
Offshore	...	...	...	...	...	...	...
Crude oil							
Onshore	—	—	—	—	—	—	—
Offshore	...	...	...	...	...	...	...
Condensates and other (b)	...	...	...	...	...	...	...
Clay and shale	390	429	674	494	...	137	57
Igneous rock	23 194	26 345	22 925	19 082	19 684	19 113	17 383
Limestone (d)	1 534	1 555	1 473	1 210	1 072	...	...
Dolomite (f)	...	...	...	...	...	...	...
Limestone and dolomite	...	...	...	...	...	1 251	1 120
Sand and gravel (land-won)	8 592	9 025	8 097	7 512	7 365	6 366	5 772
Sandstone	1 372	1 502	1 381	1 895	1 806	1 910	1 564
Slate (c)	...	...	...	...	...	...	...
Barytes	37	42	36	34	31	31	30
Fireclay	15	32	12	1	3	8	...
Honestone	...	...	...	...	...	...	...
Peat (000 m <sup>3</sup> )	736	231	265	412	548	395	146
Silica sand	542	503	508	403	...	...	440
Talc	4	3	2	3	3	4	4

(a) Slurry etc. recovered from dumps, ponds, rivers etc.

(b) Including ethane, propane and butane, in addition to condensates.

(c) Slate figures include waste used for constructional fill and powder and granules used in industry.

(d) Including dolomite for constructional uses.

(e) BGS estimate.

(f) Dolomite and magnesian limestone used for constructional and agricultural purposes as well as for refractory, chemical and other purposes specifically dependent on the high magnesium content.

Sources: Office for National Statistics, Department of Business, Innovation and Skills and company data.

**Minerals produced in Northern Ireland, the Isle of Man, Guernsey and Jersey 2008-2012**

Thousand tonnes

	2008	2009	2010	2011	2012
<b>Northern Ireland</b>					
Gold (kg)	163	187	177	202	102
Silver (kg)	398	514	506	531	230
Lead	(c) 200	243	251	280	60
Limestone	3 739	3 972	3 689	...	...
Sand and gravel	7 134	4 856	2 178	...	...
Basalt and igneous rock (a)	6 481	5 758	5 438	...	...
Sandstone	2 697	3 793	2 768	...	...
Granite	...	...	...	...	...
Clay and shale	...	...	...	...	...
Others (b)	2 931	1 998	2 087	...	...
<b>Total</b>	<b>22 982</b>	<b>20 377</b>	<b>16 160</b>	...	...
<b>Isle of Man</b>					
Limestone	113	352	71	82	72
Sand and gravel	197	171	145	141	101
Igneous rock	158	132	109	96	94
Slate	64	45	28	29	23
<b>Total</b>	<b>532</b>	<b>701</b>	<b>353</b>	<b>347</b>	<b>290</b>
<b>Guernsey</b>					
Igneous rock	139	120	116	156	169
<b>Jersey</b>					
Igneous rock (c)	325	249	238	220	239
Sand and gravel	67	67	57	74	46

(a) Excluding granite.

(b) Including rock salt, chalk, dolomite, fireclay and granite.

(c) BGS estimates.

Sources: Department of Enterprise, Trade & Investment (Northern Ireland), Department of Economic Development (Isle of Man), Company data (Guernsey and Jersey).

Number of mineral workings in the United Kingdom, by commodity (a) (b)

Commodity	Region										Number					Total
	North East England	Yorkshire & the Humber	North West England	East Midlands	West Midlands	East of England	Greater London	South East England	South West England	England Total	Wales	Scotland	Isle of Man	Northern Ireland	Channel Islands	
Abandoned mine methane	—	4	—	6	1	—	—	—	—	11	1	—	—	—	—	12
Anhydrite	—	—	—	—	1	—	—	—	—	1	—	—	—	—	—	1
Ball clay	—	—	—	—	—	—	—	—	18	18	—	—	—	—	—	18
Barytes	—	—	—	4	—	—	—	—	—	4	—	1	—	—	—	5
Chalk	—	15	—	2	—	14	—	18	1	50	—	—	—	4	—	54
Chert	—	—	—	—	—	—	—	—	—	0	1	—	—	—	—	1
China clay	—	—	—	—	—	—	—	—	15	15	—	—	—	—	—	15
China clay waste	—	—	—	—	—	—	—	—	11	11	—	—	—	—	—	11
Clay & shale	6	27	16	17	26	6	—	25	13	136	10	3	—	6	—	155
Coal, underground	1	3	1	1	—	—	—	—	1	7	1	—	—	—	—	8
Coal, opencast	6	1	—	2	2	—	—	—	—	11	13	7	—	—	—	31
Coalbed methane	—	—	1	1	—	—	—	—	—	2	—	—	—	—	—	2
Fireclay	—	4	1	1	3	—	—	—	—	9	—	2	—	—	—	11
Flint	—	2	—	—	—	4	—	2	—	8	—	—	—	—	—	8
Fluorspar	1	1	—	5	—	—	—	—	—	7	—	—	—	—	—	7
Gold	—	—	—	—	—	—	—	—	—	0	—	—	—	1	—	1
Gypsum (c)	—	—	1	3	1	—	—	1	—	6	—	—	—	—	—	6
Igneous & metamorphic rock	8	—	2	8	4	—	—	—	12	34	15	118	2	18	4	191
Iron ore - ironstone	—	—	—	—	1	—	—	—	3	4	—	—	—	—	—	4
Lead	—	—	—	4	—	—	—	—	—	4	—	—	—	1	—	5
Limestone / dolomite	19	32	21	56	8	4	—	14	92	246	39	16	2	19	—	322
Marble	—	—	—	—	—	—	—	—	—	0	—	1	—	—	—	1
Mine drainage gas	—	2	—	1	—	—	—	—	—	3	—	—	—	—	—	3
Natural gas	—	10	1	3	—	—	—	1	1	16	—	—	—	—	—	16
Oil	—	1	—	34	—	—	—	22	3	60	—	—	—	—	—	60
Peat	1	3	7	—	—	2	—	—	39	52	2	25	—	8	—	87
Potash	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—	1
Salt	—	1	4	—	—	1	—	—	—	6	—	—	—	1	—	7
Sand	5	6	3	1	3	11	2	31	10	72	1	15	—	3	1	92
Sand & gravel	6	24	23	42	36	92	10	56	31	320	13	108	3	82	—	526
Sandstone	19	55	35	21	19	7	—	5	25	186	25	48	—	2	—	261
Silica sand	1	2	5	2	1	15	—	5	1	32	1	6	—	—	—	39
Silver	—	—	—	—	—	—	—	—	—	0	—	—	—	1	—	1
Slate	—	—	10	—	—	—	—	—	7	17	11	—	3	1	—	32
Slate waste	—	—	1	—	—	—	—	—	—	1	11	—	—	—	—	12
Talc	—	—	—	—	—	—	—	—	—	0	—	1	—	—	—	1
Tin	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	1
<b>Total</b>	<b>73</b>	<b>194</b>	<b>132</b>	<b>214</b>	<b>106</b>	<b>156</b>	<b>12</b>	<b>183</b>	<b>281</b>	<b>1 351</b>	<b>144</b>	<b>351</b>	<b>10</b>	<b>147</b>	<b>5</b>	<b>2 008</b>

(a) As at April 2014.

(b) Double counting may occur because some workings produce more than one mineral.

(c) Excludes desulphogypsum manufacture.

Source: British Geological Survey

# Abrasives, natural

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Carats					£ thousand				
<b>Abrasives</b>										
<i>Imports</i>										
Natural abrasives										
Industrial diamonds	5 127 610	3 321 670	7 299 364	10 236 376	7 747 613	12 307	7 623	30 724	20 976	94 825
	Tonnes									
Dust and powder of precious and semi-precious stones	39	24	27	473	1 264	9 352	6 756	11 006	11 853	9 799
Pumice	2 259	1 668	2 062	2 067	1 255	2 013	1 130	1 183	810	512
Other	13 424	11 748	11 876	13 876	14 706	3 517	2 634	3 012	3 788	3 580
	Carats									
<i>Exports</i>										
Natural abrasives										
Industrial diamonds	6 121 081	4 440 922	2 478 568	3 864 054	3 949 553	17 700	13 977	21 248	25 685	24 931
	Tonnes									
Dust and powder of precious and semi-precious stones	151	27	30	409	633	12 052	8 315	14 892	14 216	12 659
Pumice	76	307	704	136	87	293	534	997	448	129
Other	1 339	1 203	1 562	1 250	1 857	1 056	1 283	1 890	513	1 035

# Aggregates

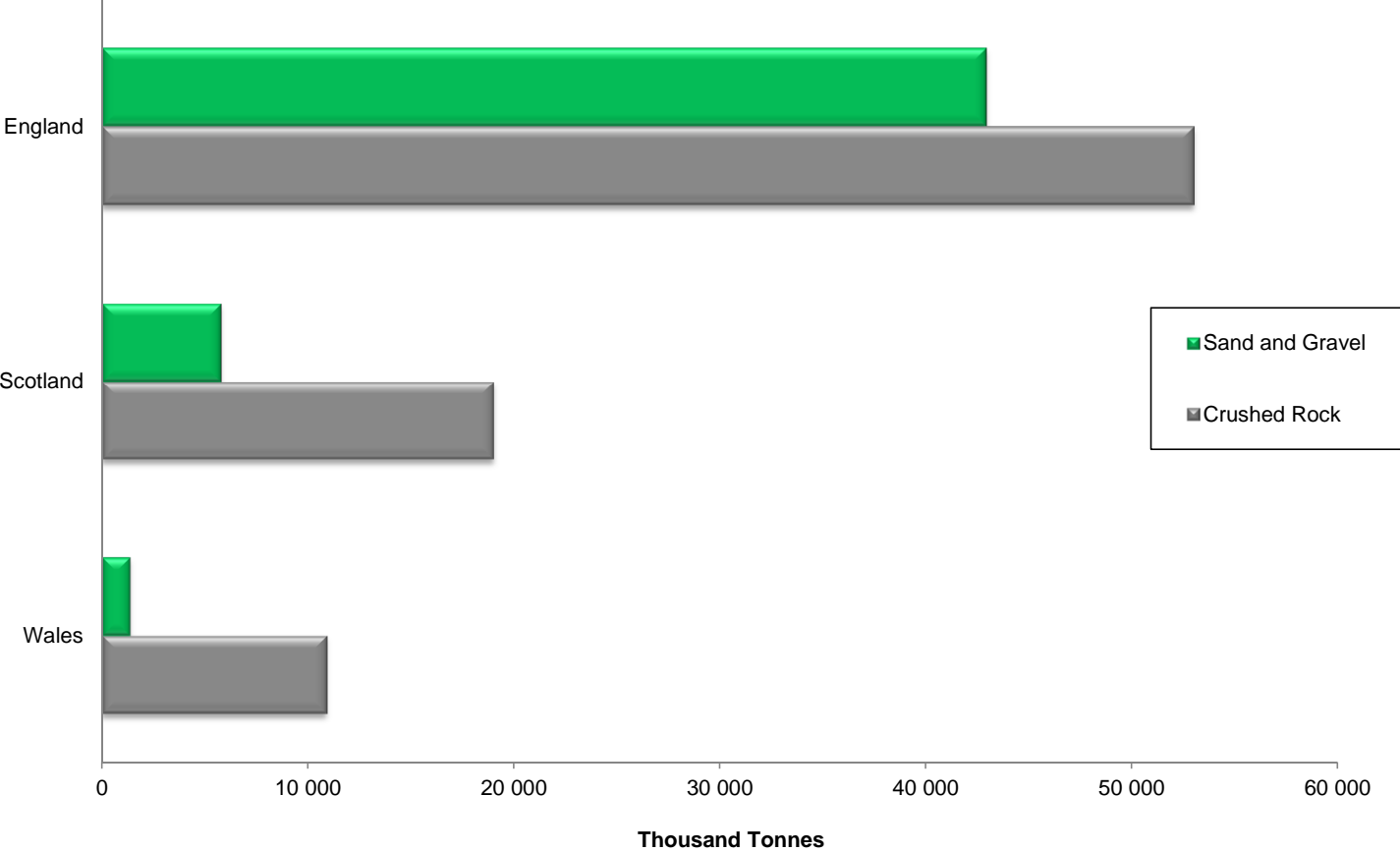
## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Aggregates</b>										
<i>Production</i>										
Sand and gravel (a)	85 473 000	66 226 000	61 700 000	(d)63 113 000	(d)56 593 000					
Crushed rock (b)	127 996 000	104 626 000	94 203 000	(d)102 828 000	(d) 94 785 000					
Total	213 469 000	170 852 000	155 903 000	(d)165 941 000	(d)151 378 000					
<i>Imports</i>										
Natural aggregates-										
Sand and gravel	647 603	444 725	343 749	357 607	519 089	16 043	12 212	10 874	12 454	16 436
Crushed rock (c)	1 984 383	1 609 546	1 896 201	1 705 153	1 273 059	34 449	26 157	30 740	36 384	22 718
Total	2 631 986	2 054 271	2 239 950	2 062 760	1 792 148	50 492	38 369	41 614	48 838	39 154
<i>Exports</i>										
Natural aggregates-										
Sand and gravel (e)	7 747 635	6 236 662	6 081 730	5 413 300	4 572 346	50 027	48 688	44 819	45 162	36 053
Crushed rock	5 260 973	4 916 514	4 910 701	5 387 038	4 251 427	36 693	36 965	36 490	40 856	32 165
Total	13 008 608	11 153 176	10 992 431	10 800 337	8 823 773	86 720	85 653	81 309	86 019	68 217

- (a) Including production from marine dredging.  
 (b) Includes small quantities for other purposes in Northern Ireland.  
 (c) For a number of years, a significant amount of armourstone imports were believed to be wrongly classified as 'granite, crude'. Care should be taken when comparing long time trends.  
 (d) Includes an estimate for Northern Ireland.

- (e) Principally marine-dredged sand and gravel.  
 Source: HM Revenue and Customs.  
 However, the Crown Estate Commissioners give the following figures for marine-dredged sand and gravel landed at foreign ports (tonnes):  
 2008: 6 211 703; 2009: 5 660 522; 2010: 5 192 348; 2011: 6 098 020; 2012: 4 548 675.

Great Britain production of crushed rock aggregate and sand and gravel by country 2012





## England and Wales summary of consumption of primary aggregates, by region 2009 (a) (b)

Thousand tonnes

Region	Land-won sand and gravel	Marine sand and gravel	Total sand and gravel	Crushed rock	Total primary aggregate
South West	2 960	511	3 471	12 238	15 710
South East	5 679	4 700	10 380	5 383	15 762
London	1 459	3 824	5 283	4 086	9 369
East of England	8 412	336	8 748	4 276	13 024
East Midlands	5 569	0	5 569	10 613	16 183
West Midlands	5 427	17	5 444	5 040	10 484
North West	1 891	76	1 967	10 299	12 266
Yorkshire and the Humber	2 980	234	3 214	7 779	10 993
North East	1 444	515	1 959	3 522	5 481
<b>England</b>	<b>35 821</b>	<b>10 214</b>	<b>45 035</b>	<b>63 236</b>	<b>109 271</b>
South Wales	209	516	724	5 886	6 611
North Wales	491	53	544	2 694	3 238
<b>Wales</b>	<b>700</b>	<b>568</b>	<b>1 268</b>	<b>8 580</b>	<b>9 848</b>
<b>England and Wales</b>	<b>36 521</b>	<b>10 782</b>	<b>47 303</b>	<b>71 816</b>	<b>119 120</b>

(a) For aggregate use only.

Source: Collation of the Results of the 2009 Aggregate Minerals Survey for England and Wales. British Geological Survey.

(b) The figure for total consumption slightly under estimates true consumption because for some regions unallocated sales have an unknown destination. Total unallocated sales were (thousand tonnes): sand and gravel: 518; crushed rock: 1785.

## Permitted reserves of primary aggregate minerals in England and Wales for active and inactive sites at 31st December 2009 (a)

Thousand tonnes

Region	Sand and gravel					Crushed rock					Grand total (excluding dormant)
	Active	Inactive: worked in past	Inactive: yet to be worked	Total	Dormant (b)	Active	Inactive: worked in past	Inactive: yet to be worked	Total	Dormant (b)	
South West	32 168	3 558	4 781	40 508	(c)	711 883	156 475	0	868 359	305 285	908 866
South East	63 607	4 602	10 837	79 046	2 020	44 903	9 002	4 899	58 804	685	137 850
London	1 702	(c)	(c)	1 952	(c)	0	0	0	0	0	1 952
East of England	120 692	14 213	12 467	147 372	2 082	2 243	1 100	0	3 343	2 900	150 715
East Midlands	54 764	9 391	16 439	80 594	7 270	1 018 426	285 032	0	1 303 457	33 379	1 384 052
West Midlands	77 791	25 693	210	103 694	3 500	217 306	67 775	26 700	311 781	4 600	415 476
North West	30 042	7 623	4 100	41 765	(c)	307 309	17 771	2 300	327 380	0	369 146
Yorkshire and the Humber	28 493	5 507	0	34 000	(c)	284 660	16 437	0	301 097	0	335 096
North East	8 713	6 624	0	15 337	1 200	167 335	49 226	0	216 561	23 313	231 898
<b>England</b>	<b>417 972</b>	<b>77 461</b>	<b>48 834</b>	<b>544 267</b>	<b>17 437</b>	<b>2 754 065</b>	<b>602 818</b>	<b>33 899</b>	<b>3 390 782</b>	<b>370 162</b>	<b>3 935 049</b>
South Wales	1 672	0	0	1 672	350	286 742	132 220	0	418 962	21 006	420 634
North Wales	17 272	2 002	0	19 274	840	167 786	4 641	0	172 428	1 405	191 701
<b>Wales</b>	<b>18 943</b>	<b>2 002</b>	<b>0</b>	<b>20 945</b>	<b>1 190</b>	<b>454 529</b>	<b>136 861</b>	<b>0</b>	<b>591 390</b>	<b>22 411</b>	<b>612 335</b>
<b>England &amp; Wales</b>	<b>436 915</b>	<b>79 463</b>	<b>48 834</b>	<b>565 212</b>	<b>18 627</b>	<b>3 208 594</b>	<b>739 680</b>	<b>33 899</b>	<b>3 982 172</b>	<b>392 573</b>	<b>4 547 384</b>

(a) For aggregate use only.

Source: Collation of the Results of the 2009 Aggregate Minerals Survey for England and Wales. British Geological Survey.

(b) Reserves in 'dormant' sites are not included in 'inactive sites worked in the past' nor in the totals.

(c) Confidential, but totals remain correct.

Great Britain estimated consumption of natural aggregates 1960–2012

Million tonnes

Year	Crushed rock aggregate (c)				Sand and gravel (b)			Total crushed rock and sand and gravel
	Limestone (a)	Igneous rock	Sandstone	Total	Sand	Gravel	Total	
1960	18	15	4	37	38	38	76	113
1961	20	16	4	40	42	43	85	125
1962	21	16	4	41	42	43	85	126
1963	23	17	4	44	44	45	89	133
1964	29	20	5	54	52	54	106	160
1965	34	20	5	59	50	52	102	161
1966	40	22	6	68	50	56	106	174
1967	48	25	7	80	52	60	112	192
1968	53	27	11	91	54	58	112	203
1969	55	28	14	97	52	57	109	206
1970	59	28	11	98	53	57	110	208
1971	62	29	9	100	53	59	112	212
1972	61	32	10	103	55	63	118	221
1973	74	38	14	126	62	68	130	256
1974	72	34	12	118	53	60	113	231
1975	67	32	10	110	54	63	117	227
1976	60	28	10	98	51	59	110	208
1977	59	26	9	94	46	53	99	193
1978	61	28	10	99	48	55	102	201
1979	65	29	10	104	49	54	103	207
1980	65	28	10	103	45	52	96	199
1981	57	25	10	92	41	48	89	182
1982	62	30	11	103	42	49	91	194
1983	70	31	11	112	46	55	101	213
1984	69	30	12	111	46	54	100	211
1985	72	32	11	115	47	55	102	217
1986	78	34	11	123	51	55	106	229
1987	89	39	14	142	53	58	111	253
1988	102	44	16	162	63	67	130	292
1989	106	46	16	169	64	67	131	300
1990	98	49	14	162	58	58	116	278
1991	90	46	13	148	49	49	98	246
1992	85	48	11	144	45	44	89	233
1993	89	49	12	150	45	44	89	239
1994	99	50	13	162	50	48	98	259
1995	87	49	15	151	47	43	90	240
1996	77	43	12	133	43	39	82	215
1997	80	42	12	134	45	42	86	220
1998	79	40	13	132	44	42	86	218
1999	76	45	11	133	45	43	88	221
2000	75	44	12	131	45	44	89	220
2001	(d) 78	45	(d) 11	134	45	43	88	222
2002	71	44	11	127	44	39	83	210
2003	67	45	11	123	45	35	80	203
2004	70	46	11	127	45	41	86	213
2005	66	46	11	123	43	39	82	205
2006	70	(d) 46	(d) 11	127	42	38	80	207
2007	(d) 67	51	12	130	42	36	79	208
2008	59	47	9	115	37	35	72	187
2009	(d) 45	38	8	91	30	26	56	147
2010	(d) 39	(d) 35	8	82	29	26	54	137
2011	(d) 39	43	9	91	30	25	55	146
2012	41	34	8	83	26	24	50	133

(a) Including dolomite.

(d) BGS estimate.

(b) Total production, excluding marine-dredged material for export; see table on p.74.

Source: Office for National Statistics.

(c) The following amounts of crushed rock aggregate, believed to be mainly igneous rock, were exported (million tonnes): 2008: 5; 2009: 5, 2010: 5, 2011: 5, 2012: 4. Crushed rock aggregate is also imported in comparable amounts. These figures have not been taken into account when calculating consumption.

