



**British
Geological Survey**
NATURAL ENVIRONMENT RESEARCH COUNCIL

United Kingdom Minerals Yearbook 2011

Minerals and Waste Programme
Open Report OR/12/009



BRITISH GEOLOGICAL SURVEY

MINERALS AND WASTE PROGRAMME

OPEN REPORT OR/12/009

United Kingdom Minerals Yearbook 2011

Statistical data to 2010

N. E. Idoine, T. Bide, T. J. Brown.

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Extraction of Lincolnshire
Limestone from Melton Ross
Quarry. BGS © NERC.
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The British Geological Survey carries out the geological survey of Great Britain and Northern Ireland (the latter as an agency service for the government of Northern Ireland), and of the surrounding continental shelf, as well as basic research projects. It also undertakes programmes of technical aid in geology in developing countries.

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Contents

Acknowledgements	1
Contents	2
Explanatory notes	4
Tables	7
Trade in minerals and mineral-based products compared with total trade 2004-2010.....	7
Balance of trade in minerals and mineral-based products 2006-2010	8
Approximate value of minerals produced in the UK 2003-2010	10
UK approximate value of minerals produced onshore and offshore 2003-2010	10
UK mining and quarrying : gross value added 2004-2011	11
UK employment in the minerals industry, 2009 and 2010.....	11
UK production of minerals 2005-2011.....	12
England production of mineral 2004-2010	13
Wales production of minerals 2004-2010.....	14
Scotland production of minerals 2004-2010.....	15
Northern Ireland mineral production by county 2010	16
Minerals produced in Northern Ireland, Isle of Man, Guernsey and Jersey 2006-2010	16
Number of mineral workings in the UK by commodity.....	17
Abrasives, natural	18
Aggregates	18
Aluminium	23
Aluminium compounds.....	23
Antimony.....	24
Arsenic.....	24
Asbestos	24
Ashphalt, natural	25
Ball clay	25
Barytes.....	25
Bauxite.....	26
Bentonite.....	26
Beryllium	26
Bismuth.....	26
Boron	27
Bricks	27
Bromine	27
Building and dimension stone	28
Cadmium	28
Cement	29
Chalk (see Limestone).....	52
China clay	29
China stone (see Feldspar).....	43
Chromium	30
Clays.....	30
Coal	32
Cobalt	35
Coke and breeze.....	35
Copper	36
Crushed rock (also see Aggregates).....	36
Diamond	42
Diatomite.....	42
Dolomite (see Limestone)	52
Feldspar	43
Fireclay	43
Fluorspar.....	43
Fuller's earth	44
Gas, natural (see Petroleum).....	65
Germanium	44
Gold	44
Granite (see Igneous rock)	46
Graphite	45
Gypsum	45
Hafnium	46
Igneous rock	46

Insulating materials	48
Iodine	48
Iron compounds and earth colours.....	48
Iron ore	49
Iron and steel	49
Lead.....	51
Limestone, dolomite and chalk	52
Lithium	59
Magnesia	59
Magnesium	60
Manganese	60
Marble.....	61
Mercury.....	61
Mica	61
Molybdenum	62
Nepheline syenite	62
Nickel	63
Niobium (see Tantalum and Niobium).....	85
Peat	63
Perlite.....	64
Petroleum and natural gas (includes text) (also see Primary fuels)	64
Phosphorus.....	66
Platinum group metals	66
Potassium compounds.....	67
Precious and semi-precious stones (excluding diamonds)	67
Primary fuels	68
Pumice.....	70
Pyrite.....	70
Quartz and quartzite	70
Radioactive and associated materials.....	71
Rare earths	71
Salt.....	71
Sand and gravel (see also Aggregates).....	72
Sandstone.....	78
Selenium.....	80
Sepiolite	80
Silica Sand	80
Silicon	82
Sillimanite	82
Silver.....	83
Slate.....	83
Strontium	84
Sulphur	84
Talc.....	84
Tantalum.....	85
Tellurium	85
Tin.....	85
Titanium	86
Tungsten.....	87
Vanadium.....	87
Vermiculite.....	88
Zinc	88
Zirconium	89

Diagrams

Value of UK minerals production 2010.....	9
Value of UK construction and industrial minerals production 2010	9
GB production of crushed rock aggregates and sand and gravel by region 2010.....	19
GB production of crushed rock by end-use 2010	37
GB production of sand and gravel by end-use 2010	72

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 British Geological Survey 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)
1973–2009 *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
1994–2010 *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)
1999–2010 *Annual Mineral 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 or 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 Economic Development (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

The Kaolin and Ball Clay 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 2004–2010

£ million

SITC section	2004	2005	2006	2007	2008	2009	2010
Imports (c.i.f.)							
0, 1	Food, beverages, tobacco	21 763.3	23 291.4	24 685.3	26 351.5	30 570.8	33 415.9
2, 4	Basic materials	6 968.6	7 366.7	8 497.5	10 115.7	11 411.2	10 731.6
	of which: Minerals	2 233.4	2 619.9	3 420.9	4 559.3	5 498.4	4 719.3
3	Fuels and related materials	16 209.1	23 535.0	29 531.8	29 470.4	44 289.5	40 857.5
	of which: Mineral-based	15 862.9	23 092.9	29 098.4	29 231.9	43 906.3	40 531.9
	Manufactured goods:						
5, 6	Semi-manufactures	62 171.0	64 754.7	71 723.1	76 718.3	81 638.4	90 246.6
	of which: Mineral-based	25 272.4	27 017.6	31 348.9	39 877.0	35 062.3	38 973.1
7, 8	Finished manufactures	144 032.6	151 715.1	166 367.3	166 661.7	171 678.0	183 328.1
9	Other (a)	3 884.1	1 847.1	24 977.9	3 600.3	5 286.0	3 578.3
	of which: Mineral-based	2 334.1	221.3	230.5	348.3	490.8	979.7
	Total	255 028.6	272 510.0	325 783.0	312 917.9	344 874.0	310 427.1
	All traded goods						
	of which: Mineral-based	45 702.8	52 951.7	64 098.7	74 016.4	84 957.8	85 204.0
	As % of all traded goods	17.9	19.4	19.7	23.7	24.6	23.5
Exports (f.o.b.)							
0, 1	Food, beverages, tobacco	10 615.2	10 690.2	11 080.1	11 752.6	13 670.8	16 027.4
2, 4	Basic materials	3 759.6	3 982.7	4 906.1	5 473.8	6 558.5	7 288.5
	of which: Minerals	2 064.2	2 186.1	2 893.7	3 372.5	4 141.9	4 556.1
3	Fuels and related materials	16 795.5	20 131.0	23 976.1	23 147.4	33 595.7	33 416.3
	of which: Mineral-based	16 644.7	20 030.0	23 872.3	23 035.7	33 485.2	33 212.1
	Manufactured goods:						
5, 6	Semi-manufactures	56 528.5	60 079.2	65 327.6	68 344.9	76 148.4	79 884.7
	of which: Mineral-based	22 932.3	25 962.2	28 775.7	30 464.8	33 924.9	33 361.0
7, 8	Finished manufactures	102 050.3	115 724.9	137 485.6	110 304.8	117 063.9	123 510.2
9	Other (a)	1 605.3	1 910.6	1 599.6	2 157.8	2 717.2	4 526.5
	of which: Mineral-based	826.1	878.6	378.1	923.9	863.7	2 177.7
	Total	191 354.4	212 518.6	244 375.2	221 069.6	249 644.0	226 625.7
	All traded goods						
	of which: Mineral-based	42 467.4	49 056.9	55 919.7	57 796.9	72 415.7	73 306.9
	As % of all traded goods	22.2	23.1	22.9	26.1	29.0	27.7

(a) Including non-monetary gold.

Balance of trade in minerals and mineral-based products 2006–2010

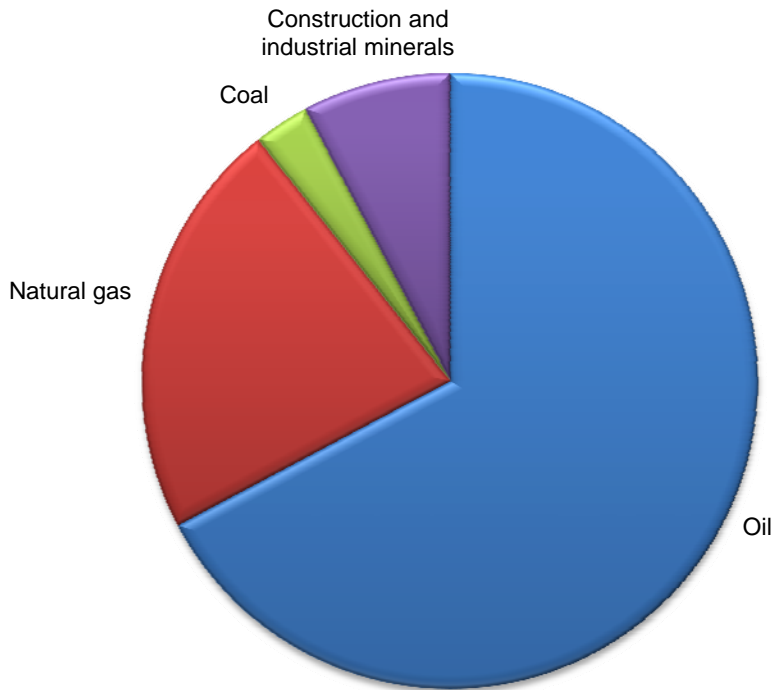
£ million (a)

SITC (R3) divisions	2006	2007	2008	2009	2010	
27	Crude minerals and fertilisers:					
	imports	491.4	479.1	554.7	448.6	551.3
	exports	470.5	488.5	497.1	492.8	478.6
		-20.9	+9.4	-57.6	+44.1	-72.7
28	Metal ores and scrap:					
	imports	2 929.5	4 080.2	4 943.7	2 483.9	4 168.0
	exports	2 423.1	2 884.0	3 644.8	2 505.3	4 077.5
		-506.4	-1 196.2	-1 298.9	+21.4	-90.5
32	Coal, coke and briquettes:					
	imports	2 225.9	2 105.3	3 688.4	2 702.4	1 908.2
	exports	55.3	77.4	147.1	115.5	227.7
		-2 170.6	-2 027.9	-3 541.2	-2 586.8	-1 680.5
33	Petroleum, petroleum products and related materials:					
	imports	24 125.0	23 863.9	33 325.9	23 820.8	31 519.6
	exports	21 823.7	21 203.8	30 074.4	23 038.7	29 610.8
		-2 301.2	-2 660.1	-3 251.5	-782.1	-1 908.8
34	Gas, natural and manufactured:					
	imports	2 747.6	3 262.7	6 892.1	4 938.8	7 104.1
	exports	1 993.2	1 754.5	3 263.7	2 084.7	3 373.6
		-754.3	-1 508.2	-3 628.4	-2 854.1	-3 730.54
51	Organic chemicals:					
	imports	7 883.8	8 858.9	8 660.3	8 420.4	9 545.8
	exports	8 018.4	7 562.2	8 322.0	8 996.7	8 761.5
		+134.6	-1 296.7	-338.3	+576.3	-784.3
52	Inorganic chemicals:					
	imports	2 132.5	2 734.8	2 749.3	2 749.1	2 950.6
	exports	2 117.3	2 766.5	2 885.2	2 775.4	3 399.7
		-15.3	+31.8	+136.0	+26.3	+449.1
56	Manufactured fertilisers:					
	imports	144.9	201.5	379.3	188.0	329.1
	exports	87.3	99.3	197.0	169.7	133.0
		-57.7	-102.2	-182.3	-18.3	-196.1
53–59 (part)	Miscellaneous chemical products:					
	imports	3 588.5	3 823.6	4 196.2	4 586.8	5 822.9
	exports	3 359.3	3 522.3	3 750.9	3 423.3	4 830.6
		-229.2	-301.3	-445.3	-1 163.5	-992.4
66	Non-metallic mineral products:					
	imports	7 165.0	6 840.3	7 136.4	5 823.3	7 377.5
	exports	6 231.7	5 828.7	6 303.0	4 955.4	6 482.4
		-933.3	-1 011.6	-833.4	-868.0	-895.1
67	Iron and steel:					
	imports	3 873.9	4 638.2	5 136.0	2 708.4	3 884.5
	exports	3 918.8	4 676.1	5 314.1	3 067.6	3 740.1
		+44.9	+37.9	+178.1	+359.2	-144.4
68	Non-ferrous metals:					
	imports	6 369.5	6 395.1	6 567.3	6 448.7	8 850.4
	exports	4 840.2	5 792.2	6 910.2	3 973.6	5 822.0
		-1 529.3	-602.9	+342.9	-2 475.1	-3 028.4
69	Manufactures of metal:					
	imports (b)	190.9	224.5	237.5	211.0	212.2
	exports (b)	202.8	217.4	242.5	194.1	191.7
		+11.9	-7.1	+5.0	-17.0	-20.5
96	Coin other than gold:					
	imports	3.3	3.7	4.7	2.9	3.7
	exports	29.3	38.0	48.2	76.9	40.3
		+26.0	+34.3	+43.5	+74.0	+36.6
97	Gold (non-monetary):					
	imports	227.2	344.5	486.0	386.8	976.0
	exports	348.8	885.9	815.5	1 478.9	2 137.4
		+116.9	+541.4	+329.4	+1 092.1	+1 161.4
	Total imports	64 098.7	67 856.3	84 957.9	65 920.0	85 204.0
	exports	55 919.7	57 796.8	72 415.7	57 348.5	73 306.9
		-8 179.0	-10 059.5	-12 542.2	-8 571.5	-11 897.1
	Gold (monetary):					
	imports	8 148.7	6 925.5	13 010.0	23 336.9	19 202.5
	exports	1 229.3	1 413.4	7 725.2	1 082.7	6 213.8
		-6 919.4	-5 512.1	-5 284.9	-22 254.2	-12 988.7
	Grand total imports	72 247.4	74 781.8	97 967.9	89 256.8	104 406.5
	exports	57 149.0	59 210.2	80 140.8	58 431.1	79 520.7
		-15 098.4	-15 571.6	-17 827.0	-30 825.7	-24 885.8

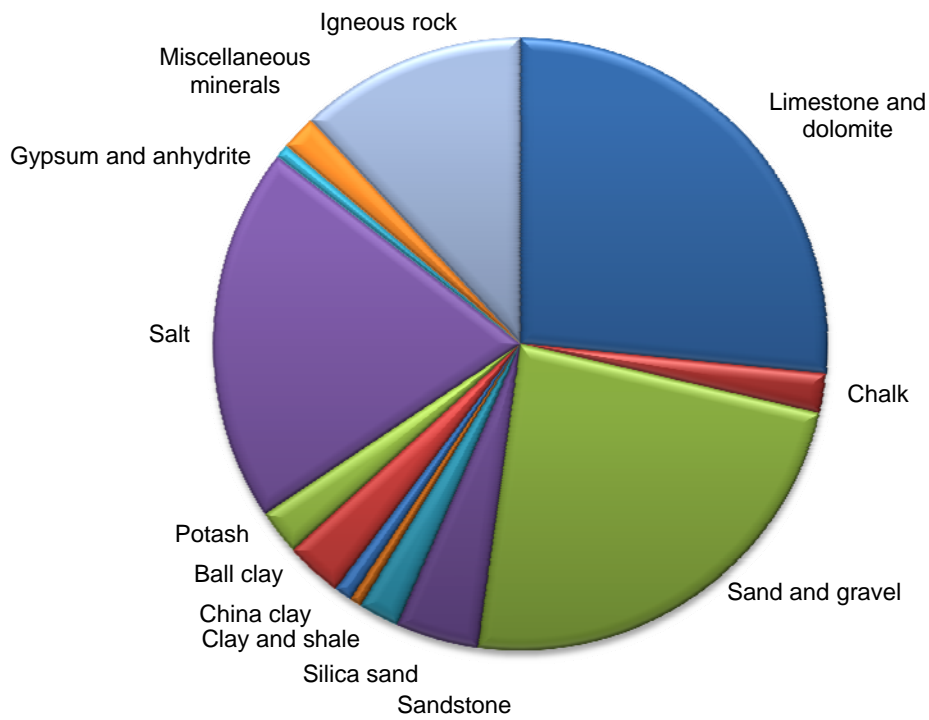
(a) Imports are valued c i f and exports are valued f o b.

(b) Consists of semi-manufactures and articles of beryllium, cobalt, cadmium, magnesium, molybdenum, tantalum, titanium, tungsten, zirconium and other base metals not elsewhere included.

**Value of United Kingdom production 2010
(total value £34 373 million)**



**Value of United Kingdom construction and industrial minerals production 2010
(total value £2671 million)**



Approximate value (a) of minerals produced in the United Kingdom 2003–2010

£ million

Mineral	2003	2004	2005	2006	2007	2008	2009	2010
Coal	794	800	722	705	708	1 154	973	1 002
Natural gas	7 554	7 115	8 902	11 741	9 377	10 612	7 570	7 590
Natural gas liquids	1 105	1 037	1 684	1 910	1 749	2 204	... (b)	... (b)
Crude petroleum	13 365	13 424	16 656	17 935	18 979	25 102	19 075	23 110
Iron ore	0	0	0	0	0	0	0	0
Tin	—	—	—	—	—	—	—	—
Gold	—	—	—	—	1	3	4	3
Other non-ferrous metals	0	0	0	0	0	0	0	0
Sand and gravel	719	722	746	818	811	814	640	630
Limestone and dolomite	685	756	687	756	686	777	518	709
Igneous rock	366	396	335	374	392	426	336	320
Sandstone	133	157	146	143	135	120	106	116
Chalk	88	112	112	101	117	93	43	56
Common clay and shale	24	25	27	27	26	19	13	17
China clay	168	195	107	64	58	45	33	25
Ball clay	43	46	51	81	82	82	80	80
Fuller's earth	4	3	1	—	—	—	—	—
Salt	192	217	222	195	285	186	405	530
Silica sand	56	67	58	72	69	67	53	57
Potash	83	68	72	64	60	61	54	63
Fluorspar	6	5	5	7	7	5	3	4
Gypsum and anhydrite	17	19	17	19	19	19	19	19
Miscellaneous minerals	39	39	44	49	49	46	48	42
Total	25 441	25 203	30 594	35 061	33 610	41 835	29 973	34 373
At 2006 constant prices								
Coal	856	841	744	705	687	1 089	906	933
Oil and gas	23 733	22 688	28 085	31 586	29 228	35 772	24 809	28 585
Metals	0	0	0	0	1	3	4	3
Construction and industrial minerals	2 827	2 973	2 711	2 770	2 715	2 604	2 189	2 484
Total	27 415	26 502	31 540	35 061	32 631	39 467	27 908	32 005

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

(b) Included in gas and petroleum figures.

Source: British Geological Survey.

United Kingdom approximate value of minerals produced onshore and offshore 2003–2010

£ million

	2003	2004	2005	2006	2007	2008	2009	2010
Onshore	3 519	3 787	3 574	3 673	3 687	3 751	3 174	3 523
Offshore	21 839	21 416	27 019	31 387	29 923	38 084	26 798	30 852
Total	25 441	25 203	30 594	35 060	33 610	41 835	29 972	34 375

Source: British Geological Survey.

