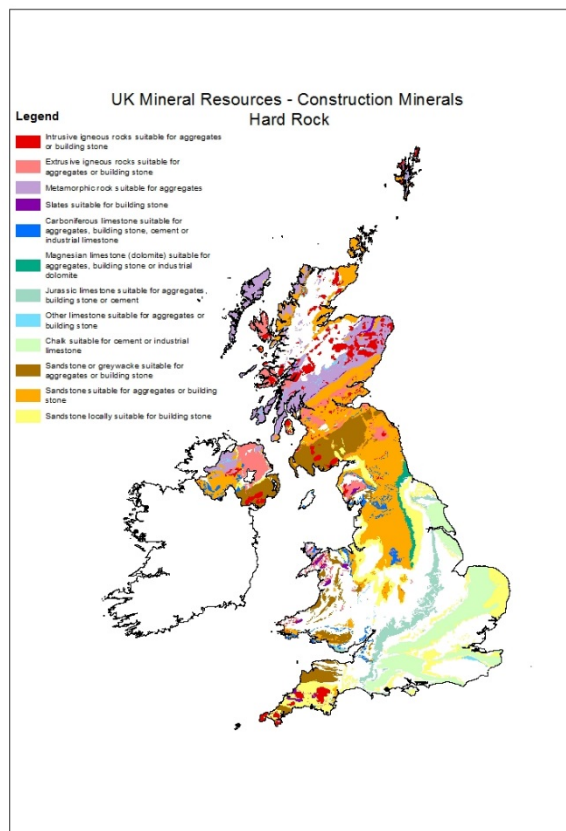




United Kingdom Minerals Yearbook 2015

Minerals and Waste Programme
Open Report OR/16/021



BRITISH GEOLOGICAL SURVEY

MINERALS AND WASTE PROGRAMME

OPEN REPORT OR/16/021

United Kingdom Minerals Yearbook 2015

Statistical data to 2014

N. E. Idoine, T. Bide, T. J. Brown and E. R. Raycraft

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Front cover

Map drawn to illustrate the UK's
hard rock resources for
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BRITISH GEOLOGICAL SURVEY

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Explanatory notes

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

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

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

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

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

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

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

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

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

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

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

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

Symbols: The following symbols are used throughout:

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

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

Trade: Trade figures from INTRASTAT, the system for measuring intra-EC trade became available from 1993. This was introduced following the abolition of customs controls as a result of the Single Market and trade figures are now compiled from data provided directly from companies instead of Customs documents. Extra-EC trade continues to be collected from Customs declarations as before. The transition from one system to another has produced some anomalous figures in terms

of the size of the trade in and unit value of certain commodities. These factors should be taken into consideration when evaluating trends. Figures given in this edition are the combined intra and extra-EC trade data.

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

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

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Sources of information

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

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

1853–1881 *Mineral Statistics*, by Robert Hunt, Keeper of Mining Records; Memoirs of the Geological Survey

1882–1896 *Mineral Statistics*; Home Office

1897–1919 *Mines and Quarries: General Report with Statistics*; Home Office

1920 *Mines and Quarries: General Report with Statistics*; Mines Department, Board of Trade

1921–1938 *Annual Report of the Secretary of Mines*; Mines Department, Board of Trade (Great Britain only from 1922)

1938–1972 *Statistical Digest*; Ministry of Fuel and Power (Great Britain only)

1973–2014 *Digest of United Kingdom Energy Statistics*; Department of Energy and climate change (formerly published by Department for Business Enterprise and Regulatory Reform, Department of Trade and Industry or Department of Energy)

1973–1993 *Minerals (PA1007)*; Central Statistical Office

1994–2014 *Mineral Extraction in Great Britain (PA 1007)*; Office for National Statistics

1922–1949 *Annual Report of the Mining and Quarrying industries in Northern Ireland*; Ministry of Commerce (Northern Ireland)

1950–1981 *Mineral Production in Northern Ireland*; Department of Commerce (Northern Ireland)

1982–1995 *Mineral Production in Northern Ireland*; Department of Economic Development (Northern Ireland)

1996–1998 *Annual Minerals Statement*; Department of Economic Development (Northern Ireland)

1999–2009 *Annual 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

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

The Coal Authority

Trade in minerals and mineral-based products compared with total trade 2008–2014

£ million

SITC section	2008	2009	2010	2011	2012	2013	2014
Imports (c.i.f.)							
0, 1	Food, beverages, tobacco	30 570.8	31 840.9	33 415.9	36 068.8	36 832.9	38 705.2
2, 4	Basic materials	11 411.2	8 096.0	10 731.6	12 418.4	11 186.1	11 171.4
	of which: Minerals	5 498.4	2 932.5	4 719.3	5 674.3	4 784.6	4 298.5
3	Fuels and related materials	44 289.5	31 721.3	40 857.5	56 753.1	60 498.6	48 890.1
	of which: Mineral-based	43 906.3	31 461.9	40 531.9	56 285.8	59 824.5	47 867.7
	Manufactured goods:						
5, 6	Semi-manufactures	81 638.4	76 663.1	90 246.6	99 988.3	101 430.9	95 193.4
	of which: Mineral-based	35 062.3	31 135.8	38 973.1	45 038.1	45 428.1	33 426.4
7, 8	Finished manufactures	171 678.0	157 080.1	183 328.1	186 824.7	190 943.8	210 948.2
	Total	339 588.1	305 401.4	358 579.6	392 053.5	400 892.4	404 908.3
	All traded goods						
	of which: Mineral-based	84 467.0	65 530.3	84 224.3	106 998.2	110 037.2	85 592.6
	As % of all traded goods	24.9	21.5	23.5	27.3	27.4	21.1
Exports (f.o.b.)							
0, 1	Food, beverages, tobacco	13 670.8	14 398.2	16 027.4	18 125.2	17 917.4	18 899.7
2, 4	Basic materials	6 558.5	5 160.0	7 288.5	8 941.0	8 390.4	6 830.7
	of which: Minerals	4 141.9	2 998.0	4 556.1	5 574.8	4 921.1	4 020.2
3	Fuels and related materials	33 595.7	25 399.7	33 416.3	40 674.5	41 664.1	33 538.4
	of which: Mineral-based	33 485.2	25 239.0	33 212.1	40 536.4	41 562.3	33 414.9
	Manufactured goods:						
5, 6	Semi-manufactures	76 148.4	71 385.9	79 884.7	87 742.3	84 916.0	77 135.5
	of which: Mineral-based	33 924.9	27 555.7	33 361.0	38 755.8	35 332.6	28 669.6
7, 8	Finished manufactures	117 063.9	106 773.0	123 510.2	136 474.3	139 692.2	146 670.1
	Total	247 037.2	223 116.7	260 127.1	291 957.3	292 580.1	283 074.4
	All traded goods						
	of which: Mineral-based	71 552.0	55 792.7	71 129.3	84 867.0	81 816.0	66 104.7
	As % of all traded goods	29.0	25.0	27.3	29.1	28.0	23.4

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

Balance of trade in minerals and mineral-based products 2010–2014

£ million (a)

SITC (R3) divisions	2010	2011	2012	2013	2014	
27	Crude minerals and fertilisers:					
	imports	551.3	635.6	587.0	616.1	505.6
	exports	478.6	520.0	433.3	442.4	452.1
		-72.7	-115.6	-153.7	-173.7	-53.5
28	Metal ores and scrap:					
	imports	4 168.0	5 038.7	4 197.7	4 387.4	3 793.0
	exports	4 077.5	5 054.7	4 487.8	3 894.6	3 568.1
		-90.5	+16	+290.2	-492.8	-224.9
32	Coal, coke and briquettes:					
	imports	1 908.2	3 026.6	3 174.4	3 023.5	2 358.5
	exports	227.7	185.1	156.4	158.5	111.7
		-1 680.5	-2 841.6	-3 018.0	-2 864.9	-2 246.8
33	Petroleum, petroleum products and related materials:					
	imports	31 519.6	43 899.5	48 639.4	43 445.0	37 758.4
	exports	29 610.8	35 956.2	37 500.0	36 023.8	30 323.2
		-1 908.8	-7 943.3	-11 139.4	-7 421.2	-7 435.2
34	Gas, natural and manufactured:					
	imports	7 104.1	9 359.6	8 010.8	8 604.1	7 750.9
	exports	3 373.6	4 395.1	3 905.9	3 265.3	2 979.9
		-3 730.5	-4 964.5	-4 104.9	-5 338.8	-4 771.0
51	Organic chemicals:					
	imports	9 545.8	10 260.6	10 301.3	8 261.6	6 985.7
	exports	8 761.5	9 075.7	8 921.4	7 626.8	6 823.8
		-784.3	-1 184.9	-1 379.9	-634.8	-161.9
52	Inorganic chemicals:					
	imports	2 950.6	3 528.1	3 171.2	2 501.8	2 237.8
	exports	3 399.7	2 939.4	2 740.8	2 450.7	1 746.5
		+449.1	-588.7	-430.4	-84.4	-491.3
56	Manufactured fertilisers:					
	imports	329.1	324.7	290.5	282.3	300.8
	exports	133.0	158.3	152.7	197.9	190.0
		-196.1	-166.3	-137.8	-84.4	-110.8
53–59 (part)	Miscellaneous chemical products:					
	imports	5 822.9	6 595.7	6 260.6	6 510.8	6 478.5
	exports	4 830.6	5 617.8	5 186.6	5 087.9	5 362.0
		-992.4	-977.9	-1 073.9	-1 422.9	-1 116.5
66	Non-metallic mineral products:					
	imports	7 377.5	8 466.1	7 584.5	6 944.5	4 576.7
	exports	6 482.4	7 406.2	7 181.1	5 903.8	2 962.1
		-895.1	-1 059.9	-403.3	-1 040.7	-1 614.6
67	Iron and steel:					
	imports	3 884.5	4 962.6	4 778.1	4 012.0	4 391.8
	exports	3 740.1	4 528.0	4 085.9	4 615.1	4 538.8
		-144.4	-434.7	-692.2	+603.1	+147.0
68	Non-ferrous metals:					
	imports	8 850.4	10 321.6	12 715.2	9 751.6	8 107.9
	exports	5 822.0	8 572.6	6 783.8	7 120.1	6 743.0
		-3 028.4	-1 749.1	-5 931.4	-2 631.5	-1 364.9
69	Manufactures of metal:					
	imports (b)	212.2	289.3	326.7	364.6	347.3
	exports (b)	191.7	228.9	280.3	297.8	303.4
		-20.5	-60.4	-46.4	-66.8	-43.9
96	Coin other than gold:					
	imports	3.7	6.1	10.9	6.6	4.7
	exports	40.3	42.2	12.8	18.7	23.6
		+36.6	+36.0	+1.9	+12.1	+18.9
	Total (excluding gold)					
	imports	84 228.0	106 714.8	110 048.1	98 711.9	85 597.6
	exports	71 169.5	84 680.2	81 828.8	77 103.4	66 128.2
		-9 469.24	-22 034.6	-28 219.4	-21 608.5	-19 469.4
97	Gold (non-monetary):					
	imports	976.0	...	...	...	...
	exports	2 137.4	...	...	...	...
		+1 161.4	...	...	...	...
	Total					
	imports	85 204.0	...	...	...	...
	exports	73 306.9	...	...	...	...
		-11 897.1	...	...	...	...
	Gold (monetary):					
	imports	19 202.5	...	...	...	...
	exports	6 213.8	...	...	...	...
		-12 988.7	...	...	...	...
	Grand total					
	imports	104 406.5	...	...	...	...
	exports	79 520.7	...	...	...	...
		-24 885.8	...	...	...	...