**Great Britain consumption of natural aggregates related to construction work  
(intensity of use of aggregates) 1960–2012**

Year	Value of new construction work (a)	Estimated consumption of aggregate			Total value of all construction work (a)	Estimated consumption of aggregate		
		Crushed rock	Sand and gravel (b)	Total		Crushed rock	Sand and gravel (b)	Total
		£ million	Tonnes per £1000			£ million	Tonnes per £1000	
1960	40 341	0.9	1.9	2.8	58 352	0.6	1.3	1.9
1961	43 994	0.9	1.9	2.8	62 514	0.6	1.4	2.0
1962	45 379	0.9	1.9	2.8	64 262	0.6	1.3	2.0
1963	46 270	1.0	1.9	2.9	65 800	0.7	1.4	2.0
1964	54 168	1.0	2.0	3.0	73 961	0.7	1.4	2.2
1965	57 357	1.0	1.8	2.8	77 660	0.8	1.3	2.1
1966	57 820	1.2	1.8	3.0	78 616	0.9	1.3	2.2
1967	62 758	1.3	1.8	3.1	84 133	1.0	1.3	2.3
1968	64 723	1.4	1.7	3.1	86 042	1.1	1.3	2.4
1969	63 409	1.5	1.7	3.2	84 223	1.2	1.3	2.4
1970	61 134	1.6	1.8	3.4	81 847	1.2	1.3	2.5
1971	63 031	1.6	1.8	3.4	83 889	1.2	1.3	2.5
1972	63 493	1.6	1.9	3.5	86 469	1.2	1.4	2.6
1973	63 701	2.0	2.0	4.0	87 721	1.4	1.5	2.9
1974	53 531	2.2	2.1	4.3	77 065	1.5	1.5	3.0
1975	50 800	2.2	2.3	4.5	72 318	1.5	1.6	3.1
1976	51 574	1.9	2.1	4.0	71 759	1.4	1.5	2.9
1977	49 946	1.9	2.0	3.9	70 910	1.3	1.4	2.7
1978	52 517	1.9	1.9	3.8	76 813	1.3	1.3	2.6
1979	49 268	2.1	2.1	4.2	77 411	1.3	1.3	2.7
1980	42 674	2.4	2.3	4.7	72 528	1.4	1.3	2.7
1981	38 181	2.4	2.3	4.7	65 589	1.4	1.4	2.8
1982	40 588	2.5	2.2	4.8	68 097	1.5	1.3	2.8
1983	44 005	2.5	2.3	4.8	74 156	1.5	1.4	2.9
1984	44 996	2.5	2.2	4.7	76 637	1.4	1.3	2.7
1985	44 419	2.6	2.3	4.9	77 100	1.5	1.3	2.8
1986	46 695	2.6	2.3	4.9	80 021	1.5	1.3	2.8
1987	53 024	2.7	2.1	4.8	89 221	1.6	1.3	2.8
1988	58 948	2.7	2.2	4.9	97 741	1.6	1.3	3.0
1989	59 858	2.8	2.2	5.0	101 088	1.7	1.3	3.0
1990	59 327	2.7	2.0	4.7	100 424	1.6	1.2	2.8
1991	56 249	2.6	1.7	4.4	92 859	1.6	1.1	2.6
1992	55 078	2.6	1.6	4.2	89 146	1.6	1.0	2.6
1993	54 429	2.7	1.6	4.4	87 626	1.7	1.0	2.7
1994	52 634	3.1	1.9	4.9	87 206	1.9	1.1	3.0
1995	52 723	2.9	1.7	4.6	88 090	1.7	1.0	2.7
1996	54 744	2.4	1.5	3.9	90 797	1.5	0.9	2.4
1997	56 465	2.4	1.5	3.9	92 805	1.4	0.9	2.4
1998	58 075	2.3	1.5	3.7	94 398	1.4	0.9	2.3
1999	59 841	2.2	1.5	3.7	95 691	1.4	0.9	2.3
2000	60 110	2.2	1.5	3.7	96 668	1.3	0.9	2.3
2001	59 893	2.2	1.5	3.7	98 306	1.4	0.9	2.3
2002	63 231	2.0	1.3	3.3	103 731	1.2	0.8	2.0
2003	67 256	1.8	1.2	3.0	108 767	1.1	0.7	1.9
2004	73 709	1.7	1.2	2.9	114 464	1.1	0.8	1.9
2005	71 579	1.7	1.2	2.9	111 604	1.1	0.7	1.8
2006	73 381	1.7	1.1	2.8	112 400	1.1	0.7	1.8
2007	75 924	1.7	1.0	2.7	114 766	1.1	0.7	1.8
2008	71 713	1.6	1.0	2.6	111 658	1.0	0.6	1.7
2009	60 493	1.5	0.9	2.4	96 639	0.9	0.6	1.5
2010	69 413	1.2	0.8	2.0	104 288	0.8	0.5	1.3
2011	71 083	1.3	0.8	2.1	106 766	0.9	0.5	1.4
2012	63 552	1.3	0.8	2.1	98 907	0.8	0.5	1.3

(a) Valued at constant 2005 prices. Source: Department for Business, Innovation & Skills and Office for National Statistics.

Source: British Geological Survey.

(b) Land-won and marine-dredged material.

# Aluminium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Aluminium</b>										
<i>Production</i>										
Unwrought-										
Primary	326 900	252 000	186 000	213 000	60 000					
Secondary	145 800	129 800	99 600	99 200	148 800					
<i>Consumption</i>										
Unwrought-										
Primary	339 440	(b) 270 000	(b) 270 000	(b) 270 000	(b) 270 000					
Secondary	369 083	344 400	322 400	320 400	320 400					
Ferro-aluminium (a)	2 950	2 190	2 120	2 070	2 080					
<i>Imports</i>										
Ash and residues	1 136	526	1 001	1 776	325	1 744	418	1 142	1 091	296
Unwrought	160 797	304 621	138 975	201 428	144 629	234 827	326 050	204 559	309 357	223 073
Unwrought alloys	93 210	43 601	62 686	62 784	64 561	152 037	60 882	104 767	113 462	106 111
Scrap	145 819	117 651	126 584	109 122	106 654	155 175	94 893	134 400	123 162	101 311
<i>Exports</i>										
Ash and residues	631	132	24	503	666	1 990	407	85	326	457
Unwrought	20 690	17 688	43 665	49 959	9 597	31 790	19 211	60 938	81 932	11 068
Unwrought alloys	265 018	305 849	364 612	356 170	279 263	426 355	369 575	626 968	617 355	432 049
Scrap	872 988	422 574	443 466	440 399	445 730	574 214	333 723	549 108	606 047	573 852

(a) Consumption in the iron and steel industry; ferro-alloy weight.

(b) Estimate.

# Aluminium compounds

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Aluminium compounds</b>										
<i>Imports</i>										
Oxide (alumina)	705 033	352 250	229 158	110 265	56 724	169 891	86 601	84 105	58 634	39 050
Hydroxide	110 503	98 516	87 278	90 065	72 468	27 336	25 911	28 869	33 996	28 716
Fused Oxide (a)	50 448	20 646	42 447	36 375	31 623	23 988	11 911	25 305	23 417	21 054
Fluorides	4 553	3 024	2 118	1 248	122	3 668	3 405	1 230	1 842	187
<i>Exports</i>										
Oxide (alumina)	9 517	16 810	5 879	5 114	3 590	3 367	5 458	5 189	4 185	4 215
Hydroxide (b)	5 300	4 400	2 100	2 600	10 700	2 000	1 600	1 300	2 000	4 500
Fused Oxide (a)	9 329	5 819	11 489	10 270	8 402	7 138	5 581	8 617	8 703	6 711
Fluorides	210	156	10	5	22	119	229	67	60	62

(a) Artificial corundum.

(b) BGS estimates, based on known imports into certain countries.

# Antimony

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Antimony</b>										
<i>Imports</i>										
Ores & concentrates	19	4	24	33	11	105	14	77	208	82
Metal	98	88	45	121	237	972	566	472	1 216	1 439
Oxide	2 454	1 548	2 598	1 785	1 750	6 272	5 249	12 821	14 209	12 343
<i>Exports</i>										
Metal	35	75	77	57	237	297	640	903	781	2 082
Oxide	558	407	490	290	422	1 655	1 203	2 347	1 804	1 762

# Arsenic

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Arsenic</b>										
<i>Imports</i>										
Elemental	52	60	7	5	15	240	380	107	182	160
<i>Exports</i>										
Elemental	0	0	0	0	7	98	9	9	67	219

# Asbestos

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Asbestos</b>										
<i>Imports</i>										
Fibre	...	11	...	...	...	...	1	...	...	...
Fabricated asbestos	53	11	28	32	15	1 799	507	1 106	847	502
Friction material with a basis of asbestos etc.	7 464	7 392	6 787	6 856	6 959	44 863	32 224	45 011	45 883	53 313
Articles of asbestos cement etc.	65 502	66 397	76 447	87 240	100 449	28 467	28 750	30 790	35 084	37 195
<i>Exports</i>										
Fabricated asbestos	200	223	79	106	117	1 886	1 529	964	1 312	1 410
Friction material with a basis of asbestos etc.	3 453	2 772	3 497	3 151	3 010	45 785	36 490	43 223	40 774	52 912
Articles of asbestos cement etc.	15 994	8 452	11 312	18 250	17 182	7 586	4 952	5 724	9 199	9 126

# Asphalt, natural

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	
2012	Tonnes					£ thousand				
<b>Asphalt, natural</b>										
<i>Imports</i>	152 309	48 668	56 781	75 610	8 739	32 946	10 837	17 905	29 516	4 443
<i>Exports</i>	141 900	190 764	198 446	145 463	34 290	22 126	41 322	41 898	44 104	2 426

# Ball clay

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Ball clay</b>										
<i>Production (sales)</i>	(a) 1 020 496	(a) 727 076	(b) 900 000	(b) 930 000	(b) 748 000					
<i>Imports</i>	12 197	16 340	12 938	8 039	8 433	1 880	1 578	2 146	2 105	2 814
<i>Exports</i>	768 115	513 010	697 037	704 337	566 709	48 838	33 342	41 403	43 437	36 925

(a) Source: The Kaolin and Ball Clay Association.  
 (b) BGS estimate based on exports.

# Barytes

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Barytes</b>										
<i>Production</i>										
Barium minerals - Barytes	43 000	36 000	34 099	31 000	30 000					
<i>Imports</i>										
Barium minerals (a)	56 794	61 308	89 474	99 872	88 042	4 251	4 558	10 241	11 911	12 174
<i>Exports</i>										
Barium minerals (a)	9 976	13 095	17 851	15 648	19 072	2 320	3 407	4 315	4 285	6 079

(a) Mainly barites with some witherite.

# Bauxite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Bauxite</b>										
<i>Imports (a)</i>	57 971	37 461	41 650	41 497	33 925	13 042	13 455	14 147	14 689	12 748
<i>Exports (a)</i>	6 121	3 873	3 140	5 936	2 929	2 137	1 816	1 510	3 648	1 654

(a) Excluding refractory grade bauxite.

# Bentonite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Bentonite</b>										
<i>Imports</i>	205 853	140 301	141 849	200 332	183 343	16 658	12 534	13 755	16 924	14 181
<i>Exports</i>	43 261	34 622	41 323	38 478	39 535	15 234	13 828	13 058	12 865	12 402

# Beryllium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Beryllium</b>										
<i>Imports</i>										
Metal	28	3	24	45	35	1 702	1 308	3 644	1 175	1 627
Oxides and hydroxides	11	2	1	1 465	2	891	207	1	929	246
<i>Exports</i>										
Metal	10	0	5	7	3	263	113	279	379	223
Oxides and hydroxides	...	2	0	9	0	...	14	9	160	1

# Bismuth

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Bismuth</b>										
<i>Imports</i>										
Metal	1 582	310	366	411	481	16 140	2 622	3 704	5 426	5 471
<i>Exports</i>										
Metal	905	941	427	1 038	744	12 763	9 142	7 236	8 642	7 676

# Boron

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Boron</b>										
<i>Imports</i>										
Boron minerals (a)	2 322	879	2 383	2 425	2 563	627	345	671	674	1 960
<i>Exports</i>										
Boron minerals (a)	254	5	63	10	6	77	10	166	41	20

(a) Including crude natural borates and concentrates, and crude natural boric acid.

# Bricks

Due to a change in the way the Department for Business, Innovation and Skills report information relating to construction materials it is no longer possible to give details of Great Britain's production of bricks, blocks and tiles (for more information see <https://www.gov.uk/government/building-materials-and-components-monthly-statistics-2012>)

# Bromine

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Bromine</b>										
<i>Imports</i>										
	5 903	6 534	5 788	9 486	7 817	4 476	6 661	5 737	9 096	8 568
<i>Exports</i>										
	1 015	497	781	1 473	1 378	1 716	1 463	1 888	2 344	2 340



# Building and dimension stone

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Building and dimension stone</b>										
<i>Production</i>										
Sandstone	499 000	722 000	741 000	333 000	365 000					
Igneous rock	279 000	408 000	(a) 600 000	(a) 200 000	165 000					
Limestone	307 000	(a) 300 000	(a) 700 000	(b) 204 000	(b) 487 000					
Dolomite	2 000	(a) 1 000	(a) 1 000	(c) ...	(c) ...					
Total	1 087 000	(a) 1 431 000	(a) 2 100 000	(a) 737 000	1 017 000					
<i>Imports</i>										
<i>Unworked-</i>										
Marble & other calcareous stone	37 444	26 787	21 339	20 655	17 548	21 150	16 466	15 556	14 965	11 446
Granite (d)	1 058 054	361 043	270 991	282 548	996 992	54 092	40 792	39 615	41 275	44 443
Sandstone	264 202	202 831	201 490	223 664	226 709	38 988	27 176	33 590	39 424	43 303
Other stone	54 415	48 823	63 655	62 604	58 822	10 983	10 208	12 299	11 689	11 641
<i>Worked-</i>										
Marble & other calcareous stone	114 870	100 648	92 078	88 210	99 130	74 273	70 696	59 417	53 335	63 383
Granite	115 495	94 003	95 792	93 900	90 446	80 043	66 539	69 242	66 748	66 718
Other stone	61 324	98 462	87 152	49 219	29 748	27 885	30 246	30 638	21 335	17 781
Paving stones and flagstones	176 448	136 981	181 584	167 497	126 670	30 602	22 748	34 691	31 735	22 907
<i>Exports</i>										
<i>Unworked-</i>										
Marble & other calcareous stone	1 019	728	822	698	402	264	493	1 221	805	364
Granite	8 629	5 722	36 657	91 172	6 633	1 741	1 215	3 211	2 667	1 210
Sandstone	354	243	259	221	296	109	149	226	156	205
Other stone	888	276	540	251	164	161	107	134	88	67
<i>Worked-</i>										
Marble & other calcareous stone	2 934	1 603	1 332	965	1 224	5 292	3 294	3 310	1 967	2 322
Granite	786	1 904	1 449	709	1 128	1 391	2 069	2 031	1 330	1 305
Other stone	7 372	2 797	2 591	3 534	2 914	5 386	5 406	4 983	4 887	4 633
Paving stones and flagstones	2 483	3 321	4 640	12 467	4 745	1 314	1 229	1 379	2 238	1 202

- (a) BGS estimate.  
 (b) Including dolomite.  
 (c) Included within Limestone.  
 (d) Figures in some years believed to be too high. May include aggregates.

# Cadmium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Cadmium</b>										
<i>Consumption</i>										
	96	71	72	83	83					
<i>Imports</i>										
Metal	212	246	470	542	229	957	827	1 424	963	376
Pigments	104	63	22	98	—	506	255	136	351	—
Oxide	386	181	309	281	169	1 586	512	988	575	391
<i>Exports</i>										
Metal	54	25	2 545	1 441	272	739	440	7 383	3 378	581
Pigments	537	620	774	640	—	6 272	7 533	10 217	9 989	—

# Cement

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Cement</b>										
<i>Production</i>										
Cement, clinker (a)	8 700 000	6 421 000	6 598 000	7 096 000	6 555 000					
Cement, finished (a)	10 071 000	7 623 000	7 883 000	8 529 000	7 952 000					
<i>Cubic metres</i>										
Ready-mixed concrete	20 051 000	14 069 000	14 038 000	15 121 000	13 758 000					
<i>Consumption* (home deliveries)</i>										
Finished cement (a)(b)	9 937 000	7 474 000	7 767 000	8 318 000	7 728 000					
<i>Imports</i>										
Portland cement clinkers	366 791	206 857	201 308	208 595	206 086	34 947	19 471	20 789	19 940	25 741
Portland cement	1 731 228	1 718 146	1 759 841	1 746 862	1 429 848	93 946	98 170	101 408	100 775	78 664
Aluminous cement	8 946	8 248	14 779	18 157	24 948	2 698	2 644	4 889	5 598	7 426
Other cement	19 378	22 567	77 252	82 296	6 098	4 148	5 345	5 488	3 895	1 634
<i>Exports</i>										
Portland cement clinkers	15 071	4 708	5 500	15 531	31 458	1 248	950	1 313	2 763	1 979
Portland cement	230 920	92 628	134 223	121 537	239 058	18 540	10 884	13 357	13 921	11 852
Aluminous cement	57 963	42 725	50 689	55 727	70 622	20 022	16 500	23 800	27 368	32 112
Other cement	35 160	8 635	6 092	6 606	4 880	4 630	2 155	1 870	2 153	1 563

\* Figures for consumption have been updated as of October 2014.

(a) Great Britain only.

(b) Excluding imports.

# Chalk (see Limestone)

# China clay

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>China clay</b>										
<i>Production (sales)</i>	(a)(b)1 355 365	(a)(b)1 059 848	(c)1 140 000	(c)1 290 000	(c)1 150 000					
<i>Imports (d)</i>	67 349	61 164	82 927	102 396	88 505	12 116	14 028	17 361	18 818	15 802
<i>Exports (d)</i>	1 186 905	880 929	1 025 298	1 157 780	1 039 460	119 536	101 218	115 113	123 274	115 499

(a) Dry weight.

(b) Source: The Kaolin and Ball Clay Association.

(c) BGS estimate based on exports.

(d) Excludes HS code 2507 00 80 'Other kaolinitic clays' which are shown in this volume under Ball clay.

# China stone (see Feldspar)

# Chromium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Chromium</b>										
<i>Apparent consumption (a)</i>	82 000	17 500	39 100	49 300	47 400					
<i>Consumption in Iron and Steel Industry (b)</i>	68 780	24 100	33 980	44 360	42 130					
<i>Imports</i>										
Ores & concentrates	117 715	33 867	7 084	10 572	9 124	21 106	6 789	1 901	3 305	2 919
Ferro-chrome										
Under 4% carbon	13 250	5 730	7 836	15 198	15 767	31 747	10 517	15 559	28 388	25 405
4%-6% carbon	1 081	683	50	1 705	49	878	423	37	1 197	188
Over 6% carbon	65 360	28 471	50 512	53 288	49 403	75 033	20 200	49 286	49 568	42 124
Ferro-silico-chrome	128	13	9	362	723	136	30	10	409	710
Oxides and hydroxides (c)	10 300	3 300	10 600	12 900	15 300	12 400	4 300	15 000	23 600	29 800
Metal	3 099	2 904	3 007	2 346	1 663	15 062	12 132	17 349	16 671	12 784
<i>Exports</i>										
Ores & concentrates	—	32 507	297	168	50	...	3 168	103	69	8
Ferro-chrome										
Under 4% carbon	461	294	187	326	387	2 018	954	765	1 978	1 427
4%-6% carbon	160	39	964	261	308	324	75	411	397	423
Over 6% carbon	755	1 141	1 252	1 266	1 593	1 379	1 653	1 851	1 877	2 138
Ferro-silico-chrome	9	50	22	364	72	24	244	43	268	155
Oxides and hydroxides (d)	14 500	4 900	1 200	1 100	608	33 600	12 200	3 500	4 300	2 200
Metal	6 501	5 058	7 441	8 017	7 737	38 623	33 207	54 158	64 662	65 752

(a) BGS estimates; see explanatory notes.

(b) Chromium content of ferro-alloys.

(c) BGS estimates, based on known exports from certain countries.

(d) BGS estimates, based on known imports into certain countries.

# Clays

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Clays</b>										
<i>Production</i>										
Clay and shale	8 459 000	5 310 000	5 934 000	6 154 000	5 497 000					
<i>Imports</i>										
Unspecified clays	55 659	87 620	102 136	132 321	139 628	17 332	12 520	16 420	22 093	21 727
<i>Exports</i>										
Unspecified clays	15 120	8 702	14 138	71 216	105 919	5 927	2 533	3 591	4 384	7 456

## Great Britain production of clay and shale by end-use 1998–2012

Thousand tonnes

Year	Bricks, pipes and tiles	Cement	Lightweight aggregate	Constructional use	Other uses	Total
1998	8 214	2 384	—	1 089	(a) 543	12 230
1999	8 270	2 148	—	540	...	11 355
2000	7 880	1 939	1	...	...	10 838
2001	7 574	1 884	33	625	(a) 310	10 426
2002	6 985	2 194	...	956	...	10 306
2003	7 090	2 215	...	1 181	...	10 680
2004	7 629	...	—	...	234	11 164
2005	7 741	1 937	—	798	422	10 898
2006	6 772	...	—	...	...	10 432
2007	6 869	2 348	—	785	102	10 104
2008	4 969	2 013	—	1 318	159	8 459
2009	2 797	1 397	—	998	118	5 310
2010	...	1 353	—	769	...	5 934
2011	3 983	1 474	—	561	136	6 154
2012	3 569	1 415	—	491	23	5 497

(a) BGS estimate.

Source: Office for National Statistics.

# Coal

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Coal</b>										
<i>Production</i>										
Bituminous (a)	18 053 000	17 874 000	18 417 000	18 627 000	17 047 000					
<i>Consumption</i>										
	58 212 000	48 786 000	51 455 000	51 591 000	64 206 000					
<i>Imports</i>										
Anthracite	213 318	207 327	187 246	193 474	29 186	27 725	25 757	22 711	21 111	6 313
Bituminous & Other	43 038 043	36 553 574	23 227 529	31 627 894	42 069 614	3 480 141	2 632 676	1 828 525	2 933 563	3 099 028
<b>Total</b>	<b>43 251 361</b>	<b>36 760 900</b>	<b>23 414 775</b>	<b>31 821 368</b>	<b>42 098 800</b>	<b>3 507 866</b>	<b>2 658 434</b>	<b>1 851 236</b>	<b>2 954 674</b>	<b>3 105 341</b>
Briquettes of Coal	13 164	6 484	10 489	21 030	14 732	1 348	1 480	1 740	3 007	2 484
Lignite (including agglomerated)	986	2 537	777	888	1 132	507	660	231	150	393
<i>Exports</i>										
Anthracite	165 473	119 472	89 701	97 014	119 826	15 647	15 587	11 701	13 335	13 453
Bituminous & Other	742 582	391 414	615 067	502 581	417 654	80 084	56 545	73 176	64 111	58 042
<b>Total</b>	<b>908 055</b>	<b>510 886</b>	<b>704 768</b>	<b>599 595</b>	<b>537 480</b>	<b>95 730</b>	<b>72 132</b>	<b>84 877</b>	<b>77 446</b>	<b>71 495</b>
Briquettes of Coal	51 782	67 618	88 351	116 416	150 140	7 869	12 142	15 783	18 713	39 433
Lignite (including agglomerated)	3 157	2 795	3 182	1 943	1 830	591	600	621	375	604

(a) Including anthracite.

## UK supply of coal 2012

Thousand tonnes

	Bituminous		Anthracite	Total
	Steam coal	Coking coal		
<b>Production</b>				
Mine production	14 691	386	1 210	16 287
Other sources	680	—	80	760
Stock change	2 585	510	-141	2 953
<b>Total production</b>	<b>17 956</b>	<b>896</b>	<b>1 149</b>	<b>20 000</b>
<b>Imports</b>				
European Union (a)	583	4	106	693
Australia	—	2 360	—	2 360
Canada	153	154	—	307
Colombia	11 749	—	—	11 749
Indonesia	0	—	—	0
China P.R.	0	0	13	13
South Africa	546	—	7	553
Russia	17 459	595	—	18 053
USA	8 858	1 932	0	10 790
Other countries	272	25	—	297
<b>Total imports</b>	<b>39 619</b>	<b>5 071</b>	<b>125</b>	<b>44 815</b>
<b>Total exports</b>	<b>-395</b>	<b>-21</b>	<b>-120</b>	<b>-536</b>
<b>Total supply</b>	<b>57 180</b>	<b>5 946</b>	<b>1 154</b>	<b>64 279</b>

(a) Includes non-EU coal routed through the Netherlands.

Source: Department of Energy and Climate Change.