United Kingdom mining and quarrying: Gross value added (a) 2004–2011

£ million

	2004	2005	2006	2007	2008	2009	2010	2011
Production								
Mining and quarrying								
Mining and quarrying of energy producing materials								
Mining of coal and lignite	299	270	293	326	307	254	188	245
Extraction of crude petroleum and natural gas	16 219	19 623	22 613	23 417	27 771	19 058	24 044	26 817
Other mining and quarrying	3 302	3 112	3 648	3 573	4 390	3 996	4 280	4 583
Total mining and quarrying	19 820	23 005	26 554	27 316	32 468	23 308	28 512	31 645
All industries	1 070 951	1 116 648	1 183 704	1 251 704	1 295 663	1 256 932	...	...
of which: minerals related (%)	2	2	2	2	3	2	...	...

(a) At current basic prices.

Source: Office for National Statistics.

United Kingdom employment in the minerals industry, 2009 and 2010

Number

Mineral	2009			Northern Ireland	2010			Northern Ireland
	Great Britain (a)				Great Britain (a)			
	Mines (d)	Quarries	Total		Mines (d)	Quarries	Total	
Ball clay	—	...	...	—	—	...	...	—
Chalk	—	214	214	(b)...	—	183	183	(b)...
Chert and flint	—	...	...	—	—	...	...	—
China clay	—	...	...	—	—	...	...	—
Clay and shale	—	332	332	(b)...	—	255	255	(b)...
Coal	3 931	2 229	6 097	—	3 752	2 539	6 140	—
Dolomite	—	301	301	—	—	348	348	—
Fireclay	...	...	6	(b)...	...	8	8	(b)...
Gypsum and anhydrite	...	...	...	—	...	...	...	—
Igneous rock	—	1 447	1 447	393	—	1 790	1 790	284
Limestone	—	2 419	2 419	150	—	2 270	2 270	178
Oil and gas	—	—	(c)	—	—	—	(c)	—
Peat	—	147	147	—	—	219	219	—
Potash	...	...	...	—	...	...	...	—
Salt	...	...	...	(b)...	...	...	...	(b)...
Sand and gravel	—	2 503	2 503	338	—	2 629	2 629	179
Sandstone	—	1 102	1 102	223	—	1 081	1 081	184
Silica sand	—	83	83	—	—	206	206	—
Silica stone	...	...	...	—	...	...	...	—
Slate	...	...	...	—	...	...	...	—
Soapstone and talc	...	...	...	—	...	...	...	—
Others	...	...	1 777	176	...	...	1 736	172
	...	...	...	1 280	...	...	...	997

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

(b) Included with 'Others'.

(c) Oil and Gas UK estimates the workforce employed on the UK Continental Shelf at 350 000, of which 34 000 are directly employed by exploration and production companies.

(d) Including surface and underground workers at mines.

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 2005–2011

Thousand tonnes

Mineral	2005	2006	2007	2008	2009	2010	2011 (Estimated)
Coal:							
Deep-mined	9 563	9 444	7 674	8 096	7 520	7 390	7 312
Opencast	10 445	8 635	8 866	9 509	9 854	10 426	10 580
Other (a)	490	438	467	449	500	600	600
Natural gas and oil:							
Methane (oil equivalent)							
Colliery	65	65	62	63	67	63	60
Onshore	151	91	105	92	89	88	55 000
Offshore	88 003	79 856	71 957	69 525	59 581	57 036	
Crude oil							
Onshore	1 648	1 379	1 271	1 248	1 181	941	58 000
Offshore	75 530	68 287	69 086	64 249	61 639	57 106	
Condensates and other (c)							
Onshore	49	41	38	33	32	17	5 000
Offshore	7 494	6 872	6 180	6 135	5 346	4 898	
Iron ore	0.4	0.4	0.3	0.1	—	—	—
Non-ferrous ores (metal content):							
Tin	—	—	—	—	—	—	—
Lead (h)	0.4	0.4	0.3	0.3	0.3	0.3	0.3
Zinc	—	—	—	—	—	—	—
Gold (kg)	...	...	88	163	187	177	180
Silver (kg)	—	—	212	398	514	506	500
Chalk (e)	7 105	7 376	7 566	5 874	4 047	3 626	3 500
Clay and shale (e)	10 898	10 432	10 104	8 459	5 310	5 934	5 483
Igneous rock (j) (k)	53 104	53 954	58 909	53 489	44 618	44 876	45 000
Limestone (excluding dolomite)	77 596	80 228	83 491	74 143	60 110	60 207	65 000
Dolomite (excluding limestone)	11 514	12 101	7 622	5 509	3 164	4 540	
Sand and gravel:							
Land	75 171	71 418	72 810	66 638	50 973	47 167	62 000
Marine (i)	19 495	20 689	20 426	18 833	15 253	14 533	
Sandstone	18 685	18 038	16 806	12 255	12 335	11 556	11 500
Slate (g)	928	865	1 428	1 058	683	695	700
Ball clay (sales)	1 011	1 015	1 022	1 020	727	1 000	1 000
Barytes	64	48	53	43	36	34	31
Calcspars	—	—	—	—	—	—	—
Chert and flint	2	2	1	1	1	1	1
China clay (sales) (d)	1 911	1 762	1 671	1 355	1 060	(h) 1 000	1 000
China stone	2	1	1	0.5	0.5	0.5	0.5
Fireclay (e)	395	228	338	180	129	110	100
Fluorspar (h)	56	50	45	37	19	26	—
Fuller's earth (sales) (d) (f)	6	—	—	—	—	—	—
Gypsum (natural) (h)	1 700	1 700	1 700	1 700	1 700	1 700	1 700
Lignite	...	...	...	...	...	...	...
Peat (000 m ³)	1 505	1 593	885	760	887	1 004	1 000
Potash (b)	732	716	712	673	700	700	770
Salt	6 074	5 499	5 600	5 565	6 166	6 666	7 000
Silica sand	4 146	5 174	4 909	4 777	3 755	4 070	4 000
Talc	6	4	3	2	3	3	4

(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); see p.72.

(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): 2005: 129; 2006: 136; 2007: 160; 2008: 139;

2009: 120; 2010: 116; 2011: 156 and Jersey: 2005: 305; 2006: 286; 2007: 295;

2008: 325; 2009: 279; 2010: 253; 2011: 215.

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 2004–2010

Thousand tonnes

Mineral	2004	2005	2006	2007	2008	2009	2010
Coal:							
Deep-mined	12 081	9 011	8 954	7 452	7 817	7 397	7 344
Opencast	3 037	1 456	966	1 619	2 139	2 137	2 689
Other (a)	...	...	...	...	...	...	...
Natural gas and oil:							
Methane (oil equivalent)							
Colliery	...	...	...	...	...	...	...
Onshore	...	...	...	...	...	...	...
Offshore	...	...	...	...	...	...	...
Crude oil							
Onshore	...	...	...	...	...	...	...
Offshore	...	...	...	...	...	...	...
Condensates and other (c)	...	...	...	...	...	...	...
Iron ore	(e) 0.5	(e) 0.5	—	—	—	—	—
Non-ferrous ores (metal content):							
Tin	—	—	—	—	—	—	—
Lead (e)	0.5	0.4	0.4	0.2	0.1	0.1	0.1
Zinc	—	—	—	—	—	—	—
Chalk	7 997	7 105	7 376	7 565	5 874	4 047	3 626
Clay and shale (b)	10 357	10 074	9 437	9 269	7 682	4 666	5 424
Igneous rock	20 174	20 576	22 076	21 865	21 056	17 846	17 460
Limestone (i)	72 173	67 325	67 356	67 378	60 738	48 751	47 569
Dolomite (j)	...	...	10 238	...	...	...	...
Sand and gravel:							
Land	62 735	58 926	56 148	54 512	61 669	37 810	36 723
Marine (f)	17 939	18 383	19 602	19 274	17 746	14 380	13 801
Sandstone	7 076	6 910	7 041	6 918	5 854	3 980	4 176
Slate (h)	...	...	...	...	...	...	...
Anhydrite	...	...	...	...	...	...	...
Ball clay (sales)	965	1 011	1 015	1 022	1 020	727	(e) 700
Barytes	...	...	11	10	7	3	3
Calcspars	—	—	—	—	—	—	—
Chert and flint	2	2	2	1	1	1	...
China clay (sales) (k)	1 945	1 911	1 762	1 671	1 355	1 060	(e) 1000
China stone	2	2	1	1	0	0	(e) 0
Fireclay	338	346	213	305	168	128	108
Fluorspar (e)	50	56	50	43	37	19	26
Fuller's earth (sales) (g) (k)	28	6	—	—	—	—	—
Gypsum (natural)	1 686	(e) 1 700	(e) 1 700	(e) 1 700	(e) 1 700	(e) 1 700	(e) 1 700
Lignite	...	...	...	...	...	...	...
Peat (000 m ³)	903	928	857	654	496	476	456
Potash (d)	912	732	716	712	673	700	700
Potter's clay	...	...	...	...	...	...	...
Rock salt	...	...	...	...	...	...	...
Salt	5 506	5 770	5 224	5 320	5 287	5 858	6 333
Silica sand	4 525	3 572	4 540	4 335	4 208	3 293	3 633
Silica stone and ganister	1	...	...	...	...	...	...

(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 (KCl).

(e) BGS estimate.

(f) Including marine-dredged landings at foreign ports (exports); see p.72.

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

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

(i) Including dolomite for constructional uses.

(j) 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.

(k) 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 2004–2010

Thousand tonnes

Mineral	2004	2005	2006	2007	2008	2009	2010
Coal:							
Deep-mined	461	552	485	253	110	99	47
Opencast	1 405	1 235	1 257	1 060	1 632	1 598	1 699
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	445	354	604	405	104	151	...
Igneous rock	2 295	2 364	2 596	2 474	3 028	1 932	2 294
Limestone (d)	12 926	12 759	13 707	14 549	12 114	8 131	7 878
Dolomite (e)	...	...	...	...	...	...	...
Sand and gravel:							
Land	1 871	1 634	1 528	1 187	1 275	795	901
Marine	1 249	1 112	1 087	1 152	1 086	873	732
Sandstone	3 241	3 233	3 415	3 558	2 323	2 667	2 807
Slate (c)	...	...	...	...	...	...	...
Fireclay	30	—	—	—	—	—	—
Silica sand	...	51	92	71	62	59	...

(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 2004–2010

Thousand tonnes

Mineral	2004	2005	2006	2007	2008	2009	2010
Coal:							
Deep-mined	—	—	—	—	—	—	—
Opencast	7 547	7 753	6 487	6 188	5 678	6 037	6 038
Other (a)	...	...	...	...	...	...	...
Natural gas and oil:							
Methane (oil equivalent)							
Colliery	...	...	...	...	...	...	...
Onshore	—	—	—	—	—	—	—
Offshore	...	...	...	...	...	...	...
Crude oil							
Onshore	—	—	—	—	—	—	—
Offshore	...	...	...	...	...	...	...
Condensates and other (b)	...	...	...	...	...	...	...
Clay and shale	362	469	390	429	674	494	...
Igneous rock	23 724	23 052	23 194	26 345	22 925	19 082	19 684
Limestone (d)	1 746	1 746	1 534	1 555	1 473	1 210	1 072
Dolomite (e)	...	...	...	...	...	...	...
Sand and gravel (land-won)	8 455	8 808	8 592	9 025	8 097	7 512	7 365
Sandstone	1 613	1 466	1 372	1 502	1 381	1 895	1 806
Slate (c)	...	...	...	...	...	...	...
Barytes	...	...	37	42	36	34	31
Fireclay	35	49	15	32	12	1	3
Honestone	—	...	...	...	...	...	...
Peat (000 m ³)	359	577	736	231	265	412	548
Silica sand	...	522	542	503	508	403	...
Talc	4	6	4	3	2	3	3

(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.

Northern Ireland mineral production by county 2010

Thousand tonnes

County	Limestone	Sand & gravel	Basalt & igneous rock (a)	Sandstone	Others (b)	Total
Down	—	165	801	2 304	358	3 628
Antrim	227	219	2 571	—	973	3 990
Armagh	331	77	168	428	422	1 426
Fermanagh	2 518	12	40	36	13	2 619
Londonderry	31	510	1 037	0	254	1 832
Tyrone	582	1 195	822	—	69	2 668
Total	3 689	2 178	5 439	2 768	2 089	16 163

(a) Excluding granite.

Source: Department of Enterprise, Trade and Investment.

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

Minerals produced in Northern Ireland, the Isle of Man, Guernsey and Jersey 2006-2010

Thousand tonnes

	2006	2007	2008	2009	2010
Northern Ireland					
Gold (kg)	...	88	163	187	177
Silver (kg)	—	212	398	514	506
Lead	—	(c) 200	(c) 200	243	251
Limestone	6 385	5 904	3 739	3 972	3 689
Sand and gravel	5 150	8 086	7 134	4 856	2 178
Basalt and igneous rock (a)	6 087	8 225	6 481	5 758	5 438
Sandstone	6 211	4 828	2 697	3 793	2 768
Granite					
Clay and shale					
Others (b)	1 698	2 468	2 931	1 998	2 087
Total	25 530	29 511	22 982	20 377	16 160
Isle of Man					
Limestone	110	112	113	352	71
Sand and gravel	358	206	197	171	145
Igneous rock	66	104	158	132	109
Slate	69	58	64	45	28
Total	602	480	532	701	353
Guernsey					
Igneous rock	136	160	139	120	116
Jersey					
Igneous rock (c)	326	295	325	249	238
Sand and gravel	75	65	67	61	74

(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
	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	Total
Anhydrite	—	—	—	—	1	—	—	—	—	1	—	—	—	—	—	1
Ball clay	—	—	—	—	—	—	—	—	18	18	—	—	—	—	—	18
Barytes	—	—	—	4	—	—	—	—	—	4	—	1	—	—	—	5
Calcite	—	—	—	1	—	—	—	—	—	1	—	—	—	—	—	1
Chalk	—	17	—	3	—	14	—	19	1	54	—	—	—	6	—	60
Chert	—	—	—	—	—	—	—	—	—	0	1	—	—	—	—	1
China clay	—	—	—	—	—	—	—	—	17	17	—	—	—	—	—	17
China clay waste	—	—	—	—	—	—	—	—	13	13	—	—	—	—	—	13
Clay & shale	5	25	14	19	24	7	—	28	15	137	10	5	—	7	—	159
Coal, underground	—	4	—	2	1	—	—	—	1	8	6	—	—	—	—	14
Coal, opencast	5	3	1	3	1	—	—	—	—	13	9	24	—	—	—	46
Fireclay	—	3	1	1	2	—	—	—	—	7	—	3	—	—	—	10
Flint	—	2	—	—	—	4	—	2	—	8	—	—	—	—	—	8
Fluorspar	1	1	—	7	—	—	—	—	—	9	—	—	—	—	—	9
Gold	—	—	—	—	—	—	—	—	—	0	—	—	—	1	—	1
Gypsum	—	—	1	3	1	—	—	2	—	7	—	—	—	—	—	7
Igneous & metamorphic rock	8	—	3	7	4	—	—	—	18	40	14	114	2	22	3	195
Iron ore - ironstone	—	2	—	—	1	—	—	4	—	7	—	—	—	—	—	7
Lead	—	—	—	3	—	—	—	—	3	3	—	—	—	—	—	3
Limestone / dolomite	19	35	22	53	8	4	—	14	89	244	49	13	2	23	—	331
Marble	—	—	—	—	—	—	—	—	—	0	—	1	—	—	—	1
Mine drainage gas	—	2	—	1	—	—	—	—	—	3	—	—	—	—	—	3
Natural gas	—	10	1	3	—	—	—	1	1	16	—	—	—	—	—	16
Oil	—	—	—	22	—	—	—	22	3	47	—	—	—	—	—	47
Peat	1	3	9	—	—	2	—	—	39	54	2	23	—	13	—	92
Potash	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—	1
Salt	—	1	4	—	—	1	1	—	1	8	—	—	—	6	—	14
Sand	6	6	5	2	3	14	2	33	15	86	1	16	—	3	1	107
Sand & gravel	12	31	28	43	36	100	27	101	38	416	25	114	3	100	—	658
Sandstone	19	54	37	18	22	8	—	6	24	188	27	50	—	6	—	271
Silica sand	1	2	5	1	2	15	—	7	1	34	1	6	—	—	—	41
Slate	—	—	10	—	—	—	—	—	8	18	11	—	3	1	—	33
Slate waste	—	—	—	—	—	—	—	—	—	0	15	—	—	—	—	15
Talc	—	—	—	—	—	—	—	—	—	0	—	1	—	—	—	1
Tin	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	2
Total	77	202	141	196	106	169	30	239	304	1 464	171	371	10	188	4	2 208

(a) As at February 2012.

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

Source: British Geological Survey.

Abrasives, natural

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Carats					£ thousand				
Abrasives										
<i>Imports</i>										
Natural abrasives										
Industrial diamonds	11 884 651	7 524 168	5 127 610	3 321 670	7 299 364	70 193	11 164	12 307	7 623	30 724
	Tonnes									
Dust and powder of precious and semi-precious stones	49	49	39	24	27	11 260	10 749	9 352	6 756	11 006
Pumice	97 832	206 353	2 259	1 668	2 062	1 659	2 546	2 013	1 130	1 183
Other	8 106	11 827	13 424	11 748	11 876	1 697	2 532	3 517	2 634	3 012
	Carats									
<i>Exports</i>										
Natural abrasives										
Industrial diamonds	13 652 233	4 754 029	6 121 081	4 440 922	2 478 568	18 891	17 485	17 700	13 977	21 248
	Tonnes									
Dust and powder of precious and semi-precious stones	16	31	151	27	30	11 288	13 310	12 052	8 315	14 892
Pumice	70	40	76	307	704	227	93	293	534	997
Other	852	1 180	1 339	1 203	1 562	511	612	1 056	1 283	1 890

Aggregates

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Aggregates										
<i>Production</i>										
Sand and gravel (a)	92 107 000	93 236 000	85 473 000	66 226 000	61 700 000					
Crushed rock (b)	145 578 000	148 534 000	127 996 000	104 626 000	94 203 000					
Total	237 685 000	241 770 000	213 469 000	170 852 000	155 903 000					
<i>Imports</i>										
Natural aggregates-										
Sand and gravel	634 844	896 715	647 603	444 725	343 749	17 583	18 260	16 043	12 212	10 874
Crushed rock (c)	2 270 355	1 909 733	1 984 383	1 609 546	1 896 201	27 202	27 501	34 449	26 157	30 740
Total	2 905 198	2 806 448	2 631 986	2 054 271	2 239 950	44 785	45 761	50 492	38 369	41 614
<i>Exports</i>										
Natural aggregates-										
Sand and gravel (d)	9 308 961	8 089 175	7 747 635	6 236 662	6 081 730	45 498	46 624	50 027	48 688	44 819
Crushed rock	5 322 099	5 959 212	5 260 973	4 916 514	4 910 702	25 773	33 637	36 693	36 965	36 490
Total	14 631 060	14 048 387	13 008 608	11 153 176	10 992 432	71 271	80 261	86 720	85 653	81 309

(a) Including production from marine dredging.