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

Approximate value (a) of minerals produced in the United Kingdom 2008–2014

£ million

Mineral	2008	2009	2010	2011	2012	2013	2014
Coal	1 154	973	1 002	1 345	1 131	780	660
Natural gas	10 612	7 570	7 590	7 960	7 855	7 755	6 655
Natural gas liquids	2 204	... (b)	... (b)	... (b)	... (b)	... (b)	... (b)
Crude petroleum	25 102	19 075	23 110	25 505	22 975	21 330	18 185
Iron ore	0	—	—	—	—	—	—
Tin	—	—	—	—	—	—	—
Gold	3	4	4	6	3	1	0
Silver	0	0	0	0	0	0	0
Other non-ferrous metals	0	0	0	1	0	0	0
Sand and gravel	814	640	630	661	555	584	643
Limestone and dolomite	777	518	589	566	565	545	663
Igneous rock	426	336	320	319	300	320	333
Sandstone	120	106	116	113	110	115	122
Chalk	93	43	56	74	54	77	57
Clay and shale	19	14	17	24	20	41	59
China clay	137	122	128	137	128	129	129
Ball clay	65	47	53	57	49	50	48
Fuller's earth	—	—	—	—	—	—	—
Salt	186	405	530	424	326	317	225
Silica sand	67	53	57	57	57	59	55
Potash	61	240	279	246	259	248	226
Fluorspar	5	3	4	—	—	4	4
Gypsum and anhydrite	14	14	14	14	14	14	17
Miscellaneous minerals	46	48	42	45	40	35	70
Total	41 907	30 211	34 545	37 554	34 443	32 404	28 151
At 2012 constant prices							
Coal	1 260	1 041	1 039	1 367	1 131	765	636
Oil and gas	41 395	28 497	31 846	34 009	30 830	28 515	23 954
Metals	3	4	4	7	4	1	0
Construction and industrial minerals	3 090	2 769	2 941	2 782	2 478	2 488	2 556
Total	45 748	32 311	35 831	38 165	34 443	31 769	27 147

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

Source: British Geological Survey.

(b) Included in gas and petroleum figures.

United Kingdom mining and quarrying: Gross value added (a) 2008–2014

£ million

	2008	2009	2010	2011	2012	2013	2014
Production							
Mining and quarrying							
Mining and quarrying of energy producing materials							
Mining of coal and lignite	383	292	890	256	126	115	90
Extraction of crude petroleum and natural gas	29 893	22 490	24 800	27 146	22 791	20 541	17 200
Other mining and quarrying	2 472	2 139	2 114	2 846	3 163	4 432	4 936
Total mining and quarrying	35 660	27 153	30 305	33 059	29 315	28 595	25 995
All industries	1 368 717	1 345 046	1 400 684	1 441 598	1 475 948	1 525 030	1 585 969
of which: minerals related (%)	2.6	2.0	2.2	2.3	2.0	1.9	1.6

(a) At current basic prices.

Source: Office for National Statistics.

Individual industry sectors do not sum to the total mining and quarrying figure due to the exclusion of mining support service activities.

United Kingdom production of minerals 2008–2015

Thousand tonnes

Mineral	2008	2009	2010	2011	2012	2013	2014	2015 (Estimated)
Coal:								
Deep-mined	8 096	7 520	7 390	7 312	6 153	4 089	3 685	2 784
Opencast	9 509	9 854	10 426	10 580	10 134	8 584	7 962	5 742
Other (a)	449	500	540	660	680	95	—	—
Natural gas and oil:								
Methane (oil equivalent)								
Colliery	63	62	71	58	52	52	48	50
Onshore	92	89	88	27	15	10	38	39 600
Offshore	69 525	59 581	57 036	45 204	38 850	36 460	36 479	
Crude oil								
Onshore	1 248	1 181	941	678	870	1 003	1 014	42 826
Offshore	64 249	61 639	57 106	47 893	41 182	37 453	36 460	
Condensates and other (c)								
Onshore	33	32	17	0	13	20	19	2 462
Offshore	6 135	5 346	4 898	3 401	2 495	2 170	2 435	
Iron ore	0.1	—	—	—	—	—	—	—
Non-ferrous ores (metal content):								
Tin	—	—	—	—	—	—	—	—
Lead (h)	0.3	0.4	0.4	0.3	0.1	0.1	0.1	0.1
Gold (kg)	163	187	177	202	102	42	0	0
Silver (kg)	398	514	506	531	230	82	0	0
Chalk (e)	5 874	4 047	3 626	3 996	3 473	3 528	3 312	3 500
Clay and shale (e)	8 459	5 310	5 934	6 154	5 497	6 464	6 806	7 200
Igneous rock (j) (k)	53 490	44 618	44 876	(l) 44 400	(l) 40 200	(l) 40 500	(l) 43 700	46 200
Limestone (excluding dolomite)	74 145	60 111	56 985	(l) 58 100	(l) 54 800	(l) 56 900	(l) 66 300	74 100
Dolomite (excluding limestone)	5 509	3 164	4 540	4 490	4 896	3 432	3 730	
Sand and gravel:								
Land	66 640	50 973	47 167	(l) 45 800	(l) 41 800	(l) 43 400	(l) 46 800	62 900
Marine (i)	18 833	15 253	14 533	17 287	14 840	14 577	14 327	
Sandstone	12 255	12 335	11 556	(l) 12 300	(l) 11 500	(l) 11 500	(l) 12 500	13 200
Slate (g)	1 058	683	695	763	701	885	868	900
Ball clay (sales)	1 020	727	(h) 900	(h) 930	(h) 748	(h) 740	(h) 733	740
Barytes	43	36	34	31	30	30	44	40
Chert and flint	1	1	...	...	...	...	...	...
China clay (sales) (d)	1 355	1 060	(h) 1 140	(h) 1 290	(h) 1 150	(h) 1 110	(h) 1 090	1 014
China stone	0.5	—	—	—	—	—	—	—
Fireclay (e)	180	129	110	162	96	105	129	130
Fluorspar (h)	37	19	26	—	—	16	24	17
Gypsum (natural) (h)	1 200	1 200	1 200	1 200	1 200	1 200	1 200	1 200
Lignite	...	...	...	...	...	...	...	...
Peat (000 m ³)	760	887	1 004	825	568	1 254	795	800
Potash (b)	673	(h) 700	(h) 700	(h) 770	(h) 900	(h) 900	(h) 1 000	1 000
Salt	5 565	6 166	6 666	6 060	6 460	6 930	4 690	5 000
Silica sand	4 777	3 755	4 070	3 969	3 888	3 961	3 948	4 000
Talc	2	3	3	4	4	3	5	5

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

(b) Marketable product (KCI).

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

(d) Dry weight.

(e) Excluding a small production in Northern Ireland.

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

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

(h) BGS estimate.

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

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

(k) In addition, the following amounts of igneous rock were produced in Guernsey (thousand tonnes): 2007: 160; 2008: 139; 2009: 120; 2010: 116; 2011: 156; 2012: 169; 2014: 117 and Jersey: 2007: 295; 2008: 325; 2009: 249; 2010: 238; 2011: 220; 2012: 239; 2013: 176 2013: 149.

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

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

Minerals produced in the Isle of Man, Guernsey and Jersey 2010-2014

Thousand tonnes

	2010	2011	2012	2013	2014
Isle of Man					
Limestone	71	82	72	56	53
Sand and gravel	145	141	101	96	97
Igneous rock	109	96	94	110	98
Slate	28	29	23	17	26
Total	353	347	290	279	274
Guernsey					
Igneous rock	116	156	169	149	117
Jersey					
Igneous rock (c)	238	220	239	176	...
Sand and gravel	57	74	46	44	48

(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															Total
	North East England	Yorkshire & the Humber	North West England	East Midlands	West Midlands	East of England	Greater London	South East England	South West England	England Total	Wales	Scotland	Isle of Man	Northern Ireland	Channel Islands	
Abandoned mine methane	—	6	—	9	2	—	—	—	—	17	2	—	—	—	—	19
Anhydrite	—	—	—	—	1	—	—	—	—	1	—	—	—	—	—	1
Ball clay	—	—	—	—	—	—	—	—	19	19	—	—	—	—	—	19
Barytes	—	—	—	4	—	—	—	—	—	4	—	1	—	—	—	5
Bauxite	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—
Chalk	—	16	—	3	—	14	—	16	1	50	—	—	—	4	—	54
Chert	—	—	—	—	—	—	—	—	—	0	1	—	—	—	—	1
China clay	—	—	—	—	—	—	—	—	14	14	—	—	—	—	—	14
China clay waste	—	—	—	—	—	—	—	—	8	8	—	—	—	—	—	8
Clay & shale	6	28	16	17	27	5	—	24	11	134	8	4	—	14	—	160
Coal, underground	1	—	1	1	—	—	—	—	1	4	1	—	—	—	—	5
Coal, opencast	4	—	—	1	—	—	—	—	—	5	6	5	—	—	—	16
Coalbed methane	—	—	1	—	—	—	—	—	—	1	—	—	—	—	—	1
Fireclay	—	4	1	1	1	—	—	—	—	7	—	3	—	—	—	10
Flint	—	2	—	—	—	6	—	2	—	10	—	—	—	—	—	10
Fluorspar	1	—	—	5	—	—	—	—	—	6	—	—	—	—	—	6
Gold	—	—	—	—	—	—	—	—	—	0	—	—	—	1	—	1
Gypsum (c)	—	—	1	3	1	—	—	1	—	6	—	—	—	—	—	6
Igneous & metamorphic rock	8	—	3	7	4	—	—	—	12	34	16	126	2	46	4	228
Iron ore - ironstone	—	—	—	—	—	—	—	3	—	3	—	—	—	—	—	3
Lead	—	—	—	4	—	—	—	—	—	4	—	—	—	1	—	5
Limestone / dolomite	21	30	22	58	9	4	—	15	86	245	34	14	2	20	—	315
Marble	—	—	—	—	—	—	—	—	—	0	—	1	—	—	—	1
Mine drainage gas	—	1	—	—	—	—	—	—	—	1	—	—	—	—	—	1
Natural gas	—	10	1	3	—	—	—	1	1	16	—	—	—	—	—	16
Oil	—	1	—	35	—	—	—	22	4	62	—	—	—	—	—	62
Peat	1	3	8	—	—	1	—	—	39	52	2	29	—	8	—	91
Potash	—	2	—	—	—	—	—	—	—	2	—	—	—	—	—	2
Salt	—	2	4	—	—	—	—	—	—	6	—	—	—	1	—	7
Sand	5	7	4	1	3	13	1	32	10	76	2	16	—	3	1	98
Sand & gravel	5	23	26	50	32	98	4	62	28	328	14	112	3	78	—	535
Sandstone	18	55	36	22	17	7	—	5	23	183	25	51	—	35	—	294
Silica sand	1	2	5	2	1	16	—	7	1	35	—	5	—	—	—	40
Silver	—	—	—	—	—	—	—	—	—	0	—	—	—	1	—	1
Slate	—	—	10	—	—	—	—	—	10	20	13	—	3	1	—	37
Slate waste	—	—	1	—	—	—	—	—	—	1	9	—	—	—	—	10
Talc	—	—	—	—	—	—	—	—	—	0	—	1	—	—	—	1
Tin	—	—	—	—	—	—	—	—	2	2	—	—	—	—	—	2
Tungsten	—	—	—	—	—	—	—	—	1	1	—	—	—	—	—	1
Total	71	192	140	226	98	164	5	190	270	1 357	133	368	10	214	5	2 086

(a) As at March 2016.