## Great Britain production of deep-mined and opencast coal 1982–2012

Thousand tonnes

Year	Deep-mined			Opencast			Deep-mined and opencast		
	Anthracite	Bituminous	Total	Anthracite	Bituminous	Total	Anthracite	Bituminous	Total
1982	1 406	104 755	106 161	1 478	13 788	15 266	2 884	118 543	121 427
1983	1 249	100 493	101 742	767	13 939	14 706	2 016	114 432	116 448
1984	256	34 987	35 243	961	13 345	14 306	1 217	48 332	49 549
1985	838	74 451	75 289	1 304	14 265	15 569	2 142	88 716	90 858
1986	984	89 382	90 366	1 001	13 274	14 275	1 985	102 656	104 641
1987	917	85 040	85 957	1 174	14 612	15 786	2 091	99 652	101 743
1988	770	82 992	83 762	1 028	16 871	17 899	1 798	99 863	101 661
1989	453	79 175	79 628	1 607	17 050	18 657	2 060	96 225	98 285
1990	573	72 326	72 899	1 372	16 762	18 134	1 945	89 088	91 033
1991	189	73 168	73 357	1 675	16 961	18 636	1 864	90 129	91 993
1992	177	65 623	65 800	1 863	16 324	18 187	2 040	81 947	83 987
1993	115	50 342	50 457	1 289	15 717	17 006	1 404	66 059	67 463
1994	...	...	31 854	...	...	16 804	...	...	48 658
1995	...	...	35 150	...	...	16 369	...	...	51 519
1996	...	...	32 223	...	...	16 315	...	...	48 538
1997	...	...	30 281	...	...	16 700	(a) 2 500	(a) 44 500	46 981
1998	...	...	25 731	...	...	14 315	(a) 2 000	(a) 38 000	40 046
1999	...	...	20 888	...	...	15 275	(a) 2 000	(a) 34 200	36 163
2000	...	...	17 187	...	...	13 412	(a) 2 000	(a) 28 600	30 599
2001	...	...	17 347	...	...	14 166	(a) 2 000	(a) 29 500	31 513
2002	...	...	16 391	...	...	13 148	(a) 2 000	(a) 27 500	29 539
2003	...	...	15 633	...	...	12 126	...	...	27 759
2004	...	...	12 542	...	...	11 993	...	...	24 536
2005	...	...	9 563	...	...	10 445	...	...	20 008
2006	...	...	9 444	...	...	8 635	...	...	18 079
2007	...	...	7 674	...	...	8 866	...	...	16 540
2008	...	...	8 096	...	...	9 509	...	...	17 605
2009	...	...	7 520	...	...	9 854	...	...	17 374
2010	...	...	7 390	...	...	10 426	...	...	17 817
2011	...	...	7 312	...	...	10 580	...	...	17 892
2012	...	...	6 153	...	...	10 134	...	...	16 287

(a) BGS estimate.

Source: Department of Energy and Climate Change.

## United Kingdom regional deep-mined coal production 2007–2012

Thousand tonnes

County/Unitary authority	2007	2008	2009	2010	2011	2012
Doncaster	118	468	708	700	705	613
Kirklees	14	17	19	11	4	3
Rotherham	917	1 184	987	844	856	802
Warwickshire	2 560	3 160	2 888	2 588	2 078	1 405
Derbyshire	24	23	20	20	28	25
Nottinghamshire	2 125	1 810	1 789	1 719	1 283	1 162
North Yorkshire	1 569	1 155	985	1 461	2 276	2 000
Northumberland	—	—	—	—	—	0
Lancashire	—	—	—	—	—	2
Gloucestershire	0	0	0	0	0	0
<b>England</b>	<b>7 327</b>	<b>7 817</b>	<b>7 397</b>	<b>7 344</b>	<b>7 231</b>	<b>6 013</b>
Rhondda, Cynon Taff	145	1	—	—	—	—
Neath Port Talbot	19	105	97	46	81	140
Torfaen	5	4	2	1	0	0
<b>Wales</b>	<b>168</b>	<b>110</b>	<b>99</b>	<b>47</b>	<b>82</b>	<b>140</b>
<b>Scotland</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>
<b>United Kingdom</b>	<b>7 495</b>	<b>7 927</b>	<b>7 496</b>	<b>7 390</b>	<b>7 312</b>	<b>6 153</b>

In previous editions this table has displayed figures relating to the financial years.

Source: The Coal Authority.

## United Kingdom regional opencast coal production 2007–2012

Thousand tonnes

County/Unitary authority	2007	2008	2009	2010	2011	2012
Bolton	144	251	262	369	111	—
Calderdale	1	—	1	—	—	—
Kirklees	12	4	4	—	—	—
Leeds	—	—	4	89	—	—
Rotherham	—	—	—	40	—	—
Wakefield	35	146	100	—	—	—
Lancashire	—	1	—	—	—	—
St Helens	—	—	—	—	—	—
Leicestershire	—	437	339	98	—	51
Derbyshire	13	76	427	600	436	176
Durham	143	—	0	106	369	341
Newcastle upon Tyne	25	—	0	19	326	422
Northumberland	1 246	1 223	1 000	1 363	1 394	1 627
Leeds	—	—	—	—	—	—
Shropshire	0	—	—	—	—	—
Telford & Wrekin	—	—	—	4	313	339
<b>England</b>	<b>1 619</b>	<b>2 139</b>	<b>2 137</b>	<b>2 689</b>	<b>2 949</b>	<b>2 956</b>
Blaenau Gwent	—	—	—	—	12	—
Merthyr Tydfil	—	379	632	787	987	886
Carmarthenshire	24	9	—	—	—	3
Neath Port Talbot	666	842	552	3 262	616	871
Powys	370	402	414	374	488	369
Rhondda, Cynon Taff	—	—	—	—	—	279
<b>Wales</b>	<b>1 060</b>	<b>1 633</b>	<b>1 598</b>	<b>4 423</b>	<b>2 103</b>	<b>2 408</b>
Dumfries & Galloway	829	582	585	736	330	121
Midlothian	84	226	206	223	64	—
West Lothian	344	23	—	—	—	—
East Ayrshire	3 350	3 218	2 893	2 624	2 964	2 584
Fife	816	712	794	756	832	944
North Lanarkshire	—	—	—	29	22	2
South Lanarkshire	766	916	1 560	1 671	1 316	1 172
<b>Scotland</b>	<b>6 188</b>	<b>5 678</b>	<b>6 037</b>	<b>6 038</b>	<b>5 528</b>	<b>4 823</b>
<b>United Kingdom</b>	<b>8 867</b>	<b>9 449</b>	<b>9 772</b>	<b>13 150</b>	<b>10 580</b>	<b>10 188</b>

In previous editions this table has displayed figures relating to the financial years.

Source: The Coal Authority.

# Cobalt

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Cobalt</b>										
<i>Consumption in Iron and Steel Industry (a)</i>										
	20	10	10	10	10					
<i>Apparent consumption (a)(b)</i>	2 500	1 000	3 700	4 400	6 400					
<i>Imports</i>										
Ore	72	200	143	124	125	1 526	3 750	669	378	236
Unwrought	3 748	3 131	5 023	5 137	5 446	114 725	48 235	72 415	62 556	57 997
Wrought	767	439	505	644	434	14 241	18 134	15 588	17 100	15 216
Oxides	138	168	198	256	164	4 021	2 309	2 825	2 890	1 882
Scrap	880	358	435	312	317	12 130	4 195	4 851	3 708	3 151
<i>Exports</i>										
Unwrought	804	1 187	730	843	676	28 019	27 420	21 691	25 144	17 997
Wrought	633	552	555	533	504	26 806	24 439	24 103	22 676	22 122
Oxides	798	891	1 267	820	1 179	22 944	13 809	23 040	14 261	17 051
Scrap	1 178	834	494	363	685	10 915	2 924	5 193	5 446	7 056

(a) Metal content.

(b) BGS estimates; see explanatory notes.

# Coke and breeze

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Coke and breeze</b>										
<i>Production</i>										
Coke oven - coke	4 324 000	3 663 000	3 990 000	4 021 000	3 712 000					
Coke oven - breeze	35 000	29 000	32 000	31 000	31 000					
<i>Consumption</i>										
Coke oven coke	3 899 000	2 843 000	2 619 000	2 331 000	2 728 000					
Breeze	1 205 000	892 000	805 000	753 000	772 000					
<i>Imports</i>										
Coke from coal	509 265	89 717	171 791	133 511	132 538	107 977	14 962	25 551	28 967	25 993
Coke from lignite	363	125	469	474	487	105	61	260	248	255
<i>Exports</i>										
Coke from coal	172 201	91 678	442 944	252 612	180 579	28 927	16 972	109 965	48 456	35 176
Coke from lignite	...	0	...	13	16	...	0	...	10	9



# Copper

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Copper</b>										
<i>Consumption</i>										
Unwrought-										
Refined	42 920	22 800	43 000	22 800	22 800					
Copper in scrap for direct use (a)	120 000	120 000	120 000	120 000	120 000					
<i>Imports</i>										
Ores & concentrates	699	581	189	125	194	1 500	928	968	884	1 213
Matte & cement	7	1	22	20	1	134	23	28	40	22
Scrap	21 132	18 549	27 495	29 010	27 214	53 211	39 973	81 565	91 261	70 330
Ash and residues	635	217	40	24	434	782	156	63	42	752
Unwrought-										
Unrefined	5 529	3 034	2 039	1 267	147	18 981	14 557	7 898	4 588	541
Refined	47 716	45 249	40 708	34 627	38 674	187 844	145 913	202 000	194 158	195 899
Alloys	5 173	3 766	5 379	5 095	5 723	15 991	11 931	19 914	24 681	30 326
Master Alloys	548	300	309	403	234	2 778	1 447	1 859	2 482	1 505
<i>Exports</i>										
Ores & concentrates	118	68	39	51	4	137	107	152	136	47
Matte & cement	28	14	33	36	18	215	118	218	370	276
Scrap	358 981	429 467	421 868	513 394	373 943	775 054	693 154	1 077 272	1 315 943	1 061 176
Ash and residues	723	832	541	660	906	591	1 407	451	418	1 361
Unwrought-										
Unrefined	3 066	205	185	194	647	16 062	2 508	2 896	3 571	5 762
Refined	4 850	14 059	8 863	17 951	24 498	20 571	41 963	43 952	97 471	124 507
Alloys	11 603	7 906	6 899	9 611	7 917	45 706	26 335	33 354	54 264	41 097
Master Alloys	6 219	3 933	5 883	7 261	7 524	25 047	12 728	26 087	38 143	36 884

(a) Estimate.

# Crushed rock (see also Aggregates)

## United Kingdom summary 2008-2012

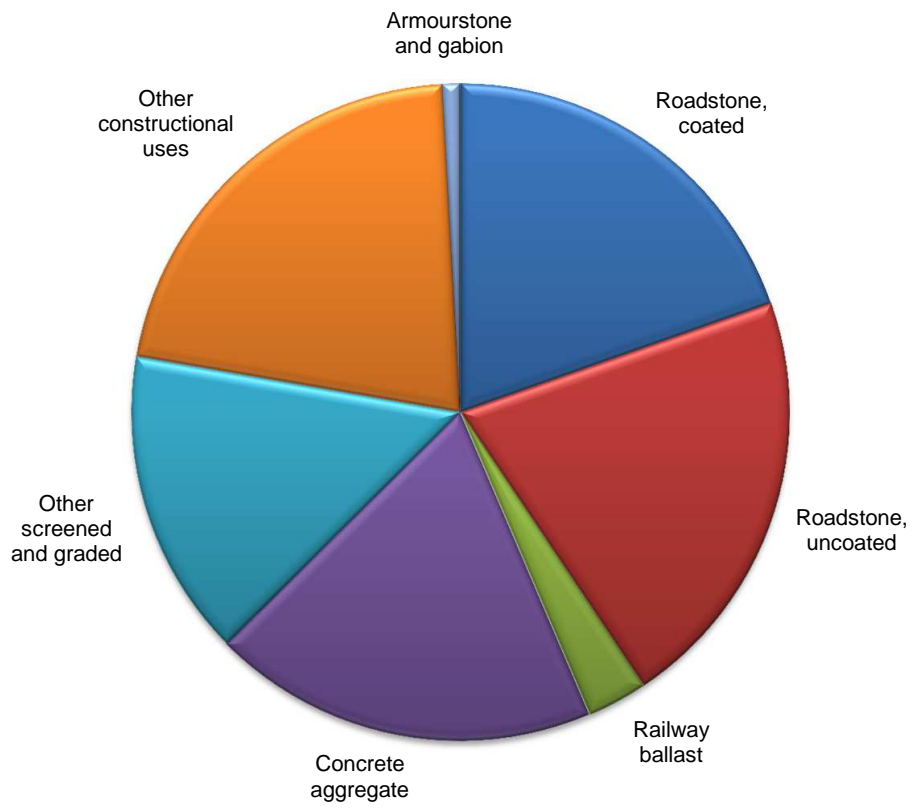
Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Crushed rock</b>										
<i>Production (a)</i>	127 996 000	104 626 000	94 203 000	(b)102 828 000	(b)94 785 000					
<i>Imports (c)</i>	1 984 383	1 609 546	1 896 201	1 705 153	1 273 059	34 449	26 157	30 740	36 384	22 718
<i>Exports</i>	5 260 973	4 916 514	4 910 701	5 387 038	4 251 427	36 693	36 965	36 490	40 856	32 165

(a) Includes small quantities for other purposes in Northern Ireland.

(b) Includes an estimate for Northern Ireland.

(c) For a number of years a significant amount of armourstone imports are believed to be wrongly classified as 'granite, crude'. Care should be taken when comparing long time trends.

**Great Britain production of crushed rock by end-use 2012  
(total production 82.9 million tonnes)**



**Great Britain production of crushed rock by region 1980–2012**

Thousand tonnes

Year	North East (a)	North West (b)	Yorks. & the Humber	West Midlands	East Midlands	East of England (c)	South East (d)	South West	England	Wales	Scotland	Great Britain
1980	9 948	4 951	10 714	7 364	15 996	658	1 114	21 934	72 679	15 998	13 586	102 533
1981	8 677	4 504	9 442	6 713	15 854	534	961	18 763	65 450	14 249	11 681	91 381
1982	9 362	4 779	10 108	8 181	17 237	537	1 112	21 175	72 492	16 754	13 602	102 848
1983	8 978	5 311	11 481	9 192	19 206	...	...	23 178	79 541	18 835	13 706	112 082
1984	9 668	5 116	9 557	8 861	19 142	...	...	25 107	79 650	16 965	14 063	110 678
1985	9 823	5 330	9 444	8 589	21 429	674	1 404	26 510	83 203	17 423	14 370	114 995
1986	9 861	5 469	11 201	8 780	23 038	500	1 597	29 194	89 640	17 881	14 844	122 365
1987	10 375	5 328	15 407	10 015	26 355	772	1 601	34 443	104 296	20 950	16 990	142 237
1988	11 453	6 849	14 885	12 519	32 026	853	2 589	39 108	120 283	23 102	17 629	161 014
1989	13 497	7 078	16 895	12 519	32 646	611	3 254	37 589	124 088	23 581	21 125	168 794
1990	14 602	7 533	15 449	11 047	34 143	709	1 320	33 073	117 875	22 646	21 094	161 615
1991	13 378	6 320	14 269	10 009	29 862	676	1 625	28 037	104 177	22 123	21 707	148 007
1992	12 669	5 899	12 812	8 783	29 879	...	...	28 564	100 553	21 482	21 932	143 967
1993	12 724	6 748	12 734	8 225	31 522	625	1 168	29 848	103 595	23 237	22 743	149 576
1994	13 365	7 892	15 576	8 839	33 713	1 705	1 433	32 141	114 665	24 346	22 746	161 757
1995	10 930	8 077	15 664	...	31 881	629	...	27 419	103 475	23 139	24 224	150 838
1996	10 385	6 448	12 350	6 514	29 001	595	1 210	22 940	89 444	21 273	22 177	132 894
1997	10 619	7 086	12 484	6 416	29 925	536	1 352	23 117	91 535	20 585	21 667	133 787
1998	10 246	6 348	13 745	6 028	26 933	607	1 358	23 411	88 675	19 903	23 138	131 716
1999	9 298	5 829	11 689	5 996	30 724	575	1 343	23 183	88 637	20 429	23 531	132 598
2000	5 441	10 381	11 748	5 533	28 679	475	1 624	24 146	88 027	19 044	23 236	130 307
2001	6 338	9 601	11 718	5 688	30 780	452	1 984	28 067	94 630	17 765	21 364	133 759
2002	5 390	9 426	11 620	5 835	29 604	372	1 068	24 332	87 647	16 724	22 198	126 568
2003	6 081	8 887	10 652	5 538	28 443	(e) 350	(e) 1 008	22 998	83 957	16 837	22 092	122 885
2004	6 455	9 182	11 457	4 861	28 445	423	1 351	23 479	85 653	16 528	25 494	127 674
2005	5 333	7 993	10 875	4 416	27 468	238	1 090	23 180	80 593	16 535	24 732	121 860
2006	5 352	8 996	10 811	4 824	29 658	496	1 059	22 526	83 722	18 429	24 744	126 895
2007	5 482	9 351	10 834	4 750	28 530	591	1 011	22 374	82 922	18 487	28 168	129 577
2008	4 928	7 962	10 045	3 850	24 328	683	1 029	22 355	75 179	15 685	24 215	115 079
2009	3 194	5 629	6 868	2 808	21 575	(e) 289	1 085	18 218	59 666	10 542	20 895	91 103
2010	3 354	4 329	6 681	2 927	17 036	274	800	14 715	50 115	11 001	21 193	82 309
2011	3 400	...	...	...	20 670	...	...	...	57 744	12 034	21 151	90 928
2012	...	...	...	...	...	...	...	...	52 980	10 901	19 004	82 885

(a) From 2000, excludes Cumbria.

(b) From 2000, includes Cumbria.

(c) From 2000, includes Essex, Hertfordshire and Bedfordshire.

(d) From 2000, excludes Essex, Hertfordshire and Bedfordshire.

(e) BGS estimate.

Source: Office for National Statistics.

## Great Britain production of crushed rock for aggregate 2012

Thousand tonnes

Mineral	Roadstone									Total
	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	
Limestone (inc. dolomite)	1 683	3 569	7 326	323	142	10 552	7 665	8 780	...	...
Igneous rock	2 698	4 889	7 503	709	2 312	4 220	4 220	7 676	...	...
Sandstone	875	2 451	1 172	359	-	973	701	1 731	...	...
<b>Total</b>	<b>5 353</b>	<b>10 909</b>	<b>16 001</b>	<b>1 391</b>	<b>2 454</b>	<b>15 744</b>	<b>12 572</b>	<b>17 741</b>	<b>720</b>	<b>82 885</b>

Note: figures for individual rock types do not sum to totals provided in source document for all end uses. Suppression of data in the source document means that it is impossible for BGS to identify where the error has occurred.

Source: Office for National Statistics.

## Great Britain production of crushed rock by end-use 1998–2012

Thousand tonnes

Year	Roadstone									Total
	Coated	Uncoated	Surface dressing chippings	Railway ballast	Fill	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	
1998	23 131	36 816	...	(a) 2 481	49 142	20 146	...	...	...	131 716
1999	22 260	38 114	...	(a) 2 196	49 948	20 080	...	...	...	132 598
2000	21 785	36 509	...	(a) 2 189	51 228	18 595	...	...	...	130 307
2001	23 340	34 638	...	(a) 2 682	44 543	28 553	...	...	...	133 759
2002	23 281	27 323	...	3 514	46 109	26 342	...	...	...	126 568
2003	23 139	28 950	...	(a) 2 895	39 313	28 522	...	...	...	122 885
2004	18 721	25 260	3 787	3 832		21 231	21 016	33 492	333	127 674
2005	20 136	25 902	2 693	3 403		16 876	20 949	31 360	540	121 860
2006	21 367	27 234	2 331	3 543		19 863	21 140	30 721	696	126 895
2007	20 503	27 983	2 136	3 904		24 658	19 367	30 244	781	129 577
2008	19 517	25 649	1 204	3 408		22 995	15 036	26 555	713	115 079
2009	16 709	21 722	1 252	2 556		19 593	12 356	16 234	681	91 103
2010	17 104	20 674	1 343	2 158		17 039	11 056	12 320	614	82 309
2011	19 360	18 199	2 480	1 421		16 799	16 063	14 988	1 620	90 928
2012	16 262	16 001	1 391	2 454		15 744	12 572	17 741	720	82 885

(a) BGS estimate.

Source: Office for National Statistics.

**Great Britain production of crushed rock, gravel and sand for use in concrete, 2000–2012**

Thousand tonnes

Year	Sandstone	Igneous rock	Limestone and dolomite	Gravel (a)	Concreting sand (a)	Total
2000	738	3 811	14 046	30 753	31 167	80 515
2001	1 425	6 351	20 780	29 969	31 656	90 181
2002	1 483	4 747	20 112	27 699	31 224	85 265
2003	1 778	6 613	20 197	26 566	31 521	86 675
2004	1 214	5 086	14 931	27 533	32 529	81 293
2005	551	3 755	12 571	26 014	29 848	72 739
2006	496	5 548	13 819	25 354	29 815	75 032
2007	1 529	7 147	15 981	23 621	30 202	78 480
2008	914	6 597	15 484	18 787	26 885	68 667
2009	1 116	5 741	12 737	14 452	21 570	55 616
2010	859	5 264	10 915	13 494	20 947	51 479
2011	658	5 523	10 618	14 103	22 591	53 493
2012	973	4 220	10 552	12 592	19 697	48 034

(a) Including marine-dredged material landed at British ports.

Source: Office for National Statistics.

**Great Britain production of crushed rock for use as roadstone, 2000–2012**

Thousand tonnes

Year	Sandstone		Igneous rock		Limestone and dolomite		Total	
	Coated	Uncoated	Coated	Uncoated	Coated	Uncoated	Coated	Uncoated
2000	3 315	2 201	9 890	13 394	8 580	20 915	21 785	36 509
2001	3 216	1 731	9 523	10 547	10 602	22 360	23 340	34 638
2002	3 402	1 689	11 023	10 326	8 858	15 308	23 281	27 323
2003	3 586	1 741	11 019	10 764	8 533	16 455	23 138	28 950
2004	3 689	(a) 1 698	10 392	(a) 11 318	4 640	(b) 14 558	18 721	(a) 29 047
2005	3 526	(b) 1 452	7 832	(a) 11 168	8 777	(b) 14 195	20 136	(a) 28 595
2006	2 858	(a) 1 850	9 571	(a) 11 478	8 937	(a) 16 237	21 367	(a) 29 565
2007	3 185	(a) 1 751	9 349	(a) 11 838	7 968	(a) 16 530	20 503	(a) 30 119
2008	2 835	(b) 1 109	8 794	(a) 13 155	7 888	(b) 11 960	19 517	(a) 26 853
2009	3 272	(a) 1 482	7 192	(b) 10 021	6 245	(b) 10 572	16 709	(a) 22 974
2010	3 243	(b) 1 265	8 281	(a) 10 815	5 580	(b) 9 234	17 104	(a) 22 017
2011	3 768	(a) 1 865	9 113	(a) 10 691	6 479	(a) 8 123	19 360	(a) 20 679
2012	3 326	(a) 1 531	7 587	(a) 8 212	5 252	(a) 7 649	16 165	(a) 17 392

(a) Including surface dressing chippings.

Source: Office for National Statistics.

(b) Excluding surface dressing chippings.

**Great Britain production of crushed rock for railway ballast, 2000–2012**

Thousand tonnes

Year	Sandstone	Igneous rock	Limestone and dolomite	Total
2000	(a) 100	1 965	(a) 100	(a) 2 189
2001	(a) 150	2 341	(a) 150	(a) 2 682
2002	190	3 324	—	3 514
2003	...	2 669	...	(a) 2 895
2004	...	3 074	...	3 832
2005	...	3 072	...	3 403
2006	...	3 102	...	3 543
2007	...	3 372	...	3 904
2008	157	...	...	3 408
2009	—	...	...	2 556
2010	...	2 154	...	2 158
2011	...	1 417	...	1 421
2012	—	2 312	142	2 454

(a) BGS estimate.

Source: Office for National Statistics.