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

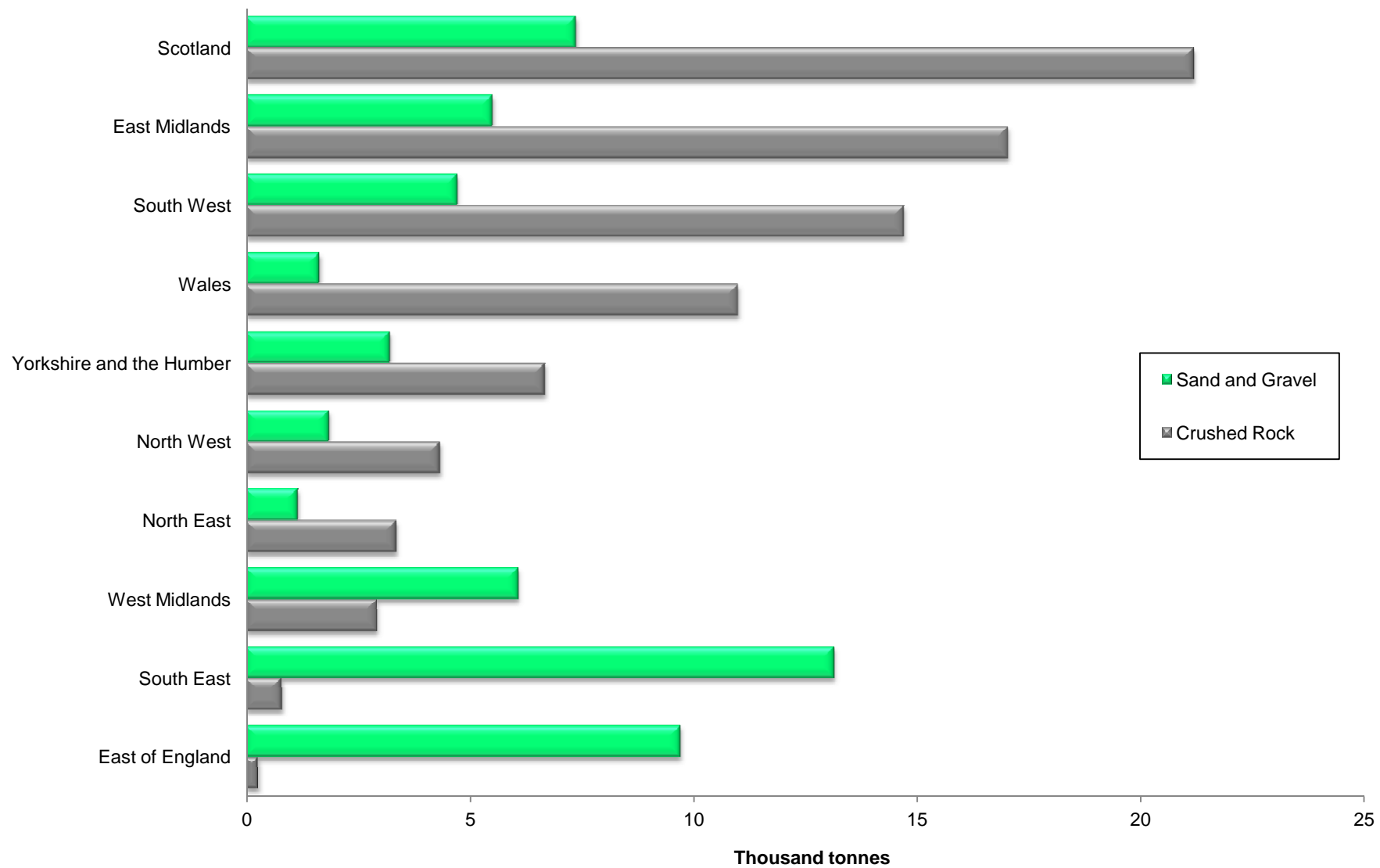
(c) For a number of years, a significant amount of armoustone imports were believed to be wrongly classified as 'granite, crude'. In 2010, this figure was 162 550 tonnes, and this has reduced from 1 331 520 tonnes in 2005, suggesting this issue is being addressed.

(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): 2006: 6 714 659; 2007: 6 649 041; 2008: 6 211 703; 2009: 5 660 522; 2010: 5 192 348.

Great Britain production of crushed rock aggregate and sand and gravel by region 2010



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
England	35 821	10 214	45 035	63 236	109 271
South Wales	209	516	724	5 886	6 611
North Wales	491	53	544	2 694	3 238
Wales	700	568	1 268	8 580	9 848
England and Wales	36 521	10 782	47 303	71 816	119 120

(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
England	417 972	77 461	48 834	544 267	17 437	2 754 065	602 818	33 899	3 390 782	370 162	3 935 049
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
Wales	18 943	2 002	0	20 945	1 190	454 529	136 861	0	591 390	22 411	612 335
England & Wales	436 915	79 463	48 834	565 212	18 627	3 208 594	739 680	33 899	3 982 172	392 573	4 547 384

(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 1960–2010

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

(a) Including dolomite.

(d) BGS estimate.

(b) Total production, excluding marine-dredged material for export; see table on p.72.

Source: Office for National Statistics.

(c) The following amounts of crushed rock aggregate, believed to be mainly igneous rock, were exported (million tonnes): 2006: 5; 2007: 6; 2008: 5; 2009: 5; 2010: 5. 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) 1960–2010**

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	35 604	1.0	2.1	3.2	55 981	0.7	1.4	2.0
1961	38 964	1.0	2.2	3.2	59 952	0.7	1.4	2.1
1962	40 203	1.0	2.1	3.1	61 634	0.7	1.4	2.0
1963	40 962	1.1	2.2	3.2	63 129	0.7	1.4	2.1
1964	48 270	1.1	2.2	3.3	70 917	0.8	1.5	2.3
1965	51 193	1.2	2.0	3.1	74 417	0.8	1.4	2.2
1966	51 568	1.3	2.1	3.4	75 332	0.9	1.4	2.3
1967	56 143	1.4	2.0	3.4	80 632	1.0	1.4	2.4
1968	58 001	1.6	1.9	3.5	82 544	1.1	1.4	2.5
1969	56 851	1.7	1.9	3.6	80 788	1.2	1.3	2.5
1970	54 698	1.8	2.0	3.8	78 454	1.2	1.4	2.7
1971	56 454	1.8	2.0	3.8	80 396	1.2	1.4	2.6
1972	56 622	1.8	2.1	3.9	82 865	1.2	1.4	2.7
1973	56 705	2.2	2.3	4.5	84 099	1.5	1.5	3.0
1974	47 276	2.5	2.4	4.9	73 928	1.6	1.5	3.1
1975	44 961	2.4	2.6	5.0	69 384	1.6	1.7	3.3
1976	45 861	2.1	2.4	4.5	68 858	1.4	1.6	3.0
1977	44 240	2.1	2.2	4.4	67 991	1.4	1.5	2.8
1978	46 223	2.1	2.2	4.4	73 604	1.3	1.4	2.7
1979	42 793	2.4	2.4	4.8	74 156	1.4	1.4	2.8
1980	36 617	2.8	2.6	5.4	69 601	1.5	1.4	2.9
1981	32 762	2.8	2.7	5.5	62 872	1.5	1.4	2.9
1982	34 987	2.9	2.6	5.5	65 293	1.6	1.4	3.0
1983	37 939	3.0	2.7	5.6	71 141	1.6	1.4	3.0
1984	38 663	2.9	2.6	5.4	73 485	1.5	1.4	2.9
1985	38 027	3.0	2.7	5.7	73 881	1.6	1.4	2.9
1986	40 075	3.1	2.6	5.7	76 715	1.6	1.4	3.0
1987	45 610	3.1	2.4	5.6	85 486	1.7	1.3	3.0
1988	50 809	3.2	2.6	5.7	93 639	1.7	1.4	3.1
1989	51 497	3.3	2.5	5.8	96 901	1.7	1.4	3.1
1990	51 027	3.2	2.3	5.4	96 338	1.7	1.2	2.9
1991	48 552	3.0	2.0	5.1	89 076	1.7	1.1	2.8
1992	47 649	3.0	1.9	4.9	85 503	1.7	1.0	2.7
1993	47 195	3.2	1.9	5.1	84 024	1.8	1.1	2.8
1994	45 421	3.6	2.2	5.7	83 621	1.9	1.2	3.1
1995	45 444	3.3	2.0	5.3	84 463	1.8	1.1	2.8
1996	47 218	2.8	1.7	4.6	87 168	1.5	0.9	2.5
1997	48 766	2.7	1.8	4.5	88 989	1.5	1.0	2.5
1998	50 272	2.6	1.7	4.3	90 547	1.5	0.9	2.4
1999	51 929	2.6	1.7	4.3	91 746	1.4	1.0	2.4
2000	52 073	2.5	1.7	4.2	92 683	1.4	1.0	2.4
2001	51 717	2.6	1.7	4.3	94 269	1.4	0.9	2.4
2002	53 861	2.3	1.5	3.9	98 520	1.3	0.8	2.1
2003	56 340	2.2	1.4	3.6	104 013	1.2	0.8	2.0
2004	60 163	2.1	1.4	3.6	105 289	1.2	0.8	2.0
2005	59 412	2.1	1.4	3.4	104 425	1.2	0.8	2.0
2006	66 909	1.9	1.2	3.1	105 741	1.2	0.8	2.0
2007	69 338	1.9	1.1	3.0	108 233	1.2	0.7	1.9
2008	67 322	1.7	1.1	2.8	107 033	1.1	0.7	1.7
2009	58 974	1.5	0.9	2.5	94 762	1.0	0.6	1.5
2010	67 671	1.2	0.8	2.0	101 840	0.8	0.5	1.3

(a) Valued at constant 2005 prices.

Source: Department for Business, Innovation & Skills.

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

Source: British Geological Survey.

Aluminium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Aluminium										
<i>Production</i>										
Unwrought-										
Primary	360 325	364 595	326 900	252 000	186 000					
Secondary	204 200	193 900	145 800	129 800	150 000					
<i>Consumption</i>										
Unwrought-										
Primary	362 267	363 480	339 440	270 000	270 000					
Secondary	169 983	174 073	369 083	344 400	322 400					
Ferro-aluminium (a)	3 030	3 140	2 950	2 190	2 120					
<i>Imports</i>										
Ash and residues	1 766	2 273	1 136	526	1 001	910	1 516	1 744	418	1 142
Unwrought	169 259	201 262	160 797	304 621	138 975	238 404	284 302	234 827	326 050	204 559
Unwrought alloys	245 496	93 145	93 210	43 601	62 686	147 969	150 316	152 037	60 882	104 767
Scrap	137 626	158 827	145 819	117 651	126 584	120 370	145 358	155 175	94 893	134 400
<i>Exports</i>										
Ash and residues	90	5	631	132	24	35	374	1 990	407	85
Unwrought	17 530	30 631	20 690	17 688	43 665	27 142	44 194	31 790	19 211	60 938
Unwrought alloys	331 598	269 523	265 018	305 849	364 612	514 295	420 852	426 355	369 575	626 968
Scrap	385 211	906 831	872 988	422 574	443 466	351 964	491 914	574 214	333 723	549 108

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

Aluminium compounds

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Aluminium compounds										
<i>Imports</i>										
Oxide (alumina)	823 115	787 218	705 033	352 250	229 158	169 916	166 674	169 891	86 601	84 105
Hydroxide	101 126	112 287	110 503	98 516	87 278	22 582	22 834	27 336	25 911	28 869
Fused Oxide (a)	36 099	30 960	50 448	20 646	42 447	13 527	11 779	23 988	11 911	25 305
Fluorides	7 983	4 897	4 553	3 024	2 118	2 938	2 790	3 668	3 405	1 230
<i>Exports</i>										
Oxide (alumina)	9 979	9 016	9 517	16 810	5 879	5 094	3 699	3 367	5 458	5 189
Hydroxide (b)	1 900	5 200	5 300	4 400	2 100	800	1 000	2 000	1 600	1 339
Fused Oxide (a)	6 252	8 801	9 329	5 819	11 489	5 335	5 600	7 138	5 581	8 617
Fluorides	0	213	210	156	10	2	92	119	229	67

(a) Artificial corundum.

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

Antimony

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Antimony										
<i>Imports</i>										
Metal	81	110	98	88	45	380	428	972	566	472
Oxide	2 291	1 917	2 454	1 548	2 598	5 316	5 399	6 272	5 249	12 821
<i>Exports</i>										
Metal	27	21	35	75	77	200	169	297	640	903
Oxide	397	379	558	407	490	928	936	1 655	1 203	2 347

Arsenic

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Arsenic										
<i>Imports</i>										
Elemental	49	70	52	60	7	415	212	240	380	107
<i>Exports</i>										
Elemental	1	0	0	0	0	34	3	98	9	9

Asbestos

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Asbestos										
<i>Imports</i>										
Fibre	0	187	...	11	...	1	1	...	1	...
Fabricated asbestos	86	50	53	11	28	786	1 486	1 799	507	1 106
Friction material with a basis of asbestos etc.	13 199	6 794	7 464	7 392	6 787	41 779	37 129	44 863	32 224	45 011
Articles of asbestos cement etc.	69 731	86 963	65 502	66 397	76 447	24 150	30 496	28 467	28 750	30 790
<i>Exports</i>										
Fibre	0	...	...	...	...	1	...	...	...	...
Fabricated asbestos	915	132	200	223	79	2 376	1 429	1 886	1 529	964
Friction material with a basis of asbestos etc.	2 877	3 152	3 453	2 772	3 497	31 927	33 282	45 785	36 490	43 223
Articles of asbestos cement etc.	16 902	18 285	15 994	8 452	11 312	6 803	6 618	7 586	4 952	5 724

Asphalt, natural

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Asphalt, natural										
<i>Imports</i>	138 249	183 969	152 309	48 668	56 781	18 069	30 046	32 946	10 837	17 905
<i>Exports</i>	160 972	287 977	141 900	190 764	198 446	20 040	36 092	22 126	41 322	41 898

Ball clay

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Ball clay										
<i>Production (sales)</i>	(a) 1 015 101	(a) 1 022 472	(a) 1 020 496	(a) 727 076	(b) 1 000 000					
<i>Imports</i>	19 304	18 126	12 197	16 340	12 938	1 781	1 754	1 880	1 578	2 146
<i>Exports</i>	769 278	775 850	768 115	513 010	697 037	45 651	45 608	48 838	33 342	41 403

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

Barytes

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Barytes										
<i>Production</i>										
Barium minerals - Barytes	48 000	53 000	43 000	36 000	33 000					
<i>Imports</i>										
Barium minerals (a)	78 225	84 617	56 794	61 308	89 474	4 009	4 286	4 251	4 558	10 241
<i>Exports</i>										
Barium minerals (a)	4 250	9 242	9 976	13 095	17 851	1 577	2 024	2 320	3 407	4 315

(a) Mainly barytes with some witherite.

Bauxite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Bauxite										
<i>Imports (a)</i>	86 882	48 741	57 971	37 461	41 650	6 500	5 421	13 042	13 455	14 147
<i>Exports (a)</i>	28 636	4 276	6 121	3 873	3 140	1 887	1 683	2 137	1 816	1 510

(s) Excluding refractory grade bauxite.

Bentonite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Bentonite										
<i>Imports</i>	173 483	157 388	205 853	140 301	141 849	13 970	11 693	16 658	12 534	13 755
<i>Exports</i>	42 548	47 122	43 261	34 622	41 323	12 549	14 773	15 234	13 828	13 058

Beryllium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Beryllium										
<i>Imports</i>										
Metal	306	13	28	3	24	1 752	3 803	1 702	1 308	3 644
Oxides and hydroxides	7	6	11	2	1	502	410	891	207	1
<i>Exports</i>										
Metal	8	10	10	0	5	673	2 989	263	113	279

Bismuth

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Bismuth										
<i>Imports</i>										
Metal	2 347	1 908	1 582	310	366	12 234	23 190	16 140	2 622	3 704
<i>Exports</i>										
Metal	2 703	2 588	905	941	427	16 043	28 291	12 763	9 142	7 236

Boron

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Boron										
<i>Imports</i>										
Boron minerals (a)	3 470	4 360	2 322	879	2 383	1 162	1 324	627	345	671
<i>Exports</i>										
Boron minerals (a)	186	545	254	5	63	127	135	77	10	166

(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 <http://stats.berr.gov.uk/construction/building>).

Bromine

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Bromine										
<i>Imports</i>										
	7 592	5 266	5 903	6 534	5 788	4 584	4 625	4 476	6 661	5 737
<i>Exports</i>										
	1 138	1 470	1 015	497	781	1 935	2 236	1 716	1 463	1 888

Building and dimension stone

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Building and dimension stone										
<i>Production</i>										
Sandstone	434 000	419 000	499 000	722 000	741 000					
Igneous rock	150 000	(a) 50 000	279 000	408 000	(a) 600 000					
Limestone	379 000	(a) 320 000	307 000	(a) 300 000	(a) 700 000					
Dolomite	3 000	(a) 1 000	2 000	(a) 1 000	(a) 1 000					
Total	(a) 966 000	(a) 790 000	1 087 000	(a) 1 431 000	(a) 2 100 000					
<i>Imports</i>										
Unworked-										
Marble & other calcareous stone	32 609	37 404	37 444	26 787	21 339	17 463	20 144	21 150	16 466	15 556
Granite (b)	491 438	442 911	1 058 054	361 043	270 991	33 622	43 987	54 092	40 792	39 615
Sandstone	255 732	322 530	264 202	202 831	201 490	31 694	41 949	38 988	27 176	33 590
Other stone	116 986	68 726	54 415	48 823	63 655	12 024	10 393	10 983	10 208	12 299
Worked-										
Marble & other calcareous stone	100 555	111 039	114 870	100 648	92 078	65 977	63 620	74 273	70 696	59 417
Granite	114 802	114 967	115 495	94 003	95 792	66 403	74 519	80 043	66 539	69 242
Other stone	41 470	64 610	61 324	98 462	87 152	17 632	26 035	27 885	30 246	30 638
Paving stones and flagstones	220 005	297 099	176 448	136 981	181 584	30 337	43 258	30 602	22 748	34 691
<i>Exports</i>										
Unworked-										
Marble & other calcareous stone	1 549	2 227	1 019	728	822	184	553	264	493	1 221
Granite	2 394	7 634	8 629	5 722	36 657	983	2 125	1 741	1 215	3 211
Sandstone	5 426	1 081	354	243	259	764	269	109	149	226
Other stone	638	8 928	888	276	540	167	419	161	107	134
Worked-										
Marble & other calcareous stone	4 068	4 740	2 934	1 603	1 332	6 441	7 319	5 292	3 294	3 310
Granite	517	429	786	1 904	1 449	1 233	627	1 391	2 069	2 031
Other stone	5 958	7 022	7 372	2 797	2 591	4 475	5 860	5 386	5 406	4 983
Paving stones and flagstones	6 669	3 716	2 483	3 321	4 640	1 847	1 125	1 314	1 229	1 379

(a) BGS estimate.

(b) Figures in some years believed to be too high. May include aggregates.