Source: British Geological Survey.

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

(c) Excludes desulphogypsum manufacture.

Abrasives, natural

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Carats					£ thousand				
Abrasives										
<i>Imports</i>										
Natural abrasives										
Industrial diamonds	7 299 364	10 236 376	7 747 613	6 399 457	4 270 299	30 724	20 976	94 825	29 588	20 464
Tonnes										
Dust and powder of precious and semi-precious stones	27	473	1 264	775	33	11 006	11 853	9 799	11 621	10 330
Pumice	2 062	2 067	1 255	3 406	2 353	1 183	810	512	954	724
Other	11 876	13 876	14 706	17 304	13 280	3 012	3 788	3 580	4 113	3 319
Carats										
<i>Exports</i>										
Natural abrasives										
Industrial diamonds	2 478 568	3 864 054	3 949 553	2 001 018	2 430 399	21 248	25 685	24 931	19 219	15 236
Tonnes										
Dust and powder of precious and semi-precious stones	30	409	633	103	18	14 892	14 216	12 659	14 156	13 043
Pumice	704	136	87	138	121	997	448	129	176	159
Other	1 562	1 250	1 857	1 609	3 352	1 890	513	1 035	1 507	2 112

Aggregates

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Aggregates										
<i>Production</i>										
Sand and gravel (a)	61 700 000	(d) 63 100 000	(d) 56 600 000	(d) 58 000 000	(d) 61 100 000					
Crushed rock (b)	94 203 000	(d) 102 800 000	(d) 94 800 000	(d) 94 300 000	(d) 110 300 000					
Total	155 903 000	(d) 165 900 000	(d) 151 400 000	(d) 152 300 000	(d) 171 400 000					
<i>Imports</i>										
Natural aggregates-										
Sand and gravel	343 749	357 607	519 089	493 102	549 584	10 874	12 454	16 436	15 483	13 749
Crushed rock (c)	1 896 201	1 705 153	1 273 059	430 464	381 694	30 740	36 384	22 718	19 243	21 191
Total	2 239 950	2 062 760	1 792 148	923 566	931 278	41 614	48 838	39 154	34 726	34 940
<i>Exports</i>										
Natural aggregates-										
Sand and gravel (e)	6 081 730	5 413 300	4 572 346	4 326 631	3 518 314	44 819	45 162	36 053	34 708	31 179
Crushed rock	4 910 701	5 387 038	4 251 427	4 896 911	4 966 129	36 490	40 856	32 165	37 802	46 097
Total	10 992 431	10 800 337	8 823 773	9 223 542	8 484 443	81 309	86 019	68 217	72 510	77 276

(a) Including production from marine dredging.

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

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

(d) Includes an estimate for Northern Ireland.

(e) Principally marine-dredged sand and gravel.

Source: HM Revenue and Customs.

However, the Crown Estate Commissioners give the following figures for marine-dredged sand and gravel landed at foreign ports (tonnes): 2010: 5 192 348; 2011: 6 098 020; 2012: 4 548 675; 2013: 4 089 687; 2014: 2 994 538.

Great Britain estimated consumption of natural aggregates 1961–2014

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	
1961	20	16	4	40	42	43	85	125
1962	21	16	4	41	42	43	85	126
1963	23	17	4	44	44	45	89	133
1964	29	20	5	54	52	54	106	160
1965	34	20	5	59	50	52	102	161
1966	40	22	6	68	50	56	106	174
1967	48	25	7	80	52	60	112	192
1968	53	27	11	91	54	58	112	203
1969	55	28	14	97	52	57	109	206
1970	59	28	11	98	53	57	110	208
1971	62	29	9	100	53	59	112	212
1972	61	32	10	103	55	63	118	221
1973	74	38	14	126	62	68	130	256
1974	72	34	12	118	53	60	113	231
1975	67	32	10	110	54	63	117	227
1976	60	28	10	98	51	59	110	208
1977	59	26	9	94	46	53	99	193
1978	61	28	10	99	48	55	102	201
1979	65	29	10	104	49	54	103	207
1980	65	28	10	103	45	52	96	199
1981	57	25	10	92	41	48	89	182
1982	62	30	11	103	42	49	91	194
1983	70	31	11	112	46	55	101	213
1984	69	30	12	111	46	54	100	211
1985	72	32	11	115	47	55	102	217
1986	78	34	11	123	51	55	106	229
1987	89	39	14	142	53	58	111	253
1988	102	44	16	162	63	67	130	292
1989	106	46	16	169	64	67	131	300
1990	98	49	14	162	58	58	116	278
1991	90	46	13	148	49	49	98	246
1992	85	48	11	144	45	44	89	233
1993	89	49	12	150	45	44	89	239
1994	99	50	13	162	50	48	98	259
1995	87	49	15	151	47	43	90	240
1996	77	43	12	133	43	39	82	215
1997	80	42	12	134	45	42	86	220
1998	79	40	13	132	44	42	86	218
1999	76	45	11	133	45	43	88	221
2000	75	44	12	131	45	44	89	220
2001	(d) 78	45	(d) 11	134	45	43	88	222
2002	71	44	11	127	44	39	83	210
2003	67	45	11	123	45	35	80	203
2004	70	46	11	127	45	41	86	213
2005	66	46	11	123	43	39	82	205
2006	70	(d) 46	(d) 11	127	42	38	80	207
2007	(d) 67	51	12	130	42	36	79	208
2008	59	47	9	115	37	35	72	187
2009	(d) 45	38	8	91	30	26	56	147
2010	(d) 39	(d) 35	8	82	29	26	54	137
2011	(d) 39	43	9	91	30	25	55	146
2012	41	34	8	83	26	24	50	133
2013	39	35	8	82	27	25	52	134
2014	53	38	10	99	29	27	56	155

(a) Including dolomite.

(d) BGS estimate.

(b) Total production, excluding marine-dredged material for export.

(c) The following amounts of crushed rock aggregate, believed to be mainly igneous rock, were exported (million tonnes):

Source: Office for National Statistics.

2010: 5, 2011: 5, 2012: 4, 2013: 5, 2014: 5. Crushed rock aggregate is also imported. These figures have not been taken into account when calculating consumption.

Aluminium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Aluminium										
<i>Production</i>										
Unwrought-										
Primary	186 000	213 000	60 000	45 000	41 000					
Secondary	99 600	99 200	148 800	148 800	148 800					
<i>Consumption</i>										
Unwrought-										
Primary (b)	* 270 000	* 270 000	* 270 000	* 270 000	* 270 000					
Secondary	322 400	320 400	320 400	320 400	320 400					
Ferro-aluminium (a)	2 120	2 070	2 080	...	...			
<i>Imports</i>										
Ash and residues	1 001	1 776	325	1 502	679	1 142	1 091	296	488	181
Unwrought	138 975	201 428	144 629	144 616	154 942	204 559	309 357	223 073	210 078	191 242
Unwrought alloys	62 686	62 784	64 561	70 720	62 549	104 767	113 462	106 111	109 761	96 538
Scrap	126 584	109 122	106 654	113 461	168 299	134 400	123 162	101 311	97 962	132 107
<i>Exports</i>										
Ash and residues	24	503	666	86	143	85	326	457	19	86
Unwrought	43 665	49 959	9 597	8 510	6 364	60 938	81 932	11 068	10 474	7 779
Unwrought alloys	364 612	356 170	279 263	188 996	219 143	626 968	617 355	432 049	290 451	335 466
Scrap	443 466	440 399	445 730	402 060	452 620	549 108	606 047	573 852	469 859	483 869

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

Aluminium compounds

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Aluminium compounds										
<i>Imports</i>										
Oxide (alumina)	229 158	110 265	56 724	50 376	69 337	84 105	58 634	39 050	39 555	41 226
Hydroxide	87 278	90 065	72 468	80 674	81 787	28 869	33 996	28 716	30 167	34 496
Fused Oxide (a)	42 447	36 375	31 623	33 610	40 512	25 305	23 417	21 054	21 967	24 615
Fluorides	2 118	1 248	122	1 235	791	1 230	1 842	187	1 268	704
<i>Exports</i>										
Oxide (alumina)	5 879	5 114	3 590	3 247	4 116	5 189	4 185	4 215	3 625	2 635
Hydroxide (b)	2 100	2 600	10 800	1 600	1 900	1 300	2 000	4 500	900	1 000
Fused Oxide (a)	11 489	10 270	8 402	6 269	6 675	8 617	8 703	6 711	7 185	5 607
Fluorides	10	5	22	476	499	67	60	62	359	382

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

Antimony

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Antimony										
<i>Imports</i>										
Ores & concentrates	24	33	11	25	25	77	208	82	16	12
Metal	68	120	257	280	375	472	1 216	1 439	2 127	2 380
Oxide	2 607	2 466	1 712	1 688	1 916	12 821	14 209	12 343	10 340	9 410
<i>Exports</i>										
Metal	77	57	237	425	525	903	781	2 082	3 076	4 245
Oxide	490	290	422	152	127	2 347	1 804	1 762	970	951

Arsenic

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Arsenic										
<i>Imports</i>										
Elemental	7	5	15	11	7	107	182	160	200	172
<i>Exports</i>										
Elemental	0	0	7	7	7	9	67	219	30	139

Asbestos

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Asbestos										
<i>Imports</i>										
Fabricated asbestos	28	32	15	13	12	1 106	847	502	393	247
Friction material with a basis of asbestos etc.	6 787	6 856	6 959	7 138	6 761	45 011	45 883	53 313	61 357	60 355
Articles of asbestos cement etc.	76 447	87 240	100 449	127 843	170 364	30 790	35 084	37 195	48 781	63 844
<i>Exports</i>										
Fabricated asbestos	79	106	117	163	75	964	1 312	1 410	2 104	1 673
Friction material with a basis of asbestos etc.	3 497	3 151	3 010	2 946	3 068	43 223	40 774	52 912	48 447	51 928
Articles of asbestos cement etc.	11 312	18 250	17 182	15 805	12 372	5 724	9 199	9 126	7 730	5 691

Asphalt, natural

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Asphalt, natural										
<i>Imports</i>	56 781	75 610	8 739	11 730	7 858	17 905	29 516	4 443	4 806	1 412
<i>Exports</i>	198 446	145 463	34 290	41 162	133 784	41 898	44 104	2 426	2 787	6 589

Ball clay

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Ball clay										
<i>Production (sales) (a)</i>	900 000	930 000	748 000	740 000	733 000					
<i>Imports</i>	12 938	8 039	8 433	6 848	6 256	2 146	2 105	2 814	2 362	2 418
<i>Exports</i>	697 037	704 337	566 709	560 843	555 049	41 403	43 437	36 925	37 582	35 939

(a) BGS estimate based on exports.