## England production of crushed rock by end-use 2000–2012

Thousand tonnes

Year	Roadstone									Total
	Coated	Uncoated	Surface dressing chippings	Railway ballast	Fill and ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & Gabion	
2000	15 618	23 568	...	...	35 500	13 340	...	...	...	88 027
2001	17 202	24 333	...	...	31 518	21 578	...	...	...	94 630
2002	17 002	18 179	...	...	33 611	18 855	...	...	...	87 647
2003	16 511	18 625	...	...	28 545	20 275	...	...	...	83 957
2004	11 995	17 564	2 156	2 243	...	15 300	12 388	23 867	179	85 692
2005	13 194	17 208	1 426	1 871	...	12 494	11 676	22 474	248	80 593
2006	14 504	18 551	1 104	1 933	...	14 818	11 268	21 133	411	83 722
2007	12 865	19 370	889	2 322	...	16 211	12 103	18 717	443	82 922
2008	13 201	16 582	845	2 248	...	16 928	7 756	17 167	450	75 179
2009	11 087	13 376	752	...	...	14 735	7 077	10 384	...	59 666
2010	10 599	11 833	909	...	...	11 687	5 900	7 170	...	50 115
2011	12 626	9 572	2 045	1 033	...	12 259	10 067	8 872	1 269	57 744
2012	...	8 840	975	...	...	11 739	6 988	11 331	395	52 980

Source: Office for National Statistics.

## Wales production of crushed rock by end-use 2000–2012

Thousand tonnes

Year	Roadstone									Total
	Coated	Uncoated	Surface dressing chippings	Railway ballast	Fill and ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & Gabion	
2000	2 748	3 269	...	...	9 532	3 495	...	...	...	19 044
2001	3 269	2 436	...	...	7 212	4 848	...	...	...	17 765
2002	3 340	1 938	...	...	6 508	4 937	...	...	...	16 724
2003	3 039	2 514	...	...	5 640	5 644	...	...	...	16 837
2004	2 856	1 871	...	...	...	3 733	2 469	4 351	...	16 528
2005	3 737	2 007	...	...	...	2 117	2 927	4 478	83	16 535
2006	3 853	1 972	...	...	...	2 514	2 954	5 813	85	18 429
2007	3 351	2 121	...	...	...	3 335	2 678	5 662	74	18 487
2008	...	1 757	250	...	...	3 087	1 642	5 057	45	15 685
2009	3 267	1 830	192	...	...	2 317	773	2 044	...	10 542
2010	3 224	1 695	218	...	...	2 112	1 198	2 446	...	11 001
2011	3 665	1 339	275	...	...	2 237	2 141	2 202	...	12 034
2012	3 164	1 218	...	...	...	...	2 074	2 166	...	10 901

Source: Office for National Statistics.

## Scotland production of crushed rock by end-use 2000–2012

Thousand tonnes

Year	Roadstone									Total
	Coated	Uncoated	Surface dressing chippings	Railway ballast	Fill and ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & Gabion	
2000	3 420	9 672	...	...	8 385	1 760	...	...	...	23 236
2001	2 870	7 869	...	...	8 495	2 130	...	...	...	21 364
2002	2 939	7 206	...	...	9 503	2 550	...	...	...	22 198
2003	3 589	7 812	...	...	8 023	2 669	...	...	...	22 092
2004	3 910	5 825	...	...	...	2 198	6 159	5 274	...	25 494
2005	3 204	6 687	...	...	...	2 266	6 346	4 408	208	24 732
2006	3 008	6 711	...	...	...	2 531	6 918	3 776	200	24 744
2007	4 286	6 492	...	...	...	5 111	4 586	5 865	264	28 168
2008	...	7 310	109	...	...	2 981	5 639	4 331	218	24 215
2009	2 355	6 516	308	...	...	2 541	4 506	3 805	...	20 895
2010	3 282	7 146	217	...	...	3 239	3 959	2 704	...	21 193
2011	3 069	7 288	159	...	...	2 303	3 855	3 914	...	21 151
2012	...	5 943	...	...	...	...	3 510	4 244	...	19 004

Source: Office for National Statistics.

# Diamond

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Carats					£ thousand				
<b>Diamond</b>										
<i>Imports</i>										
Unsorted	10 283 610	8 348 854	8 703 907	8 484 526	9 238 531	876 344	834 518	1 228 713	1 248 369	1 135 227
<i>Gem-</i>										
Rough	59 534 653	44 064 081	40 559 260	38 472 604	33 227 748	2 761 345	2 013 574	2 747 423	3 539 213	2 881 539
Cut	1 343 330	868 406	761 455	18 292 931	7 009 031	911 691	689 890	826 271	971 820	1 022 427
Industrial	5 127 610	3 321 670	7 299 364	10 236 376	7 747 613	12 307	7 623	30 724	20 976	94 825
Dust	187 268 975	88 148 090	111 136 020	32 411 894	26 886 717	8 665	6 404	10 624	11 281	9 194
<i>Exports</i>										
Unsorted	3 388 395	4 090 534	3 689 202	2 735 369	2 974 099	477 338	488 658	710 750	620 529	251 285
<i>Gem-</i>										
Rough	66 479 817	43 775 775	51 769 860	41 541 219	46 117 478	3 448 031	2 381 592	3 417 622	4 336 731	4 464 586
Cut	795 612	257 202	283 435	1 292 162	1 702 424	699 752	657 011	772 743	702 987	805 995
Industrial	6 121 081	4 440 922	2 478 568	3 864 054	3 949 553	17 700	13 977	21 248	25 685	24 931
Dust	122 681 695	105 427 105	113 451 535	42 269 921	32 288 331	11 492	7 796	14 191	13 864	12 113

# Diatomite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Diatomite</b>										
<i>Imports (a)</i>										
	23 084	22 014	18 649	20 042	19 752	4 548	5 001	5 348	5 340	5 025
<i>Exports (a)</i>										
	903	533	1 650	797	659	502	288	424	814	508

(a) Officially recorded under the heading 'Siliceous fossil meals and similar siliceous earths'. Excludes flux calcined.

# Dolomite (see Limestone)

# Feldspar

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Feldspar</b>										
<i>Production</i>										
China stone (a)	430	—	—	—	—					
<i>Imports</i>										
Feldspar	18 899	9 299	17 584	16 750	21 610	1 406	661	1 813	1 964	3 432
Nepheline-syenite	44 275	32 462	39 092	35 573	30 744	4 355	3 516	4 038	4 475	3 128
<i>Exports</i>										
Feldspar	82	369	38	34	92	28	30	20	19	65
Nepheline-syenite	902	204	291	337	403	520	62	83	101	116

(a) Including weathered granite feldspar.

# Fireclay

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Fireclay</b>										
<i>Production (a)</i>										
	180 000	129 000	110 000	162 000	96 000					
<i>Imports</i>										
Fireclay	2 556	2 273	2 644	1 739	2 823	402	514	661	346	710
Fireclay bricks etc	7 070	3 229	2 103	2 148	1 893	4 960	1 509	1 552	1 972	1 135
Refractory hollow-ware	2 272	2 090	1 622	2 009	2 068	3 557	4 306	3 614	4 761	4 623
<i>Exports</i>										
Fireclay	54	92	9	26	1 151	33	62	24	29	608
Fireclay bricks etc	4 347	3 455	2 587	2 198	3 077	5 319	4 441	3 093	3 344	4 663
Refractory hollow-ware	1 274	1 297	890	1 354	1 082	17 071	14 687	13 212	16 802	15 724

(a) Great Britain only. There is a small, undisclosed production in Northern Ireland.

# Fluorspar

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Fluorspar</b>										
<i>Production</i>										
	36 801	18 536	26 420	—	—					
<i>Imports</i>										
	8 429	6 436	1 294	45 327	19 739	2 389	2 574	599	7 568	3 857
<i>Exports</i>										
	187	303	412	590	75	156	184	1 345	165	163



## Gas, natural (see Petroleum)

## Germanium

### United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Germanium</b>										
<i>Imports</i>										
Metal	1	3	2	1	1	400	802	539	1 161	456
<i>Exports</i>										
Metal	0	37	2	2	0	277	249	465	1 351	363

## Gold

### United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Gold</b>										
<i>Production (a)</i>										
	0	0	0	0	0					
<i>Imports</i>										
Waste & scrap	43	213	66	71	165	35 655	24 161	90 993	112 737	97 797
Unwrought (b)	878	1 158	791	1 000	979	13 136 670	23 560 892	19 875 910	25 100 889	32 868 462
Semi-manufactured	36	9	10	13	75	307 054	148 367	193 170	357 787	2 406 462
<i>Exports</i>										
Waste & scrap	272	533	497	273	1 928	293 085	1 041 439	1 534 257	1 460 031	1 146 245
Unwrought (b)	579	78	260	752	221	8 068 006	1 326 269	6 309 575	23 027 896	7 353 165
Semi-manufactured	24	19	33	23	45	162 089	147 766	428 307	636 654	1 362 000

(a) Small quantities have been produced in Northern Ireland as follows:  
2008: 163 kilograms; 2009: 187 kilograms; 2010: 177 kilograms;  
2011: 202 kilograms; 2012: 102 kilograms.

(b) Mainly refined gold bullion in the form accepted in inter-bank transactions.

## Granite (see Igneous rock)

# Graphite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Graphite</b>										
<i>Imports</i>										
Natural graphite	14 309	7 850	6 989	6 869	4 114	7 766	5 516	5 468	6 377	4 498
Artificial graphite	20 728	10 813	16 290	20 236	20 959	21 815	18 104	21 622	26 240	28 727
Graphite crucibles etc	991	788	782	689	564	3 401	2 880	2 878	2 535	1 771
<i>Exports</i>										
Natural graphite	3 156	2 271	2 981	3 660	2 196	3 906	3 015	3 032	4 182	3 255
Artificial graphite	6 792	5 450	6 894	8 151	7 827	17 974	13 008	14 909	15 167	13 215
Graphite crucibles etc	11 342	6 412	6 548	7 784	7 287	25 447	17 751	17 750	17 750	16 316

# Gypsum

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<i>Gypsum</i>										
<i>Production</i>										
Gypsum, natural (a)	1 200 000	1 200 000	1 200 000	1 200 000	1 200 000					
<i>Imports</i>										
Gypsum-										
Gypsum	140 783	396 138	216 605	539 327	490 661	8 522	8 104	6 957	7 284	8 118
Gypsum (plasters)	88 766	60 337	54 209	46 526	47 545	12 433	13 540	12 728	11 655	11 614
<i>Exports</i>										
Gypsum-										
Gypsum	1 493	1 978	3 330	3 428	4 036	955	777	1 128	1 035	1 138
Gypsum (plasters)	48 340	32 551	24 552	25 504	21 216	13 647	12 067	7 953	9 169	9 174

(a) BGS estimates.

## UK production of desulphogypsum 2003-2013

	Thousand Tonnes										
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Drax	699	653	565	610	645	744	...	...	...	...	...
Ratcliffe-on-Soar	384	350	235	204	254	338	263	266	248	383	339
West Burton	–	274	335	289	255	217	164	144	164	276	298
Eggborough	–	–	31	46	36	66	...	40	44	112	108
Cottam	–	–	19	196	257	225	164	210	208	234	271
Fiddlers Ferry	–	–	–	–	–	–	...	...	...	...	...
Ferrybridge	–	–	–	–	–	–	...	...	...	...	...
Rugley	–	–	–	–	–	–	...	...	...	...	...
Total	1 083	1 228	1 185	1 303	1 447	1 590	...	...	...	...	...

# Hafnium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Hafnium</b>										
<i>Imports</i>	41	7	12	16	8	1 832	1 426	3 000	2 294	1 275
<i>Exports</i>	1	18	15	11	9	254	1 342	1 036	251	310

# Igneous rock

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Igneous rock – see also Building and dimension stone</b>										
<i>Production (a)</i>	53 490 000	44 618 000	44 876 000	(b)44 400 000	(b)40 200 000					
<i>Imports</i>										
Granite-										
Worked	115 495	94 003	95 792	93 900	90 446	80 043	66 539	69 242	66 748	66 718
Unworked	1 058 054	361 043	270 991	282 548	996 992	54 092	40 792	39 615	41 275	44 443
<i>Exports</i>										
Granite-										
Worked	786	1 904	1 449	709	1 128	1 391	2 069	2 031	1 330	1 305
Unworked	8 629	5 722	36 657	91 172	6 633	1 741	1 215	3 211	2 667	1 210

- (a) Excluding a small production of granite in Northern Ireland.  
 (b) Includes an estimate for Northern Ireland.

## England production of igneous rock by end-use 2000–2012

Thousand tonnes

Year	Roadstone											Total	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Industrial uses		Other uses
2000	27	2 726	3 916	3 587	...	...	2 106	...	6 799	...	...	...	20 435
2001	...	2 792	3 523	2 844	...	...	4 059	...	8 051	...	...	6	22 647
2002	12	2 778	4 872	3 477	...	1 612	2 110	...	7 028	...	...	—	21 889
2003	28	2 974	4 066	3 185	...	1 701	3 458	...	6 460	...	...	5	21 878
2004	12	2 868	1 473	3 722	938	1 779	2 623	3 493	3 203	60	3	...	20 174
2005	18	2 571	1 699	3 619	449	...	1 457	4 105	3 727	86	...	...	20 576
2006	20	...	3 418	4 071	...	...	2 961	3 277	3 492	...	...	...	22 076
2007	28	2 539	...	4 692	323	...	...	4 621	...	...	...	...	21 865
2008	22	...	2 313	5 410	342	...	3 605	1 717	2 747	79	...	...	21 056
2009	...	2 925	1 334	4 167	318	...	3 198	1 949	1 653	...	...	...	17 846
2010	...	2 364	2 037	3 455	364	...	2 041	1 499	1 632	192	...	...	17 460
2011	...	1 840	3 393	2 130	1 433	...	3 165	1 670	1 541	1 110	...	...	17 428
2012	...	1 249	...	1 981	475	...	2 225	839	3 528	121	...	...	15 646

Source: Office for National Statistics.

## Wales production of igneous rock by end-use 2000–2012

Thousand tonnes

Year	Roadstone											Total	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Industrial uses		Other uses
2000	...	314	227	659	...	...	...	...	...	...	...	—	2 743
2001	...	393	197	266	...	...	369	...	...	...	...	—	2 372
2002	9	375	366	241	...	219	396	...	506	...	...	—	2 111
2003	5	375	257	327	...	—	...	...	...	...	...	—	2 507
2004	3	477	179	209	...	...	357	...	391	10	—	...	2 295
2005	2	427	...	314	...	...	117	492	347	...	—	...	2 364
2006	...	...	...	243	...	...	156	452	412	...	—	...	2 596
2007	15	377	...	256	...	...	...	483	...	...	—	...	2 474
2008	13	...	...	246	...	...	...	603	405	...	...	...	3 028
2009	7	325	...	227	...	...	167	151	426	...	—	...	1 932
2010	...	330	540	236	90	...	216	112	677	...	...	...	2 294
2011	...	412	616	247	...	...	232	140	490	82	...	...	2 450
2012	—	323	530	191	...	...	...	120	333	...	—	...	1 769

Source: Office for National Statistics.

## Scotland production of igneous rock by end-use 2000–2012

Thousand tonnes

Year	Roadstone											Total	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Industrial uses		Other uses
2000	179	1 762	945	9 148	...	...	...	...	...	...	...	39	21 455
2001	423	1 608	1 010	7 437	...	...	1 922	...	...	...	...	26	20 034
2002	196	1 595	1 037	6 608	...	1 494	2 241	...	7 332	...	...	40	20 543
2003	179	2 101	1 246	7 251	...	967	...	...	...	...	...	308	20 920
2004	171	2 485	1 090	5 568	...	...	2 107	...	4 552	92	—	...	23 724
2005	130	1 993	...	6 322	...	1 036	2 181	6 147	3 866	175	—	...	23 052
2006	...	1 685	...	6 332	230	1 107	2 431	6 754	3 291	173	—	...	23 194
2007	...	1 847	2 153	6 163	...	1 077	4 982	4 399	5 214	251	...	...	26 345
2008	244	1 580	...	6 924	...	...	...	5 298	3 999	198	...	...	22 925
2009	...	1 636	...	5 627	272	...	2 376	4 292	3 435	207	...	...	19 082
2010	552	2 512	499	6 483	186	...	3 007	3 693	2 187	...	...	...	19 684
2011	94	1 452	1 399	6 626	...	...	2 126	3 599	3 242	136	...	...	19 113
2012	...	1 126	...	5 331	...	...	...	3 261	3 815	...	...	...	17 384

(a) BGS estimate.

Source: Office for National Statistics.

# Insulating materials

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Insulating materials</b>										
<i>Imports</i>										
Mineral wools (a)	24 135	25 128	24 427	20 908	18 501	32 142	34 156	33 505	32 446	31 247
Expanded minerals (b)	111 091	30 732	47 121	59 198	60 737	8 663	5 523	7 137	9 330	11 354
Other (c)	43 244	32 068	37 361	38 030	38 279	38 139	32 841	40 172	41 701	44 394
<i>Exports</i>										
Mineral wools (a)	24 700	29 984	35 500	44 328	37 334	39 471	35 600	52 257	60 566	51 211
Expanded minerals (b)	19 581	10 973	14 174	16 777	15 078	22 236	14 126	17 959	19 333	23 484
Other (c)	58 762	42 351	56 989	64 551	73 014	70 153	57 472	74 706	84 958	91 697

(a) Slag wool, rock wool and similar mineral wools.

(b) Exfoliated vermiculite, expanded clays, foaming slag and similar expanded mineral materials.

(c) Mixtures and articles of heat-insulating, sound-insulating or sound-absorbing mineral materials.

# Iodine

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Iodine</b>										
<i>Imports</i>										
	1 107	1 075	1 254	1 426	1 573	10 923	13 753	16 854	18 464	36 345
<i>Exports</i>										
	175	121	393	234	370	1 826	2 153	2 922	5 760	13 575

# Iron compounds and earth colours

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Iron compounds and earth colours</b>										
<i>Imports</i>										
Earth colours containing 70% or more ferric oxide	74	213	210	247	108	25	217	147	324	196
Other iron compounds-Oxides and hydroxides	36 145	21 412	21 516	19 187	21 081	25 271	18 624	21 396	19 697	19 623
<i>Exports</i>										
Earth colours containing 70% or more ferric oxide	450	543	68	159	74	646	598	100	190	120
Other iron compounds-Oxides and hydroxides	7 784	4 313	5 070	4 825	5 203	11 318	7 723	7 582	6 474	6 122

# Iron ore

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Iron ore</b>										
<i>Production</i>										
Iron ore (a)	145	—	—	—	—					
Fe content (b)	80	—	—	—	—					
<i>Consumption</i>										
Home-produced (b)	140	—	—	—	—					
Imported	15 338 400	11 171 300	10 572 200	9 734 800	10 510 900					
<i>Imports</i>										
Iron ore	15 282 786	9 185 919	10 597 085	9 175 254	10 062 173	938 415	468 519	912 896	990 550	829 922
Fe content (b)	9 300 000	5 600 000	6 400 000	5 500 000	6 000 000					
<i>Exports</i>										
Iron ore	7 731	32 579	5 228	179 699	108 399	953	3 014	634	14 379	6 798

(a) The Florence mine near Egremont, Cumbria closed in 2008. The mine produced high-grade hematite for foundry uses, mineral specimens and jewellery. The mine was also a tourist attraction.

(b) BGS estimates.

# Iron and steel

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Iron and steel</b>										
<i>Production</i>										
Pig iron	10 136 800	7 671 100	7 233 000	6 625 000	7 183 100					
Crude steel-										
Alloy qualities	824 900	393 500	506 600	642 400	587 300					
Other	12 695 700	9 681 000	9 201 400	8 835 600	8 991 800					
Total	13 520 500	10 074 500	9 708 000	9 478 000	9 579 100					
<i>Consumption</i>										
Pig iron (a)	9 931 000	7 540 000	7 088 000	6 610 000	7 325 000					
Finished steel (b)	11 784 000	7 007 000	8 790 000	9 019 000	8 444 000					
Scrap	4 888 000	3 459 400	3 713 100	3 890 300	3 674 500					
<i>Imports</i>										
Pig iron	61 657	19 703	41 959	69 095	55 845	21 724	5 758	13 167	27 613	23 427
Shot, powder, sponge etc	27 003	17 483	97 745	160 969	194 237	26 470	15 722	31 682	46 342	72 867
Ferro-alloys	314 921	160 285	208 817	225 819	212 787	430 007	154 472	246 459	285 036	255 107
Iron and steel-										
Ingots and other primary forms	679 019	212 829	714 541	1 185 242	835 691	409 887	176 318	393 571	636 490	481 840
Scrap	228 294	213 818	270 986	423 744	284 986	133 546	80 685	160 388	192 405	131 687
<i>Exports</i>										
Pig iron	2 523	27 765	4 339	2 074	3 775	2 308	5 254	3 351	2 685	1 348
Shot, powder, sponge etc	43 775	37 314	41 899	46 893	53 268	43 529	31 752	43 965	56 120	63 469
Ferro-alloys	40 986	28 899	45 314	43 918	49 357	365 568	125 266	240 287	273 119	252 143
Iron and steel-										
Ingots and other primary forms	3 348 794	2 118 701	1 137 160	668 885	1 817 820	1 619 056	936 583	818 397	885 788	1 061 356
Scrap	6 616 708	6 007 656	7 507 853	7 744 411	7 160 639	1 868 340	1 184 693	1 944 946	2 408 014	2 076 913

(a) Consumption in steel making only.

(b) Net home disposals.

## Consumption in the United Kingdom iron and steel industry 2003–2012

Thousand tonnes

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Iron ore –										
Home produced (a)	1	1	0	0	0	0	0	0	0	0
Imported (b)	15 766	16 011	15 990	16 539	16 607	15 338	11 171	10 572	9 735	10 511
Manganese ore	0	6	3	6	3	4	21	0	0	0
Iron and steel scrap (f)	4 390	5 123	4 531	4 811	5 144	4 888	3 459	3 713	3 890	3 675
Pig iron (f)	9 955	10 010	9 983	10 444	10 729	9 931	7 540	7 088	6 610	7 325
Alloy metals (c) –										
Nickel	16	17	14	13	12	12	8	10	12	10
Molybdenum	2	2	2	2	2	3	1	1	2	2
Tungsten	0	0	0	0	0	0	0	0	0	0
Vanadium	0	0	0	0	0	0	0	0	0	0
Cobalt	0	0	0	0	0	0	0	0	0	0
Chromium	53	54	52	55	61	69	24	34	44	42
Niobium	0	0	0	0	0	1	0	0	0	0
Ferro-alloys –										
Ferro-manganese	94	95	92	97	100	94	70	67	66	66
Ferro-silico-manganese	23	23	22	24	24	23	17	16	16	16
Ferro-aluminium	3	3	3	3	3	3	2	2	2	2
Ferro-chromium	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Ferro-silico-chromium	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Ferro-silicon	37	37	36	38	39	37	27	26	26	26
Ferro-silico-zirconium	0	0	0	0	0	0	0	0	0	0
Calcium silicide	0	0	0	0	0	0	0	0	0	0
Ferro-phosphorus	1	1	1	1	1	1	1	1	1	1
Ferro-niobium	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)
Ferro-titanium	1	1	1	1	1	1	1	1	1	1
Dolomite (raw and burnt) (e)	254	262	243	445	474	420	369	399	344	556
Limestone (e)	2 019	2 068	1 951	2 028	1 822	1 664	1 095	948	932	912
Lime (e)	530	584	593	631	585	496	378	371	395	379
Zinc for galvanising	62	53	57	60	58	52	41	49	48	42
Tin for tinplating	2	3	3	2	3	3	2	3	2	2

Average Fe content: (a) 55%, (b) 62%.

(c) Metal content.

(d) Included under alloying metals.