Cadmium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Cadmium										
<i>Consumption</i>										
	20	87	96	96	96					
<i>Imports</i>										
Metal	129	276	212	246	470	642	1 218	957	827	1 424
Pigments	220	102	104	63	22	299	386	506	255	136
<i>Exports</i>										
Metal	7	76	54	25	2 545	46	334	739	440	7 383
Pigments	672	962	537	620	774	6 571	6 546	6 272	7 533	10 217

Cement

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Cement										
<i>Production</i>										
Cement, clinker (a)	10 069 000	10 227 000	9 478 000	6 420 000	6 599 000					
Cement, finished (a)	11 469 000	11 887 000	10 071 000	7 623 000	7 882 000					
<i>Cubic metres</i>										
Ready-mixed concrete	23 029 000	23 548 000	20 051 000	14 069 000	14 038 000					
<i>Tonnes</i>										
<i>Consumption (home deliveries)</i>										
Finished cement (a)(b)	11 221 000	11 638 000	9 937 000	7 474 000	7 767 000					
<i>Imports</i>										
Portland cement clinkers	516 583	836 788	366 791	206 857	201 308	38 834	59 190	34 947	19 471	20 789
Aluminous cement	13 967	14 770	8 946	8 248	14 779	3 960	3 876	2 698	2 644	4 889
Portland cement	1 397 025	1 534 683	1 731 228	1 718 146	1 759 841	69 931	81 685	93 946	98 170	101 408
Other cement	12 824	11 445	19 378	22 567	77 252	3 244	2 862	4 148	5 345	5 488
<i>Exports</i>										
Portland cement clinkers	91 357	28 432	15 071	4 708	5 500	2 510	1 856	1 248	950	1 313
Aluminous cement	69 458	63 756	57 963	42 725	50 689	24 515	22 386	20 022	16 500	23 800
Portland cement	521 784	459 629	230 920	92 628	134 223	31 713	30 877	18 540	10 884	13 357
Other cement	17 400	24 695	35 160	8 635	6 092	3 184	4 354	4 630	2 155	1 870

(a) Great Britain only.
 (b) Excluding imports.

Chalk (see Limestone)

China clay

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
China clay										
<i>Production (sales)(a)</i>	(b) 1 762 328 (b) 1 671 426 (b) 1 355 365 (b) 1 059 848 (c) 1 000 000									
<i>Imports (d)</i>	79 958	54 888	67 349	61 164	82 927	10 007	8 064	12 116	14 028	17 361
<i>Exports (d)</i>	1 859 895	1 723 161	1 186 905	880 929	1 025 298	157 133	146 289	119 536	101 218	115 113

(a) Dry weight.
 (b) Source: The Kaolin and Ball Clay Association.
 (c) BGS estimate.

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

China stone (see Feldspar)

Chromium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Chromium										
<i>Apparent consumption (a)</i>	39 800	60 300	81 500	18 200	34 100					
<i>Consumption in Iron and Steel Industry (b)</i>	54 670	60 980	68 770	24 100	33 970					
<i>Imports</i>										
Ores & concentrates	74 907	103 551	117 715	33 867	7 084	4 344	6 698	21 106	6 789	1 901
Ferro-chrome										
Under 4% carbon	7 049	11 396	13 250	5 730	7 836	6 607	11 820	31 747	10 517	15 559
4%-6% carbon	399	1 383	1 081	683	50	351	1 094	878	423	37
Over 6% carbon	45 046	34 197	65 360	28 471	50 512	18 869	17 514	75 033	20 200	49 286
Ferro-silico-chrome	350	1 242	128	26	9	128	635	136	59	10
Oxides and hydroxides (c)	7 100	13 000	9 000	3 300	3 400	5 000	9 200	12 400	4 300	6 400
Metal	4 022	2 134	3 099	2 904	3 007	12 883	9 820	15 062	12 132	17 349
<i>Exports</i>										
Ores & concentrates	47	178	—	32 507	297	15	37	...	3 168	103
Ferro-chrome										
Under 4% carbon	436	376	461	294	187	582	564	2 018	954	765
4%-6% carbon	938	622	160	39	964	243	371	324	75	411
Over 6% carbon	2 684	1 940	755	1 141	1 252	2 234	2 686	1 379	1 653	1 851
Ferro-silico-chrome	8	35	9	50	22	12	80	24	244	43
Oxides and hydroxides (d)	15 100	12 700	14 500	4 900	1 200	21 100	18 400	33 600	12 200	3 500
Metal	5 123	6 777	6 501	5 058	7 441	20 563	27 595	38 623	33 207	54 158

(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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Clays										
<i>Production</i>										
Clay and shale	10 432 000	10 104 000	8 459 000	5 310 000	5 934 000					
<i>Imports</i>										
Unspecified clays	75 154	79 697	55 659	87 620	102 136	13 511	15 407	17 332	12 520	16 420
<i>Exports</i>										
Unspecified clays	12 998	19 184	15 120	8 702	14 138	2 754	4 608	5 927	2 533	3 591

Great Britain production of clay and shale by end-use 1998–2010

Thousand tonnes

Year	Bricks, pipes and tiles	Cement	Lightweight aggregate	Construc- tional 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

(a) BGS estimate.

Source: Office for National Statistics.

Coal

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Coal										
<i>Production</i>										
Bituminous (a)	18 517 000	17 070 000	18 053 000	17 874 000	18 417 000					
<i>Consumption</i>										
	67 450 000	62 886 000	58 212 000	48 786 000	51 429 000					
<i>Imports</i>										
Anthracite	125 011	135 941	213 318	207 327	187 246	9 444	7 769	27 725	25 757	22 711
Bituminous & Other	49 544 012	43 024 560	43 038 043	36 553 574	23 227 529	2 095 699	1 951 342	3 480 141	2 632 676	1 828 525
Total	49 669 023	43 160 501	43 251 361	36 760 900	23 414 775	2 105 143	1 959 111	3 507 866	2 658 434	1 851 236
Briquettes of Coal	9 604	6 127	13 164	6 484	10 489	1 211	1 068	1 348	1 480	1 740
Lignite (including agglomerated)	1 215	384	986	2 537	777	395	329	507	660	231
<i>Exports</i>										
Anthracite	137 353	123 549	165 473	119 472	89 701	10 739	10 474	15 647	15 587	11 701
Bituminous & Other	354 281	419 193	742 582	391 414	615 067	24 795	30 528	80 084	56 545	73 176
Total	491 634	542 742	908 055	510 886	704 768	35 534	41 002	95 730	72 132	84 877
Briquettes of Coal	18 982	26 590	51 782	67 618	88 351	2 073	2 976	7 869	12 142	15 783
Lignite (including agglomerated)	3 804	2 966	3 157	2 795	3 182	481	410	591	600	621

(a) Including anthracite.

UK supply of coal 2010

Thousand tonnes

	Bituminous		Anthracite	Total
	Steam coal	Coking coal		
Production				
Mine production	16 397	270	1 150	17 817
Other sources	530	...	70	600
Stock change	7 817	-531	-79	7 206
Total production	...	-261	...	25 623
Imports				
European Union	881	1	72	954
Australia	—	3 235	12	3 247
Canada	—	434	—	434
Colombia	6 360	66	11	6 437
Indonesia	275	—	—	275
China P.R.	—	—	17	17
South Africa	781	—	—	781
Russia	9 356	351	43	9 750
USA	2 390	2 132	—	4 522
Other countries	87	16	—	103
Total imports	20 130	6 235	155	26 520
Total exports	-624	-1	-90	-715
Total supply	...	5 973	...	51 428

Source: Department of Energy and Climate Change.

Great Britain production of deep-mined and opencast coal 1981–2010

Thousand tonnes

Year	Deep-mined			Opencast			Deep-mined and opencast		
	Anthracite	Bituminous	Total	Anthracite	Bituminous	Total	Anthracite	Bituminous	Total
1981	1 566	108 907	110 473	1 343	13 485	14 828	2 909	122 392	125 301
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

(a) BGS estimate.

Source: Department of Energy and Climate Change.

United Kingdom regional deep-mined coal production 2006–2011 (a)

Thousand tonnes

County/Unitary authority	2006/07	2007/08	2008/09	2009/10	2010/11
Doncaster	58	118	489	730	827
Kirklees	19	14	16	18	8
Rotherham	811	917	1 124	1024	855
Warwickshire	2 247	2 560	3116	2349	3173
Derbyshire	26	24	21	20	23
Nottinghamshire	2 642	2 125	1 938	1735	1737
North Yorkshire	1 908	1 569	1 183	1014	1624
Gloucestershire	0	0	0	0	0
England	7 711	7 327	7 887	6 890	8 247
Rhondda, Cynon Taff	423	145	—	—	—
Neath Port Talbot	11	19	121	83	43
Torfaen	5	5	4	1	1
Wales	440	168	125	84	44
Scotland	—	—	—	—	—
United Kingdom	8 150	7 495	8 012	6 974	8 292

(a) Financial years to March.

Source: The Coal Authority.

United Kingdom regional opencast coal production 2006–2011 (a)

Thousand tonnes

County/Unitary authority	2006/07	2007/08	2008/09	2009/10	2010/11
Barnsley	—	—	—	—	—
Bolton	—	186	257	285	372
Calderdale	1	—	—	1	—
Kirklees	—	12	6	2	—
Rotherham	18	—	—	4	36
Wakefield	—	82	187	12	—
Lancashire	—	—	1	—	—
Leicestershire	8	110	441	293	31
Derbyshire	—	17	127	488	630
Durham	134	91	—	—	192
Newcastle upon Tyne	89	7	—	—	62
Northumberland	768	1 306	1 142	1 033	1 438
Leeds	—	—	—	26	71
Telford & Wrekin	—	—	—	—	69
Cumbria	—	—	—	—	—
England	1 018	1 811	2 161	2 144	2 900
Blaenau Gwent	—	—	—	—	14
Merthyr Tydfil	—	38	447	670	896
Carmarthenshire	32	18	8	—	—
Neath Port Talbot	807	665	832	480	497
Powys	412	361	408	416	395
Wales	1 252	1 082	1 695	1 566	1 801
Dumfries & Galloway	233	751	562	624	647
Falkirk	5	—	—	—	—
Midlothian	246	85	258	178	184
West Lothian	495	260	—	—	—
East Ayrshire	3 257	3 380	3 330	2 760	2 524
Fife	1 046	735	748	819	775
North Lanarkshire	—	—	—	2	38
South Lanarkshire	860	710	1 063	1 596	1 647
Scotland	6 143	5 921	5 961	5 979	5 816
United Kingdom	8 412	8 815	9 817	9 689	10 517

(a) Financial years to March.

Source: The Coal Authority.

Cobalt

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Cobalt										
<i>Consumption in Iron and Steel Industry (a)</i>										
	20	20	20	10	10					
<i>Apparent consumption (a)(b)</i>	2 000	2 900	2 400	1 100	3 800					
<i>Imports</i>										
Scrap	744	866	880	358	435	4 527	10 316	12 130	4 195	4 851
Ore	24	0	72	200	143	17	11	1 526	3 750	669
Unwrought	2 855	3 670	3 748	3 131	5 023	39 515	73 809	114 725	48 235	72 415
Wrought	828	885	767	439	505	16 942	11 182	14 241	18 134	15 588
Oxides	195	180	138	168	198	2 291	3 394	4 021	2 309	2 825
<i>Exports</i>										
Scrap	467	766	1 178	834	494	3 203	6 984	10 915	2 924	5 193
Unwrought	630	679	804	1 187	730	12 932	17 036	28 019	27 420	21 691
Wrought	597	855	633	552	555	19 281	20 921	26 806	24 439	24 103
Oxides	750	689	798	891	1 267	9 167	13 909	22 944	13 809	23 040

(a) Metal content.

(b) BGS estimates; see explanatory notes.

Coke and breeze

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Coke and breeze										
<i>Production</i>										
Coke oven - coke	4 384 000	4 451 000	4 324 000	3 663 000	3 990 000					
Coke oven - breeze	245 000	25 000	35 000	29 000	32 000					
<i>Consumption</i>										
Coke oven coke	3 846 000	4 010 000	3 899 000	2 843 000	2 620 000					
Breeze	1 415 000	1 159 000	1 204 000	892 000	805 000					
<i>Imports</i>										
Coke from coal	804 872	691 402	509 265	89 717	171 791	80 803	98 135	107 977	14 962	25 551
Coke from lignite	15 458	7 315	363	125	469	2 126	1 077	105	61	260
<i>Exports</i>										
Coke from coal	93 505	97 608	172 201	91 678	442 944	10 740	10 459	28 927	16 972	109 965
Coke from lignite	...	20 813	...	0	...	...	1 365	...	0	...

Copper

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Copper										
<i>Consumption</i>										
Unwrought-										
Refined	172 092	41 454	42 920	22 800	43 000					
Copper in scrap for direct use	120 000	120 000	120 000	120 000	...					
<i>Imports</i>										
Ores & concentrates	2 571	1 676	699	581	189	1 537	1 218	1 500	928	968
Matte & cement	15	2	14	1	22	63	51	...	23	28
Scrap	19 744	21 852	21 132	18 549	27 495	43 789	53 297	53 211	39 973	81 565
Ash and residues	610	1 089	635	217	40	758	1 395	782	156	63
Unwrought-										
Unrefined	264	7 401	5 529	3 034	2 039	600	23 350	18 981	14 557	7 898
Refined	183 727	46 820	47 716	45 249	40 708	668 026	170 610	187 844	145 913	202 000
Alloys	5 813	5 488	5 173	3 766	5 379	18 155	18 339	15 991	11 931	19 914
Master Alloys	930	714	548	300	309	3 113	2 827	2 778	1 447	1 859
<i>Exports</i>										
Ores & concentrates	12	2	118	68	39	177	36	137	107	152
Matte & cement	515	16	28	14	33	1 864	181	215	118	218
Scrap	311 058	346 361	358 981	429 467	421 868	587 992	646 751	775 054	693 154	1 077 272
Ash and residues	1 168	465	723	832	541	522	196	591	1 407	451
Unwrought-										
Unrefined	153	786	3 066	205	185	1 922	4 844	16 062	2 508	2 896
Refined	5 969	8 489	4 850	14 059	8 863	18 721	29 618	20 571	41 963	43 952
Alloys	13 661	12 533	11 603	7 906	6 899	41 189	46 032	45 706	26 335	33 354
Master Alloys	3 590	5 609	6 219	3 933	5 883	14 471	21 354	25 047	12 728	26 087

Crushed rock (see also Aggregates)

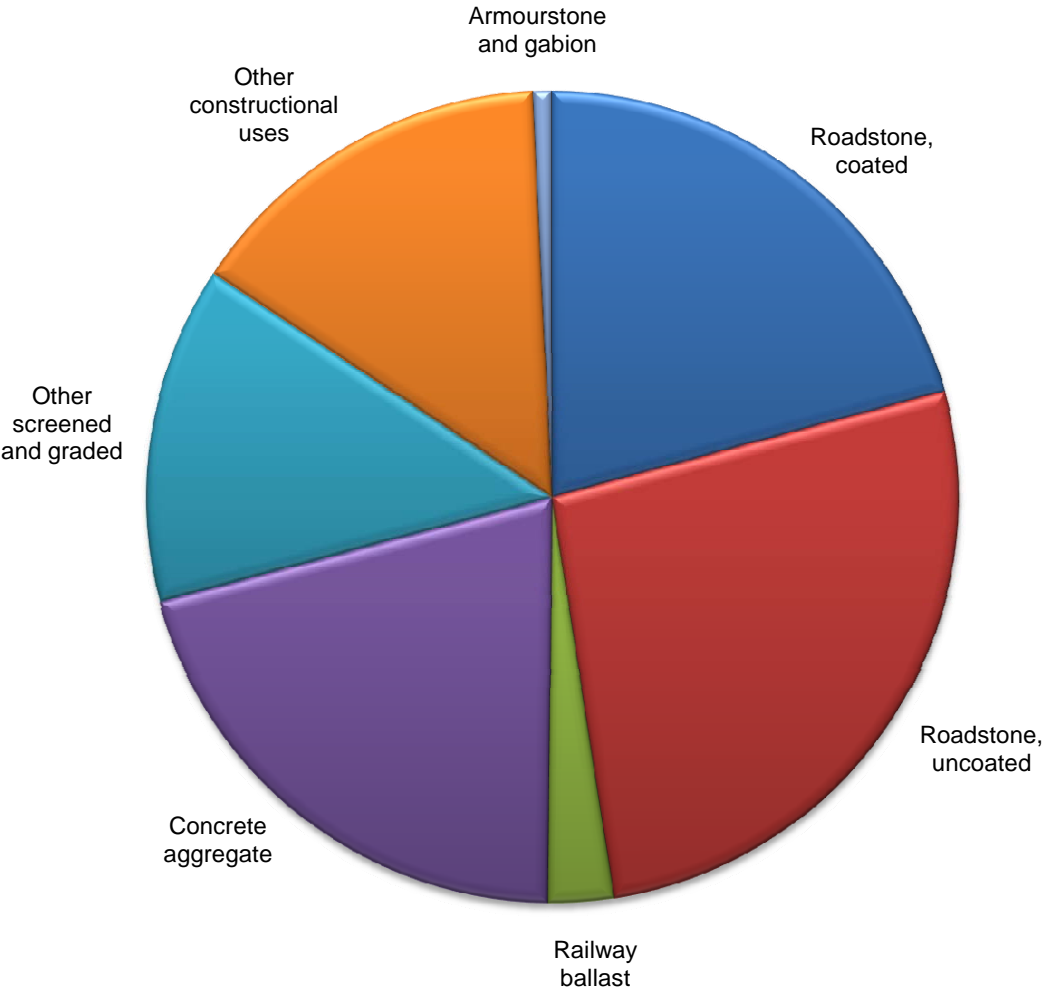
United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Crushed rock										
<i>Production (a)</i>	145 578 000	148 534 000	127 996 000	104 626 000	94 203 000					
<i>Imports (b)</i>	2 270 355	1 909 733	1 984 383	1 609 546	1 896 201	27 202	27 501	34 449	26 157	30 740
<i>Exports</i>	5 322 099	5 959 212	5 260 973	4 916 514	4 910 701	25 773	33 637	36 693	36 965	36 490

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

(b) For a number of years a significant amount of armourstone imports are believed to be wrongly classified as 'granite, crude'. In 2010, this figure was 162 550 tonnes, and this has reduced from 1 331 520 tonnes in 2005, suggesting this issue is being addressed.

**Great Britain production of crushed rock by end-use 2010
(total production 82.3 million tonnes)**



Great Britain production of crushed rock by region 1980–2010

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

(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 2010

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)	2 877	2 703	9 234	...	...	10 915	5 119	6 264	189	...
Igneous rock	5 205	3 076	10 175	640	2 154	5 264	5 305	4 496	...	...
Sandstone	889	2 354	1 265	...	...	859	632	1 560	...	...
Total	8 971	8 133	20 674	1 343	2 158	17 038	11 056	12 320	614	82 309

Source: Office for National Statistics.

Great Britain production of crushed rock by end-use 1998–2010

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

(a) BGS estimate.

Source: Office for National Statistics.

Great Britain production of crushed rock, gravel and sand for use in concrete, 1998–2010

Thousand tonnes

Year	Sandstone	Igneous rock	Limestone and dolomite	Gravel (a)	Concreting sand (a)	Total
1998	686	3 749	15 711	30 369	30 244	80 759
1999	773	3 998	15 309	30 349	31 730	82 159
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

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

Source: Office for National Statistics.

Great Britain production of crushed rock for use as roadstone, 1998–2010

Thousand tonnes

Year	Sandstone		Igneous rock		Limestone and dolomite		Total	
	Coated	Uncoated	Coated	Uncoated	Coated	Uncoated	Coated	Uncoated
1998	3 506	2 689	9 273	10 100	10 352	24 027	23 131	36 816
1999	3 140	2 326	9 945	13 307	9 175	22 481	22 260	38 114
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

(a) Including surface dressing chippings.

Source: Office for National Statistics.

(b) Excluding surface dressing chippings.

Great Britain production of crushed rock for railway ballast, 1998–2010

Thousand tonnes

Year	Sandstone	Igneous rock	Limestone and dolomite	Total
1998	(a) 351	2 008	(a) 122	(a) 2 481
1999	(a) 138	1 959	(a) 99	(a) 2 196
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

(a) BGS estimate.