Barytes

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Barytes										
<i>Production</i>										
Barium minerals - Barytes	34 099	31 000	30 000	(a) 30 000	(a) 44 000					
<i>Imports</i>										
Barium minerals (b)	89 474	99 872	88 042	102 274	75 984	10 241	11 911	12 174	14 733	10 187
<i>Exports</i>										
Barium minerals (b)	17 851	15 648	19 072	13 854	13 550	4 315	4 285	6 079	5 304	4 970

(a) BGS estimate

(b) Mainly barites with some witherite.

Bauxite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Bauxite										
<i>Imports (a)</i>	41 650	41 497	33 925	41 256	34 299	14 147	14 689	12 748	12 395	11 631
<i>Exports (a)</i>	3 140	5 936	2 929	4 804	4 339	1 510	3 648	1 654	2 338	1 976

(a) Excluding refractory grade bauxite.

Bentonite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Bentonite										
<i>Imports</i>	141 849	200 332	183 343	173 094	151 570	13 755	16 924	14 181	14 860	12 687
<i>Exports</i>	41 323	38 478	39 535	37 694	31 347	13 058	12 865	12 402	11 834	10 724

Beryllium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Beryllium										
<i>Imports</i>										
Metal	24	45	35	4	25	3 644	1 175	1 627	2 037	872
Oxides and hydroxides	1	1 465	2	1	2	1	929	246	11	234
<i>Exports</i>										
Metal	5	7	3	0	3	279	379	223	158	180
Oxides and hydroxides	0	9	0	0	0	9	160	1	12	7

Bismuth

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Bismuth										
<i>Imports</i>										
Metal	366	411	481	441	321	3 704	5 426	5 471	5 135	4 336
<i>Exports</i>										
Metal	427	1 038	744	407	348	7 236	8 642	7 676	7 481	7 851

Boron

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Boron										
<i>Imports</i>										
Boron minerals (a)	2 383	2 425	2 563	2 576	4 515	671	674	1 960	891	1 236
<i>Exports</i>										
Boron minerals (a)	63	10	6	42	2	166	41	20	28	4

(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 (<https://www.gov.uk/government/statistics/building-materials-and-components-statistics-december-2015>)

Bromine

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Bromine										
<i>Imports</i>										
	5 788	9 486	7 817	6 834	5 932	5 737	9 096	8 568	8 533	6 474
<i>Exports</i>										
	781	1 473	1 378	646	751	1 888	2 344	2 340	1 094	1 249

Building and dimension stone

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Building and dimension stone										
<i>Production</i>										
Sandstone	741 000	333 000	365 000	281 000	286 000					
Igneous rock	(a) 600 000	(a) 200 000	165 000	(a) 165 000	159 000					
Limestone	(a) 700 000	(b) 204 000	(b) 487 000	(b) 477 000	(b) 585 000					
Dolomite	(a) 1 000	(c) ...	(c) ...	(c) ...	(c) ...					
Total	(a) 2 100 000	(a) 737 000	1 017 000	(a) 923 000	1 030 000					
<i>Imports</i>										
Unworked-										
Marble & other calcareous stone	21 339	20 655	17 548	13 660	10 388	15 556	14 965	11 446	11 229	9 835
Granite (d)	270 991	282 548	996 992	1 189 686	1 937 720	39 615	41 275	44 443	46 260	51 928
Sandstone	201 490	223 664	226 709	283 669	297 327	33 590	39 424	43 303	55 494	58 290
Other stone	63 655	62 604	58 822	52 779	92 460	12 299	11 689	11 641	11 068	15 107
Worked-										
Marble & other calcareous stone	92 078	88 210	99 130	87 454	82 157	59 417	53 335	63 383	58 785	55 139
Granite	95 792	93 900	90 446	91 555	99 354	69 242	66 748	66 718	68 971	66 801
Other stone	87 152	49 219	29 748	31 410	32 294	30 638	21 335	17 781	20 386	20 839
Paving stones and flagstones	181 584	167 497	126 670	107 253	141 694	34 691	31 735	22 907	19 402	28 2062
<i>Exports</i>										
Unworked-										
Marble & other calcareous stone	822	698	402	437	563	1 221	805	364	626	378
Granite	36 657	91 172	6 633	5 708	7 167	3 211	2 667	1 210	1 017	1 057
Sandstone	259	221	296	2 175	4 329	226	156	205	203	396
Other stone	540	251	164	1 358	178	134	88	67	442	70
Worked-										
Marble & other calcareous stone	1 332	965	1 224	919	1 367	3 310	1 967	2 322	2 337	4 226
Granite	1 449	709	1 128	749	1 025	2 031	1 330	1 305	1 354	2 323
Other stone	2 591	3 534	2 914	2 500	2 825	4 983	4 887	4 633	4 572	5 983
Paving stones and flagstones	4 640	12 467	4 745	7 469	8 830	1 379	2 238	1 202	1 948	3 364

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

Cadmium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Cadmium										
<i>Consumption</i>										
	72	83	83	83	137					
<i>Imports</i>										
Metal	470	542	229	304	346	1 424	963	376	487	600
Pigments	22	98	—	—	—	136	351	—	—	—
Oxide	309	281	169	182	241	988	575	391	345	536
<i>Exports</i>										
Metal	2 545	1 441	272	99	44	7 383	3 378	581	358	138
Pigments	774	640	—	—	—	10 217	9 989	—	—	—

Cement

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Cement										
<i>Production</i>										
Cement, clinker	6 598 000	7 096 000	6 555 000	6 712 000	7 197 000					
Cement, finished (a)	7 883 000	8 529 000	7 952 000	8 203 000	8 958 000					
<i>Cubic metres</i>										
Ready-mixed concrete	14 038 000	15 121 000	13 758 000	15 089 000	15 348 000					
<i>Tonnes</i>										
<i>Consumption (home deliveries)</i>										
Finished cement (a)(b)	7 767 000	8 318 000	7 728 000	8 204 000	8 751 000					
<i>Imports</i>										
Portland cement clinkers	201 308	208 595	206 086	290 071	981 457	20 789	19 940	25 741	33 679	49 970
Portland cement	1 759 841	1 746 862	1 429 848	1 776 713	2 314 549	101 408	100 775	78 664	97 890	127 928
Aluminous cement	14 779	18 157	24 948	15 558	15 415	4 889	5 598	7 426	4 621	4 969
Other cement	77 252	82 296	6 098	16 940	24 317	5 488	3 895	1 634	2 279	2 998
<i>Exports</i>										
Portland cement clinkers	5 500	15 531	31 458	24 056	21 059	1 313	2 763	1 979	925	3 557
Portland cement	134 223	121 537	239 058	85 405	68 225	13 357	13 921	11 852	10 124	9 262
Aluminous cement	50 689	55 727	70 622	67 704	64 748	23 800	27 368	32 112	30 736	29 641
Other cement	6 092	6 606	4 880	9 147	6 421	1 870	2 153	1 563	3 192	1 894

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

Chalk (see Limestone)

China clay

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
China clay										
<i>Production (sales) (a)</i>	1 140 000	1 290 000	1 150 000	1 110 000	1 090 000					
<i>Imports (b)</i>	82 927	102 396	88 505	85 534	92 426	17 361	18 818	15 802	15 335	14 998
<i>Exports (b)</i>	1 025 298	1 157 780	1 039 460	1 003 841	984 272	115 113	123 274	115 499	116 672	116 105

(a) BGS estimate based on exports.
 (b) Excludes HS code 2507 00 80 'Other kaolinitic clays' which are shown in this volume under Ball clay.

China stone (see Feldspar)

Chromium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Chromium										
<i>Apparent consumption (a)</i>	39 100	49 300	47 400	37 200	39 900					
<i>Consumption in Iron and Steel Industry (b)</i>	33 980	44 360	42 130	...	...			
<i>Imports</i>										
Ores & concentrates	7 084	10 572	9 124	10 033	8 111	1 901	3 305	2 919	2 800	2 057
Ferro-chrome										
Under 4% carbon	7 836	15 198	15 767	8 773	8 871	15 559	28 388	25 405	15 634	14 335
4%-6% carbon	50	1 705	49	50	...	37	1 197	188	55	...
Over 6% carbon	50 512	53 288	49 403	39 764	54 404	49 286	49 568	42 124	31 403	38 969
Ferro-silico-chrome	9	362	723	163	307	10	409	710	268	451
Oxides and hydroxides (c)	10 600	12 900	15 300	14 900	8 600	15 000	23 600	29 800	26 400	13 700
Metal	3 007	2 346	1 663	1 751	1 829	17 349	16 671	12 784	10 846	9 381
<i>Exports</i>										
Ores & concentrates	297	168	50	50	57	103	69	8	130	26
Ferro-chrome										
Under 4% carbon	187	326	387	301	372	765	1 978	1 427	1 663	1 569
4%-6% carbon	964	261	308	260	804	411	397	423	375	531
Over 6% carbon	1 252	1 266	1 593	1 547	2 361	1 851	1 877	2 138	2 227	3 055
Ferro-silico-chrome	22	364	72	168	362	43	268	155	386	741
Oxides and hydroxides	(d) 1 200	(d) 1 100	(d) 608	625	(d) 890	(d) 3 500	(d) 4 300	(d) 2 200	1 988	(d) 2 600
Metal	7 441	8 017	7 737	7 061	7 216	54 158	64 662	65 752	47 432	51 510

(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 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Clays										
<i>Production</i>										
Clay and shale	5 934 000	6 154 000	5 497 000	6 464 000	6 806 000					
<i>Imports</i>										
Unspecified clays	102 136	132 321	139 628	141 489	149 468	16 420	22 093	21 727	23 181	23 442
<i>Exports</i>										
Unspecified clays	14 138	71 216	105 919	101 659	161 079	3 591	4 384	7 456	8 137	15 009

Great Britain production of clay and shale by end-use 2000–2014

Thousand tonnes

Year	Bricks, pipes and tiles	Cement	Lightweight aggregate	Constructional use	Other uses	Total
2000	7 880	1 939	1	...	...	10 838
2001	7 574	1 884	33	625	(a) 310	10 426
2002	6 985	2 194	...	956	...	10 306
2003	7 090	2 215	...	1 181	...	10 680
2004	7 629	...	—	...	234	11 164
2005	7 741	1 937	—	798	422	10 898
2006	6 772	...	—	...	...	10 432
2007	6 869	2 348	—	785	102	10 104
2008	4 969	2 013	—	1 318	159	8 459
2009	2 797	1 397	—	998	118	5 310
2010	...	1 353	—	769	...	5 934
2011	3 983	1 474	—	561	136	6 154
2012	3 569	1 415	—	491	23	5 497
2013	4 088	1 440	—	839	97	6 464
2014	4 712	1 453	—	570	71	6 806

(a) BGS estimate.