(e) Restricted to consumption in blast furnaces, sinter plants and steel furnaces.

(f) Consumption in steel making only.

Source: Iron and Steel Statistics Bureau.

# Lead

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Lead</b>										
<i>Production</i>										
Concentrate-										
Pb content	(a)(b) 300	(c) 243	(c) 251	(c) 280	(c) 61					
Unwrought-										
Bullion	36 000	36 000	36 000	36 000	36 000					
Refined										
Primary (d)	139 000	157 865	151 000	125 000	156 930					
Secondary	144 000	144 000	150 000	150 000	155 000					
<i>Consumption</i>										
Refined	222 123	188 726	211 165	210 927	210 900					
<i>Imports</i>										
Ores & concentrates	116	24	23	47	121	169	30	42	51	205
Ash and residues	423	133	186	345	123	200	90	153	302	94
Unwrought										
Unrefined-										
Base bullion (e)	194 113	130 312	151 653	127 691	168 669	252 593	194 998	297 843	323 923	312 933
Other	1 190	1 300	0	133	1	1 698	1 180	41	256	4
Refined	18 379	14 179	14 359	18 468	19 605	22 523	14 569	18 682	28 354	26 175
Alloys	19 924	1 798	787	1 287	1 331	24 743	2 741	1 681	2 678	2 127
Scrap	4 621	4 962	8 858	4 792	3 317	5 287	4 695	9 957	5 430	3 361
<i>Exports</i>										
Ash and residues	535	515	982	852	760	536	327	560	547	478
Unwrought										
Unrefined-										
Base bullion	...	0	21	822	1 993	...	3	40	1 398	2 956
Other	1 725	45	1 226	65 046	69 975	1 854	38	1 635	113 204	106 242
Refined	77 795	126 697	103 988	79 009	97 771	96 383	144 935	152 672	124 734	135 417
Alloys	57 466	54 505	62 406	4 820	6 050	79 823	70 000	97 889	7 606	8 659
Scrap	47 660	56 055	69 404	74 789	57 990	44 505	48 579	74 457	90 421	61 951

(a) By-product of Pennine fluorspar operations and of gold mining in Northern Ireland.  
 (b) BGS estimate.

(c) By-product of gold mining in Northern Ireland.  
 (d) Refined from imported bullion including lead content of alloys.  
 (e) Containing substantial quantities of silver.



# Limestone, dolomite and chalk

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Limestone</b>										
<i>Production</i>										
Limestone	74 145 000	60 111 000	56 985 000(a)	58 100 000(a)	54 800 000					
Dolomite	5 509 000	3 164 000	4 540 000	4 490 000	4 896 000					
<i>Imports</i>										
Limestone flux (b)	38 404	24 368	14 954	5 187	6 511	1 699	1 764	1 758	1 729	2 060
Lime	11 452	9 091	9 883	16 305	13 513	1 887	1 235	1 627	2 356	2 067
Dolomite	146 620	149 802	149 695	144 281	105 741	4 954	4 612	4 961	5 675	3 963
<i>Exports</i>										
Limestone flux (b)	261 462	226 165	225 551	250 651	213 229	3 168	2 763	3 161	3 442	2 446
Lime	115 728	95 357	106 075	157 690	140 234	13 946	13 382	13 442	17 946	18 658
Dolomite (c)	4 786	3 438	2 675	1 077	320	249	245	227	112	28
<b>Chalk</b>										
<i>Production (d)</i>										
	5 874 000	4 047 000	3 626 000	3 996 000	3 473 000					
<i>Imports</i>										
	5 447	3 878	9 341	8 002	23 144	716	627	1 074	852	1 957
<i>Exports</i>										
	126 594	30 890	22 504	21 221	17 343	4 510	1 870	1 542	1 680	1 342

(a) Includes an estimate for Northern Ireland.

(b) Including calcareous stone commonly used for the manufacture of lime or cement.

(c) Crude.

(d) Great Britain only. There is a small, undisclosed production in Northern Ireland.

## Great Britain production of limestone and chalk for cement, 2000–2012

Thousand tonnes

Year	Limestone	Chalk	Total
2000	(a) 9 821	(a) 6 288	16 109
2001	10 123	5 111	15 234
2002	9 642	5 550	15 192
2003	9 573	5 360	14 933
2004	9 474	5 177	14 651
2005	...	...	13 235
2006	...	...	12 408
2007	...	...	13 837
2008	...	...	11 539
2009	...	...	8 208
2010	...	...	8 703
2011	...	...	9 936
2012	...	...	9 225

(a) BGS estimate.

Source: Office for National Statistics.

## Great Britain production of limestone, dolomite and chalk for agricultural uses, 2000–2012

Thousand tonnes

Year	Limestone	Dolomite	Chalk	Total	Calcination (a)
2000	...	...	...	1 749	2
2001	810	...	...	1 610	11
2002	789	...	...	1 639	...
2003	1 007	...	...	2 036	...
2004	921	...	...	1 811	...
2005	757	...	...	1 595	...
2006	...	...	...	1 709	...
2007	...	...	...	1 826	...
2008	...	...	...	1 629	...
2009	...	...	...	1 927	...
2010	...	...	...	1 795	...
2011	...	...	...	1 990	...
2012	965	...	...	1 580	...

(a) Comprises material included in the total which, after calcination, was used as lime and dolomitic lime.

Source: Office for National Statistics.

(b) BGS estimate.

## Great Britain production of limestone, dolomite and chalk for industrial uses, 2000–2012

Thousand tonnes

Year	Limestone	Dolomite	Chalk	Total	Calcination
2000	...	...	...	9 867	(a) 4 797
2001	6 357	...	...	9 625	(a) 4 925
2002	6 536	...	...	8 915	(b) 3 766
2003	6 799	...	...	9 684	(b) 3 906
2004	6 003	...	...	8 614	(b) 2 897
2005	...	...	...	8 456	(b) 2 721
2006	5 911	...	...	8 776	2 459
2007	5 945	...	...	8 713	2 885
2008	5 862	...	...	8 437	2 256
2009	2 577	...	...	4 408	831
2010	4 842	...	...	6 764	1 401
2011	5 401	...	...	7 478	2 262
2012	...	...	...	7 557	1 666

(a) Comprises material included in the total which, after calcination, was used for industrial purposes as lime or dolomitic lime. Excludes small amounts for agricultural purposes.

Source: Office for National Statistics.

(b) Including small amounts used for agricultural purposes but excluded from the total.

**Great Britain production of limestone, dolomite and chalk for industrial uses by end-use, 2000–2012**

Thousand tonnes

Year	Iron and steel making (a)	Chemicals (a)	Glass making	Special fillers	Asphalt fillers	Building materials	Water and effluent treatment and pollution control (a)	Total (a)
2000	...	1 864	...	...	192	474	1 144	9 867
2001	...	2 630	278	...	211	957	1 384	9 625
2002	...	...	233	1 759	164	...	1 154	8 915
2003	...	...	...	...	325	...	...	9 686
2004	...	...	...	...	149	...	...	8 615
2005	...	...	...	1 131	126	577	...	8 457
2006	4 390	...	280	983	...	624	...	8 776
2007	4 319	...	...	991	116	698	...	8 714
2008	4 089	...	...	928	105	529	1 362	8 439
2009	2 822	102	200	834	95	122	233	4 408
2010	3 035	...	...	912	85	332	...	6 766
2011	3 583	1 079	212	...	...	381	1 216	7 477
2012	2 960	1 086	210	1 245	94	559	1 402	7 556

(a) Including material for calcination.

Source: Office for National Statistics.

**Great Britain production of limestone, dolomite and chalk for calcination by end-use, 2000–2012**

Thousand tonnes

Year	Agriculture	Iron and Steel	Chemicals	Building materials	Others	Total
2000	2	2 301	1 864	474	158	4 799
2001	11	1 248	2 630	957	90	4 936
2002	...	1 228	1 922	537	...	3 766
2003	...	1 353	1 858	...	...	3 906
2004	...	1 463	...	...	...	2 897
2005	...	1 460	...	...	...	2 721
2006	...	1 230	...	...	...	2 459
2007	...	1 220	...	...	...	2 885
2008	...	1 113	...	...	...	2 256
2009	...	...	...	...	...	831
2010	...	...	...	...	...	1 401
2011	...	903	...	...	...	2 262
2012	...	...	...	...	...	1 666

Source: Office for National Statistics.

**Great Britain production of limestone, dolomite and chalk for iron and steel making, 2000–2012**

Thousand tonnes

Year	Limestone	Dolomite and chalk	Total	Calcination (a)
2000	2 500	...	...	2 301
2001	1 844	...	...	1 248
2002	1 866	...	...	1 228
2003	1 948	...	...	1 353
2004	1 592	...	...	1 463
2005	1 745	...	...	1 460
2006	...	...	4 390	1 230
2007	...	...	4 319	1 220
2008	...	...	4 089	1 113
2009	...	...	2 822	...
2010	...	...	3 035	...
2011	...	...	3 583	903
2012	...	...	2 960	...

(a) Comprises material included in the total which, after calcination, was used as lime or dolomitic lime.

Source: Office for National Statistics.

## England production of limestone by end-use 2000–2012

Thousand tonnes

Year	For constructional uses (a)										For other uses										Total
	Roadstone					Railway ballast	Concrete aggregate	Other screened and graded	Other constructional uses	Armour-stone & Gabion	Agricultural use	Iron and steel	Cement	Chemical uses	Building materials	Environmental & uses (d)	Glass making	Asphalt filler (b)	Other fillers (c)	Other uses	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings																
2000	278	4 079	3 363	18 648	...	...	10 654	...	23 897	...	537	1 620	...	...	...	...	115	...	...	2 983	74 954
2001	168	...	4 956	20 502	...	...	16 457	...	19 545	...	561	...	...	...	...	...	...	109	...	...	79 902
2002	145	3 726	3 755	13 931	...	—	15 985	...	21 697	...	524	...	7 595	...	...	...	...	107	...	3 045	73 528
2003	160	3 597	3 720	14 586	...	2	15 925	...	17 627	...	700	1 382	7 087	...	...	...	96	209	1 313	3 103	69 507
2004	...	3 829	1 918	13 029	1 015	394	11 949	7 863	18 760	94	686	948	7 122	1 156	...	...	114	113	1 013	...	72 173
2005	...	4 486	2 536	12 618	794	...	10 732	6 604	16 720	126	544	1 180	6 485	1 428	...	...	115	88	848	...	67 325
2006	369	4 758	2 406	13 681	...	...	11 605	6 681	15 142	279	623	1 751	5 981	...	...	...	...	...	...	...	67 356
2007	...	4 033	2 765	13 855	...	...	13 043	6 605	13 633	256	748	1 884	6 334	...	...	...	98	...	717	...	67 378
2008	298	3 342	3 499	10 525	...	...	12 716	5 033	12 967	322	654	1 898	5 684	...	...	...	112	...	667	...	60 738
2009	...	2 714	...	8 983	...	...	10 700	4 908	8 056	189	908	1 293	...	...	...	...	...	...	615	...	48 751
2010	...	...	...	7 778	...	...	9 114	4 152	4 843	171	846	1 249	5 326	...	...	...	...	...	633	...	47 569
2011 (a)	...	1 755	...	6 668	...	...	8 759	7 952	6 524	154	1 279	2 530	6 125	...	...	...	206	...	...	...	49 772
2012 (a)	392	1 373	...	6 333	...	...	8 837	5 863	7 294	244	988	2 162	5 561	...	...	...	...	68	975	...	46 976

(a) Including dolomite.

(b) For filler in asphalt and as mine dust.

(c) For other fillers, powders and whittings (e.g. in animal feed, polymers, paint, paper and pharmaceuticals).

(d) For water & effluent treatment and pollution control.

Source: Office for National Statistics.

## Wales production of limestone by end-use 2000–2012

Thousand tonnes

Year	For constructional uses (a)					For other uses														Total	
	Roadstone					Railway ballast	Concrete aggregate	Other screened and graded	Other constructional uses	Armour-stone & Gabion	Agricultural use	Iron and steel	Cement	Chemical uses	Building materials	Environmental uses (d)	Glass making	Asphalt filler (b)	Other fillers (c)		Other uses
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings																
2000	45	...	206	2 177	...	...	3 375	...	6 676	...	106	880	...	...	...	...	—	12	...	...	15 543
2001	44	...	328	1 731	...	...	4 299	...	4 802	...	101	...	...	...	...	...	—	—	8	...	14 238
2002	45	912	...	1 280	...	—	4 115	...	4 761	...	...	887	...	...	...	...	—	3	11	—	12 850
2003	39	866	...	1 756	...	...	...	...	3 845	...	133	565	1 238	...	...	...	—	...	...	—	13 208
2004	29	953	...	1 416	...	...	2 977	...	3 142	...	99	643	1 142	—	1	—	—	...	—	...	12 926
2005	9	...	...	1 474	...	...	1 829	1 912	3 471	...	100	565	...	—	—	—	—	...	—	...	12 759
2006	...	1 260	...	1 495	...	...	...	1 909	4 460	...	85	...	...	—	—	—	—	...	—	...	13 707
2007	13	...	...	1 584	...	...	...	1 767	...	...	89	...	1 491	—	—	—	...	...	—	...	14 549
2008	...	...	341	1 357	—	...	...	926	4 222	...	85	...	1 238	—	—	—	—	...	—	...	12 114
2009	...	...	...	1 472	1	...	2 011	560	1 221	25	...	...	...	—	—	—	—	...	—	...	8 131
2010	...	454	210	1 351	—	...	1 770	914	1 401	...	118	...	746	—	—	—	—	...	—	...	7 878
2011 (a)	...	345	...	964	—	...	1 831	...	1 352	...	...	...	818	—	—	—	—	...	—	...	7 897
2012 (a)	...	310	...	920	—	...	1 701	1 786	1 451	...	121	...	1 037	—	—	—	—	...	—	...	7 938

(a) Including dolomite.

(b) For filler in asphalt and as mine dust.

(c) For other fillers, powders and whittings (e.g. in animal feed, polymers, paint, paper and pharmaceuticals).

(d) For water & effluent treatment and pollution control.

(e) BGS estimate.

Source: Office for National Statistics.

## Scotland production of limestone by end-use 2000–2012

Thousand tonnes

Year	For constructional uses (a)					For other uses														Total	
	Roadstone					Railway ballast	Concrete aggregate	Other screened and graded	Other constructional uses	Armour-stone & Gabion	Agricultural use	Iron and steel	Cement	Chemical uses	Building materials	Environmental uses (d)	Glass making	Asphalt filler (b)	Other fillers (c)		Other uses
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings																
2000	...	...	—	90	...	—	17	...	149	...	...	—	...	...	...	...	—	...	...	—	1 722
2001	...	...	—	127	...	—	24	...	126	...	148	—	1 218	...	...	...	—	...	...	—	1 733
2002	1	26	...	96	...	—	12	...	119	...	...	—	1 160	...	...	...	—	...	...	—	1 635
2003	...	30	...	104	...	—	...	...	98	...	174	—	1 248	...	...	...	—	...	...	—	1 730
2004	...	77	...	112	...	—	4	...	79	...	136	—	1 210	—	—	—	—	...	...	...	1 746
2005	...	...	...	103	...	—	9	29	111	12	113	—	1 216	—	—	—	—	...	...	...	1 746
2006	...	44	...	77	...	—	...	30	128	...	...	—	1 042	—	—	—	—	...	...	...	1 534
2007	...	...	...	85	...	—	...	39	...	...	...	—	...	—	—	—	—	...	...	...	1 555
2008	...	...	—	78	...	—	...	136	23	...	...	—	...	—	—	—	—	...	...	...	1 473
2009	...	...	...	117	—	—	26	71	28	7	163	—	705	—	—	—	—	...	...	...	1 210
2010	—	...	...	105	...	—	31	53	21	...	...	—	...	—	—	—	—	...	...	...	1 072
2011(a)	...	—	—	150	...	—	27	...	26	...	...	—	...	—	—	—	—	...	...	...	1 251
2012(a)	—	—	—	74	—	—	13	15	35	5	...	—	...	—	—	—	—	...	...	...	1 120

(a) Including dolomite.

(b) For filler in asphalt and as mine dust.

(c) For other fillers, powders and whittings (e.g. in animal feed, polymers, paint, paper and pharmaceuticals).

(d) For water & effluent treatment and pollution control.

(e) BGS estimate.

Source: Office for National Statistics.

## Great Britain consumption of dolomite, limestone and lime in iron and steel production, 1977–2012

Thousand tonnes

Year	Dolomite, incl. calcined dolomite (dolime)			Limestone			Lime	
	Blast furnaces and sinter plants	Steel furnaces	Other purposes	Blast furnaces and sinter plants	Steel furnaces	Other purposes	Steel Furnaces	Other purposes
1977	643	192	—	1 487	252	5	1 175	14
1978	647	183	—	1 399	106	—	1 227	—
1979	859	323	—	1 090	116	—	1 323	—
1980	389	182	—	611	7	—	663	—
1981	400	308	—	1 031	2	—	911	—
1982	280	255	—	888	2	—	799	—
1983	400	298	—	1 164	1	—	865	—
1984	405	310	—	1 143	1	—	824	—
1985	425	284	—	1 562	—	—	801	—
1986	333	270	—	1 494	2	—	680	—
1987	405	275	—	1 827	—	—	761	—
1988	477	319	—	1 948	—	—	810	—
1989	430	315	—	2 062	—	—	822	—
1990	410	287	—	1 992	—	—	778	—
1991	323	264	—	2 124	—	—	696	—
1992	391	246	—	2 033	—	—	682	—
1993	276	238	—	2 077	—	—	719	—
1994	201	264	—	2 236	—	—	767	—
1995	67	316	—	2 318	—	—	787	—
1996	59	397	—	2 225	—	—	744	—
1997	42	462	—	2 445	—	—	751	—
1998	3	492	—	2 411	—	—	739	—
1999	5	364	—	2 408	—	—	698	—
2000	1	337	—	2 166	—	—	660	—
2001	7	254	—	1 889	—	—	561	—
2002	8	215	—	1 684	—	—	501	—
2003	8	246	—	2 019	—	—	530	—
2004	3	260	—	2 068	—	—	584	—
2005	0	243	—	1 951	—	—	593	—
2006	183	262	—	2 028	—	—	631	—
2007	184	291	—	1 822	—	—	585	—
2008	166	254	—	1 664	—	—	496	—
2009	145	224	—	1 095	—	—	378	—
2010	156	243	—	948	—	—	371	—
2011	127	217	—	932	—	—	395	—
2012	383	174	—	912	—	—	379	—

Source: Iron and Steel Statistics Bureau.

This table shows the consumption of fluxes used in iron and steelmaking. Dolomite and limestone are used in blast furnaces and in sinter plants, whilst lime and calcined dolomite, or dolime, are used in steelmaking. These figures do not entirely agree with those shown elsewhere for the production of limestone, dolomite and chalk for iron and steelmaking, even allowing for the conversion of lime and dolime to carbonate.

**Great Britain production of dolomite (a) by end-use 2000–2012**

Thousand tonnes

Year	Building stone	Constructional use	Agricultural use (b)	Other uses (b)	Total
2000	15	11 409	...	...	13 069
2001	34	12 381	...	...	14 314
2002	9	11 839	...	...	12 946
2003	7	10 391	...	...	...
2004	8	10 832	...	...	12 226
2005	...	...	...	...	11 514
2006	...	10 283	...	...	12 100
2007	...	5 898	...	...	7 622
2008	2	3 918	...	...	5 510
2009	...	1 954	...	...	3 164
2010	...	3 222	...	...	4 540
2011	(c)	(d) 3 124	...	...	4 490
2012	(c)	(d) 3 611	...	...	4 896

(a) Data also included in table for 'Limestone'.

Source: Office for National Statistics.

(b) Including material for calcination.

(c) Included in constructional use.

(d) Including building stone.

**England production of chalk by end-use 2000–2012**

Thousand tonnes

Year	Cement	Constructional use	Agricultural use	Industrial uses	Total
2000	(a) 6 288	683	...	352	9 213
2001	5 111	925	...	...	8 205
2002	5 550	904	...	...	8 587
2003	5 360	561	...	...	8 066
2004	5 177	705	...	...	7 997
2005	...	795	...	...	7 105
2006	...	681	...	...	7 376
2007	...	698	...	...	7 565
2008	...	497	...	...	5 874
2009	...	530	...	...	4 047
2010	...	312	...	...	3 626
2011	...	276	...	...	3 996
2012	...	327	...	...	3 473

(a) BGS estimate.

Source: Office for National Statistics.



# Lithium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Lithium</b>										
<i>Imports</i>										
Oxide and hydroxide	466	914	218	215	119	1 764	3 743	1 138	1 213	1 034
Carbonate	536	622	427	376	344	1 804	2 477	1 546	1 664	1 573
<i>Exports</i>										
Oxide and hydroxide	232	569	144	7	41	494	2 268	667	279	320
Carbonate	216	193	123	50	102	377	671	315	273	515

# Magnesia

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Magnesia</b>										
<i>Imports</i>										
Dolomite	146 620	149 802	149 695	144 280	105 741	4 954	4 612	4 961	5 675	3 963
Magnesite	7 016	3 567	8 640	7 903	5 059	906	556	1 438	1 413	973
Magnesia-										
Dead burned	14 239	8 178	5 716	6 235	15 493	4 028	3 378	3 216	3 388	6 077
Caustic-calcined	40 402	32 537	37 527	40 534	48 557	7 824	8 136	10 992	11 590	11 169
Other	4 659	3 158	5 833	5 494	6 280	4 186	3 628	5 624	5 563	5 473
Kieserite	14 047	11 610	18 284	11 158	15 082	2 506	2 437	3 960	2 951	3 231
Magnesite or chrome-magnesite refractory bricks and shapes (b)(c)	29 876	18 981	25 057	31 338	28 103	19 800	13 369	16 516	21 724	20 423
<i>Exports</i>										
Dolomite (a)	4 786	3 438	2 675	1 078	320	249	245	227	111	28
Magnesite	316	518	470	745	1 163	169	583	464	752	1 258
Magnesia-										
Dead burned	1 287	902	1 729	2 270	942	713	612	869	1 632	490
Caustic-calcined	1 778	1 703	4 927	19 316	8 082	1 064	1 543	3 642	6 512	2 587
Other	10 582	7 057	7 841	6 456	5 845	10 411	7 763	8 545	7 617	7 022
Kieserite	137	22	42	48	26	44	12	27	16	14
Magnesite or chrome-magnesite refractory bricks and shapes (b)(c)	1 364	651	459	1 525	3 235	2 091	1 156	792	1 123	2 014

(a) Crude.

(b) Fired bricks and shapes only: unfired (chemically bonded) products excluded.

(c) Including dolomite bricks.