Source: Office for National Statistics.

England production of crushed rock by end-use 1998–2010

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	
1998	16 076	25 516	...	...	33 080	14 003	...	...	...	88 675
1999	15 663	24 338	...	...	34 754	13 882	...	...	...	88 637
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

Source: Office for National Statistics.

Wales production of crushed rock by end-use 1998–2009

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	
1998	3 318	4 222	...	...	8 445	3 919	...	...	...	19 903
1999	3 342	4 868	...	...	8 268	3 951	...	...	...	20 429
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

Source: Office for National Statistics.

Scotland production of crushed rock by end-use 1998–2010

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	
1998	3 738	7 077	...	...	10 098	2 224	...	...	...	23 138
1999	3 255	8 907	...	...	9 122	2 247	...	...	...	23 531
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

Source: Office for National Statistics.

Diamond

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Carats					£ thousand				
Diamond										
<i>Imports</i>										
Unsorted	14 408 621	13 661 786	10 283 610	8 348 854	8 703 907	556 447	573 786	876 344	834 518	1 228 713
Gem-										
Rough	78 790 692	81 195 314	59 534 653	44 064 081	40 559 260	3 575 369	2 999 781	2 761 345	2 013 574	2 747 423
Cut	7 370 573	973 433	1 343 330	868 406	761 455	798 474	752 728	911 691	689 890	826 271
Industrial	11 884 651	7 524 168	5 127 610	3 321 670	7 299 364	70 193	11 164	12 307	7 623	30 724
Dust	199 882 920	198 484 150	187 268 975	88 148 090	111 136 020	10 325	10 046	8 665	6 404	10 624
<i>Exports</i>										
Unsorted	3 544 216	5 307 857	3 388 395	4 090 534	3 689 202	301 075	363 578	477 338	488 658	710 750
Gem-										
Rough	88 991 279	84 573 134	66 479 817	43 775 775	51 769 860	3 944 529	3 337 596	3 448 031	2 381 592	3 417 622
Cut	2 341 635	477 463	795 612	257 202	283 435	447 503	538 638	699 752	657 011	772 743
Industrial	13 652 233	4 754 029	6 121 081	4 440 922	2 478 568	18 891	17 485	17 700	13 977	21 248
Dust	111 788 350	104 552 775	122 681 695	105 427 132	113 451 535	11 200	13 014	11 492	7 796	14 191

Diatomite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Diatomite										
<i>Imports (a)</i>	28 290	24 224	23 084	22 014	18 649	4 710	4 437	4 548	5 001	5 348
<i>Exports</i>	687	1 238	903	533	1 650	1 085	1 025	502	288	424

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

Dolomite (see Limestone)

Feldspar

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Feldspar										
<i>Production</i>										
China stone (a)	1 441	1 112	430	—	—					
<i>Imports</i>										
Feldspar	17 098	26 751	18 899	9 299	17 584	1 096	1 687	1 406	661	1 813
Nepheline-syenite	81 960	40 484	44 275	32 462	39 092	4 201	3 617	4 355	3 516	4 038
<i>Exports</i>										
Feldspar	38	40	82	369	38	121	20	28	30	20
Nepheline-syenite	557	2 430	902	204	291	271	635	520	62	83

(a) Including weathered granite feldspar.

Fireclay

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Fireclay										
<i>Production (a)</i>										
	228 000	338 000	180 000	129 000	110 000					
<i>Imports</i>										
Fireclay	1 279	1 467	2 556	2 273	2 644	377	244	402	514	661
Fireclay bricks etc	7 651	8 166	7 070	3 229	2 103	2 800	3 478	4 960	1 509	1 552
Refractory hollow-ware	1 969	1 357	2 272	2 090	1 622	2 688	2 670	3 557	4 306	3 614
<i>Exports</i>										
Fireclay	179	94	54	92	9	117	79	33	62	24
Fireclay bricks etc	2 676	3 283	4 347	3 455	2 587	4 800	3 957	5 319	4 441	3 093
Refractory hollow-ware	2 989	2 386	1 274	1 297	890	15 361	16 218	17 071	14 687	13 212

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

Fluorspar

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Fluorspar										
<i>Production</i>										
	49 676	44 936	36 801	18 536	26 420					
<i>Imports</i>										
	6 620	3 875	8 429	6 436	1 294	976	1 040	2 389	2 574	599
<i>Exports</i>										
	3 016	589	187	303	412	476	304	156	184	1 345

Fuller's earth

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Fuller's earth										
<i>Imports</i>	14 700	...	...	...	...	1 408	...	...	...	...
<i>Exports</i>	1 102	...	...	...	...	279	...	...	...	...

Gas, natural (see Petroleum)

Germanium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Germanium										
<i>Imports</i>										
Metal	2	3	1	3	2	1 205	872	400	802	539
<i>Exports</i>										
Metal	1	0	0	53	1	157	135	277	308	523

Gold

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Gold										
<i>Production (a)</i>	—	0	0	0	0					
<i>Imports</i>										
Waste & scrap	8	17	43	213	66	8 185	13 157	35 655	24 161	90 993
Unwrought (b)	1 152	725	878	1 158	791	8 263 982	7 017 522	13 136 670	23 560 892	19 875 910
Semi-manufactured	547	287	36	9	10	90 711	226 489	307 054	148 367	193 170
<i>Exports</i>										
Waste & scrap	314	282	272	533	497	36 296	37 334	293 085	1 041 439	1 534 257
Unwrought (b)	149	211	579	78	260	1 407 212	2 169 760	8 068 006	1 326 269	6 309 575
Semi-manufactured	24	44	24	19	33	52 874	76 554	162 089	147 766	428 307

(a) Small quantities have been produced in Northern Ireland as follows:
2007: 88 kilograms; 2008: 163 kilograms; 2009: 187 kilograms and
2010: 177 kilograms.

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

Granite (see Igneous rock)

Graphite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Graphite										
<i>Imports</i>										
Natural graphite	16 978	17 225	14 309	7 850	6 989	9 243	8 642	7 766	5 516	5 468
Artificial graphite	15 334	16 112	20 728	10 813	16 290	15 435	15 136	21 815	18 104	21 622
Graphite crucibles etc	1 100	1 333	991	788	782	3 506	3 531	3 401	2 880	2 878
<i>Exports</i>										
Natural graphite	2 979	3 065	3 156	2 271	2 981	3 183	3 760	3 906	3 015	3 032
Artificial graphite	9 300	8 765	6 792	5 450	6 894	10 537	11 275	17 974	13 008	14 909
Graphite crucibles etc	11 699	10 900	11 342	6 412	6 548	21 255	22 612	25 447	17 751	17 750

Gypsum

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Gypsum										
<i>Production</i>										
Gypsum, natural (a)	1 700 000	1 700 000	1 700 000	1 700 000	1 700 000					
<i>Imports</i>										
Gypsum-										
Gypsum	369 714	196 613	140 783	396 138	216 605	8 415	8 511	8 522	8 104	6 957
Calcined gypsum (plasters)	92 069	52 678	88 766	60 337	54 209	10 976	10 674	12 433	13 540	12 728
<i>Exports</i>										
Gypsum-										
Gypsum	2 679	1 248	1 493	1 978	3 330	559	584	955	777	1 128
Calcined gypsum (plasters)	63 533	57 988	48 340	32 551	24 552	13 680	13 668	13 647	12 067	7 953

(a) BGS Estimates.

UK production of desulphogypsum 2001-2011

	Thousand tonnes										
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Drax	506	485	699	653	565	610	645	744	...	...	...
Ratcliffe-on-Soar	291	358	384	350	235	204	254	338	263	266	248
West Burton	—	—	—	274	335	289	255	217	164	144	164
Eggborough	—	—	—	—	31	46	36	66	...	40	44
Cottam	—	—	—	—	19	196	257	225	164	210	208
Total	797	843	1 083	1 228	1 185	1 303	1 447	1 590	...	...	...

Hafnium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Hafnium										
<i>Imports</i>	14	16	41	7	12	919	708	1 832	1 426	3 000
<i>Exports</i>	8	1	1	18	15	336	56	254	1 342	1 036

Igneous rock

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Igneous rock – see also Building and dimension stone										
<i>Production</i> (a)	53 954 000	58 909 000	53 490 000	44 618 000	44 876 000					
<i>Imports</i>										
Granite-										
Worked	114 802	114 967	115 495	94 003	95 792	66 403	74 519	80 043	66 539	69 242
Unworked	491 438	442 911	1 058 054	361 043	270 991	33 622	43 987	54 092	40 792	39 615
<i>Exports</i>										
Granite-										
Worked	517	429	786	1 904	1 449	1 233	627	1 391	2 069	2 031
Unworked	2 394	7 634	8 629	5 722	36 657	983	2 125	1 741	1 215	3 211

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

England production of igneous rock by end-use 1998–2010

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
1998	26	2 505	3 384	2 935	...	944	...	...	5 926	...	...	...	17 228
1999	37	2 568	3 919	...	...	...	1 724	...	7 538	...	...	...	20 803
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

Source: Office for National Statistics.

Wales production of igneous rock by end-use 1998–2010

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
1998	4	...	339	578	...	...	203	...	364	...	...	...	2 110
1999	6	...	355	...	...	...	164	...	556	...	...	—	2 730
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

Source: Office for National Statistics.

Scotland production of igneous rock by end-use 1998–2010

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
1998	107	...	934	6 587	...	...	...	...	8 140	...	...	2	20 500
1999	141	...	804	8 367	...	740	2 110	...	7 702	...	...	...	21 761
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

Source: Office for National Statistics.

Insulating materials

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Insulating materials										
<i>Imports</i>										
Mineral wools (a)	44 986	36 100	24 135	25 128	24 427	34 486	34 748	32 142	34 156	33 505
Expanded minerals (b)	98 909	170 284	111 091	30 732	47 121	9 123	9 663	8 663	5 523	7 137
Other (c)	42 734	45 972	43 244	32 068	37 361	40 520	38 309	38 139	32 841	40 172
<i>Exports</i>										
Mineral wools (a)	29 911	33 825	24 700	29 984	35 500	51 274	58 525	39 471	35 600	52 257
Expanded minerals (b)	18 844	20 009	19 581	10 973	14 174	17 693	18 668	22 236	14 126	17 959
Other (c)	65 952	57 570	58 762	42 351	56 989	66 845	61 163	70 153	57 472	74 706

(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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Iodine										
<i>Imports</i>										
	1 020	1 225	1 107	1 075	1 254	10 728	11 828	10 923	13 753	16 854
<i>Exports</i>										
	315	369	175	121	393	3 891	4 557	1 826	2 153	2 922

Iron compounds and earth colours

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Iron compounds and earth colours										
<i>Imports</i>										
Earth colours containing 70% or more ferric oxide	122	136	74	213	210	34	48	25	217	147
Other iron compounds- Oxides and hydroxides	37 755	37 993	36 145	21 412	21 516	23 389	22 333	25 271	18 624	21 396
<i>Exports</i>										
Earth colours containing 70% or more ferric oxide	20	79	450	543	68	34	150	646	598	100
Other iron compounds- Oxides and hydroxides	7 894	7 265	7 784	4 313	5 070	9 193	8 593	11 318	7 723	7 582

Iron ore

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Iron ore										
<i>Production</i>										
Iron ore (a)	341	(b) 300	145	—	—					
Fe content (b)	190	170	80	—	—					
<i>Consumption</i>										
Home-produced (b)	340	300	140	—	—					
Imported	16 538 800	16 607 000	15 338 400	11 171 300	10 572 200					
<i>Imports</i>										
Iron ore	16 370 705	17 435 472	15 282 786	9 185 919	10 597 085	539 498	644 177	938 415	468 519	912 896
Fe content (b)	9 000 000	10 600 000	9 300 000	5 600 000	6 400 000					
<i>Exports</i>										
Iron ore	5 229	5 396	7 731	32 579	5 228	1 256	1 734	953	3 014	634

(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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Iron and steel										
<i>Production</i>										
Pig iron	10 695 700	10 959 800	10 136 800	7 671 100	7 233 000					
<i>Crude steel-</i>										
Alloy qualities	760 000	778 600	824 900	393 500	506 600					
Other	13 828 600	13 613 700	12 695 600	9 681 000	9 201 400					
Total	13 904 600	14 392 300	13 520 500	10 074 500	9 708 000					
<i>Consumption</i>										
Pig iron (a)	10 444 000	10 729 000	9 931 000	7 540 000	7 088 000					
Finished steel (b)	12 813 000	12 832 000	11 808 000	7 030 000	8 830 000					
Scrap	4 811 000	5 144 000	4 888 000	3 459 400	3 713 100					
<i>Imports</i>										
Pig iron	81 689	89 863	61 657	19 703	41 959	15 201	17 957	21 724	5 758	13 167
Shot, powder, sponge etc	34 768	25 772	27 003	17 483	97 745	28 676	27 009	26 470	15 722	31 682
Ferro-alloys	288 116	298 803	314 921	160 285	208 817	194 384	271 513	430 007	154 472	246 459
<i>Iron and steel-</i>										
Ingots and other primary forms	1 053 176	849 803	679 019	212 829	714 541	362 218	352 643	409 887	176 318	393 571
Scrap	154 967	204 100	228 294	213 818	270 986	84 007	159 432	133 546	80 685	160 388
<i>Exports</i>										
Pig iron	5 407	15 892	2 523	27 765	4 339	1 114	4 353	2 308	5 254	3 351
Shot, powder, sponge etc	44 736	45 051	43 775	37 314	41 899	38 375	39 693	43 529	31 752	43 965
Ferro-alloys	41 879	41 841	40 986	28 899	45 314	389 373	361 635	365 568	125 266	240 287
<i>Iron and steel-</i>										
Ingots and other primary forms	2 692 654	3 514 850	3 348 794	2 118 701	1 137 160	1 012 574	1 450 504	1 619 056	936 583	818 397
Scrap	7 407 174	6 013 907	6 616 708	6 007 656	7 507 853	1 191 273	1 335 853	1 868 340	1 184 693	1 944 946

(a) Consumption in steel making only.

(b) Net home disposals.

Consumption in the United Kingdom iron and steel industry 2001–2010

Thousand tonnes

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Iron ore –										
Home produced (a)	1	0	1	1	0	0	0	0	0	0
Imported (b)	15 108	13 181	15 766	16 011	15 990	16 539	16 607	15 338	11 171	10 572
Manganese ore	4	4	0	6	3	6	3	4	21	0
Iron and steel scrap (f)	4 864	4 138	4 390	5 123	4 531	4 811	5 144	4 888	3 459	3 713
Pig iron (f)	9 713	8 312	9 955	10 010	9 983	10 444	10 729	9 931	7 540	7 088
Alloy metals (c) –										
Nickel	14	15	16	17	14	13	12	12	8	10
Molybdenum	2	2	2	2	2	2	2	3	1	1
Tungsten	0	0	0	0	0	0	0	0	0	0
Vanadium	1	1	0	0	0	0	0	0	0	0
Cobalt	0	0	0	0	0	0	0	0	0	0
Chromium	47	46	53	54	52	55	61	69	24	34
Niobium	0	0	0	0	0	0	0	1	0	0
Ferro-alloys –										
Ferro-manganese	91	77	94	95	92	97	100	94	70	67
Ferro-silico-manganese	24	21	23	23	22	24	24	23	17	16
Ferro-aluminium	3	3	3	3	3	3	3	3	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	36	35	37	37	36	38	39	37	27	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)	261	223	254	262	243	445	474	420	369	399
Limestone (e)	1 889	1 684	2 019	2 068	1 951	2 028	1 822	1 664	1 095	948
Lime (e)	561	501	530	584	593	631	585	496	378	371
Zinc for galvanising	64	66	62	53	57	60	58	52	41	49
Tin for tinplating	3	3	2	3	3	2	3	3	2	3

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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Lead										
<i>Production</i>										
Concentrate-										
Pb content (a)	(b) 400	(b) 300	(b) 300	243	251					
Unwrought-										
Bullion	36 000	36 000	36 000	36 000	36 000					
Refined										
Primary (c)	174 703	119 000	139 000	157 865	153 453					
Secondary	144 000	144 000	144 000	144 000	144 000					
<i>Consumption</i>										
Refined	300 000	244 800	222 123	188 726	207 618					
<i>Imports</i>										
Ores & concentrates	78	72	116	24	23	94	91	169	30	42
Ash and residues	447	443	423	133	186	148	670	200	90	153
Scrap	5 914	17 685	4 621	4 962	8 858	4 098	15 842	5 287	4 695	9 957
Unwrought										
Unrefined-										
Base bullion (d)	120 871	119 726	194 113	130 312	151 653	130 338	191 196	252 593	194 998	297 843
Other	2 745	3 160	1 190	1 300	0	2 224	3 446	1 698	1 180	41
Refined	50 504	28 020	18 379	14 179	14 359	32 754	33 596	22 523	14 569	18 682
Alloys	644	7	19 924	1 798	787	517	35	24 743	2 741	1 681
<i>Exports</i>										
Ores & concentrates	202	19	177	67	11	147	91	277	98	37
Ash and residues	484	704	535	515	982	113	300	536	327	560
Scrap	1 859	31 942	47 660	56 055	69 404	1 364	31 087	44 505	48 579	74 457
Unwrought										
Unrefined										
Base bullion	73	...	...	0	21	72	...	...	3	40
Other	3 074	1 257	1 725	45	1 226	596	825	1 854	38	1 635
Refined	86 124	66 895	77 795	126 697	103 988	66 656	92 463	96 383	144 935	152 672
Alloys	48 589	39 246	57 466	54 505	62 406	37 477	56 008	79 823	70 000	97 889

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

(b) BGS estimate.

(c) Refined from imported bullion including lead content of alloys.

(d) Containing substantial quantities of silver.

Limestone, dolomite and chalk

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Limestone										
<i>Production</i>										
Limestone	80 228 000	83 491 000	74 145 000	60 111 000	56 985 000					
Dolomite	12 101 000	7 622 000	5 509 000	3 164 000	4 540 000					
<i>Imports</i>										
Limestone flux (a)	22 067	32 446	38 404	24 368	14 954	1 615	1 679	1 699	1 764	1 758
Lime	20 681	23 946	11 452	9 091	9 883	2 388	2 747	1 887	1 235	1 627
Dolomite	111 177	146 587	146 620	149 802	149 695	3 135	3 721	4 954	4 612	4 961
<i>Exports</i>										
Limestone flux (a)	307 136	348 347	261 462	226 165	225 551	5 744	4 894	3 168	2 763	3 161
Lime	101 138	103 928	115 728	95 357	106 075	11 740	12 831	13 946	13 382	13 442
Dolomite (b)	47 360	4 642	4 786	3 438	2 675	2 230	252	249	245	227
Chalk										
<i>Production (c)</i>										
	7 376 000	7 566 000	5 874 000	4 047 000	3 626 000					
<i>Imports</i>										
	4 249	5 689	5 447	3 878	9 341	315	450	716	627	1 074
<i>Exports</i>										
	36 918	34 594	126 594	30 890	22 504	1 670	2 082	4 510	1 870	1 542

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

(b) Crude.

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

Great Britain production of limestone and chalk for cement, 1998–2010

Thousand tonnes

Year	Limestone	Chalk	Total
1998	(a) 10 465	(a) 6 736	17 201
1999	(a) 9 831	(a) 6 345	16 176
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

(a) BGS estimate.