Source: Office for National Statistics.

Coal

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Coal										
<i>Production</i>										
Bituminous (a)	18 347 000	18 552 000	16 967 000	12 767 000	11 648 000					
<i>Consumption</i>										
	51 324 000	51 507 000	64 042 000	60 425 000	48 500 000					
<i>Imports</i>										
Anthracite	187 246	193 474	29 186	23 059	111 197	22 711	21 111	6 313	5 222	14 729
Bituminous & Other	23 227 529	31 627 894	42 069 614	44 867 788	38 420 305	1 828 525	2 933 563	3 099 028	2 871 275	2 182 585
Total	23 414 775	31 821 368	42 098 800	44 890 847	38 531 502	1 851 236	2 954 674	3 105 341	2 876 497	2 197 314
Briquettes of coal	10 489	21 030	14 732	14 662	14 382	1 740	3 007	2 484	2 148	1 973
Lignite (including agglomerated)	777	888	1 132	1 685	1 510	231	150	393	614	54
<i>Exports</i>										
Anthracite	89 701	97 014	119 826	143 133	81 353	11 701	13 335	13 453	28 232	10 624
Bituminous & Other	615 067	502 581	417 654	456 259	343 800	73 176	64 111	58 042	62 157	46 813
Total	704 768	599 595	537 480	599 392	425 153	84 877	77 446	71 495	90 389	57 437
Briquettes of coal	88 351	116 416	150 140	106 133	108 328	15 783	18 713	39 433	19 589	20 074
Lignite (including agglomerated)	3 182	1 943	1 830	1 855	1 245	621	375	604	658	655

(a) Including anthracite.

Cobalt

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Cobalt										
<i>Consumption in Iron and Steel Industry (a)</i>										
	10	10	10	...	...			
<i>Apparent consumption (a)(b)</i>	3 700	4 400	4 200	1 500	2 100					
<i>Imports</i>										
Ore	143	124	125	137	151	669	378	236	253	269
Unwrought	5 023	5 137	5 446	4 475	3 920	72 415	62 556	57 997	53 585	50 547
Wrought	505	644	434	444	336	15 588	17 100	15 216	12 758	11 706
Oxides	198	256	164	180	160	2 825	2 890	1 882	2 044	2 073
Scrap	435	312	317	296	304	4 851	3 708	3 151	2 997	2 300
<i>Exports</i>										
Ore	2	5	8	22	9	49	57	47	43	124
Unwrought	730	843	676	732	615	21 691	25 144	17 997	17 954	17 476
Wrought	555	533	504	1 704	494	24 103	22 676	22 122	23 155	19 107
Oxides	1 267	820	1 179	1 493	1 434	23 040	14 261	17 051	20 856	19 498
Scrap	494	363	685	700	887	5 193	5 446	7 056	5 734	12 164

(a) Metal content.

(b) BGS estimates; see explanatory notes.

Coke and breeze

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Coke and breeze										
<i>Production</i>										
Coke oven - coke	3 990 000	4 021 000	3 712 000	3 769 000	3 601 000					
Coke oven - breeze	32 000	31 000	31 000	32 000	31 000					
<i>Consumption</i>										
Coke oven coke	2 619 000	2 331 000	2 729 000	3 358 000	3 199 000					
Breeze	805 000	753 000	772 000	1 069 000	1 070 000					
<i>Imports</i>										
Coke from coal	171 791	133 511	132 538	600 870	71 638	25 551	28 967	25 993	106 796	11 822
Coke from lignite	469	474	487	1 051	942	260	248	255	469	463
<i>Exports</i>										
Coke from coal	442 944	252 612	180 579	239 487	190 855	109 965	48 456	35 176	38 191	26 501
Coke from lignite	...	13	16	28	20	...	10	9	19	17

Copper

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Copper										
<i>Consumption</i>										
Unwrought-										
Refined	43 000	22 800	22 800	22 800	22 800					
Copper in scrap for direct use (a)	120 000	120 000	120 000	120 000	120 000					
<i>Imports</i>										
Ores & concentrates	189	125	194	113	248	968	884	1 213	239	187
Matte & cement	22	20	1	144	78	28	40	22	612	358
Scrap	27 495	29 010	27 214	25 055	28 243	81 565	91 261	70 330	67 485	68 275
Ash and residues	40	24	434	202	431	63	42	752	332	610
Unwrought-										
Unrefined	2 039	1 267	147	409	754	7 898	4 588	541	945	1 240
Refined	40 708	34 627	38 674	34 723	19 339	202 000	194 158	195 899	169 240	82 053
Alloys	5 379	5 095	5 723	5 934	4 475	19 914	24 681	30 326	24 426	17 500
Master Alloys	309	403	234	228	340	1 859	2 482	1 505	1 192	1 824
<i>Exports</i>										
Ores & concentrates	39	51	4	3	8	152	136	47	61	11
Matte & cement	33	36	18	31	34	218	370	276	491	338
Scrap	421 868	513 394	373 943	291 924	295 741	1 077 272	1 315 943	1 061 176	814 330	732 130
Ash and residues	541	660	906	106	1 228	451	418	1 361	42	3 352
Unwrought-										
Unrefined	185	194	647	206	201	2 896	3 571	5 762	3 486	3 352
Refined	8 863	17 951	24 498	17 332	997	43 952	97 471	124 507	83 752	4 698
Alloys	6 899	9 611	7 917	7 632	6 154	33 354	54 264	41 097	38 326	29 207
Master Alloys	5 883	7 261	7 524	6 677	6 918	26 087	38 143	36 884	31 318	29 394

(a) Estimate.

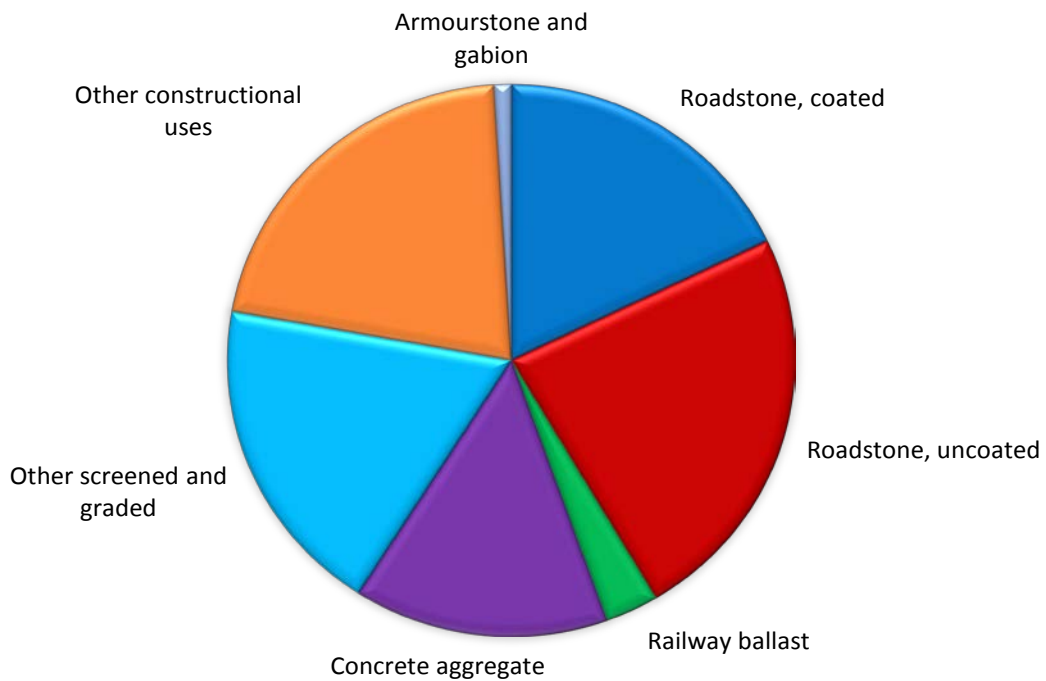
Crushed rock (see also Aggregates)

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Crushed rock										
<i>Production (a)</i>	94 203 000	(b) 102 800 000	(b) 94 800 000	(b) 94 300 000	(b) 103 600 000					
<i>Imports (c)</i>	1 896 201	1 705 153	1 273 059	430 464	381 694	30 740	36 384	22 718	19 243	21 191
<i>Exports</i>	4 910 701	5 387 038	4 251 427	4 896 911	4 966 129	36 490	40 856	32 165	37 802	46 097

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

Great Britain production of crushed rock by end-use 2014 (total production 98.4 million tonnes)