# Magnesium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Magnesium</b>										
<i>Imports</i>										
Ferro-silico-magnesium	1 614	512	931	1 328	1 360	1 744	536	1 006	1 583	1 294
Scrap	1 685	748	875	847	702	816	380	819	767	455
Unwrought	3 813	1 763	3 171	2 810	3 233	8 700	3 740	6 231	6 507	7 206
Unwrought alloys	3 618	2 386	4 252	4 521	5 719	8 351	6 222	9 054	10 651	12 618
Wrought	4 750	3 576	6 631	6 893	6 276	16 710	13 762	22 348	24 407	23 520
<i>Exports</i>										
Ferro-silico-magnesium	976	458	366	338	327	1 231	709	457	550	485
Scrap	2 222	1 937	3 143	3 976	4 273	4 439	3 665	6 179	7 360	7 694
Unwrought	38	13	209	175	60	220	242	564	519	301
Unwrought alloys	4 062	2 470	1 872	2 110	2 230	14 155	13 412	11 007	13 536	16 810
Wrought	1 333	674	626	855	827	5 856	5 109	4 301	6 164	5 937

# Manganese

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Manganese</b>										
<i>Consumption in Iron and Steel Industry</i>										
Ore	4 100	20 500	—	—	—					
Ferro-manganese	93 990	69 770	67 560	65 870	66 320					
Ferro-silico-manganese	22 940	17 030	16 490	16 080	16 180					
<i>Apparent consumption (a)</i>	120 000	68 000	72 000	73 000	64 000					
<i>Imports</i>										
Ores & Concentrates (b)	4 133	941	1 517	1 656	1 597	1 045	613	678	828	878
Ferro-manganese	96 461	49 700	46 985	39 159	47 706	130 012	45 265	47 612	36 925	36 963
Ferro-silico-manganese	52 966	37 114	49 280	51 928	36 661	59 497	24 468	42 091	41 491	27 725
Scrap	751	83	155	102	54	1 528	172	285	222	96
Unwrought	7 895	3 295	4 499	4 329	3 417	15 160	4 488	7 178	9 039	6 118
Wrought	126	746	1 965	1 013	250	535	1 380	3 664	2 090	498
Oxides	7 913	5 438	9 344	12 323	11 482	3 348	3 009	4 433	6 064	6 030
<i>Exports</i>										
Ores & Concentrates	244	65	97	129	101	207	90	62	112	450
Ferro-manganese	1 210	963	8 361	819	658	1 293	933	8 522	1 210	848
Ferro-silico-manganese	49	65	52	132	7 503	27	59	55	75	1 320
Oxides	4 571	1 768	4 173	5 315	4 309	1 597	1 289	1 714	2 995	2 646
Metal (c)	3 200	2 200	2 000	2 100	1 600	6 400	4 600	4 100	5 600	3 800

(a) BGS estimates; see explanatory notes.  
 (b) Including manganiferous iron ore.

(c) BGS estimates, based on known imports into certain countries.

# Marble

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Marble</b>										
<i>Imports</i>										
Dimension stone-										
Unworked	37 444	26 787	21 339	20 655	17 548	21 150	16 466	15 556	14 965	11 446
Worked	114 870	100 648	92 078	88 210	99 130	74 273	70 696	59 417	53 335	63 383
Crushed and powdered	233 499	177 802	190 740	190 848	174 935	12 482	8 586	10 558	12 085	11 058
<i>Exports</i>										
Dimension stone-										
Unworked	1 019	728	822	698	402	264	493	1 221	805	364
Worked	2 934	1 603	1 332	965	1 224	5 292	3 294	3 310	1 967	2 322
Crushed and powdered	2 637	1 723	830	798	783	484	317	271	263	176

# Mercury

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Mercury</b>										
<i>Imports</i>										
Elemental	2	1	22	0	21	57	29	71	14	73
<i>Exports</i>										
Elemental	6	179	9	5	3	102	741	194	263	37

# Mica

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Mica</b>										
<i>Imports</i>										
Crude (a)	377	328	43	243	407	129	139	20	99	290
Ground	7 061	6 396	7 341	7 926	9 203	2 308	1 862	2 225	2 360	2 915
Waste	2 030	49	902	0	0	336	4	245	12	4
Worked	1 310	604	654	878	840	5 357	5 023	4 317	4 852	4 459
<i>Exports</i>										
Crude (a)	14	4	12	4	0	28	2	5	12	2
Ground	4 735	3 928	4 125	4 234	3 639	3 612	3 741	3 679	3 527	3 265
Waste	...	12	...	...	0	...	11	...	...	1
Worked	690	650	706	926	601	8 310	6 395	7 595	9 289	7 686

(a) Including sheets or splitting.

# Molybdenum

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Molybdenum</b>										
<i>Consumption in Iron and Steel Industry (a)</i>										
	2 700	940	1 330	1 740	1 650					
<i>Apparent consumption (a)(b)</i>	4 000	1 400	2 100	4 300	2 700					
<i>Imports</i>										
Roasted molybdenite concentrates	13 075	8 486	12 359	15 844	15 701	312 431	91 550	156 244	211 067	170 124
Other ores and concentrates	2 055	521	222	0	340	45 898	6 401	2 601	0	3 599
Ferro-molybdenum	369	325	322	573	458	9 489	4 028	5 292	8 950	5 648
Scrap	846	469	815	787	861	22 499	6 494	14 078	14 189	15 252
Powders	69	153	147	192	179	3 060	2 714	3 127	4 949	4 212
Unwrought	102	50	69	56	163	3 855	1 216	1 821	1 626	3 240
Wrought	69	34	68	380	284	4 158	1 424	2 969	4 797	2 402
Oxides and hydroxides	1 433	510	1 638	2 316	1 971	32 752	4 450	21 771	30 719	21 598
<i>Exports</i>										
Roasted molybdenite concentrates	3	3	288	3	32	72	30	3 559	30	404
Other ores and concentrates	61	32	17	0	0	1 145	130	80	0	4
Ferro-molybdenum	11 283	7 634	11 248	12 948	12 421	284 904	87 193	168 557	184 969	162 717
Scrap	217	356	490	299	280	5 848	4 490	7 061	5 236	3 888
Powders	—	53	31	48	52	34	745	1 000	1 477	1 486
Unwrought	2	3	13	7	4	54	61	308	228	193
Wrought	22	21	37	49	39	2 197	1 476	1 879	2 434	1 611

(a) Metal content.

(b) BGS estimates; see explanatory notes.

# Nepheline syenite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Nepheline syenite</b>										
<i>Imports</i>	44 275	32 462	39 092	35 573	30 744	4 355	3 516	4 038	4 475	3 128
<i>Exports</i>	902	204	291	337	403	520	62	83	101	116

# Nickel

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Nickel</b>										
<i>Production (a)</i>	40 800	17 800	31 600	37 400	34 300					
<i>Consumption</i>										
Iron and steel industry (b)	12 140	7 980	9 540	11 770	10 360					
Other (b)(c)	20 000	3 000	11 000	7 000	8 000					
Total (b)(d)	32 400	11 400	20 470	18 600	18 700					
<i>Imports</i>										
Mattes, sinters etc.	63 553	25 929	50 263	58 519	57 108	3 550	177 459	509 294	612 378	451 142
Ash and residues	0	...	...	10	0	6	...	...	1 497	3
Scrap	10 291	9 593	8 154	6 741	9 237	53 910	32 297	43 239	46 529	58 870
Ores & concentrates	241	150	16	1	0	3 550	1 701	165	16	7
Ferro-nickel	16 520	2 777	6 284	13 888	17 916	44 805	6 221	22 518	51 589	57 312
Unwrought	16 888	8 003	14 200	12 707	11 521	182 155	75 146	199 286	193 423	130 650
Unwrought alloys	3 210	3 596	3 310	4 644	4 771	38 922	39 009	41 797	66 642	68 600
Oxides	13	1	6	5	6	158	31	142	172	113
<i>Exports</i>										
Mattes, sinters etc.	26	107	389	157	111	902	617	1 283	1 502	1 652
Ash and residues	13 588	6 450	8 995	10 789	10 503	74 891	24 272	80 198	104 565	66 965
Ores & concentrates	61	182	54	51	55	381	2 322	974	1 084	856
Scrap	18 229	12 693	19 361	17 405	33 614	74 878	39 925	66 581	83 488	96 819
Ferro-nickel	81	18	15	49	539	1 779	350	327	385	477
Unwrought	26 235	15 834	18 639	28 994	30 322	324 550	142 166	258 660	416 592	348 945
Unwrought alloys	4 378	4 753	4 530	6 025	6 711	72 035	68 164	75 753	111 615	114 078
Oxides	19	8	2	2	2	316	157	87	79	100

(a) Nickel content of refinery products.

(d) Including the nickel content of ferro-nickel and other smelter products.

(b) Metal content.

(c) Not independently recorded; obtained by subtraction. Believed to include stocks.

# Niobium (see Tantalum and Niobium)

## Peat

### United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Thousand cubic metres					£ thousand				
<b>Peat</b>										
<i>Production</i>	760	887	1 004	825	568					
<i>Imports</i>										
Peat and agglomerated peat	430 590	448 001	622 917	639 755	563 343	26 555	25 285	33 268	36 665	36 986
<i>Exports</i>										
Peat and agglomerated peat	41 645	42 965	51 867	53 505	55 276	4 859	7 546	6 647	7 423	6 850

# Perlite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Perlite</b>										
<i>Imports</i>	45 064	36 315	(v) 58 456	(v) 98 437	(v) 66 298	3 304	2 675	(v) 5 357	(v) 12 950	(v) 8 508
<i>Exports</i>	702	414	(v) 1 059	(v) 1 116	(v) 1 228	74	90	(v) 822	(v) 825	(v) 845

(v) Figure also includes perlite and chlorites.

# Petroleum (also see Primary fuels)

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Petroleum</b>										
<i>Production</i>										
Crude petroleum	65 497 000	62 820 000	58 047 000	48 571 000	42 052 000					
Condensates and other (a)	6 168 000	5 378 000	4 915 000	3 401 000	2 508 000					
Refined petroleum products	80 563 000	74 828 000	72 977 000	74 707 000	68 690 000					
<i>Consumption (inland deliveries) of refined products</i>										
Used as fuels-										
Refineries	4 706 000	4 304 000	4 378 000	4 586 000	4 255 000					
Power Generation	1 845 000	1 688 000	1 177 000	792 000	807 000					
Elsewhere	59 667 000	57 142 000	56 750 000	55 706 000	55 103 000					
Not used as fuels	8 399 000	7 610 000	7 675 000	7 206 000	6 465 000					
Total	74 616 000	70 744 000	69 980 000	68 291 000	66 631 000					
<i>Imports</i>										
Crude petroleum	52 103 843	50 656 965	50 447 008	53 647 056	56 471 508	20 537 880	14 519 898	19 489 775	28 080 175	30 309 019
Partly refined petroleum and refined products	26 175 761	26 122 966	26 913 407	26 595 080	10 540 341	12 769 749	9 287 712	11 996 861	15 786 493	6 584 613
<i>Exports</i>										
Crude petroleum	43 354 245	43 550 953	41 591 305	34 304 184	33 679 090	16 674 142	12 536 388	15 840 899	17 100 556	17 913 368
Partly refined petroleum and refined products	31 936 044	32 271 444	31 346 754	32 980 472	5 230 749	13 373 616	10 482 121	13 746 412	18 818 633	3 190 550

(a) Including ethane, propane and butane, in addition to condensates.

## Oil and gas field statistics

United Kingdom production data for onshore and offshore crude petroleum and natural gas by field are provided by the Department of Energy and Climate Change. To view these data please visit: <https://www.gov.uk/oil-and-gas-uk-field-data>.

# Natural gas

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Natural gas</b>										
<i>Production</i>										
Methane										
Colliery (a)	63 000	67 000	63 000	58 000	61 000					
Offshore and onshore (a)	69 617 000	59 670 000	57 124 000	45 233 000	38 873 000					
<i>Consumption (b)</i>	92 773 000	86 441 000	93 520 000	77 628 000	73 255 000					
<i>Imports</i>										
Liquefied natural gas (c)	766 298	9 508 135	17 522 810	23 278 977	12 715 376					
Natural gas in gaseous state (c)	33 229 849	29 055 363	32 458 908	26 416 914	33 285 481					
Total (c)	33 996 147	38 563 499	49 981 718	49 695 891	46 000 857	6 425 000	4 775 000	7 120 000	9 630 000	9 830 000
Other natural gas (d)	1 046 202	533 498	568 388	546 281	481 319	465 986	164 980	255 576	308 636	281 460
<i>Exports</i>										
Liquefied natural gas and										
natural gas in gaseous state (c)	9 543 217	11 160 939	14 461 473	15 239 637	11 325 170	1 945 000	1 420 000	1 990 000	3 115 000	3 075 000
Other natural gas (d)	3 295 288	2 798 642	2 584 168	2 332 695	2 325 469	1 318 884	865 965	1 181 234	1 277 730	1 312 781

(a) Oil equivalent: converted from original data at 397 therms = 1 tonne.

(b) Tonnes oil equivalent: excluding minor consumption for non-energy use.

(c) Tonnes of oil equivalent, converted from GWh using 85.985 tonnes of oil equivalent to 1 GWh. Source: Department of Energy and Climate Change.

(d) Includes propane, liquefied propane, butane, liquefied butane, ethylene, gaseous hydrocarbons.

# Phosphorus

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Phosphorus</b>										
<i>Consumption in Iron and Steel Industry</i>										
Ferro-phosphorus	1 160	860	840	820	820					
<i>Imports</i>										
Phosphate rock	28 971	5 600	9 873	15 885	15 314	3 604	865	1 020	1 602	1 959
Ammonium phosphates	105 024	102 567	109 084	98 794	108 350	48 306	27 488	36 326	42 713	43 421
Superphosphates	126 083	126 402	219 783	166 269	124 791	53 975	21 044	51 763	57 417	39 431
Other phosphatic fertilisers	24 870	4 986	11 266	9 560	10 888	5 319	443	1 395	1 397	1 658
Elemental phosphorus	0	108	152	1 585	3 932	36	734	324	3 352	8 970
Phosphoric acids	110 067	77 210	90 655	87 356	83 186	64 480	51 989	45 147	51 810	44 563
Calcium phosphates	79 069	81 205	68 902	86 333	90 653	32 904	26 146	22 009	35 390	36 379
Sodium phosphates and orthophosphates	16 482	14 249	11 258	12 005	10 829	17 662	14 639	10 362	11 198	10 277
Polyphosphates including ammonium and sodium	29 107	27 030	28 450	28 853	24 832	25 957	21 591	21 318	26 133	22 760
<i>Exports</i>										
Phosphate rock	759	514	615	573	60	622	353	634	359	79
Ammonium phosphates	31 217	179	170	317	197	20 978	392	363	497	502
Superphosphates	...	236	235	1 147	35	23	104	68	376	41
Other phosphatic fertilisers	...	17	42	139	76	...	27	40	38	155
Elemental phosphorus	100	0	16	4	13	132	12	55	52	146
Phosphoric acids	4 020	3 554	3 251	2 347	3 616	4 991	3 851	2 605	2 207	2 850
Calcium phosphates	5 704	3 506	2 459	3 716	3 171	4 466	3 017	1 981	2 704	2 517
Sodium phosphates and orthophosphates	2 443	1 326	1 389	694	1 147	2 950	2 021	2 147	1 472	1 653
Polyphosphates including ammonium and sodium	15 790	11 765	8 666	4 285	3 259	18 665	15 541	9 716	5 465	4 260

# Platinum group metals

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Platinum group metals</b>										
<i>Imports</i>										
Unwrought or partly worked-										
Platinum	30	30	59	46	54	432 806	568 901	1 866 543	1 567 856	1 631 810
Palladium	33	37	73	42	60	135 692	214 272	728 069	630 010	784 502
Other platinum metals	5	7	9	8	4	252 822	114 883	219 027	179 756	72 704
Waste & scrap	1 417	1 100	820	1 557	2 164	696 282	435 759	475 114	792 811	765 455
<i>Exports</i>										
Unwrought or partly worked-										
Platinum	41	43	24	38	55	1 069 051	954 655	787 176	1 272 690	1 731 992
Palladium	47	53	43	51	56	329 534	284 178	455 590	744 465	749 089
Other platinum metals	23	20	23	17	19	1 047 491	271 233	416 542	354 043	338 769
Waste & scrap	4 279	4 273	528	287	1 067	84 625	50 605	62 151	38 349	87 674



# Potassium compounds

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Potassium compounds</b>										
<i>Indigenous production</i>										
KCl product	673 000	(a) 700 000	(a) 700 000	(a) 770 000	(a) 900 000					
<i>Apparent consumption</i>										
Potassic fertilisers										
(K <sub>2</sub> O content) (b)	254 700	(a) 134 000	(a) 327 000	(a) 205 000	(a) 230 000					
<i>Imports</i>										
Sulphate	15 157	15 766	15 766	13 232	10 795	4 423	6 380	4 068	4 751	4 228
Chloride	165 331	80 842	270 096	153 141	161 388	...	33 207	71 094	49 041	46 531
Other potassic fertilisers	11 919	10 422	10 565	2 373	7 899	2 364	1 450	1 471	508	677
<i>Exports</i>										
Sulphate	93	443	71	108	118	42	311	75	54	164
Chloride (c)	244 300	205 600	339 000	429 000	440 000	102 000	80 000	102 000	112 000	106 000
Other potassic fertilisers	562	228	420	5 283	15 732	487	261	513	1 473	2 460

(a) BGS estimates.

(b) Home deliveries plus imports.

(c) BGS estimates, based on known imports into certain countries.

# Precious and semi-precious stones

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Precious and semi-precious stones</b>										
<b>(excluding diamond) (a)</b>										
<i>Imports</i>										
Natural stones	97	124	416	319	347	105 565	94 979	126 780	135 843	133 752
Synthetic stones	69	66	84	103	39	5 184	4 048	4 638	5 609	5 490
Dust and powder	2	1	4	5	3	686	352	382	572	605
<i>Exports</i>										
Natural stones	3	5	11	9	41	100 384	80 485	106 276	137 162	136 544
Synthetic stones	5	1	24	20	26	3 381	10 250	6 182	3 033	3 116
Dust and powder	9	6	8	1	6	560	519	701	352	546

(a) Unworked, cut or otherwise worked, but not mounted, set or strung.

# Primary fuels

## United Kingdom production of primary fuels 1986–2012 (energy supplied basis)

Million tonnes of oil equivalent (a)

Year	Coal	Petroleum	Natural gas (b)	Nuclear electricity	Hydro-electricity (c)	Total (d)
1986	66	139	42	15	0	262
1987	63	135	44	14	0	257
1988	63	126	42	17	0	249
1989	61	100	41	18	0	221
1990	56	100	46	16	0	219
1991	58	100	51	17	0	227
1992	52	104	52	19	1	227
1993	42	110	61	22	1	235
1994	30	139	65	21	0	257
1995	33	143	71	21	1	270
1996	31	142	84	22	0	282
1997	30	140	86	23	0	282
1998	26	145	90	23	1	287
1999	23	150	99	22	1	298
2000	20	138	108	20	1	289
2001	20	128	106	21	0	277
2002	19	127	104	20	1	273
2003	18	116	103	20	0	260
2004	16	105	96	18	1	238
2005	13	93	88	18	1	217
2006	11	84	80	17	1	197
2007	11	84	72	14	1	186
2008	11	79	70	12	1	177
2009	11	75	60	15	1	167
2010	11	69	57	14	1	158
2011	12	57	45	16	2	137
2012	11	49	39	15	3	122

(a) Based on a standard 'tonne of oil equivalent' equal to 397 therms.

(b) Including colliery methane.

(c) Including, from 1988, other renewable primary electricity sources (wind, etc.).

(d) Including, from 1988, small amounts of primary heat sources (solar, geothermal, etc.), solid renewable sources (wood, waste, etc.) and gaseous renewable sources (landfill gas, sewage gas, etc.).

Source: Department of Energy and Climate Change.

**United Kingdom consumption of energy (primary fuel input) 1986–2012 (energy supplied basis)**

Million tonnes of oil equivalent (a)

Year	Coal	Petroleum	Natural gas (b)	Nuclear electricity	Hydro-electricity (c)	Net imports of electricity	Total (d)
1986	70	71	53	15	0	0	210
1987	72	69	54	14	0	1	211
1988	70	74	51	17	0	1	213
1989	67	75	49	18	0	1	211
1990	67	77	51	16	0	1	214
1991	67	77	55	17	0	1	220
1992	63	78	55	19	1	1	217
1993	55	78	63	22	1	1	221
1994	51	77	65	21	0	2	218
1995	50	76	71	21	0	1	221
1996	46	76	83	22	0	1	231
1997	41	74	84	22	0	1	225
1998	41	75	87	23	1	1	231
1999	36	76	93	22	1	1	231
2000	38	77	96	20	1	1	234
2001	41	76	96	21	0	1	237
2002	38	73	94	20	1	1	230
2003	40	73	95	20	0	0	231
2004	39	75	97	18	1	1	234
2005	40	78	94	18	1	1	236
2006	43	77	89	17	1	1	233
2007	41	76	90	14	1	0	227
2008	38	74	93	12	1	1	225
2009	31	71	86	15	1	0	211
2010	33	70	94	14	1	0	219
2011	32	68	78	16	2	1	203
2012	41	67	73	15	2	1	207

(a) Based on a standard 'tonne of oil equivalent' equal to 397 therms.

(b) Including colliery methane.

(c) Including, from 1988, other renewable primary electricity sources (wind, etc.).

(d) Including, from 1988, small amounts of primary heat sources (solar, geothermal, etc.), solid renewable sources (wood, waste, etc.) and gaseous renewable sources (landfill gas, sewage gas, etc.).

Source: Department of Energy and Climate Change.

# Pumice

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Pumice</b>										
<i>Imports</i>	2 259	1 668	2 062	2 067	1 255	2 013	1 130	1 183	810	512
<i>Exports</i>	76	307	704	136	87	293	534	997	448	129

# Pyrite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Pyrite</b>										
<i>Imports</i>										
Iron pyrites (incl.cupreous)-										
Unroasted	704	104	2 581	1 734	168	153	38	1 333	502	148
Roasted	693	232	—	598	150	98	67	—	138	25
<i>Exports</i>										
Iron pyrites (incl.cupreous)-										
Unroasted	161	21	2	40	27	5	62	5	53	258
Roasted	90	0	28	10	16	15	10	15	5	7

# Quartz and quartzite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Quartz and quartzite</b>										
<i>Imports</i>										
Quartzite	353	318	92	161	386	324	213	137	171	252
Quartz	4 036	1 989	4 015	6 108	7 739	3 140	2 372	4 013	6 075	8 119
<i>Exports</i>										
Quartzite	99	25	34	0	2	102	14	20	9	5
Quartz	657	832	1 045	744	488	344	1 115	771	607	459

# Radioactive and associated materials

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Radioactive and associated materials</b>										
<i>Imports</i>										
Natural and enriched uranium, plutonium, artificial radioactive isotopes, and their compounds	...	...	...	...	...	1 130 734	1 330 313	1 258 131	1 273 267	1 260 640
<i>Exports</i>										
Natural and enriched uranium, isotopes, and their compounds	...	...	...	...	...	1 626 085	1 808 150	2 113 690	1 692 614	1 752 845

# Rare earths

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Rare earths</b>										
<i>Imports</i>										
Metals (a)	133	99	119	79	65	1 297	907	2 231	2 300	3 574
Cerium compounds	2 067	612	1 119	1 713	485	5 802	1 932	4 694	24 746	6 061
Other rare earth compounds (b)	251	103	322	629	518	3 461	3 648	3 999	8 282	8 458
Ferro-cerium & other pyrophoric alloys	57	148	150	79	14	109	210	173	146	217
<i>Exports</i>										
Metals (a)	237	54	46	272	54	798	503	1 158	1 702	1 188
Cerium compounds	73	105	182	149	273	1 257	1 692	2 349	2 409	3 925
Other rare earth compounds (b)	622	459	614	347	214	2 673	2 606	5 033	6 094	3 782
Ferro-cerium & other pyrophoric alloys	7	6	37	48	79	86	113	439	136	488

(a) Including yttrium and scandium.

(b) Including yttrium and scandium compounds.