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for agricultural uses, 1998–2010

Thousand tonnes

Year	Limestone	Dolomite	Chalk	Total	Calcination (a)
1998	(b) 1 009	...	...	2 343	10
1999	...	...	...	1 961	8
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	...

(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, 1998–2010

Thousand tonnes

Year	Limestone	Dolomite	Chalk	Total	Calcination
1998	(c) 7 705	...	...	11 345	(a) 5 694
1999	...	...	...	10 282	(a) 5 258
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

(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.

(c) BGS estimate.

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, 1998–2010

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)
1998	...	2 047	375	...	...	459	...	11 345
1999	...	1 689	203	...	...	460	...	10 282
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

(a) Including material for calcination.

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for calcination by end-use, 1998–2010

Thousand tonnes

Year	Agriculture	Iron and Steel	Chemicals	Building materials	Others	Total
1998	10	3 035	2 047	459	153	5 704
1999	8	2 970	1 689	460	139	5 266
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

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for iron and steel making, 1998–2010

Thousand tonnes

Year	Limestone	Dolomite and chalk	Total	Calcination (a)
1998	3 346	...	...	3 035
1999	3 239	...	...	2 970
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	...

(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 1998–2010

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																
1998	...	4 441	4 425	21 124	...	12	12 094	...	21 989	...	765	...	...	...	...	...	255	...	...	2 775	79 780
1999	245	4 226	3 528	19 265	...	...	11 610	...	22 616	...	685	...	...	...	...	...	...	...	...	...	75 820
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

(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 1998–2010

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																
1998	37	1 107	341	2 849	...	(e) 110	3 607	...	6 653	...	119	...	...	...	...	...	—	...	...	—	17 136
1999	52	...	275	3 136	...	...	3 688	...	6 502	...	110	...	...	...	...	...	—	...	...	...	17 220
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

(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 1998–2010

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																
1998	...	38	—	53	...	—	10	...	123	...	(d) 125	—	...	...	...	...	—	...	...	—	1 535
1999	(e) 4	...	—	80	...	—	11	...	144	...	...	—	...	...	...	...	—	...	...	—	1 507
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	...	111	12	113	—	1 216	—	—	—	—	...	...	—	1 746
2006	...	44	...	77	...	—	...	...	128	...	...	—	1 042	—	—	—	—	...	...	—	1 534
2007	...	...	...	85	...	—	...	...	...	...	...	—	...	—	—	—	—	...	...	—	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

(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, 1975–2010

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
1975	300	90	8	1 735	280	65	1 205	8
1976	517	150	0	1 777	334	7	1 288	36
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	—

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 on p.54 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 by end-use 1998–2010

Thousand tonnes

Year	Building stone	Constructional use (a)	Agricultural use (b)	Other uses (b)	Total
1998	10	13 070	...	...	15 632
1999	14	11 833	...	...	13 698
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

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

Source: Office for National Statistics.

(b) Including material for calcination.

England (d) production of dolomite by end-use 1998–2010

Thousand tonnes

Year	Building stone	Constructional use (a)	Agricultural use (b)	Other uses (b)	Total
1998	...	11 289	...	...	13 723
1999	...	9 681	...	...	11 485
2000	15	9 509	...	...	11 120
2001	...	...	426	...	...
2002	9	...	543	...	...
2003	7	...	676	...	10 327
2004	8	...	...	...	...
2005	...	8 177	568	...	...
2006	...	8 434	...	...	10 238
2007	...	...	601	...	...
2008	2	...	539	...	...
2009	...	...	408	...	...
2010	...	...	...	...	...

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

(d) Small amounts of dolomite are also produced in Wales and very minor amounts in Scotland.

(b) Including material for calcination.

(c) BGS estimate.

Source: Office for National Statistics.

England production of chalk by end-use 1998–2010

Thousand tonnes

Year	Cement	Constructional use	Agricultural use	Industrial uses	Total
1998	(a) 6 736	768	...	397	9 934
1999	(a) 6 345	1 021	...	...	9 667
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

(a) BGS estimate.

Source: Office for National Statistics.

Lithium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Lithium										
<i>Imports</i>										
Oxide and hydroxide	385	614	466	914	218	1 364	2 212	1 764	3 743	1 138
Carbonate	650	779	536	622	427	1 525	2 150	1 804	2 477	1 546
<i>Exports</i>										
Oxide and hydroxide	94	92	232	569	144	288	389	494	2 268	667
Carbonate	271	158	216	193	123	723	572	377	671	315

Magnesia

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Magnesia										
<i>Imports</i>										
Dolomite	111 177	146 587	146 620	149 802	149 695	3 135	3 721	4 954	4 612	4 961
Magnesite	10 644	10 194	7 016	3 567	8 640	1 076	969	906	556	1 438
Magnesia-										
Dead burned	5 366	22 256	14 239	8 178	5 716	2 145	4 453	4 028	3 378	3 216
Caustic-calcined	44 641	35 650	40 402	32 537	37 527	6 937	5 335	7 824	8 136	10 992
Other	14 890	7 276	4 659	3 158	5 833	4 824	3 805	4 186	3 628	5 624
Kieserite	150 248	230 504	14 047	11 610	18 284	2 421	2 841	2 506	2 437	3 960
Magnesite or chrome-magnesite										
refractory bricks and shapes (a)(b)	27 792	30 884	29 876	18 981	25 057	18 171	18 886	19 800	13 369	16 516
<i>Exports</i>										
Dolomite (c)	47 360	4 642	4 786	3 438	2 675	2 230	252	249	245	227
Magnesite	26	51	316	518	470	48	129	169	583	464
Magnesia-										
Dead burned	1 612	2 022	1 287	902	1 729	896	952	713	612	869
Caustic-calcined	3 160	2 632	1 778	1 703	4 927	2 771	2 185	1 064	1 543	3 642
Other	14 264	11 717	10 582	7 057	7 841	12 074	10 262	10 411	7 763	8 545
magnesite or chrome-magnesite										
refractory bricks and shapes (a)(b)	3 619	2 409	1 364	651	459	3 826	2 189	2 091	1 156	792

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

(b) Including dolomite bricks.

(c) Crude.

Magnesium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Magnesium										
<i>Imports</i>										
Ferro-silico-magnesium	3 810	2 303	1 614	512	931	1 738	1 168	1 744	536	1 006
Scrap	1 982	2 721	1 685	748	875	780	789	816	380	819
Unwrought	6 408	5 201	3 813	1 763	3 171	6 325	6 229	8 700	3 740	6 231
Unwrought alloys	7 197	3 904	3 618	2 386	4 252	7 376	4 557	8 351	6 222	9 054
Wrought	3 077	3 602	4 750	3 576	6 631	7 600	8 208	16 710	13 762	22 348
<i>Exports</i>										
Ferro-silico-magnesium	653	917	976	458	366	441	807	1 231	709	457
Scrap	1 772	2 398	2 222	1 937	3 143	1 413	2 938	4 439	3 665	6 179
Unwrought	209	8	38	13	209	275	82	220	242	564
Unwrought alloys	4 872	4 911	4 062	2 470	1 872	12 601	11 559	14 155	13 412	11 007
Wrought	605	1 533	1 333	674	626	3 084	5 448	5 856	5 109	4 301

Manganese

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Manganese										
<i>Consumption in Iron and Steel</i>										
<i>Industry</i>										
Ore	6 000	3 300	4 100	20 500	—					
Ferro-manganese	96 770	100 100	93 990	69 770	67 560					
Ferro-silico-manganese	23 620	24 430	22 940	17 030	16 490					
Apparent consumption (a)	116 000	125 000	120 000	68 000	72 000					
<i>Imports</i>										
Ores & Concentrates (b)	8 458	1 569	4 133	941	1 517	431	433	1 045	613	678
Ferro-manganese	86 598	100 694	96 461	49 700	46 985	37 430	57 728	130 012	45 265	47 612
Ferro-silico-manganese	59 985	56 036	52 966	37 114	49 280	23 440	29 887	59 497	24 468	42 091
Scrap	1	60	751	83	155	1	99	1 528	172	285
Unwrought	8 169	6 728	7 895	3 295	4 499	6 752	9 303	15 160	4 488	7 178
Wrought	394	232	126	746	1 965	542	599	535	1 380	3 664
Oxides	7 216	9 646	7 913	5 438	9 344	1 813	1 979	3 348	3 009	4 433
<i>Exports</i>										
Ores & Concentrates	200	114	244	65	97	192	88	207	90	62
Ferro-manganese	946	1 136	1 210	963	8 361	949	1 359	1 293	933	8 522
Ferro-silico-manganese	60	7	49	65	52	90	11	27	59	55
Scrap	0	...	314	126	23	1	...	103	37	7
Oxides	6 284	3 785	4 571	1 768	4 173	1 529	1 026	1 597	1 289	1 714
Metal (c)	2 000	2 100	3 200	2 200	2 000	2 500	3 600	6 400	4 600	4 100

(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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Marble										
<i>Imports</i>										
Dimension stone-										
Unworked	32 609	37 404	37 444	26 787	21 339	17 463	20 144	21 150	16 466	15 556
Worked	100 555	111 039	114 870	100 648	92 078	65 977	63 620	74 273	70 696	59 417
Crushed and powdered	245 601	248 711	233 499	177 802	190 740	10 242	11 217	12 482	8 586	10 558
<i>Exports</i>										
Dimension stone-										
Unworked	1 549	2 227	1 019	728	822	184	553	264	493	1 221
Worked	4 068	4 740	2 934	1 603	1 332	6 441	7 319	5 292	3 294	3 310
Crushed and powdered	1 176	3 229	2 637	1 723	830	213	641	484	317	271

Mercury

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Mercury										
<i>Imports</i>										
Elemental	2	3	2	1	22	107	91	57	29	71
Oxide	...	...	...	...	...	...	...	...	...	...
<i>Exports</i>										
Elemental	79	4	6	179	9	491	59	102	741	194
Oxide	1	...	...	...	...	10	...	...	...	...

Mica

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Mica										
<i>Imports</i>										
Crude (a)	251	289	377	328	43	108	92	129	139	20
Ground	5 856	6 705	7 061	6 396	7 341	1 824	1 831	2 308	1 862	2 225
Waste	3 474	3 433	2 030	49	902	404	476	336	4	245
Worked	726	919	1 310	604	654	4 861	4 277	5 357	5 023	4 317
<i>Exports</i>										
Crude (a)	0	2	14	4	12	1	2	28	2	5
Ground	4 593	3 818	4 735	3 928	4 125	4 694	2 835	3 612	3 741	3 679
Waste	...	0	...	12	...	...	6	...	11	...
Worked	412	629	690	650	706	4 844	6 065	8 310	6 395	7 595

(a) Including sheets or splitting.

Molybdenum

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Molybdenum										
<i>Consumption in Iron and Steel Industry (a)</i>										
	2 140	2 390	2 700	940	1 330					
<i>Apparent consumption (a) (b)</i>	7 900	5 400	4 000	1 400	2 100					
<i>Imports</i>										
Roasted molybdenite concentrates	16 591	15 215	13 075	8 486	12 359	214 773	271 386	312 431	91 550	156 244
Other ores and concentrates	2 441	3 165	2 055	521	222	44 661	47 323	45 898	6 401	2 601
Ferro-molybdenum	640	515	369	325	322	15 250	13 635	9 489	4 028	5 292
Scrap	899	751	846	469	815	23 074	16 698	22 499	6 494	14 078
Powders	436	58	69	153	147	923	1 436	3 060	2 714	3 127
Unwrought	145	192	102	50	69	4 978	5 788	3 855	1 216	1 821
Wrought	1 965	389	69	34	68	7 393	7 978	4 158	1 424	2 969
Oxides and hydroxides	635	513	1 433	510	1 638	21 064	19 655	32 752	4 450	21 771
<i>Exports</i>										
Roasted molybdenite concentrates	100	6	3	3	288	427	122	72	30	3 559
Other ores and concentrates	66	72	61	32	17	700	720	1 145	130	80
Ferro-molybdenum	12 004	11 823	11 283	7 634	11 248	262 368	263 672	284 904	87 193	168 557
Scrap	259	207	217	356	490	5 638	3 971	5 848	4 490	7 061
Powders	17	14	—	53	31	359	55	34	745	1 000
Unwrought	1	2	2	3	13	38	121	54	61	308
Wrought	318	13	22	21	37	8 202	1 833	2 197	1 476	1 879
Oxides and hydroxides	...	2	8	0	5	3	5	109	10	59

(a) Metal content.

(b) BGS estimates; see explanatory notes.

Nepheline syenite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Nepheline syenite										
<i>Imports</i>	81 960	40 484	44 275	32 462	39 092	4 201	3 617	4 355	3 516	4 038
<i>Exports</i>	557	2 430	902	204	291	271	635	520	62	83

Nickel

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Nickel										
<i>Production (a)</i>	36 750	34 050	40 800	17 800	28 900					
<i>Consumption</i>										
Iron and steel industry (b)	13 370	12 450	12 140	7 980	9 540					
Other (b)(c)	19 000	20 000	20 000	24 000	23 000					
Total (b)(d)	32 400	32 400	32 400	32 400	32 400					
<i>Imports</i>										
Mattes, sinters etc.	56 336	62 637	63 553	25 929	50 263	369 361	735 537	3 550	177 459	509 294
Ash and residues	50	0	0	...	...	8	13	6	...	...
Scrap	7 975	10 376	10 291	9 593	8 154	37 625	55 794	53 910	32 297	43 239
Ferro-nickel	13 169	14 960	16 520	2 777	6 284	34 683	70 052	44 805	6 221	22 518
Unwrought	17 414	21 044	16 888	8 003	14 200	237 631	412 993	182 155	75 146	199 286
Unwrought alloys	2 883	2 947	3 210	3 596	3 310	27 115	37 999	38 922	39 009	41 797
Oxides	59	49	13	1	6	534	773	158	31	142
<i>Exports</i>										
Mattes, sinters etc.	517	40	26	107	389	3 612	575	902	617	1 283
Ash and residues	4 331	15 623	13 588	6 450	8 995	25 412	107 080	74 891	24 272	80 198
Scrap	15 555	16 872	18 229	12 693	19 361	50 350	70 146	74 878	39 925	66 581
Ferro-nickel	329	52	81	18	15	1 471	1 378	1 779	350	327
Unwrought	31 610	24 147	26 235	15 834	18 639	314 738	458 448	324 550	142 166	258 660
Unwrought alloys	6 486	4 375	4 378	4 753	4 530	75 063	80 199	72 035	68 164	75 753
Oxides	7	8	19	8	2	101	85	316	157	87

(a) Nickel content of refinery products.

(b) Metal content.

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

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

Niobium (see Tantalum and Niobium)

Peat

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Peat										
<i>Production</i>	1 593	885	760	887	1 004					
<i>Imports</i>										
Peat and agglomerated peat	433 419	508 843	430 590	448 001	622 917	22 332	24 861	26 555	25 285	33 268
<i>Exports</i>										
Peat and agglomerated peat	20 736	33 514	41 645	42 965	51 867	3 544	4 249	4 859	7 546	6 647

Perlite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Perlite										
<i>Imports</i>	101 910	150 255	45 064	36 315	58 456	3 357	3 200	3 304	2 675	5 357
<i>Exports</i>	885	947	702	414	1 059	201	218	74	90	822

Petroleum (also see Primary fuels)

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Petroleum										
<i>Production</i>										
Crude petroleum	69 665 000	70 357 000	66 745 000	64 001 000	58 988 000					
Condensates and other (a)	6 913 000	6 475 000	6 168 000	5 378 000	4 915 000					
Refined petroleum products	82 839 000	81 278 000	81 278 000	74 893 000	72 871 000					
<i>Consumption (inland deliveries) of refined products</i>										
<i>Used as fuels-</i>										
Refineries	4 878 000	4 681 000	4 751 000	4 849 000	4 967 000					
Power generation	1 527 000	1 390 000	1 982 000	1 783 000	1 343 000					
Elsewhere	63 653 000	63 392 000	61 406 000	57 964 000	57 853 000					
<i>Not used as fuels</i>	9 756 000	7 967 000	7 883 000	7 365 000	7 527 000					
Total	79 812 000	77 428 000	76 119 000	71 962 000	71 691 000					
<i>Imports</i>										
Crude petroleum	55 735 570	44 129 689	52 103 843	50 656 965	50 447 008	14 579 475	11 671 463	20 537 880	14 519 898	19 489 775
Partly refined petroleum and refined products	32 427 307	40 845 976	26 175 761	26 122 966	26 913 407	9 536 164	12 173 132	12 769 749	9 287 712	11 996 861
<i>Exports</i>										
Crude petroleum	47 864 601	47 058 702	43 354 245	43 550 953	41 591 305	12 929 441	12 663 222	16 674 142	12 536 388	15 840 899
Partly refined petroleum and refined products	31 621 552	29 396 482	31 936 044	32 271 444	31 346 754	8 801 422	8 515 217	13 373 616	10 482 121	13 746 412

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

Oil and gas field tables

United Kingdom production of onshore and offshore crude petroleum and natural gas by fields are produced by the Department of Energy and Climate Change. To avoid duplication, these tables will no longer be reproduced in this publication. To view this data please visit <https://www.og.decc.gov.uk/information/statistics.htm>

Natural gas

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Natural gas										
<i>Production</i>										
Methane										
Colliery (a)	65 000	62 000	63 000	67 000	65 000					
Offshore and onshore (a)	79 947 000	72 063 000	69 617 000	59 670 000	57 121 000					
<i>Consumption (b)</i>	89 375 000	90 169 000	93 037 000	85 995 000	93 208 000					
<i>Imports</i>										
Liquefied natural gas (c)	3 230 972	1 281 434	766 298	9 508 135	17 522 810					
Natural gas in gaseous state (c)	16 911 100	26 555 263	33 229 849	29 055 363	32 458 908					
Total (c)	20 142 072	27 836 698	33 996 147	38 563 499	49 981 718	2 510 000	2 885 000	6 425 000	4 775 000	6 650 000
Other natural gas (d)	3 262 978	1 198 737	1 046 202	533 498	568 388	810 593	379 858	465 986	164 980	255 576
<i>Exports</i>										
Liquefied natural gas and natural gas in gaseous state (c)	9 528 256	9 361 445	9 543 217	11 160 939	14 461 473	1 315 000	995 000	1 945 000	1 420 000	1 990 000
Other natural gas (d)	2 508 137	2 402 752	3 295 288	2 798 642	2 584 168	751 469	758 232	1 318 884	865 965	1 181 234