Great Britain production of crushed rock by region 1980–2014

Thousand tonnes

Year	North East (a)	North West (b)	Yorks. & the Humber	West Midlands	East Midlands	East of England (c)	South East (d)	South West	England	Wales	Scotland	Great Britain
1980	9 948	4 951	10 714	7 364	15 996	658	1 114	21 934	72 679	15 998	13 586	102 533
1981	8 677	4 504	9 442	6 713	15 854	534	961	18 763	65 450	14 249	11 681	91 381
1982	9 362	4 779	10 108	8 181	17 237	537	1 112	21 175	72 492	16 754	13 602	102 848
1983	8 978	5 311	11 481	9 192	19 206	...	...	23 178	79 541	18 835	13 706	112 082
1984	9 668	5 116	9 557	8 861	19 142	...	...	25 107	79 650	16 965	14 063	110 678
1985	9 823	5 330	9 444	8 589	21 429	674	1 404	26 510	83 203	17 423	14 370	114 995
1986	9 861	5 469	11 201	8 780	23 038	500	1 597	29 194	89 640	17 881	14 844	122 365
1987	10 375	5 328	15 407	10 015	26 355	772	1 601	34 443	104 296	20 950	16 990	142 237
1988	11 453	6 849	14 885	12 519	32 026	853	2 589	39 108	120 283	23 102	17 629	161 014
1989	13 497	7 078	16 895	12 519	32 646	611	3 254	37 589	124 088	23 581	21 125	168 794
1990	14 602	7 533	15 449	11 047	34 143	709	1 320	33 073	117 875	22 646	21 094	161 615
1991	13 378	6 320	14 269	10 009	29 862	676	1 625	28 037	104 177	22 123	21 707	148 007
1992	12 669	5 899	12 812	8 783	29 879	...	...	28 564	100 553	21 482	21 932	143 967
1993	12 724	6 748	12 734	8 225	31 522	625	1 168	29 848	103 595	23 237	22 743	149 576
1994	13 365	7 892	15 576	8 839	33 713	1 705	1 433	32 141	114 665	24 346	22 746	161 757
1995	10 930	8 077	15 664	...	31 881	629	...	27 419	103 475	23 139	24 224	150 838
1996	10 385	6 448	12 350	6 514	29 001	595	1 210	22 940	89 444	21 273	22 177	132 894
1997	10 619	7 086	12 484	6 416	29 925	536	1 352	23 117	91 535	20 585	21 667	133 787
1998	10 246	6 348	13 745	6 028	26 933	607	1 358	23 411	88 675	19 903	23 138	131 716
1999	9 298	5 829	11 689	5 996	30 724	575	1 343	23 183	88 637	20 429	23 531	132 598
2000	5 441	10 381	11 748	5 533	28 679	475	1 624	24 146	88 027	19 044	23 236	130 307
2001	6 338	9 601	11 718	5 688	30 780	452	1 984	28 067	94 630	17 765	21 364	133 759
2002	5 390	9 426	11 620	5 835	29 604	372	1 068	24 332	87 647	16 724	22 198	126 568
2003	6 081	8 887	10 652	5 538	28 443	(e) 350	(e) 1 008	22 998	83 957	16 837	22 092	122 885
2004	6 455	9 182	11 457	4 861	28 445	423	1 351	23 479	85 653	16 528	25 494	127 674
2005	5 333	7 993	10 875	4 416	27 468	238	1 090	23 180	80 593	16 535	24 732	121 860
2006	5 352	8 996	10 811	4 824	29 658	496	1 059	22 526	83 722	18 429	24 744	126 895
2007	5 482	9 351	10 834	4 750	28 530	591	1 011	22 374	82 922	18 487	28 168	129 577
2008	4 928	7 962	10 045	3 850	24 328	683	1 029	22 355	75 179	15 685	24 215	115 079
2009	3 194	5 629	6 868	2 808	21 575	(e) 289	1 085	18 218	59 666	10 542	20 895	91 103
2010	3 354	4 329	6 681	2 927	17 036	274	800	14 715	50 115	11 001	21 193	82 309
2011	3 400	...	...	...	20 670	...	...	...	57 744	12 034	21 151	90 928
2012	...	...	...	...	...	...	...	...	52 980	10 901	19 004	82 885
2013	2 763	...	...	...	18 647	...	...	16 538	53 417	11 706	17 310	82 433
2014	...	...	...	...	...	...	...	...	63 835	14 830	19 759	98 423

(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 by end-use 1999–2014

Thousand tonnes

Year	Roadstone					Fill	Concrete aggregate	Other screened & graded	Other constructional uses	Armour-stone & gabion	Total
	Coated	Uncoated	Surface dressing chippings	Railway ballast							
1999	22 260	38 114	...	(a) 2 196	49 948	20 080	...	...	...	132 598
2000	21 785	36 509	...	(a) 2 189	51 228	18 595	...	...	...	130 307
2001	23 340	34 638	...	(a) 2 682	44 543	28 553	...	...	...	133 759
2002	23 281	27 323	...	3 514	46 109	26 342	...	...	...	126 568
2003	23 139	28 950	...	(a) 2 895	39 313	28 522	...	...	...	122 885
2004	18 721	25 260	3 787	3 832	—	21 231	21 016	33 492	333	127 674	
2005	20 136	25 902	2 693	3 403	—	16 876	20 949	31 360	540	121 860	
2006	21 367	27 234	2 331	3 543	—	19 863	21 140	30 721	696	126 895	
2007	20 503	27 983	2 136	3 904	—	24 658	19 367	30 244	781	129 577	
2008	19 517	25 649	1 204	3 408	—	22 995	15 036	26 555	713	115 079	
2009	16 709	21 722	1 252	2 556	—	19 593	12 356	16 234	681	91 103	
2010	17 104	20 674	1 343	2 158	—	17 039	11 056	12 320	614	82 309	
2011	19 360	18 199	2 480	1 421	—	16 799	16 063	14 988	1 620	90 928	
2012	16 262	16 001	1 391	2 454	—	15 744	12 572	17 741	720	82 885	
2013	15 502	16 200	936	2 600	—	13 211	15 011	18 393	581	82 433	
2014	17 597	22 179	1 063	2 990	—	14 279	18 509	20 831	976	98 423	

(a) BGS estimate.

Source: Office for National Statistics.

Great Britain production of crushed rock, gravel and sand for use in concrete, 2002–2014

Thousand tonnes

Year	Sandstone	Igneous rock	Limestone and dolomite	Gravel (a)	Concreting sand (a)	Total
2002	1 483	4 747	20 112	27 699	31 224	85 265
2003	1 778	6 613	20 197	26 566	31 521	86 675
2004	1 214	5 086	14 931	27 533	32 529	81 293
2005	551	3 755	12 571	26 014	29 848	72 739
2006	496	5 548	13 819	25 354	29 815	75 032
2007	1 529	7 147	15 981	23 621	30 202	78 480
2008	914	6 597	15 484	18 787	26 885	68 667
2009	1 116	5 741	12 737	14 452	21 570	55 616
2010	859	5 264	10 915	13 494	20 947	51 479
2011	658	5 523	10 618	14 103	22 591	53 493
2012	973	4 220	10 552	12 592	19 697	48 034
2013	467	3 558	9 186	12 396	20 361	45 968
2014	710	3 883	9 686	13 046	22 335	49 660

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

Source: Office for National Statistics.

Great Britain production of crushed rock for use as roadstone, 2002–2014

Thousand tonnes

Year	Sandstone		Igneous rock		Limestone and dolomite		Total	
	Coated	Uncoated	Coated	Uncoated	Coated	Uncoated	Coated	Uncoated
2002	3 402	1 689	11 023	10 326	8 858	15 308	23 281	27 323
2003	3 586	1 741	11 019	10 764	8 533	16 455	23 138	28 950
2004	3 689	(a) 1,698	10 392	(a) 11,318	4 640	(b) 14,558	18 721	(a) 29,047
2005	3 526	(b) 1,452	7 832	(a) 11,168	8 777	(b) 14,195	20 136	(a) 28,595
2006	2 858	(a) 1,850	9 571	(a) 11,478	8 937	(a) 16,237	21 367	(a) 29,565
2007	3 185	(a) 1,751	9 349	(a) 11,838	7 968	(a) 16,530	20 503	(a) 30,119
2008	2 835	(b) 1,109	8 794	(a) 13,155	7 888	(b) 11,960	19 517	(a) 26,853
2009	3 272	(a) 1,482	7 192	(b) 10,021	6 245	(b) 10,572	16 709	(a) 22,974
2010	3 243	(b) 1,265	8 281	(a) 10,815	5 580	(b) 9,234	17 104	(a) 22,017
2011	3 768	(a) 1,865	9 113	(a) 10,691	6 479	(a) 8,123	19 360	(a) 20,679
2012	3 326	(a) 1,531	7 587	(a) 8,212	5 252	(a) 7,649	16 165	(a) 17,392
2013	3 019	(a) 1,307	8 267	(a) 8,295	4 215	(a) 7,533	15 502	(a) 17,136
2014	4 127	(a) 1,361	8 914	(a) 9,361	4 554	(a) 12,520	17 595	(a) 23,242

(a) Including surface dressing chippings.

Source: Office for National Statistics.

(b) Excluding surface dressing chippings.

Great Britain production of crushed rock for railway ballast, 2002–2014

Thousand tonnes

Year	Sandstone	Igneous rock	Limestone and dolomite	Total
2002	190	3 324	—	3 514
2003	...	2 669	...	(a) 2 895
2004	...	3 074	...	3 832
2005	...	3 072	...	3 403
2006	...	3 102	...	3 543
2007	...	3 372	...	3 904
2008	157	...	...	3 408
2009	—	...	...	2 556
2010	...	2 154	...	2 158
2011	...	1 417	...	1 421
2012	—	2 312	142	2 454
2013	39	2 561	0	2 600
2014	—	2 989	...	2 989

(a) BGS estimate.

Source: Office for National Statistics.

England production of crushed rock by end-use 2002–2014

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	
2002	17 002	18 179	...	...	33 611	18 855	...	...	...	87 647
2003	16 511	18 625	...	...	28 545	20 275	...	...	...	83 957
2004	11 995	17 564	2 156	2 243	...	15 300	12 388	23 867	179	85 692
2005	13 194	17 208	1 426	1 871	...	12 494	11 676	22 474	248	80 593
2006	14 504	18 551	1 104	1 933	...	14 818	11 268	21 133	411	83 722
2007	12 865	19 370	889	2 322	...	16 211	12 103	18 717	443	82 922
2008	13 201	16 582	845	2 248	...	16 928	7 756	17 167	450	75 179
2009	11 087	13 376	752	...	...	14 735	7 077	10 384	...	59 666
2010	10 599	11 833	909	...	...	11 687	5 900	7 170	...	50 115
2011	12 626	9 572	2 045	1 033	...	12 259	10 067	8 872	1 269	57 744
2012	...	8 840	975	...	...	11 739	6 988	11 331	395	52 980
2013	...	10 026	705	...	...	9 348	9 371	11 378	...	53 417
2014	...	...	...	...	...	...	...	13 430	...	63 835

Source: Office for National Statistics.

Wales production of crushed rock by end-use 2002–2014

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	
2002	3 340	1 938	...	...	6 508	4 937	...	...	...	16 724
2003	3 039	2 514	...	...	5 640	5 644	...	...	...	16 837
2004	2 856	1 871	...	...	...	3 733	2 469	4 351	...	16 528
2005	3 737	2 007	...	...	...	2 117	2 927	4 478	83	16 535
2006	3 853	1 972	...	...	...	2 514	2 954	5 813	85	18 429
2007	3 351	2 121	...	...	...	3 335	2 678	5 662	74	18 487
2008	...	1 757	250	...	...	3 087	1 642	5 057	45	15 685
2009	3 267	1 830	192	...	...	2 317	773	2 044	...	10 542
2010	3 224	1 695	218	...	...	2 112	1 198	2 446	...	11 001
2011	3 665	1 339	275	...	...	2 237	2 141	2 202	...	12 034
2012	3 164	1 218	...	...	...	...	2 074	2 166	...	10 901
2013	10 599	10 599	10 599	10 599	10 599	10 599	2 682	2 557	...	11 706
2014	...	4 670	...	...	...	2 102	2 584	2 731	...	14 830

Source: Office for National Statistics.