# Salt

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Salt</b>										
<i>Production</i>										
	5 565 000	6 166 000	6 666 000	6 060 000	6 152 000					
<i>Imports</i>										
	237 288	410 434	1 288 253	1 814 865	418 028	21 973	30 365	64 295	89 009	48 319
<i>Exports</i>										
	873 708	449 303	450 246	489 633	396 155	33 995	31 509	35 354	41 551	38 516

# Sand and gravel (see also Aggregates)

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Sand and gravel</b>										
<i>Production</i>										
Sand & gravel (a)	85 473 000	66 226 000	61 700 000	(b)63 100 000	(b)56 600 000					
<i>Consumption</i>										
Building sand (c)	10 595 000	7 941 000	7 710 000	7 549 000	7 391 000					
Concreting sand (c)	26 885 000	21 570 000	20 947 000	22 591 000	24 297 000					
Gravel and hoggin (c)	34 648 000	26 199 000	19 052 000	24 875 000	22 943 000					
Total (c)	72 127 000	55 709 000	54 330 000	55 015 000	60 335 000					
<i>Imports</i>	647 603	444 725	343 749	357 607	519 089	16 043	12 212	10 874	12 455	16 436
<i>Exports (d)</i>	7 747 635	6 236 662	6 081 730	5 413 300	4 572 346	50 027	48 688	44 819	45 163	36 053

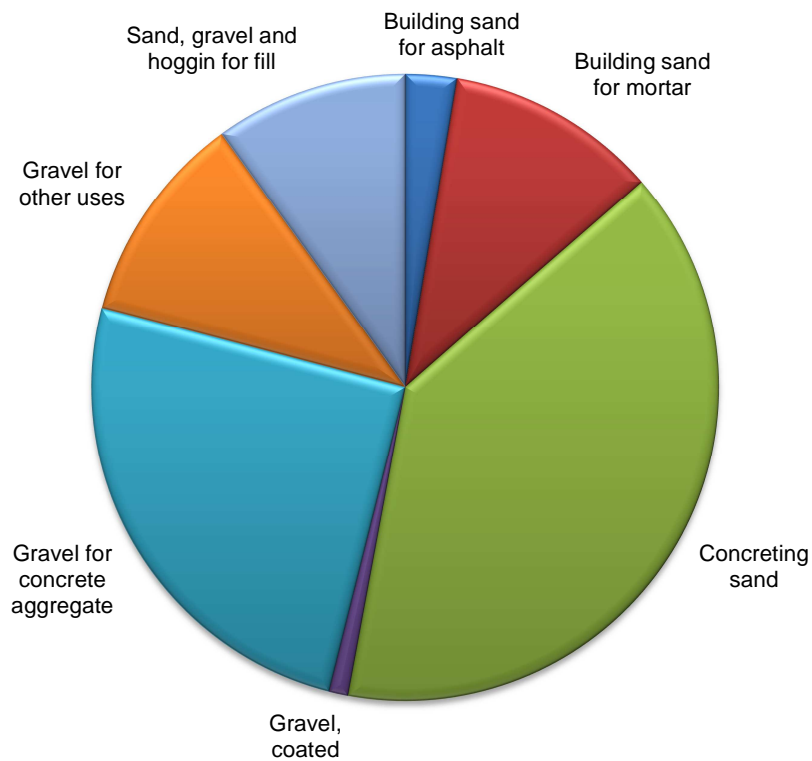
(a) Including production from marine dredging.

(b) Includes an estimate for Northern Ireland.

(c) Great Britain: production for the home market including landings of marine dredged materials at British ports.

(d) Principally marine dredged sand and gravel. Source: HM Revenue and Customs. However, the Crown Estate Commissioners give the following figures for marine dredged sand and gravel landed at foreign ports (tonnes): 2008: 6 211 703; 2009: 5 660 522; 2010: 5 192 348; 2011: 6 098 020; 2012: 4 548 675.

## Great Britain production of sand and gravel by end-use 2012 (total production 50 million tonnes)



**United Kingdom production of sand and gravel 1990–2012**

Million tonnes

Year	Land-based production			Marine-dredged			Total production United Kingdom	For beach replenishment (c) (e)
	Great Britain (a)	Northern Ireland (b)	Total	For home market (a)	For export (c)	Total		
1990	99.0	4.0	103.0	17.2	3.8	21.0	124.0	2.3
1991	85.5	3.8	89.3	12.4	4.6	17.0	106.3	1.9
1992	78.3	3.7	82.0	10.6	6.3	16.9	98.9	1.3
1993	79.4	4.3	83.7	10.1	6.2	16.3	100.0	0.8
1994	86.3	5.1	91.5	11.3	6.6	18.0	109.4	1.3
1995	78.0	5.3	83.3	11.6	6.8	18.4	101.7	5.2
1996	70.5	5.3	75.7	11.5	6.7	18.2	93.9	7.2
1997	74.4	5.1	79.5	12.0	6.9	18.9	98.4	4.9
1998	73.0	5.3	78.3	13.0	7.0	20.0	98.3	2.4
1999	74.8	5.5	80.3	13.4	7.2	20.7	101.0	2.8
2000	74.9	5.1	80.0	14.4	7.3	21.7	101.6	2.4
2001	74.6	6.2	80.8	13.6	7.0	20.6	101.4	1.6
2002	69.9	5.5	75.4	12.8	6.2	19.0	94.4	1.5
2003	68.1	4.9	73.0	12.1	6.1	18.2	91.2	2.1
2004	73.1	5.1	78.1	13.0	6.1	19.2	97.3	1.8
2005	69.4	5.8	75.2	13.0	6.5	19.5	94.7	1.5
2006	66.3	5.2	71.5	14.0	6.7	20.7	92.1	4.1
2007	64.7	8.1	72.8	13.8	6.6	20.4	93.2	2.1
2008	59.5	7.1	66.6	12.6	6.2	18.8	85.5	2.2
2009	46.1	4.9	51.0	9.6	5.7	15.3	66.2	4.5
2010	45.0	2.2	47.2	9.3	5.2	14.5	61.7	1.0
2011	43.8	(d) 2.0	45.8	11.2	6.1	17.3	63.1	1.5
2012	39.8	(d) 2.0	41.8	10.2	4.5	14.7	56.5	1.7

Sources:

- (a) Office for National Statistics.
- (b) Department of Enterprise, Trade & Investment.
- (c) Crown Estate Commissioners.
- (d) BGS estimate.

- (e) These figures for marine-dredged sand and gravel used for beach replenishment and contract fill may be included in home market production, and have therefore not been included in the totals.

## Great Britain production of sand and gravel by end-use and area of origin 2012

Thousand tonnes

Area of origin	Sand		Gravel				Sand, gravel and hoggin for fill	Total
	Building sand		Concreting sand	Coated with a bituminous binder	Concrete aggregate	Other screened & graded gravels (c)		
	For asphalt	For use in mortar						
North East	...	...	(a) ...	—	(a) ...	...	(a) ...	(a) ...
Yorkshire and the Humber	...	...	...	...	(a) ...	...	...	(a) 3 191
East Midlands	...	...	...	...	...	...	...	...
East of England	...	(a) ...	(a) ...	...	(a) ...	(a) ...	(a) ...	(a) ...
South East	(a) ...	(a) ...	(a) ...	...	(a) ...	(a) ...	(a) ...	(a) ...
South West	...	(a) ...	(a) ...	...	(a) ...	(a) ...	(a) ...	(a) ...
West Midlands	...	...	...	...	...	...	...	...
North West	...	(a) ...	(a) ...	—	27	...	...	...
<b>England</b>								
Land-won	...	...	...	...	...	...	...	33 229
Marine (b)	...	...	...	...	...	...	...	9 680
<b>Total</b>	<b>(a) ...</b>	<b>(a) 4 527</b>	<b>(a) 16 860</b>	...	<b>(a) 11 421</b>	<b>(a) 4 480</b>	<b>(a) 4 406</b>	<b>(a) 42 909</b>
<b>Wales</b>								
Land-won	...	...	...	—	...	...	...	751
Marine (b)	...	...	...	—	...	...	...	613
<b>Total</b>	<b>(a) ...</b>	<b>(a) 388</b>	<b>(a) 703</b>	—	<b>(a) 162</b>	<b>(a) 69</b>	<b>(a) ...</b>	<b>(a) 1 364</b>
<b>Scotland</b>								
<b>Total</b>	...	<b>559</b>	<b>2 135</b>	...	<b>1 009</b>	<b>931</b>	...	<b>5 772</b>
<b>Great Britain</b>								
Land-won	...	4 883	15 097	491	8 550	4 651	...	39 753
Marine (b)	...	591	4 600	—	4 042	829	...	10 291
<b>Total</b>	<b>(a) 1 326</b>	<b>(a) 5 474</b>	<b>(a) 19 679</b>	<b>491</b>	<b>(a) 12 592</b>	<b>(a) 5 480</b>	<b>(a) 4 985</b>	<b>(a) 50 044</b>

(a) Including marine-dredged material.

(b) Excluding marine-dredged landings at foreign ports (exports).

(c) This heading is now believed to include material previously classified as construction fill.

Source: Office for National Statistics.



**Great Britain production of sand and gravel (a) by region 1981–2012**

Thousand tonnes

Year	North East (b)	North West (c)	Yorks. & the Humber	West Midlands	East Midlands	East of England (d)	South East (e)	South West	England	Wales	Scotland	Great Britain
1981	2 798	3 043	4 668	8 109	9 217	6 532	35 864	5 843	76 074	3 492	9 886	89 453
1982	2 685	3 410	4 397	9 892	9 100	7 026	35 374	6 017	77 901	3 444	9 861	91 206
1983	3 087	3 730	4 690	9 847	10 470	7 581	39 035	8 017	86 457	4 033	10 309	100 799
1984	3 062	4 080	4 680	10 827	10 604	6 934	38 862	7 010	86 060	3 437	10 178	99 675
1985	2 717	3 823	4 537	10 728	10 609	7 540	39 930	6 981	86 865	3 420	11 320	101 605
1986	2 863	4 036	4 686	10 486	11 743	7 547	42 192	7 152	90 706	4 083	10 710	105 498
1987	2 932	4 006	4 780	11 095	13 348	8 306	43 563	8 495	96 525	4 793	10 311	111 629
1988	3 291	4 156	5 306	14 138	15 603	11 361	50 970	9 843	114 667	4 734	10 753	130 154
1989	3 802	4 709	5 722	14 020	15 892	10 145	51 208	9 142	114 640	4 588	12 004	131 232
1990	3 951	4 641	5 485	12 581	14 051	8 762	42 516	7 559	99 547	3 990	12 634	116 172
1991	3 017	4 243	4 960	10 698	12 683	7 288	33 318	6 045	82 253	3 439	12 226	97 918
1992	2 732	3 894	4 028	9 976	12 072	6 456	28 590	6 171	73 290	3 205	11 774	88 898
1993	2 856	4 028	4 539	10 345	12 364	5 962	28 600	6 138	74 833	3 278	11 359	89 470
1994	3 268	4 843	4 907	12 207	12 860	6 947	31 140	6 765	82 937	3 312	11 423	97 672
1995	3 086	4 529	4 333	10 722	11 556	6 550	28 046	6 684	75 506	3 260	10 889	89 656
1996	2 909	3 792	3 923	9 633	10 827	5 623	26 485	5 790	68 983	3 111	9 904	81 997
1997	3 109	4 294	4 041	9 966	10 899	5 899	29 154	6 054	73 416	3 050	9 900	86 366
1998	3 056	3 579	4 381	9 721	10 416	5 979	29 637	6 166	72 935	2 959	10 074	85 968
1999	3 117	3 801	4 872	9 901	10 216	6 395	30 821	6 016	75 139	3 039	10 031	88 209
2000	2 003	4 003	4 559	9 879	10 253	15 637	22 553	7 385	76 272	2 939	10 022	89 234
2001	1 566	3 402	5 171	9 894	9 716	15 694	22 004	7 126	74 572	2 886	10 753	88 210
2002	1 344	3 890	4 999	9 159	9 608	15 317	19 872	7 131	71 320	2 758	8 643	82 721
2003	1 254	5 220	4 770	9 590	9 842	14 381	17 915	6 413	69 385	2 733	8 103	80 221
2004	1 576	3 992	5 197	9 401	10 906	15 461	19 885	8 065	74 482	3 120	8 455	86 057
2005	1 575	3 674	5 248	9 250	9 235	15 561	19 362	6 934	70 838	2 746	8 808	82 392
2006	1 471	3 599	5 016	9 396	8 979	13 588	20 194	6 793	69 035	2 615	8 592	80 242
2007	1 411	3 592	5 098	10 025	8 485	13 283	18 442	6 801	67 137	2 339	9 025	78 501
2008	1 288	2 813	5 014	10 476	7 477	12 060	16 582	5 960	61 669	2 361	8 097	72 127
2009	1 110	2 121	3 235	6 397	5 798	9 980	13 211	4 677	46 529	1 668	7 512	55 709
2010	1 150	1 841	3 195	6 074	5 503	9 711	13 145	4 714	45 332	1 633	7 365	54 330
2011	...	...	3 441	6 418	...	...	...	...	47 039	1 610	6 366	55 015
2012	...	...	3 191	...	...	...	...	...	42 909	1 364	5 772	50 044

(a) Including marine-dredged material.

(b) From 2000, excludes Cumbria.

(c) From 2000, includes Cumbria.

(d) From 2000, includes Essex, Hertfordshire and Bedfordshire.

(e) From 2000, excludes Essex, Hertfordshire and Bedfordshire.

Source: Office for National Statistics.

England production of sand and gravel by end-use 1999–2012

Thousand tonnes

Year	Sand		Gravel				Sand, gravel and hoggin for fill	Total
	Building sand		Concreting sand	Coated with a bituminous binder	Concrete aggregate	Other screened & graded gravels (b)		
	For asphalt	For use in mortar						
<b>1999</b>								
Land-won	...	...	22 936	...	20 421	...	7 591	62 954
Marine (a)	...	...	4 297	...	7 292	...	167	12 185
<b>Total</b>	<b>1 847</b>	<b>9 372</b>	<b>27 234</b>	<b>150</b>	<b>27 713</b>	<b>1 065</b>	<b>7 758</b>	<b>75 139</b>
<b>2000</b>								
Land-won	...	9 189	22 769	...	20 164	746	...	63 196
Marine (a)	...	345	4 206	...	8 272	—	...	13 076
<b>Total</b>	<b>1 817</b>	<b>9 533</b>	<b>26 975</b>	<b>135</b>	<b>28 436</b>	<b>746</b>	<b>8 631</b>	<b>76 272</b>
<b>2001</b>								
Land-won	...	...	...	...	...	...	...	62 177
Marine (a)	...	...	...	...	...	...	...	12 395
<b>Total</b>	<b>1 605</b>	<b>9 317</b>	<b>27 658</b>	<b>189</b>	<b>26 731</b>	<b>3 994</b>	<b>5 077</b>	<b>74 572</b>
<b>2002</b>								
Land-won	...	...	...	...	...	...	...	59 633
Marine (a)	...	...	...	...	...	...	...	11 687
<b>Total</b>	<b>1 397</b>	<b>9 233</b>	<b>27 331</b>	...	<b>25 422</b>	<b>3 580</b>	...	<b>71 320</b>
<b>2003</b>								
Land-won	...	...	...	...	...	...	...	58 484
Marine (a)	...	...	...	...	...	...	...	10 901
<b>Total</b>	...	<b>9 810</b>	<b>27 452</b>	...	<b>24 110</b>	<b>2 927</b>	<b>3 718</b>	<b>69 385</b>
<b>2004</b>								
Land-won	1 876	...	...	285	...	...	...	62 735
Marine (a)	—	...	...	—	...	...	...	11 747
<b>Total</b>	<b>1 876</b>	<b>9 268</b>	<b>27 856</b>	<b>285</b>	<b>25 013</b>	<b>3 931</b>	<b>6 253</b>	<b>74 482</b>
<b>2005</b>								
Land-won	1 303	...	...	261	...	4 970	...	58 926
Marine (a)	—	...	...	—	...	66	...	11 912
<b>Total</b>	<b>1 303</b>	<b>9 514</b>	<b>25 882</b>	<b>261</b>	<b>23 382</b>	<b>5 036</b>	<b>5 459</b>	<b>70 838</b>
<b>2006</b>								
Land-won	1 847	...	...	199	...	...	...	56 148
Marine (a)	—	...	...	—	...	...	...	12 887
<b>Total</b>	<b>1 847</b>	<b>7 985</b>	<b>25 618</b>	<b>199</b>	<b>23 328</b>	<b>4 565</b>	<b>5 492</b>	<b>69 035</b>
<b>2007</b>								
Land-won	...	...	...	226	...	...	...	54 512
Marine (a)	...	...	...	—	...	...	...	12 625
<b>Total</b>	<b>1 864</b>	<b>8 128</b>	<b>25 891</b>	<b>226</b>	<b>21 247</b>	<b>4 493</b>	<b>5 288</b>	<b>67 137</b>
<b>2008</b>								
Land-won	...	...	...	...	...	...	...	50 134
Marine (a)	...	...	...	...	...	...	...	11 535
<b>Total</b>	<b>1 622</b>	<b>6 985</b>	<b>23 048</b>	<b>66</b>	<b>17 071</b>	<b>3 317</b>	<b>9 560</b>	<b>61 669</b>
<b>2009</b>								
Land-won	...	...	...	542	...	...	...	37 810
Marine (a)	...	...	...	—	...	...	...	8 719
<b>Total</b>	<b>1 020</b>	<b>5 085</b>	<b>18 382</b>	<b>542</b>	<b>13 111</b>	<b>3 908</b>	<b>4 481</b>	<b>46 529</b>
<b>2010</b>								
Land-won	...	...	...	...	...	...	...	36 723
Marine (a)	...	...	...	—	...	...	...	8 609
<b>Total</b>	...	<b>4 929</b>	<b>17 758</b>	...	<b>12 169</b>	<b>3 439</b>	<b>5 558</b>	<b>45 332</b>
<b>2011</b>								
Land-won	...	...	...	...	...	...	...	36 589
Marine (a)	...	...	...	—	...	...	...	10 450
<b>Total</b>	...	<b>5 197</b>	<b>19 635</b>	...	<b>12 730</b>	<b>3 480</b>	<b>4 676</b>	<b>47 039</b>
<b>2012</b>								
Land-won	...	...	...	...	...	...	...	33 229
Marine (a)	...	...	...	—	...	...	...	9 680
<b>Total</b>	...	<b>4 527</b>	<b>16 860</b>	...	<b>11 421</b>	<b>4 480</b>	<b>4 406</b>	<b>42 909</b>

(a) Excluding marine-dredged landings at foreign ports (exports).

Source: Office for National Statistics.

(b) From 2001, this heading is believed to include material previously classified as construction fill.

## Wales production of sand and gravel by end-use 1999–2012

Thousand tonnes

Year	Sand		Gravel				Sand, gravel and hoggin for fill	Total
	Building sand		Concreting sand	Coated with a bituminous binder	Concrete aggregate	Other screened & graded gravels (b)		
	For asphalt	For use in mortar						
<b>1999</b>								
Land-won	...	...	683	—	453	2	354	1 800
Marine (a)	...	...	543	—	175	—	3	1 240
<b>Total</b>	<b>37</b>	<b>789</b>	<b>1 226</b>	<b>—</b>	<b>628</b>	<b>2</b>	<b>357</b>	<b>3 039</b>
<b>2000</b>								
Land-won	...	331	502	—	404	...	386	1 658
Marine (a)	4	620	489	—	164	—	3	1 280
<b>Total</b>	<b>...</b>	<b>951</b>	<b>991</b>	<b>—</b>	<b>568</b>	<b>...</b>	<b>389</b>	<b>2 939</b>
<b>2001</b>								
Land-won	...	...	...	—	...	116	...	1 670
Marine (a)	...	...	...	—	...	—	...	1 216
<b>Total</b>	<b>16</b>	<b>1 120</b>	<b>923</b>	<b>—</b>	<b>524</b>	<b>116</b>	<b>187</b>	<b>2 886</b>
<b>2002</b>								
Land-won	...	...	...	—	...	...	...	1 613
Marine (a)	...	...	...	—	...	—	...	1 145
<b>Total</b>	<b>...</b>	<b>862</b>	<b>1 140</b>	<b>—</b>	<b>487</b>	<b>134</b>	<b>...</b>	<b>2 758</b>
<b>2003</b>								
Land-won	...	...	...	—	...	...	...	1 503
Marine (a)	...	...	...	—	...	—	...	1 230
<b>Total</b>	<b>...</b>	<b>987</b>	<b>1 073</b>	<b>—</b>	<b>430</b>	<b>...</b>	<b>107</b>	<b>2 733</b>
<b>2004</b>								
Land-won	...	...	...	—	...	142	...	1 871
Marine (a)	...	...	...	—	...	—	...	1 249
<b>Total</b>	<b>16</b>	<b>688</b>	<b>1 364</b>	<b>—</b>	<b>526</b>	<b>142</b>	<b>384</b>	<b>3 120</b>
<b>2005</b>								
Land-won	...	...	...	...	...	262	...	1 634
Marine (a)	...	...	...	...	...	—	...	1 112
<b>Total</b>	<b>...</b>	<b>974</b>	<b>824</b>	<b>...</b>	<b>450</b>	<b>262</b>	<b>206</b>	<b>2 746</b>
<b>2006</b>								
Land-won	...	...	...	...	...	206	...	1 528
Marine (a)	...	...	...	...	...	—	...	1 087
<b>Total</b>	<b>...</b>	<b>954</b>	<b>978</b>	<b>...</b>	<b>280</b>	<b>206</b>	<b>179</b>	<b>2 615</b>
<b>2007</b>								
Land-won	...	...	...	—	...	178	...	1 187
Marine (a)	...	...	...	—	...	—	...	1 152
<b>Total</b>	<b>...</b>	<b>749</b>	<b>902</b>	<b>—</b>	<b>443</b>	<b>178</b>	<b>...</b>	<b>2 339</b>
<b>2008</b>								
Land-won	...	...	...	—	...	...	...	1 275
Marine (a)	...	...	...	—	...	...	...	1 086
<b>Total</b>	<b>49</b>	<b>660</b>	<b>1 032</b>	<b>—</b>	<b>382</b>	<b>95</b>	<b>143</b>	<b>2 361</b>
<b>2009</b>								
Land-won	...	...	...	—	...	...	...	795
Marine (a)	...	...	...	—	...	...	...	873
<b>Total</b>	<b>148</b>	<b>458</b>	<b>657</b>	<b>—</b>	<b>238</b>	<b>94</b>	<b>74</b>	<b>1 668</b>
<b>2010</b>								
Land-won	...	...	...	—	...	...	...	901
Marine (a)	...	...	...	—	...	...	...	732
<b>Total</b>	<b>...</b>	<b>505</b>	<b>658</b>	<b>—</b>	<b>244</b>	<b>128</b>	<b>...</b>	<b>1 633</b>
<b>2011</b>								
Land-won	...	...	...	—	...	...	...	870
Marine (a)	...	...	...	—	...	...	...	740
<b>Total</b>	<b>...</b>	<b>382</b>	<b>719</b>	<b>—</b>	<b>377</b>	<b>...</b>	<b>70</b>	<b>1 610</b>
<b>2012</b>								
Land-won	...	...	...	—	...	...	...	751
Marine (a)	...	...	...	—	...	...	...	613
<b>Total</b>	<b>...</b>	<b>388</b>	<b>703</b>	<b>—</b>	<b>162</b>	<b>69</b>	<b>...</b>	<b>1 364</b>

(a) Excluding marine-dredged landings at foreign ports (exports).

Source: Office for National Statistics.

(b) From 2001, this heading is believed to include material previously classified as construction fill.