- (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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Phosphorus										
<i>Consumption in Iron and Steel Industry</i>										
Ferro-phosphorus	1 200	1 240	1 160	860	840					
<i>Imports</i>										
Phosphate rock	7 803	23 052	28 971	5 600	9 873	766	1 486	3 604	865	1 020
Amonium phosphates	129 771	208 736	105 024	102 567	109 084	19 703	42 766	48 306	27 488	36 326
Superphosphates	141 417	172 560	126 083	126 402	219 783	15 974	31 497	53 975	21 044	51 763
Basic slag	6 289	...	...	...	...	262	...	...	...	...
Other phosphatic fertilisers	9 409	26 718	24 870	4 986	11 266	1 172	2 746	5 319	443	1 395
Elemental phosphorus	—	...	0	108	152	—	...	36	734	324
Phosphoric acids	170 353	149 686	110 067	77 210	90 655	41 196	38 229	64 480	51 989	45 147
Calcium phosphates	120 402	113 632	79 069	81 205	68 902	22 607	22 397	32 904	26 146	22 009
Sodium phosphates and orthophosphates	52 735	74 532	16 482	14 249	11 258	24 188	24 585	17 662	14 639	10 362
Polyphosphates including ammonium and sodium	25 236	51 155	29 107	27 030	28 450	11 337	13 348	25 957	21 591	21 318
<i>Exports</i>										
Phosphate rock	335	504	759	514	615	254	313	622	353	634
Amonium phosphates	269	276	31 217	179	170	349	263	20 978	392	363
Superphosphates	1 470	12	...	236	235	301	21	23	104	68
Basic slag	0	...	...	...	...	1	...	...	...	...
Other phosphatic fertilisers	476	44	...	17	42	103	41	...	27	40
Elemental phosphorus	24	2	100	0	16	21	25	132	12	55
Phosphoric acids	10 760	7 124	4 020	3 554	3 251	5 629	4 653	4 991	3 851	2 605
Calcium phosphates	23 267	23 698	5 704	3 506	2 459	13 226	14 980	4 466	3 017	1 981
Sodium phosphates and orthophosphates	4 724	3 382	2 443	1 326	1 389	2 775	2 420	2 950	2 021	2 147
Polyphosphates including ammonium and sodium	23 587	21 691	15 790	11 765	8 666	15 049	13 463	18 665	15 541	9 716

Platinum group metals

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Platinum group metals										
<i>Imports</i>										
Unwrought or partly worked-										
Platinum	23	26	30	30	59	332 670	389 203	432 806	568 901	1 866 543
Palladium	37	42	33	37	73	178 290	199 298	135 692	214 272	728 069
Other platinum metals	9	7	5	7	9	204 830	303 995	252 822	114 883	219 027
Waste & scrap	1 149	1 456	1 417	1 100	820	224 707	261 626	696 282	435 759	475 114
<i>Exports</i>										
Unwrought or partly worked-										
Platinum	43	53	41	43	24	734 052	895 179	1 069 051	954 655	787 176
Palladium	49	57	47	53	43	261 717	329 468	329 534	284 178	455 590
Other platinum metals	23	24	23	20	23	486 989	805 069	1 047 491	271 233	416 542
Waste & scrap	3 507	3 794	4 279	4 273	528	53 027	60 527	84 625	50 605	62 151

Potassium compounds

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Potassium compounds										
<i>Indigenous production</i>										
KCl product	716 000	712 000	673 000	(a) 700 000	(a) 700 000					
<i>Apparent consumption</i>										
Potassic fertilisers										
(K ₂ O content)	(b) 301 300	(b) 338 600	(b) 254 700	...	...			
<i>Imports</i>										
Crude natural salts	10 696	...	...	...	...	573	...	...	...	...
Sulphate	14 274	16 166	15 157	15 766	15 766	2 583	3 457	4 423	6 380	4 068
Chloride	170 942	202 623	165 331	80 842	270 096	19 835	25 097	...	33 207	71 094
Other potassic fertilisers	1 310	10 813	11 919	10 422	10 565	519	1 216	2 364	1 450	1 471
<i>Exports</i>										
Sulphate	39	163	93	443	71	16	20	42	311	75
Chloride (c)	497 700	220 600	244 300	205 600	339 000	91 000	36 891	204 382	80 287	102 142
Other potassic fertilisers	612	399	562	228	420	412	379	487	261	513

(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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Precious and semi-precious stones										
(excluding diamond) (a)										
<i>Imports</i>										
Natural stones	326	235	97	124	416	73 492	110 025	105 565	94 979	126 780
Synthetic stones	18	48	69	66	84	5 686	5 103	5 184	4 048	4 638
Dust and powder	3	1	2	1	4	935	704	686	352	382
<i>Exports</i>										
Natural stones	2	31	3	5	11	61 510	71	100 384	80 485	106 276
Synthetic stones	1	5	5	1	24	844	1 403	3 381	10 250	6 182
Dust and powder	0	4	9	6	8	87	296	560	519	701

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

Primary fuels

United Kingdom production of primary fuels 1985–2010 (energy supplied basis)

Million tonnes of oil equivalent (a)

Year	Coal	Petroleum	Natural gas (b)	Nuclear electricity	Hydro-electricity (c)	Total (d)
1985	57	139	40	17	0	253
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

(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) 1985–2010 (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)
1985	65	72	52	17	0	—	206
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	49	75	69	21	1	1	218
1996	46	78	81	22	0	1	230
1997	41	76	84	23	0	1	227
1998	41	76	87	23	1	1	231
1999	37	76	91	22	1	1	230
2000	38	76	96	20	1	1	234
2001	41	75	95	21	0	1	236
2002	38	74	94	20	1	1	230
2003	41	74	95	20	0	0	232
2004	39	75	97	18	1	1	234
2005	40	78	94	18	1	1	236
2006	44	77	89	17	1	1	233
2007	41	76	90	14	1	0	228
2008	38	75	93	12	1	1	226
2009	32	71	86	15	1	0	212
2010	32	71	93	14	1	0	219

(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 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Pumice										
<i>Imports</i>	97 832	206 353	2 259	1 668	2 062	1 659	2 546	2 013	1 130	1 183
<i>Exports</i>	70	40	76	307	704	227	93	293	534	997

Pyrite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Pyrite										
<i>Imports</i>										
Iron pyrites (incl.cupreous)-										
Unroasted	19	105	704	104	2 581	7	24	153	38	1 333
Roasted	1 282	131 230	693	232	—	171	5 649	98	67	—
<i>Exports</i>										
Iron pyrites (incl.cupreous)-										
Unroasted	2	122	161	21	2	7	20	5	62	5
Roasted	6	95	90	0	28	5	43	15	10	15

Quartz and quartzite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Quartz and quartzite										
<i>Imports</i>										
Quartzite	306	2 512	353	318	92	512	377	324	213	137
Quartz	5 235	7 143	4 036	1 989	4 015	1 078	1 659	3 140	2 372	4 013
<i>Exports</i>										
Quartzite	170	45	99	25	34	296	225	102	14	20
Quartz	1 367	541	657	832	1 045	291	310	344	1 115	771

Radioactive and associated materials

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Radioactive and associated materials										
<i>Imports</i>										
Natural and enriched uranium, plutonium, artificial radioactive isotopes, and their compounds	...	...	...	...	...	1 176 048	1 708 433	1 130 734	1 330 313	1 258 131
<i>Exports</i>										
Natural and enriched uranium, plutonium, artificial radioactive isotopes, and their compounds	...	...	...	...	...	709 205	1 708 528	1 626 085	1 808 150	2 113 690

Rare earths

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Rare earths										
<i>Imports</i>										
Rare earth metas (a)	88	88	133	99	119	486	865	1 297	907	2 231
Cerium compounds	1 615	2 167	2 067	612	1 119	3 253	4 768	5 802	1 932	4 694
Other rare earth compounds (b)	600	664	251	103	322	2 768	4 152	3 461	3 648	3 999
Ferro-cerium & other pyrophoric alloys	60	77	57	148	150	4 012	81	109	210	173
<i>Exports</i>										
Rare earth metals (a)	29	143	237	54	46	453	610	798	503	1 158
Cerium compounds	111	37	73	105	182	1 596	545	1 257	1 692	2 349
Other rare earth compounds (b)	954	1 089	622	459	614	5 669	4 634	2 673	2 606	5 033
Ferro-cerium & other pyrophoric alloys	76	80	7	6	37	125	160	86	113	439

(a) Including yttrium and scandium.

(b) Including yttrium and scandium compounds.

Salt

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Salt										
<i>Production</i>										
	5 499 000	5 600 000	5 565 000	6 166 000	6 666 000					
<i>Imports</i>										
	246 879	237 772	237 288	410 434	1 288 253	17 673	18 097	21 973	30 365	64 295
<i>Exports</i>										
	557 311	514 868	873 708	449 303	450 246	29 091	28 112	33 995	31 509	35 354

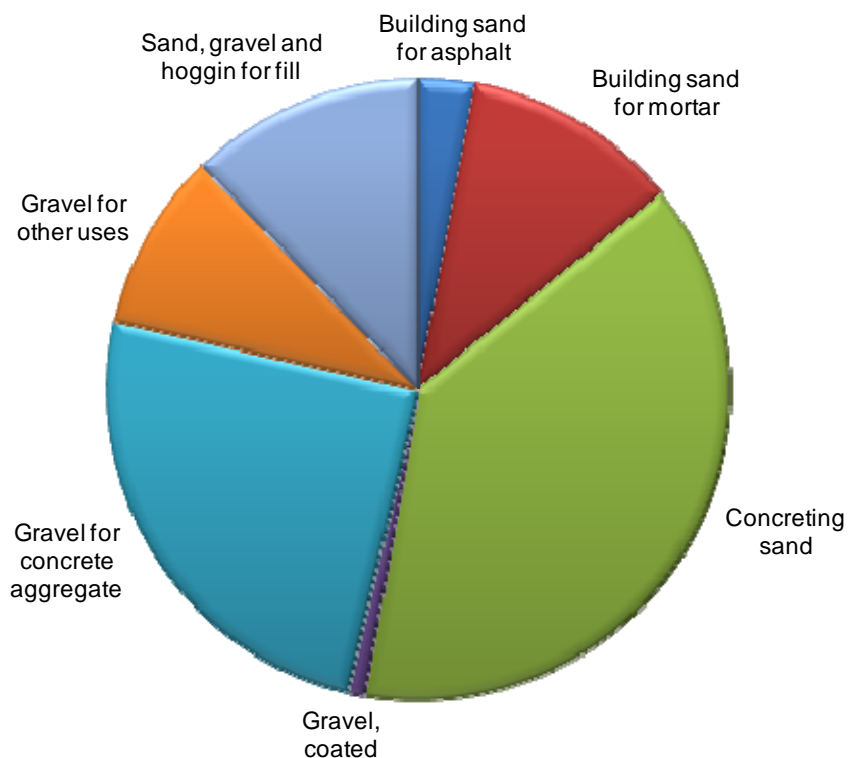
Sand and gravel (see also Aggregates)

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Sand and gravel										
<i>Production</i>										
Sand & gravel (a)	92 107 000	93 236 000	85 473 000	66 226 000	61 700 000					
<i>Consumption</i>										
Building sand (b)	12 105 000	12 207 000	10 595 000	7 941 000	7 710 000					
Concreting sand (b)	29 815 000	30 202 000	26 885 000	21 570 000	20 947 000					
Gravel and hoggin (b)	38 321 000	36 092 000	34 648 000	26 199 000	19 052 000					
Total (b)	80 242 000	78 501 000	72 127 000	55 709 000	54 330 000					
<i>Imports</i>										
	634 844	896 715	647 603	444 725	343 749	17 583	18 260	16 043	12 212	10 874
<i>Exports (c)</i>										
	9 308 961	8 089 175	7 747 635	6 236 662	6 081 730	45 498	46 624	50 027	48 688	44 819

- (a) Including production from marine dredging.
 (b) Great Britain: production for the home market including landings of marine dredged materials at British ports.
 (c) 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): 2006: 6 714 659; 2007: 6 649 041; 2008: 6 211 703; 2009: 5 660 522; 2010: 5 192 348.

Great Britain production of sand and gravel by end-use 2010 (total production 54.3 million tonnes)



United Kingdom production of sand and gravel 1981–2010

Million tonnes

Year	Land-based production			Marine-dredged			Total production United Kingdom	For beach replenishment (c) (d)
	Great Britain (a)	Northern Ireland (b)	Total	For home market (a)	For export (c)	Total		
1981	78.0	3.7	81.7	11.5	3.8	15.3	97.0	1.3
1982	79.3	3.7	83.0	11.9	2.9	14.8	97.8	2.1
1983	88.0	3.2	91.2	12.8	3.1	15.9	107.1	1.4
1984	87.1	3.5	90.6	12.6	2.8	15.4	106.0	1.2
1985	87.8	3.6	91.4	13.8	2.5	16.3	107.7	1.7
1986	90.2	4.2	94.4	15.3	2.3	17.6	112.0	2.2
1987	95.4	3.6	99.0	16.2	2.6	18.8	117.8	5.5
1988	110.5	3.9	114.4	19.6	2.4	22.0	136.4	3.9
1989	110.5	4.6	115.1	20.7	2.6	23.3	138.4	4.3
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

Sources:

(a) Office for National Statistics.

(b) Department of Enterprise, Trade & Investment.

(c) Crown Estate Commissioners.

(d) 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 2010

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	...	187	(a) 665	—	(a) ...	44	(a) ...	(a) 1 150
Yorkshire and the Humber	...	533	1 239	...	(a) 772	366	...	(a) 3 195
East Midlands	...	503	2 511	...	1 335	597	325	5 503
East of England	...	(a) 1 021	(a) 3 717	...	(a) 2 565	(a) 786	(a) 1 229	(a) 9 711
South East	(a) ...	(a) 1 179	(a) 4 435	...	(a) 4 923	(a) 682	(a) 1 749	(a) 13 145
South West	181	(a) 356	(a) 1 930	...	(a) 762	...	(a) 1 237	(a) 4 714
West Midlands	...	665	2 234	...	1 620	721	622	6 074
North West	111	(a) 486	(a) 1026	—	...	...	125	(a) 1841
England								
Land-won	...	...	...	...	...	...	...	36 723
Marine (b)	...	...	...	...	...	...	...	8 609
Total	(a) ...	(a) 4 929	(a) 17 758	...	(a) 12 169	(a) 3 439	(a) 5 558	(a) 45 332
Wales								
Land-won	...	...	...	—	...	...	...	901
Marine (b)	...	...	...	—	...	...	...	732
Total	(a) ...	(a) 505	(a) 658	—	(a) 244	(a) 128	(a) ...	(a) 1 633
Scotland								
Total	533	675	2 531	...	1 081	1 479	...	7 365
Great Britain								
Land-won	...	5 575	16 647	512	9 629	...	6 234	44 989
Marine (b)	...	535	4 300	—	3 865	...	387	9 341
Total	(a) 1 600	(a) 6 110	(a) 20 947	512	(a) 13 494	(a) 5 046	(a) 6 621	(a) 54 330

(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 1981–2010

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

(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 1998–2010

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						
1998								
Land-won	...	8 645	21 892	...	20 495	433	...	61 241
Marine (a)	...	274	3 861	...	7 375	3	...	11 694
Total	1 991	8 919	25 753	408	27 870	436	7 559	72 935
1999								
Land-won	...	...	22 936	...	20 421	...	7 591	62 954
Marine (a)	...	...	4 297	...	7 292	...	167	12 185
Total	1 847	9 372	27 234	150	27 713	1 065	7 758	75 139
2000								
Land-won	...	9 189	22 769	...	20 164	746	...	63 196
Marine (a)	...	345	4 206	...	8 272	—	...	13 076
Total	1 817	9 533	26 975	135	28 436	746	8 631	76 272
2001								
Land-won	...	...	...	...	...	...	...	62 177
Marine (a)	...	...	...	...	...	...	...	12 395
Total	1 605	9 317	27 658	189	26 731	3 994	5 077	74 572
2002								
Land-won	...	...	...	...	...	...	...	59 633
Marine (a)	...	...	...	...	...	...	...	11 687
Total	1 397	9 233	27 331	...	25 422	3 580	...	71 320
2003								
Land-won	...	...	...	...	...	...	...	58 484
Marine (a)	...	...	...	...	...	...	...	10 901
Total	...	9 810	27 452	...	24 110	2 927	3 718	69 385
2004								
Land-won	1 876	...	...	285	...	...	...	62 735
Marine (a)	—	...	...	—	...	...	...	11 747
Total	1 876	9 268	27 856	285	25 013	3 931	6 253	74 482
2005								
Land-won	1 303	...	...	261	...	4 970	...	58 926
Marine (a)	—	...	...	—	...	66	...	11 912
Total	1 303	9 514	25 882	261	23 382	5 036	5 459	70 838
2006								
Land-won	1 847	...	...	199	...	...	...	56 148
Marine (a)	—	...	...	—	...	...	...	12 887
Total	1 847	7 985	25 618	199	23 328	4 565	5 492	69 035
2007								
Land-won	...	...	...	226	...	...	...	54 512
Marine (a)	...	...	...	—	...	...	...	12 625
Total	1 864	8 128	25 891	226	21 247	4 493	5 288	67 137
2008								
Land-won	...	...	...	...	...	...	...	50 134
Marine (a)	...	...	...	...	...	...	...	11 535
Total	1 622	6 985	23 048	66	17 071	3 317	9 560	61 669
2009								
Land-won	...	...	...	542	...	...	...	37 810
Marine (a)	...	...	...	—	...	...	...	8 719
Total	1 020	5 085	18 382	542	13 111	3 908	4 481	46 529
2010								
Land-won	...	...	...	...	...	...	...	36 723
Marine (a)	...	...	...	—	...	...	...	8 609
Total	...	4 929	17 758	...	12 169	3 439	5 558	45 332

(a) Excluding marine-dredged landings at foreign ports (exports), see p.72.

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 1998–2010

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						
1998								
Land-won	...	270	712	—	370	—	...	1 701
Marine (a)	...	497	570	—	162	—	...	1 258
Total	45	768	1 282	—	532	—	333	2 959
1999								
Land-won	...	...	683	—	453	2	354	1 800
Marine (a)	...	...	543	—	175	—	3	1 240
Total	37	789	1 226	—	628	2	357	3 039
2000								
Land-won	...	331	502	—	404	...	386	1 658
Marine (a)	4	620	489	—	164	—	3	1 280
Total	...	951	991	—	568	...	389	2 939
2001								
Land-won	...	...	...	—	...	116	...	1 670
Marine (a)	...	...	...	—	...	—	...	1 216
Total	16	1 120	923	—	524	116	187	2 886
2002								
Land-won	...	...	...	—	...	...	...	1 613
Marine (a)	...	...	...	—	...	—	...	1 145
Total	...	862	1 140	—	487	134	...	2 758
2003								
Land-won	...	...	...	—	...	...	...	1 503
Marine (a)	...	...	...	—	...	—	...	1 230
Total	...	987	1 073	—	430	...	107	2 733
2004								
Land-won	...	...	...	—	...	142	...	1 871
Marine (a)	...	...	...	—	...	—	...	1 249
Total	16	688	1 364	—	526	142	384	3 120
2005								
Land-won	...	...	...	...	...	262	...	1 634
Marine (a)	...	...	...	...	...	—	...	1 112
Total	...	974	824	...	450	262	206	2 746
2006								
Land-won	...	...	...	...	...	206	...	1 528
Marine (a)	—	...	...	...	...	—	...	1 087
Total	...	954	978	...	280	206	179	2 615
2007								
Land-won	...	...	...	—	...	178	...	1 187
Marine (a)	—	...	...	—	...	—	...	1 152
Total	...	749	902	—	443	178	...	2 339
2008								
Land-won	...	...	...	—	...	...	...	1 275
Marine (a)	...	...	...	—	...	...	...	1 086
Total	49	660	1 032	—	382	95	143	2 361
2009								
Land-won	...	...	...	—	...	...	...	795
Marine (a)	...	...	...	—	...	...	...	873
Total	148	458	657	—	238	94	74	1 668
2010								
Land-won	...	...	...	—	...	...	...	901
Marine (a)	...	...	...	—	...	...	...	732
Total	...	505	658	—	244	128	...	1 633

(a) Excluding marine-dredged landings at foreign ports (exports), see p.72.