Scotland production of crushed rock by end-use 2001–2014

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	
2002	2 939	7 206	...	...	9 503	2 550	...	...	...	22 198
2003	3 589	7 812	...	...	8 023	2 669	...	...	...	22 092
2004	3 910	5 825	...	...	...	2 198	6 159	5 274	...	25 494
2005	3 204	6 687	...	...	...	2 266	6 346	4 408	208	24 732
2006	3 008	6 711	...	...	...	2 531	6 918	3 776	200	24 744
2007	4 286	6 492	...	...	...	5 111	4 586	5 865	264	28 168
2008	...	7 310	109	...	...	2 981	5 639	4 331	218	24 215
2009	2 355	6 516	308	...	...	2 541	4 506	3 805	...	20 895
2010	3 282	7 146	217	...	...	3 239	3 959	2 704	...	21 193
2011	3 069	7 288	159	...	...	2 303	3 855	3 914	...	21 151
2012	...	5 943	...	...	...	...	3 510	4 244	...	19 004
2013	...	...	...	...	...	...	2 959	4 457	199	17 310
2014	2 408	4 972	...	...	...	2 537	3 716	4 670	...	19 759

Source: Office for National Statistics.

Diamond

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Carats					£ thousand				
Diamond										
<i>Imports</i>										
Unsorted Gem-	8 703 907	8 484 526	9 238 531	12 754 564	14 833 453	1 228 713	1 248 369	1 135 227	823 603	497 713
Rough	40 559 260	38 472 604	33 227 748	29 495 262	823 336	2 747 423	3 539 213	2 881 539	2 556 982	29 271
Cut	761 455	18 292 931	7 009 031	1 494 267	5 254 159	826 271	971 820	1 022 427	833 250	934 982
Industrial	7 299 364	10 236 376	7 747 613	6 399 457	4 270 299	30 724	20 976	94 825	29 588	20 464
Dust	111 136 020	32 411 894	26 886 717	25 157 153	25 481 253	10 624	11 281	9 194	10 678	9 595
<i>Exports</i>										
Unsorted Gem-	3 689 202	2 735 369	2 974 099	11 165 256	14 606 086	710 750	620 529	251 285	469 959	492 070
Rough	51 769 860	41 541 219	46 117 478	34 651 963	581 879	3 417 622	4 336 731	4 464 586	3 164 872	30 818
Cut	283 435	1 292 162	1 702 424	284 182	470 026	772 743	702 987	805 995	645 403	681 894
Industrial	2 478 568	3 864 054	3 949 553	2 001 018	2 430 399	21 248	25 685	24 931	19 219	15 236
Dust	113 451 535	42 269 921	32 288 331	28 709 324	19 103 486	14 191	13 864	12 113	13 094	12 195

Diatomite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Diatomite										
<i>Imports (a)</i>										
	18 649	20 042	19 752	19 713	25 542	5 348	5 340	5 025	5 243	6 686
<i>Exports (a)</i>										
	1 650	797	659	497	734	424	814	508	437	334

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

Dolomite (see Limestone)

Feldspar

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Feldspar										
<i>Imports</i>										
Feldspar	17 584	16 750	21 610	24 568	19 154	1 813	1 964	3 432	3 113	3 002
Nepheline-syenite	39 092	35 573	30 744	36 080	33 646	4 038	4 475	3 128	3 272	3 233
<i>Exports</i>										
Feldspar	38	34	92	84	118	20	19	65	43	71
Nepheline-syenite	291	337	403	311	288	83	101	116	96	54

Fireclay

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Fireclay										
<i>Production (a)</i>	110 000	162 000	96 000	105 000	129 000					
<i>Imports</i>										
Fireclay	2 644	1 739	2 823	4 142	3 076	661	346	710	1 289	899
Fireclay bricks etc	2 103	2 148	1 893	2 745	2 882	1 552	1 972	1 135	2 143	2 487
Refractory hollow-ware	1 622	2 009	2 068	2 071	1 977	3 614	4 761	4 623	5 795	5 630
<i>Exports</i>										
Fireclay	9	26	1 151	1 022	1 303	24	29	608	596	704
Fireclay bricks etc	2 587	2 198	3 077	2 244	2 519	3 093	3 344	4 663	2 729	2 538
Refractory hollow-ware	890	1 354	1 082	688	662	13 212	16 802	15 724	12 855	14 081

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

Fluorspar

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Fluorspar										
<i>Production</i>	26 420	—	—	16 000	25 000					
<i>Imports</i>	1 294	45 327	19 739	(a) 15 600	(a) 12 100	599	7 568	3 857	(a) 2 600	(a) 2 300
<i>Exports</i>	412	590	75	16 127	49 078	1 345	165	163	3 512	6 513

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

Gas, natural (see Petroleum)

Germanium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Germanium										
<i>Imports</i>										
Metal	2	1	1	1	2	539	1 161	456	310	515
<i>Exports</i>										
Metal	2	2	0	1	92	465	1 351	363	589	757

Gold

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Gold										
<i>Production (a)</i>	0	0	0	0	—					
<i>Imports</i>										
Waste & scrap	66	71	165	102	72	90 993	112 737	97 797	81 929	101 386
Unwrought (b)	791	1 000	979	23	70	19 875 910	25 100 889	32 868 462	661 744	1 723 487
Semi-manufactured	10	13	75	311	427	193 170	357 787	2 406 462	9 055 726	10 601 342
<i>Exports</i>										
Waste & scrap	497	273	1 928	388	726	1 534 257	1 460 031	1 146 245	692 538	445 203
Unwrought (b)	260	752	221	37	216	6 309 575	23 027 896	7 353 165	1 139 800	5 309 000
Semi-manufactured	33	23	45	1 701	730	428 307	636 654	1 362 000	49 447 489	17 511 501

(a) Small quantities have been produced in Northern Ireland as follows:

2010: 177 kilograms; 2011: 202 kilograms; 2012: 102 kilograms;

2013: 42 kilograms; There was no production in 2014.

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

Granite (see Igneous rock)

Graphite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Graphite										
<i>Imports</i>										
Natural graphite	6 989	6 869	4 114	4 951	5 277	5 468	6 377	4 498	5 245	4 905
Artificial graphite	16 290	20 236	20 959	19 373	14 656	21 622	26 240	28 727	23 586	20 056
Graphite crucibles etc	782	689	564	698	272	2 878	2 535	1 771	3 191	1 781
<i>Exports</i>										
Natural graphite	2 981	3 660	2 196	2 011	1 608	3 032	4 182	3 255	3 205	2 644
Artificial graphite	6 894	8 151	7 827	7 994	(a) 7 800	14 909	15 167	13 215	12 477	(a) 11 800
Graphite crucibles etc	6 548	7 784	7 287	6 128	779	17 750	17 750	16 316	13 684	4 514

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

Gypsum

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Gypsum										
<i>Production</i>										
Gypsum, natural (a)	1 200 000	1 200 000	1 200 000	1 200 000	1 200 000					
<i>Imports</i>										
Gypsum	216 605	539 327	490 661	376 972	516 377	6 957	7 284	8 118	8 027	7 379
Gypsum (plasters)	54 209	46 526	47 545	33 620	41 106	12 728	11 655	11 614	9 028	11 797
<i>Exports</i>										
Gypsum	3 330	3 428	4 036	4 745	4 296	1 128	1 035	1 138	1 422	1 505
Gypsum (plasters)	24 552	25 504	21 216	19 481	19 957	7 953	9 169	9 174	7 396	8 035

(a) BGS Estimates.

Hafnium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Hafnium										
<i>Imports</i>										
	12	16	8	6	11	3 000	2 294	1 275	1 400	1 924
<i>Exports</i>										
	15	11	9	11	12	1 036	251	310	495	540

Igneous rock

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Igneous rock – see also Building and dimension stone										
<i>Production</i> (a)	44 876 000	(b) 44 400 000	(b) 40 200 000	(b) 40 500 000	(b) 43 700 000					
<i>Imports</i>										
Granite-										
Worked	95 792	93 900	90 446	91 555	99 354	69 242	66 748	66 718	68 971	66 801
Unworked	270 991	282 548	996 992	1 189 686	1 937 720	39 615	41 275	44 443	46 260	51 928
<i>Exports</i>										
Granite-										
Worked	1 449	709	1 128	749	1 025	2 031	1 330	1 305	1 354	2 323
Unworked	36 657	91 172	6 633	5 708	7 167	3 211	2 667	1 210	1 017	1 057

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

(b) Includes an estimate for Northern Ireland.

England production of igneous rock by end-use 2002–2014

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
2002	12	2 778	4 872	3 477	...	1 612	2 110	...	7 028	...	...	—	21 889
2003	28	2 974	4 066	3 185	...	1 701	3 458	...	6 460	...	...	5	21 878
2004	12	2 868	1 473	3 722	938	1 779	2 623	3 493	3 203	60	3	...	20 174
2005	18	2 571	1 699	3 619	449	...	1 457	4 105	3 727	86	...	...	20 576
2006	20	...	3 418	4 071	...	...	2 961	3 277	3 492	...	...	...	22 076
2007	28	2 539	...	4 692	323	...	...	4 621	...	...	...	...	21 865
2008	22	...	2 313	5 410	342	...	3 605	1 717	2 747	79	...	...	21 056
2009	...	2 925	1 334	4 167	318	...	3 198	1 949	1 653	...	...	...	17 846
2010	...	2 364	2 037	3 455	364	...	2 041	1 499	1 632	192	...	...	17 460
2011	...	1 840	3 393	2 130	1 433	...	3 165	1 670	1 541	1 110	...	...	17 428
2012	...	1 249	...	1 981	475	...	2 225	839	3 528	121	...	...	15 646
2013	...	985	4 363	3 761	338	...	1 794	1 156	2 993	...	...	...	17 569
2014	...	1 430	4 732	4 509	385	...	1 590	1 121	3 134	...	...	...	19 156

Source: Office for National Statistics.

Wales production of igneous rock by end-use 2002–2014

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
2002	9	375	366	241	...	219	396	...	506	...	...	—	2 111
2003	5	375	257	327	...	—	...	...	...	...	...	—	2 507
2004	3	477	179	209	...	...	357	...	391	10	—	...	2 295
2005	2	427	...	314	...	...	117	492	347	...	—	...	2 364
2006	...	...	...	243	...	...	156	452	412	...	—	...	2 596
2007	15	377	...	256	...	...	...	483	...	...	—	...	2 474
2008	13	...	...	246	...	...	...	603	405	...	...	...	3 028
2009	7	325	...	227	...	...	167	151	426	...	—	...	1 932
2010	...	330	540	236	90	...	216	112	677	...	...	...	2 294
2011	...	412	616	247	...	...	232	140	490	82	...	...	2 450
2012	—	323	530	191	...	...	...	120	333	...	—	...	1 769
2013	...	316	292	102	6	...	156	257	756	...	—	...	1 905
2014	3	317	329	129	...	...	155	305	889	...	...	...	2 189

Source: Office for National Statistics.