**Scotland (land-won) production of sand and gravel by end-use 1999–2012**

Thousand tonnes

Year	Sand		Gravel				Sand, gravel and hoggin for fill	Total
	Building sand		Concreting sand	Coated with a bituminous binder	Concrete aggregate	Other screened & graded gravels (a)		
	For asphalt	For use in mortar						
1999	455	1 195	3 270	95	2 008	198	2 809	10 031
2000	...	1 274	3 202	67	1 749	...	3 031	10 022
2001	374	1 079	3 075	72	2 715	1 056	2 382	10 753
2002	...	1 096	2 753	...	1 790	1 021	1 581	8 643
2003	359	1 053	2 886	...	1 724	...	1 132	8 103
2004	181	732	3 309	79	1 994	740	1 421	8 455
2005	...	1 070	3 142	...	2 182	851	986	8 808
2006	...	968	3 219	...	1 745	877	1 197	8 592
2007	...	1 000	3 409	80	1 931	1 058	...	9 025
2008	397	882	2 805	88	1 334	1 189	1 403	8 097
2009	477	753	2 530	84	1 103	1 099	1 466	7 512
2010	533	675	2 531	...	1 081	1 479	...	7 365
2011	484	561	2 237	...	996	...	913	6 366
2012	...	559	2 135	...	1 009	931	...	5 772

(a) From 2001, this heading is believed to include material previously classified as construction fill.

Source: Office for National Statistics.

## Sandstone

### United Kingdom summary 2008–2012

Commodity	2008	2009	2010	2011	2012
	Tonnes				
<b>Sandstone</b> – see Building and dimension stone					
<i>Production</i>	12 255 000	12 335 000	11 556 000	(s) 12 300 000	(s) 11 500 000

(a) Includes an estimate for Northern Ireland.

## England production of sandstone by end-use 2000–2012

Thousand tonnes

Year	Roadstone											Total	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Industrial uses		Other uses
2000	214	332	1 201	1 334	...	...	581	...	3 598	...	...	...	7 401
2001	253	...	1 375	987	...	110	1 061	...	2 474	...	...	...	7 201
2002	269	...	1 442	771	...	121	760	...	3 153	...	...	...	7 006
2003	...	511	1 644	854	...	80	891	...	2 713	...	...	...	7 005
2004	398	377	1 490	813	203	70	728	1 032	1 904	25	36	...	7 076
2005	424	558	1 345	971	184	55	304	967	2 028	36	39	...	6 910
2006	396	...	1 046	799	187	...	252	1 310	2 499	...	30	...	7 041
2007	365	348	...	824	...	...	...	878	...	...	...	...	6 918
2008	339	...	1 157	646	...	157	607	1 007	1 453	49	...	...	5 854
2009	368	370	...	226	...	—	837	220	675	55	...	...	3 980
2010	512	...	...	600	...	...	532	248	695	...	...	...	4 176
2011	304	459	1 050	774	...	...	335	445	806	...	...	...	4 454
2012	337	483	...	527	...	—	676	299	945	30	...	...	4 451

Source: Office for National Statistics.

## Wales production of sandstone by end-use 2000–2012

Thousand tonnes

Year	Roadstone											Total	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Industrial uses		Other uses
2000	...	...	673	433	...	...	...	...	1 355	...	...	...	2 941
2001	...	...	913	439	...	—	180	...	1 132	...	...	...	3 094
2002	10	...	...	416	...	—	426	...	1 023	...	...	—	3 136
2003	...	433	792	430	...	...	641	...	871	...	...	—	3 179
2004	...	529	...	246	173	1	399	480	817	...	—	...	3 241
2005	...	...	646	218	206	—	171	524	660	22	—	...	3 233
2006	14	...	...	234	185	—	...	593	941	11	—	...	3 415
2007	24	...	1 262	281	99	—	225	427	...	16	...	...	3 558
2008	18	...	...	155	...	—	...	112	430	...	...	...	2 323
2009	...	...	1 289	131	...	—	139	63	397	...	...	...	2 667
2010	...	446	1 244	108	128	—	126	171	369	...	...	...	2 807
2011	10	...	...	128	...	—	...	245	360	...	...	...	3 114
2012	14	326	1 399	107	...	—	146	168	392	...	...	...	2 701

Source: Office for National Statistics.

## Scotland production of sandstone by end-use 2000–2012

Thousand tonnes

Year	Roadstone											Total	
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	Railway ballast	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Industrial uses		Other uses
2000	...	...	523	434	...	...	...	...	371	...	...	—	1 715
2001	18	...	136	305	...	...	184	...	685	...	...	...	1 603
2002	...	108	...	502	...	69	297	...	489	...	...	—	1 645
2003	63	103	104	457	...	65	245	...	442	...	...	1	1 481
2004	28	141	...	145	116	...	87	272	643	...	1	...	1 613
2005	33	...	37	263	...	...	76	170	431	21	1	...	1 466
2006	25	141	...	302	143	...	...	134	356	...	...	...	1 372
2007	30	...	...	244	...	...	...	148	...	...	1	...	1 502
2008	143	...	...	308	...	...	...	204	310	...	...	...	1 381
2009	...	...	...	771	35	—	140	144	342	...	...	...	1 895
2010	...	...	...	558	...	1	201	213	496	...	—	...	1 806
2011	19	...	...	512	27	1	...	221	646	117	—	...	1 910
2012	14	66	...	538	43	—	151	234	394	...	—	...	1 564

Source: Office for National Statistics.

# Selenium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Selenium</b>										
<i>Imports</i>										
Elemental	409	273	1 817	471	462	8 645	7 414	17 505	28 027	22 283
<i>Exports</i>										
Elemental	221	96	297	212	222	3 719	3 230	9 657	17 276	14 705

# Sepiolite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Sepiolite</b>										
<i>Imports</i>										
	227 453	70 651	...	...	...	43 004	13 367	...	...	...

# Silica sand

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Silica sand</b>										
<i>Production (a)</i>										
	4 777 000	3 755 000	4 070 000	3 969 000	3 888 000					
<i>Imports</i>										
	48 112	79 629	148 619	310 715	137 761	8 045	8 076	10 603	17 191	10 188
<i>Exports</i>										
	156 451	115 746	100 773	64 924	88 376	4 614	4 794	4 325	4 069	4 013

(a) Silica sands for glass making, moulding and other non-constructional uses.

## Great Britain production of silica sand by end-use and area of origin 2012

Thousand tonnes

Area of origin	Foundry uses	Glass manufacture	Other industrial uses	Agricultural, horticultural & leisure uses	Total
North East (a)	—	—	—	...	...
Yorkshire and the Humber (b)	...	...	...	...	...
East Midlands (c)	...	—	...	...	...
West Midlands (d)	...	—	...	...	...
East of England (e)	...	...	...	...	...
South East (f)	—	...	...	...	...
South West (g)	—	—	...	...	...
North West (h)	322	...	...	...	952
<b>England</b>	<b>340</b>	...	...	<b>1 095</b>	<b>3 361</b>
<b>Wales (i)</b>	—	—	—	<b>86</b>	<b>86</b>
<b>Scotland (j)</b>	—	...	...	<b>94</b>	<b>440</b>
<b>Great Britain</b>	<b>340</b>	<b>1 489</b>	<b>782</b>	<b>1 277</b>	<b>3 888</b>

(a) From Northumberland.

(b) From North Yorkshire, South Yorkshire and Humberside.

(c) From Nottinghamshire and Lincolnshire.

(d) From Staffordshire, West Midlands and Worcester.

(e) From Norfolk, Suffolk, Essex, and Bedfordshire.

(f) From West Sussex, Surrey and Kent.

(g) From Cornwall, Dorset and Devon.

(h) From Cumbria and Cheshire.

(i) From Clwyd and Dyfed.

(j) From West Central Scotland, East Central Scotland, and Tayside & Fife.

Source: Office for National Statistics.

# Silicon

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Silicon</b>										
<i>Consumption in Iron and Steel Industry</i>										
Ferro-silicon	36 520	27 110	26 250	25 600	25 770					
Calcium silicide	80	60	60	60	60					
Ferro-silico-zirconium	70	50	50	50	50					
Ferro-silico-manganese	22 940	17 030	16 490	16 080	16 180					
<i>Imports</i>										
Elemental silicon-										
Containing not less than										
99.99% silicon	2 788	2 673	3 299	3 577	2 612	88 581	105 259	102 641	103 355	65 985
Other	54 019	65 436	96 352	97 428	94 842	83 887	98 160	156 601	189 956	171 318
Ferro-silico-chrome	128	13	9	362	723	136	30	10	409	710
Ferro-silico-magnesium	1 614	512	931	1 328	1 360	1 744	536	1 006	1 583	1 294
Ferro-silico-manganese	52 966	37 114	49 280	51 928	36 661	59 497	24 468	42 091	41 491	27 725
Ferro-silicon	59 438	31 091	43 703	45 918	39 351	42 239	26 667	41 390	47 339	39 004
Doped silicon	378	296	434	700	567	35 288	31 544	49 386	57 901	50 608
<i>Exports</i>										
Elemental silicon-										
Containing not less than										
99.99% silicon	645	739	1 135	1 274	1 689	38 735	52 704	56 225	57 962	25 411
Other	14 488	7 014	1 767	2 389	1 338	24 901	13 343	4 585	4 973	2 723
Ferro-silico-chrome	9	50	22	364	72	24	244	43	268	155
Ferro-silico-magnesium	976	458	366	338	327	1 231	709	457	550	485
Ferro-silico-manganese	49	65	52	132	7 503	27	59	55	75	1 320
Ferro-silicon	3 250	3 338	2 958	6 594	4 659	4 728	4 154	5 530	9 006	7 987
Doped silicon	622	331	675	481	857	78 997	57 775	71 505	72 414	69 328

# Sillimanite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Sillimanite</b>										
<i>Imports</i>										
Sillimanite minerals (a)	11 920	7 763	7 419	12 485	10 562	2 515	2 064	2 076	3 801	3 090
Chamotte earth (b)	22 243	28 501	52 384	19 473	19 228	3 635	5 231	10 670	3 633	3 367
Mullite	6 488	5 255	8 276	3 491	4 588	3 588	2 770	3 538	2 774	2 603
<i>Exports</i>										
Sillimanite minerals (a)	16	157	274	558	193	8	49	77	130	47
Chamotte earth (b)	162	572	1 146	900	1 652	110	168	273	279	486
Mullite	2 060	1 257	1 104	1 204	948	1 825	1 567	1 280	1 416	1 161

(a) Andalusite, kyanite and sillimanite.

(b) Calcined refractory clay including flint clay.



# Silver

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Silver</b>										
Production (a)	0	1	1	1	0					
<b>Imports</b>										
Ores & concentrates	8	1	10	1	6	9 011	299	687	3	693
Waste & scrap	4 223	3 311	4 137	13 714	5 946	636 999	301 611	611 252	679 084	460 121
Unwrought	3 328	6 374	2 977	3 355	8 108	874 396	1 931 139	1 254 899	2 484 852	5 226 872
Partly worked	616	276	301	331	418	73 951	55 069	89 044	159 143	233 903
Silver in unrefined lead bullion (b)	390	260	300	260	340					
<b>Exports</b>										
Ores & concentrates	0	1	2	0	—	2	25	22	77	...
Waste & scrap	5 447	8 412	5 160	11 650	19 738	57 315	56 820	132 182	309 795	367 758
Unwrought	5 909	905	2 467	3 019	1 215	1 307 184	266 091	995 488	2 049 742	778 189
Partly worked	162	39	113	918	249	19 567	13 865	41 897	554 052	98 654

(a) Small quantities have been produced in Northern Ireland as follows:  
2008: 398 kilograms; 2009: 514 kilograms; 2010: 506 kilograms;  
2011: 531 kilograms; 2012: 230 kilograms.

(b) BGS estimates of silver content of unrefined lead bullion imported.

# Slate

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Slate</b>										
<i>Production</i>										
Architectural & cladding uses,										
roofing & damp proofing courses	...	42 000	...	26 000	24 000					
Powder and granules	...	14 000	...	15 000	26 000					
Crude blocks	37 000	29 000	35 000	22 000	32 000					
Fill and other uses	967 000	597 000	615 000	700 000	618 000					
Total	1 058 000	683 000	695 000	763 000	701 000					
<i>Imports</i>										
Unworked (a)	32 258	21 718	25 080	23 063	21 968	9 059	6 879	6 604	4 687	5 153
Worked-										
Roofing and wall tiles	179 150	140 691	163 494	(c) 187 125	126 032	66 118	57 688	63 112	(c) 72 290	48 229
Other worked slate (b)	30 012	30 015	29 668	...	56 443	8 448	8 074	8 466	...	22 639
<i>Exports</i>										
Unworked (a)	56 907	225 232	46 745	62 901	115 112	803	1 837	920	922	852
Worked-										
Roofing and wall tiles	8 459	13 010	10 319	(c) 14 370	5 672	5 940	8 201	6 349	(c) 7 414	4 652
Other worked slate (b)	6 014	11 165	11 511	...	7 329	1 588	1 122	1 734	...	1 805

(a) Including roughly split or squared.  
(b) Including articles of slate or agglomerated slate.

(c) All forms of worked slate.

# Strontium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Strontium</b>										
<i>Imports</i>										
Carbonate	212	7	70	32	288	25	13	45	30	257
<i>Exports</i>										
Carbonate	2	2	5	2	4	17	95	66	71	38

# Sulphur

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Sulphur</b>										
<i>Supply</i>										
Produced (a)	135 000	145 000	160 000	167 000	162 000					
Imported (b)	9 638	6 285	10 475	10 981	9 795					
Sulphur, zinc concentrates (imported) (c)	107	25	195	124	52					
<i>Imports</i>										
Sulphur-										
Crude	64	74	274	590	1 125	45	60	435	755	743
Refined	9 574	6 211	10 201	10 391	8 670	4 278	2 900	4 942	6 110	5 471
Sublimed, colloidal etc	1 186	473	767	691	698	1 268	805	946	875	666
<i>Exports</i>										
Sulphur-										
Crude	13 182	2 545	41 491	101 964	37 239	1 699	201	2 299	8 820	3 936
Refined	27 872	38 723	1 198	3 686	14 609	10 764	3 101	2 007	1 544	5 042
Sublimed, colloidal etc	1 144	1 902	1 349	2 151	21 385	744	976	1 096	822	1 854

(a) Produced from oil refineries.  
 (b) Including waste and residues.

(c) Sulphur content calculated at 29%.

# Talc

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Talc</b>										
<i>Production</i>										
	2 410	2 861	2 633	3 708	3 667					
<i>Imports</i>										
	53 864	39 520	50 309	53 339	57 751	12 468	12 640	15 312	15 952	17 804
<i>Exports</i>										
	3 129	2 402	3 074	3 171	5 026	1 140	1 058	1 497	1 405	1 978

# Tantalum and Niobium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Tantalum and Niobium</b>										
<i>Consumption in Iron and Steel Industry</i>										
Niobium (a)	540	190	270	350	330					
<i>Imports</i>										
Ores & concentrates	6	5	...	...	...	264	148	...	...	...
Ferro-niobium	1 189	686	859	395	250	13 659	9 955	13 712	7 288	5 492
Tantalum	161	145	284	176	144	8 443	11 647	10 642	21 418	28 395
Niobium (b)	154	98	104	176	130	6 975	9 342	9 331	12 560	18 390
<i>Exports</i>										
Ferro-niobium	58	52	224	179	257	1 148	935	4 284	5 210	10 491
Tantalum	55	72	191	97	336	2 255	3 144	8 657	10 129	11 571
Niobium (b)	148	23	45	72	29	3 021	947	3 971	5 878	1 678

(a) Metal content.

(b) Including rhenium.

# Tellurium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Tellurium</b>										
<i>Imports</i>										
	151	53	98	54	11	11 650	5 366	14 999	10 996	727
<i>Exports</i>										
	3	112	92	75	45	338	9 453	9 004	14 820	7 903

# Tin

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Tin</b>										
<i>Consumption</i>										
Refined	3 000	3 000	3 000	2 390	1 320					
<i>Imports</i>										
Concentrates	0	6	0	0	0	25	122	45	48	7
Unwrought	7 181	4 522	4 327	4 186	3 850	55 479	39 257	58 068	68 910	52 159
Unwrought alloys	400	370	365	396	1 113	6 533	5 648	6 829	11 722	8 085
Scrap	448	121	196	121	147	334	251	384	668	813
<i>Exports</i>										
Concentrates	254	61	163	58	241	1 158	448	954	371	743
Unwrought	1 264	928	1 856	1 797	2 092	11 781	8 500	24 891	30 504	20 761
Unwrought alloys	532	537	389	545	246	5 671	3 296	4 037	6 606	3 995
Scrap	19 110	22 597	13 115	4 414	3 435	24 197	29 286	12 682	10 404	5 935

# Titanium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Titanium</b>										
<i>Production</i>										
Titanium dioxide pigment	(a) 255 000	(a) 230 000	(b) 260 000	(b) 280 000	(b) 200 000					
<i>Apparent consumption (c)</i>	65 500	24 800	43 500	33 200	45 500					
<i>Consumption in Iron and Steel Industry</i>										
Ferro-titanium	990	730	710	690	700					
<i>Imports</i>										
Titanium minerals	194 756	112 091	90 622	32 127	117 860	38 435	33 898	31 752	11 905	45 671
Unwrought	13 868	9 989	7 994	10 636	14 993	78 778	52 522	52 867	74 526	126 729
Scrap	12 367	8 972	8 388	9 930	9 963	32 945	11 106	24 707	36 399	33 473
Wrought	6 071	4 218	4 299	49 277	8 987	186 129	160 102	153 972	215 133	264 794
Ferro-titanium (d)	1 290	396	274	187	902	3 612	399	813	721	2 787
Oxides	6 925	4 933	6 503	9 218	4 929	10 053	9 101	11 106	18 969	11 566
Pigments based on titanium dioxide	51 822	48 931	52 957	53 093	58 129	71 395	72 302	86 182	113 505	136 239
Titanium slag	158 195	127 224	187 913	...	...	38 966	36 298	31 090	...	...
<i>Exports</i>										
Scrap	3 973	3 269	4 180	5 757	5 204	12 714	5 096	15 804	23 440	20 112
Unwrought	2 754	2 823	3 683	1 263	709	13 252	8 265	25 579	8 732	5 446
Wrought	4 428	3 464	4 197	4 907	5 628	198 153	156 703	155 259	187 664	239 778
Ferro-titanium (d)	18 557	13 098	15 197	17 662	18 040	59 013	23 486	43 348	60 009	56 342
Oxides	1 104	845	867	1 658	1 260	3 536	3 693	2 464	3 489	3 570
Pigments based on titanium dioxide	221 399	203 028	207 651	221 532	140 875	276 503	298 629	322 674	433 688	302 295

(a) Articol estimates.  
(b) BGS estimates.

(c) BGS estimates; see explanatory notes.  
(d) Including ferro-silico-titanium.

# Tungsten

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Tungsten</b>										
<i>Consumption in Iron and Steel Industry (a)</i>										
	50	20	20	30	30					
<i>Imports</i>										
Ores & concentrates	11	35	2	25	3	25	44	40	388	62
Scrap	1 291	1 157	1 278	1 633	1 251	15 129	11 134	15 973	29 479	23 965
Unwrought	430	283	353	284	562	6 903	5 456	5 470	8 358	16 867
Wrought	144	38	45	82	75	4 257	2 995	4 384	5 412	4 814
Ferro-tungsten (b)	27	26	48	44	34	487	348	763	1 010	846
Carbide	1 023	614	1 111	3 622	1 245	19 982	11 808	27 735	96 915	38 383
Tungstates	31	6	4	1	2	348	144	116	92	117
Oxides and hydroxides	96	36	24	30	4	1 171	154	117	266	279
<i>Exports</i>										
Ores & concentrates	21	3	29	35	102	136	93	327	783	873
Scrap	1 399	1 429	1 451	1 862	1 471	14 390	11 089	15 563	33 580	24 634
Unwrought	182	65	162	218	112	2 979	1 681	2 502	7 281	4 483
Wrought	44	47	36	55	91	3 976	1 975	2 645	4 551	6 574
Ferro-tungsten (b)	31	1	4	3	20	256	25	112	81	453
Carbide	51	80	41	597	463	1 704	211	983	2 984	8 573
Tungstates	5	8	6	10	7	85	650	117	258	131
Oxides and hydroxides	402	55	6	10	33	4 782	367	68	44	283

(a) Metal content.

(b) Including ferro-silico-tungsten.

# Vanadium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Vanadium</b>										
<i>Consumption in Iron and Steel Industry (a)</i>										
	100	40	50	70	60					
<i>Imports</i>										
Unwrought	314	112	197	376	261	6 277	3 218	4 670	7 219	4 855
Oxides	344	84	5	17	21	4 813	699	74	73	70
Ferro-vanadium	543	209	340	368	246	12 812	2 394	4 413	5 256	3 186
<i>Exports</i>										
Unwrought	2	18	23	32	11	43	395	682	682	202
Oxides	589	487	694	6	0	8 870	4 992	7 806	70	25
Ferro-vanadium	79	64	24	52	31	922	958	328	712	409

(a) Vanadium content of ferro-vanadium.

# Vermiculite

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Vermiculite</b>										
<i>Imports</i>	29 200	24 515	(v) 58 456	(v) 98 437	(v) 66 298	4 319	4 115	(v) 5 357	(v) 12 950	(v) 8 508
<i>Exports</i>	24	188	(v) 1 059	(v) 1 116	(v) 1 228	109	934	(v) 822	(v) 825	(v) 845

(v) Figure also includes perlite and chlorites.

# Zinc

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Zinc</b>										
<i>Consumption</i>										
Slab	151 500	99 000	96 641	86 892	80 031					
<i>Imports</i>										
Ores & concentrates	257	119	574	426	178	424	341	970	749	200
Ash and residues	4 632	3 160	2 898	7 300	2 248	2 122	11 203	1 243	1 280	983
Unwrought	119 911	84 594	97 066	85 516	77 847	134 468	96 839	144 172	127 929	105 654
Unwrought alloys	8 524	1 869	2 973	9 306	8 917	9 611	2 407	4 156	14 185	12 616
Scrap	103	344	447	339	412	54	258	409	365	398
<i>Exports</i>										
Ores & concentrates	246	11 418	8 405	9 714	5 561	209	1 691	2 992	5 425	6 923
Ash and residues	13 786	9 585	9 139	7 283	7 238	8 597	6 268	8 422	7 383	6 601
Unwrought	3 883	3 600	3 580	2 724	1 823	4 639	4 560	4 937	4 959	2 749
Unwrought alloys	28 408	13 578	14 561	12 737	13 580	38 083	15 562	21 409	19 227	18 475
Scrap	5 699	6 030	14 903	12 545	9 897	4 973	5 144	18 207	16 005	12 407

# Zirconium

## United Kingdom summary 2008-2012

Commodity	2008	2009	2010	2011	2012	2008	2009	2010	2011	2012
	Tonnes					£ thousand				
<b>Zirconium</b>										
<i>Apparent consumption (a)</i>	7 000	3 000	4 000	7 000	4 000					
<i>Consumption in Iron and Steel Industry</i>										
Ferro-silico-zirconium	70	50	50	50	50					
<i>Imports</i>										
Ores and Concentrates (b)	13 092	6 386	8 450	14 709	8 928	8 145	5 910	7 204	18 710	17 257
Scrap	65	49	139	197	179	263	311	885	1 140	1 089
Unwrought	403	82	190	345	215	4 490	1 830	3 088	4 504	5 143
Wrought	53	72	82	74	88	1 745	852	1 219	1 174	1 691
<i>Exports</i>										
Ores and concentrates	716	742	1 405	1 661	818	746	966	1 728	3 482	2 089
Scrap	2	11	76	12	13	33	42	338	114	156
Unwrought	54	0	0	88	189	72	53	6	153	399
Wrought	5	7	15	2	11	715	1 362	336	232	371

(a) BGS estimates; see explanatory notes.

(b) Mainly zircon.