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 1998–2010

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						
1997	547	1 268	3 199	48	2 142	64	2 632	9 900
1998	447	1 153	3 210	79	1 968	198	3 020	10 074
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

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

Source: Office for National Statistics.

Sandstone

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010
	Tonnes				
Sandstone – see Building and dimension stone					
<i>Production</i>	18 038 000	16 806 000	12 255 000	12 335 000	11 556 000

England production of sandstone by end-use 1998–2010

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
1998	254	371	949	1 457	...	63	...	...	4 146	...	...	...	7 792
1999	420	333	1 090	...	...	68	548	...	3 502	...	...	...	7 241
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

Source: Office for National Statistics.

Wales production of sandstone by end-use 1998–2010

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
1998	16	...	667	795	...	...	109	...	...	...	...	...	3 214
1999	21	493	706	...	...	—	99	...	(a) 922	...	...	...	2 973
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

(a) BGS estimate.

Source: Office for National Statistics.

Scotland production of sandstone by end-use 1998–2010

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
1998	17	...	606	437	...	...	...	...	...	...	...	—	2 539
1999	14	229	290	460	...	(a) 70	126	...	(a) 466	...	...	2	1 657
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

(a) BGS estimate.

Source: Office for National Statistics.

Selenium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Selenium										
<i>Imports</i>										
Elemental	786	1 350	409	273	1 817	5 005	6 300	8 645	7 414	17 505
<i>Exports</i>										
Elemental	95	118	221	96	297	2 533	2 955	3 719	3 230	9 657

Sepiolite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Sepiolite										
<i>Imports</i>										
	72 340	282 733	227 453	70 651	106 108	10 922	22 553	43 004	13 367	38 049

Silica sand

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Silica sand										
<i>Production (a)</i>										
	5 174 000	4 909 000	4 777 000	3 755 000	4 070 000					
<i>Imports</i>										
	190 813	61 454	48 112	79 629	148 619	9 234	8 516	8 045	8 076	10 603
<i>Exports</i>										
	388 440	222 581	156 451	115 746	100 773	6 402	6 393	4 614	4 794	4 325

(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 2010

Thousand tonnes

Area of origin	Foundry uses	Glass manufacture	Other industrial uses	Agricultural, horticultural & leisure uses	Total
North East (a)	1	—	—	...	...
Yorkshire and the Humber (b)	...	...	...	...	...
East Midlands (c)	7	—	...	...	...
West Midlands (d)	...	...	...	...	...
East of England (e)	...	...	...	...	...
South East (f)	—	...	...	255	664
South West (g)	—	—	...	...	18
North West (h)	322	...	...	385	1 236
England	...	...	880	1 081	3 633
Wales (i)	—	—	...	...	...
Scotland (j)	...	...	...	...	...
Great Britain	353	1 582	913	1 222	4 070

(a) From Tyne & Wear and Durham.

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

(c) From Nottinghamshire and Lincolnshire.

(d) From Staffordshire and Hereford & Worcester.

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

(f) From Bedfordshire, Surrey and Kent.

(g) From Dorset and Devon.

(h) From Greater Manchester and Cheshire.

(i) From Clwyd and Dyfed.

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

Source: Office for National Statistics.

Silicon

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Silicon										
<i>Consumption in Iron and Steel Industry</i>										
Ferro-silicon	37 610	38 900	36 520	27 110	26 250					
Calcium silicide	90	90	80	60	60					
Ferro-silico-zirconium	60	70	70	50	50					
Ferro-silico-manganese	23 620	24 430	22 940	17 030	16 490					
<i>Imports</i>										
Elemental silicon-										
Containing not less than										
99.99% silicon	2 203	1 504	2 788	2 673	3 299	46 953	49 825	88 581	105 259	102 641
Other	27 309	24 284	54 019	65 436	96 352	25 192	25 025	83 887	98 160	156 601
Doped silicon	399	467	378	296	434	30 409	35 333	35 288	31 544	49 386
Ferro-silicon	64 610	66 838	59 438	31 091	43 703	28 782	33 311	42 239	26 667	41 390
Ferro-silico-chrome	350	1 242	128	26	9	128	635	136	59	10
Ferro-silico-magnesium	3 810	2 303	1 614	512	931	1 738	1 168	1 744	536	1 006
Ferro-silico-manganese	59 985	56 036	52 966	37 114	49 280	23 440	29 887	59 497	24 468	42 091
<i>Exports</i>										
Elemental silicon-										
Containing not less than										
99.99% silicon	788	571	645	739	1 135	19 922	23 458	38 735	52 704	56 225
Other	6 175	10 754	14 488	7 014	1 767	6 420	11 815	24 901	13 343	4 585
Doped silicon	545	957	622	331	675	80 048	85 190	78 997	57 775	71 505
Ferro-silicon	2 733	2 314	3 250	3 338	2 958	3 331	3 096	4 728	4 154	5 530
Ferro-silico-chrome	8	35	9	50	22	12	80	24	244	43
Ferro-silico-magnesium	653	917	976	458	366	441	807	1 231	709	457
Ferro-silico-manganese	60	7	49	65	52	90	11	27	59	55

Sillimanite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Sillimanite										
<i>Imports</i>										
Sillimanite minerals (a)	10 268	10 239	11 920	7 763	7 419	1 898	1 774	2 515	2 064	2 076
Chamotte earth (b)	19 120	29 416	22 243	28 501	52 384	2 351	3 393	3 635	5 231	10 670
Mullite	7 468	12 036	6 488	5 255	8 276	3 288	3 963	3 588	2 770	3 538
<i>Exports</i>										
Sillimanite minerals (a)	41	75	16	157	274	17	43	8	49	77
Chamotte earth (b)	112	235	162	572	1 146	78	132	110	168	273
Mullite	1 884	2 355	2 060	1 257	1 104	1 457	1 811	1 825	1 567	1 280

(a) Andalusite, kyanite and sillimanite.

(b) Calcined refractory clay including flint clay.

Silver

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Silver										
Production (a)	—	0	0	1	1					
Imports										
Ores & concentrates	0	8	8	1	10	326	4 215	9 011	299	687
Waste & scrap	2 742	3 049	4 223	3 311	4 137	311 032	590 691	636 999	301 611	611 252
Unwrought	6 898	3 500	3 328	6 374	2 977	1 036 089	642 960	874 396	1 931 139	1 254 899
Partly worked	419	2 018	616	276	301	53 981	57 981	73 951	55 069	89 044
Silver in unrefined lead bullion (b)	240	240	390	260	300					
Exports										
Ores & concentrates	26	2	0	1	2	644	12	2	25	22
Waste & scrap (c)	3 785	5 051	5 447	8 412	5 160	37 217	38 340	57 315	56 820	132 182
Unwrought	762	1 806	5 909	905	2 467	164 306	408 430	1 307 184	266 091	995 488
Partly worked	307	214	162	39	113	26 417	27 564	19 567	13 865	41 897

(a) Small quantities have been produced in Northern Ireland as follows:
2007: 212; 2008: 398; 2009: 514; 2010: 506.

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

(c) Including scrap of platinum group metals.

Slate

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Slate										
<i>Production</i>										
Architectural and cladding uses,										
roofing & damp proofing courses	...	...	...	42 000	...					
Powder and granules	...	...	...	14 000	...					
Crude blocks	76 000	41 000	37 000	29 000	35 000					
Fill and other uses	714 000	1 332 000	967 000	597 000	615 000					
Total	865 000	1 428 000	1 058 000	683 000	695 000					
<i>Imports</i>										
Unworked (a)	52 135	45 556	32 258	21 718	25 080	11 029	11 709	9 059	6 879	6 604
Roofing and wall tiles	156 784	174 574	179 150	140 691	163 494	51 255	59 391	66 118	57 688	63 112
Other worked slate (b)	55 401	41 222	30 012	30 015	29 668	10 778	9 217	8 448	8 074	8 466
<i>Exports</i>										
Unworked (a)	450	255 297	56 907	225 232	46 745	332	1 846	803	1 837	920
Roofing and wall tiles	9 348	13 230	8 459	13 010	10 319	5 410	7 275	5 940	8 201	6 349
Other worked slate (b)	4 266	7 133	6 014	11 165	11 511	2 932	2 280	1 588	1 122	1 734

(a) Including roughly split or squared.

(b) Including articles of slate or agglomerated slate.

Strontium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Strontium										
<i>Imports</i>										
Carbonate	1	3	212	7	70	7	13	25	13	45
<i>Exports</i>										
Carbonate	425	513	2	2	5	300	71	17	95	66

Sulphur

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Sulphur										
<i>Supply</i>										
Produced (a)	115 000	130 000	135 000	145 000	160 000					
Imported (b)	18 942	13 679	9 638	6 285	10 475					
Sulphur, zinc concentrates (imported) (c)	175	60	107	25	28					
<i>Imports</i>										
Sulphur-										
Crude	11 608	5 101	64	74	274	663	266	45	60	435
Refined	7 334	8 577	9 574	6 211	10 201	1 017	2 931	4 278	2 900	4 942
Sublimed, colloidal etc	1 297	1 073	1 186	473	767	1 001	832	1 268	805	946
<i>Exports</i>										
Sulphur-										
Crude	113	8 207	13 182	2 545	41 491	228	262	1 699	201	2 299
Refined	643	15 268	27 872	38 723	1 198	991	1 525	10 764	3 101	2 007
Sublimed, colloidal etc	1 312	624	1 144	1 902	1 349	392	265	744	976	1 096

- (a) Produced from oil refineries.
 (b) Including waste and residues.
 (c) Sulphur content calculated at 29%.

Talc

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Talc										
<i>Production</i>										
	4 325	2 850	2 410	2 861	2 633					
<i>Imports</i>										
	55 200	54 812	53 864	39 520	50 309	10 815	11 176	12 468	12 640	15 312
<i>Exports</i>										
	4 626	2 389	3 129	2 402	3 074	1 501	878	1 140	1 058	1 497

Tantalum and Niobium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Tantalum and Niobium										
<i>Consumption in Iron and Steel Industry</i>										
Niobium (a)	430	480	540	190	270					
<i>Imports</i>										
Ores & concentrates	13	0	6	5	97 287	222	17	264	148	36 306
Ferro-niobium	1 098	1 490	1 189	686	859	7 427	12 836	13 659	9 955	13 712
Tantalum	119	96	161	145	284	9 501	6 572	8 443	11 647	10 642
Niobium (b)	143	140	154	98	104	7 953	2 972	6 975	9 342	9 331
<i>Exports</i>										
Ferro-niobium	74	49	58	52	224	513	944	1 148	935	4 284
Tantalum	83	77	55	72	191	11 569	4 706	2 255	3 144	8 657
Niobium (b)	9	124	148	23	45	315	2 012	3 021	947	3 971

(a) Metal content.
(b) Including rhenium.

Tellurium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Tellurium										
<i>Imports</i>										
	38	38	151	53	98	806	1 070	11 650	5 366	14 999
<i>Exports</i>										
	53	40	3	112	92	1 753	1 781	338	9 453	9 004

Tin

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Tin										
<i>Consumption</i>										
Refined	4 080	4 080	3 000	3 000	3 000					
<i>Imports</i>										
Concentrates	0	0	0	6	0	43	39	25	122	45
Unwrought	3 558	13 630	7 181	4 522	4 327	17 917	32 618	55 479	39 257	58 068
Unwrought alloys	891	525	400	370	365	5 029	5 535	6 533	5 648	6 829
Scrap	1 728	452	448	121	196	510	317	334	251	384
<i>Exports</i>										
Concentrates	4	373	254	61	163	21	2 012	1 158	448	954
Ash and residues	165	124	...	...	...	474	199	...	...	...
Unwrought	8 395	4 085	1 264	928	1 856	43 259	29 224	11 781	8 500	24 891
Unwrought alloys	698	696	532	537	389	4 107	5 332	5 671	3 296	4 037
Scrap	35 252	27 329	19 110	22 597	13 115	31 425	43 699	24 197	29 286	12 682

Titanium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Titanium										
<i>Production</i>										
Titanium dioxide pigment (a)	275 000	268 000	255 000	230 000	(b) 200 000					
<i>Apparent consumption (b)</i>	78 800	68 200	63 900	24 100	43 400					
<i>Consumption in Iron and Steel Industry</i>										
Ferro-titanium	1 020	1 050	990	730	710					
<i>Imports</i>										
<i>Ores & concentrates</i>										
Ilmenite	175 882	181 794	194 719	112 068	90 622	25 815	27 878	38 401	33 818	31 752
Other (rutile)	48 147	42	37	23	...	12 111	36	34	80	...
Scrap	14 375	12 585	12 367	8 972	8 388	88 437	45 141	32 945	11 106	24 707
Unwrought	10 736	11 966	13 868	9 989	7 994	75 833	70 708	78 778	52 522	52 867
Wrought	5 156	6 354	6 071	4 218	4 299	141 150	176 721	186 129	160 102	153 972
Ferro-titanium (c)	1 087	1 677	1 290	396	274	6 434	6 732	3 612	399	813
Oxides	10 769	6 981	6 925	4 933	6 503	11 521	8 884	10 053	9 101	11 106
Pigments based on titanium dioxide	60 759	67 727	51 822	48 931	52 957	82 835	113 787	71 395	72 302	86 182
Titanium slag	91 603	151 494	158 195	127 224	...	27 968	33 379	38 966	36 298	...
<i>Exports</i>										
<i>Ores & concentrates</i>										
Ilmenite	58	26	21	19	20	199	100	165	56	35
Other (rutile)	99	...	0	22	...	780	...	29	94	...
Scrap	4 280	4 476	3 973	3 269	4 180	28 935	20 964	12 714	5 096	15 804
Unwrought	2 952	3 263	2 754	2 823	3 683	31 888	17 402	13 252	8 265	25 579
Wrought	6 795	5 196	4 428	3 464	4 197	169 621	178 876	198 153	156 703	155 259
Ferro-titanium (c)	17 645	19 515	18 557	13 098	15 197	108 240	79 176	59 013	23 486	43 348
Oxides	1 224	1 130	1 104	845	867	3 792	2 392	3 536	3 693	2 464
Pigments based on titanium dioxide	181 023	210 938	221 399	203 028	207 651	220 091	247 463	276 503	298 629	322 674

(a) Articol estimates.

(b) BGS estimates; see explanatory notes.

(c) Including ferro-silico-titanium.

Tungsten

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Tungsten										
<i>Consumption in Iron and Steel</i>										
Industry (a)	40	40	50	20	20					
<i>Imports</i>										
Ores & concentrates	34	2	11	35	2	229	27	25	44	40
W content	177	...	6	...	...			
Scrap	1 841	1 823	1 291	1 157	1 278	16 240	18 787	15 129	11 134	15 973
Unwrought	2 766	389	430	283	353	22 773	5 953	6 903	5 456	5 470
Wrought	111	713	144	38	45	5 015	6 828	4 257	2 995	4 384
Ferro-tungsten (b)	134	33	27	26	48	948	397	487	348	763
Carbide	913	1 409	1 023	614	1 111	18 831	25 842	19 982	11 808	27 735
Tungstates	39	51	31	6	4	379	590	348	144	116
Oxides and hydroxides	707	746	96	36	24	9 535	8 566	1 171	154	117
<i>Exports</i>										
Ores & concentrates	1	36	21	3	29	44	589	136	93	327
W content	0	...	11	...	...			
Scrap	1 161	1 991	1 399	1 429	1 451	8 062	17 528	14 390	11 089	15 563
Unwrought	845	373	182	65	162	6 659	4 232	2 979	1 681	2 502
Wrought	93	80	44	47	36	2 532	3 091	3 976	1 975	2 645
Ferro-tungsten (b)	17	8	31	1	4	246	112	256	25	112
Carbide	251	303	51	80	41	3 937	7 874	1 704	211	983
Tungstates	12	11	5	8	6	181	182	85	650	117
Oxides and hydroxides	4	0	402	55	6	143	4	4 782	367	68

(a) Metal content.

(b) Including ferro-silico-tungsten.

Vanadium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Vanadium										
<i>Consumption in Iron and Steel</i>										
Industry (a)	80	90	100	40	50					
<i>Imports</i>										
Unwrought	(b) 174	(b) 583	314	112	197	(b) 3 133	(b) 5 232	6 277	3 218	4 670
Wrought	233	...	...	...	...	4 944	...	...	...	...
Oxides	472	425	344	84	5	4 063	3 053	4 813	699	74
Ferro-vanadium	1 623	755	543	209	340	10 669	11 036	12 812	2 394	4 413
<i>Exports</i>										
Unwrought	0	2 182	2	18	23	47	902	43	395	682
Wrought	69	...	...	...	...	127	...	...	...	...
Oxides	23	697	589	487	694	80	10 420	8 870	4 992	7 806
Ferro-vanadium	151	96	79	64	24	2 728	1 400	922	958	328

(a) Vanadium content of ferro-vanadium.

(b) Including scrap.

Vermiculite

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Vermiculite										
<i>Imports</i>	34 772	34 072	29 200	24 515	58 456	4 484	4 182	4 319	4 115	5 357
<i>Exports</i>	101	5	24	188	1 059	69	52	109	934	822

Zinc

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Zinc										
<i>Consumption</i>										
Slab	161 676	172 000	151 500	99 000	99 000					
<i>Imports</i>										
Ores & concentrates (a)	603	164	257	119	574	881	418	424	341	970
Ash and residues	5 632	4 918	4 632	3 160	2 898	3 863	3 553	2 122	11 203	1 243
Unwrought	119 676	122 458	119 911	84 594	97 066	215 030	222 907	134 468	96 839	144 172
Unwrought alloys	15 666	13 201	8 524	1 869	2 973	29 565	28 338	9 611	2 407	4 156
Scrap	334	30	103	344	447	243	41	54	258	409
<i>Exports</i>										
Ores & concentrates	468	82	246	11 418	8 405	1 237	301	209	1 691	2 992
Ash and residues	7 009	7 068	13 786	9 585	9 139	5 807	6 677	8 597	6 268	8 422
Unwrought	5 325	5 932	3 883	3 600	3 580	8 776	10 236	4 639	4 560	4 937
Unwrought alloys	37 120	33 799	28 408	13 578	14 561	61 587	63 495	38 083	15 562	21 409
Scrap	4 571	7 543	5 699	6 030	14 903	4 948	9 610	4 973	5 144	18 207

(a) Zinc and mixed zinc-lead concentrates.

Zirconium

United Kingdom summary 2006-2010

Commodity	2006	2007	2008	2009	2010	2006	2007	2008	2009	2010
	Tonnes					£ thousand				
Zirconium										
<i>Apparent consumption</i> (a)	8 000	7 000	7 000	3 000	4 000					
<i>Consumption in Iron and Steel Industry</i>										
Ferro-silico-zirconium	60	70	70	50	50					
<i>Imports</i>										
Ores and Concentrates (b)	13 729	11 007	13 092	6 386	8 450	8 769	7 296	8 145	5 910	7 204
Scrap	114	62	65	49	139	465	278	263	311	885
Unwrought	175	150	403	82	190	2 346	1 071	4 490	1 830	3 088
Wrought	178	235	53	72	82	4 131	3 411	1 745	852	1 219
<i>Exports</i>										
Ores and concentrates	902	1 096	716	742	1 405	847	1 022	746	966	1 728
Scrap	25	41	2	11	76	111	104	33	42	338
Unwrought	5	0	54	0	0	22	6	72	53	6
Wrought	60	13	5	7	15	1 934	779	715	1 362	336

(a) BGS estimates; see explanatory notes.

(b) Mainly zircon.