Scotland production of igneous rock by end-use 2002–2014

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
2002	196	1 595	1 037	6 608	...	1 494	2 241	...	7 332	...	...	40	20 543
2003	179	2 101	1 246	7 251	...	967	...	...	...	...	...	308	20 920
2004	171	2 485	1 090	5 568	...	...	2 107	...	4 552	92	—	...	23 724
2005	130	1 993	...	6 322	...	1 036	2 181	6 147	3 866	175	—	...	23 052
2006	...	1 685	...	6 332	230	1 107	2 431	6 754	3 291	173	—	...	23 194
2007	...	1 847	2 153	6 163	...	1 077	4 982	4 399	5 214	251	...	...	26 345
2008	244	1 580	...	6 924	...	...	...	5 298	3 999	198	...	...	22 925
2009	...	1 636	...	5 627	272	...	2 376	4 292	3 435	207	...	...	19 082
2010	552	2 512	499	6 483	186	...	3 007	3 693	2 187	...	...	...	19 684
2011	94	1 452	1 399	6 626	...	...	2 126	3 599	3 242	136	...	...	19 113
2012	...	1 126	...	5 331	...	...	...	3 261	3 815	...	...	...	17 384
2013	...	962	1 349	3 997	91	...	1 608	2 699	4 088	175	...	...	15 623
2014	...	823	1 283	4 184	...	...	2 138	3 126	3 919	333	...	...	16 939

Source: Office for National Statistics.

Insulating materials

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Insulating materials										
<i>Imports</i>										
Mineral wools (a)	24 427	20 908	18 501	20 123	16 714	33 505	32 446	31 247	29 919	33 832
Expanded minerals (b)	47 121	59 198	60 737	33 566	14 799	7 137	9 330	11 354	9 534	7 413
Other (c)	37 361	38 030	38 279	35 501	46 884	40 172	41 701	44 394	45 222	66 044
<i>Exports</i>										
Mineral wools (a)	35 500	44 328	37 334	39 865	75 644	52 257	60 566	51 211	54 003	76 677
Expanded minerals (b)	14 174	16 777	15 078	13 768	13 953	17 959	19 333	23 484	23 847	24 759
Other (c)	56 989	64 551	73 014	60 269	66 887	74 706	84 958	91 697	83 215	84 766

(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 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Iodine										
<i>Imports</i>										
	1 254	1 426	1 573	1 136	1 129	16 854	18 464	36 345	27 542	19 288
<i>Exports</i>										
	393	234	370	191	305	2 922	5 760	13 575	6 177	4 802

Iron compounds and earth colours

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Iron compounds and earth colours										
<i>Imports</i>										
Earth colours containing 70% or more ferric oxide	210	247	108	98	374	147	324	196	155	498
Other iron compounds-Oxides and hydroxides	21 516	19 187	21 081	28 448	35 355	21 396	19 697	19 623	22 007	26 492
<i>Exports</i>										
Earth colours containing 70% or more ferric oxide	68	159	74	49	183	100	190	120	87	219
Other iron compounds-Oxides and hydroxides	5 070	4 825	5 203	5 956	8 834	7 582	6 474	6 122	7 785	7 677

Iron ore

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Iron ore										
<i>Consumption</i>	10 572 200	9 734 800	10 510 900	14 034 200	14 352 900					
<i>Imports</i>										
Iron ore	10 597 085	9 175 254	10 062 173	14 136 967	14 468 932	912 896	990 550	829 922	1 133 300	904 485
Fe content (a)	6 400 000	5 500 000	6 000 000	8 500 000	8 700 000					
<i>Exports</i>										
Iron ore	5 228	179 699	108 399	71 801	3 842	634	14 379	6 798	4 298	3 301

(a) BGS estimates.

Iron and steel

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Iron and steel										
<i>Production</i>										
Pig iron	7 233 000	6 625 000	7 183 100	9 471 000	9 705 000					
<i>Crude steel-</i>										
Alloy qualities	506 600	642 400	587 300	554 700	616 400					
Other	9 201 400	8 835 600	8 991 800	11 302 800	11 503 600					
Total	9 708 000	9 478 000	9 579 100	11 857 500	12 120 000					
<i>Consumption</i>										
Pig iron (a)	7 088 000	6 610 000	7 325 000	9 909 000	9 758 000					
Finished steel (b)	8 779 000	9 046 000	8 621 000	7 975 000	9 924 000					
Scrap	3 713 100	3 890 300	3 674 500	4 084 600	4 063 300					
<i>Imports</i>										
Pig iron	41 959	69 095	55 845	38 057	52 780	13 167	27 613	23 427	14 344	18 225
Shot, powder, sponge etc	97 745	160 969	194 237	49 095	28 660	31 682	46 342	72 867	37 791	34 841
Ferro-alloys	208 817	225 819	212 787	216 722	235 941	246 459	285 036	255 107	232 815	261 001
<i>Iron and steel-</i>										
Ingots and other primary forms	714 541	1 185 242	835 691	443 657	340 628	393 571	636 490	481 840	262 865	240 495
Scrap	270 986	423 744	284 986	302 580	351 436	160 388	192 405	131 687	104 908	113 335
<i>Exports</i>										
Pig iron	4 339	2 074	3 775	1 652	1 758	3 351	2 685	1 348	1 147	1 619
Shot, powder, sponge etc	41 899	46 893	53 268	57 491	50 745	43 965	56 120	63 469	62 972	57 809
Ferro-alloys	45 314	43 918	49 357	47 949	47 413	240 287	273 119	252 143	220 673	240 999
<i>Iron and steel-</i>										
Ingots and other primary forms	1 137 160	668 885	1 817 820	3 164 861	3 197 397	818 397	885 788	1 061 356	1 439 914	1 424 193
Scrap	7 507 853	7 744 411	7 160 639	6 777 534	6 934 918	1 944 946	2 408 014	2 076 913	1 820 752	1 711 018

(a) Consumption in steel making only.

(b) Net home disposals.

Consumption in the United Kingdom iron and steel industry 2005–2014

Thousand tonnes

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Iron ore –										
Home produced (a)	0	0	0	0	—	—	—	—	—	—
Imported (b)	15 990	16 539	16 607	15 338	11 171	10 572	9 735	10 511	14 034	14 353
Manganese ore	3	6	3	4	21	—	—	—	3	—
Iron and steel scrap (f)	4 531	4 811	5 144	4 888	3 459	3 713	3 890	3 675	4 085	4 063
Pig iron (f)	9 983	10 444	10 729	9 931	7 540	7 088	6 610	7 325	9 909	9 758
Alloy metals (c) –										
Nickel	14	13	12	12	8	10	12	10	...	...
Molybdenum	2	2	2	3	1	1	2	2	...	...
Tungsten	0	0	0	0	0	0	0	0	...	...
Vanadium	0	0	0	0	0	0	0	0	...	...
Cobalt	0	0	0	0	0	0	0	0	...	...
Chromium	52	55	61	69	24	34	44	42	...	...
Niobium	0	0	0	1	0	0	0	0	...	...
Ferro-alloys –										
Ferro-manganese	92	97	100	94	70	67	66	66	...	...
Ferro-silico-manganese	22	24	24	23	17	16	16	16	...	...
Ferro-aluminium	3	3	3	3	2	2	2	2	...	...
Ferro-chromium	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	...	...
Ferro-silico-chromium	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	...	...
Ferro-silicon	36	38	39	37	27	26	26	26	...	...
Ferro-silico-zirconium	0	0	0	0	0	0	0	0	...	...
Calcium silicide	0	0	0	0	0	0	0	0	...	...
Ferro-phosphorus	1	1	1	1	1	1	1	1	...	...
Ferro-niobium	(d)	(d)	(d)	(d)	(d)	(d)	(d)	(d)	...	...
Ferro-titanium	1	1	1	1	1	1	1	1	...	...
Dolomite (raw and burnt) (e)	243	445	474	420	369	399	344	556	759	796
Limestone (e)	1 951	2 028	1 822	1 664	1 095	948	932	912	1 147	1 255
Lime (e)	593	631	585	496	378	371	395	379	387	466
Zinc for galvanising	57	60	58	52	41	49	48	42	...	...
Tin for tinplating	3	2	3	3	2	3	2	2	...	...

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

(c) Metal content.

(d) Included under alloying metals.

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

(f) Consumption in steel making only.

Source: Iron and Steel Statistics Bureau.

Lead

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Lead										
<i>Production</i>										
Concentrate-										
Pb content	(a)(b) 380	(c) 280	(c) 61	(a)(b) 100	(b)(d) 100					
Unwrought-										
Bullion	36 000	36 000	36 000	36 000	36 000					
Refined										
Primary (e)	151 000	125 000	156 930	174 200	110 000					
Secondary	150 000	150 000	155 000	155 000	157 000					
<i>Consumption</i>										
Refined	211 165	210 927	229 044	273 963	207 548					
<i>Imports</i>										
Ores & concentrates	23	47	121	0	2 048	42	51	205	1	2 342
Ash and residues	186	345	123	—	18	153	302	94	—	15
Unwrought										
Unrefined-										
Base bullion (f)	151 653	127 691	168 669	145 762	94 990	297 843	323 923	312 933	295 977	168 773
Other	0	133	1	253	0	41	256	4	426	8
Refined	14 359	18 468	19 605	25 153	35 146	18 682	28 354	26 175	35 885	47 424
Alloys	787	1 287	1 331	1	62	1 681	2 678	2 127	3	258
Scrap	8 858	4 792	3 317	4 169	7 236	9 957	5 430	3 361	4 598	8 312
<i>Exports</i>										
Ores & concentrates	11	84	13	31	666	37	146	35	68	455
Ash and residues	982	852	760	420	1 489	560	547	478	387	1 988
Unwrought										
Unrefined-										
Base bullion	21	822	1 993	926	...	40	1 398	2 956	1 602	...
Other	1 226	65 046	69 975	68 847	55 611	1 635	113 204	106 242	114 849	84 620
Refined	103 988	79 009	97 771	74 945	91 654	152 672	124 734	135 417	112 151	133 247
Alloys	62 406	4 820	6 050	5 521	3 006	97 889	7 606	8 659	8 140	4 226
Scrap	69 404	74 789	57 990	53 746	56 432	74 457	90 421	61 951	61 674	59 158

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

(b) BGS estimate.

(c) By-product of gold mining in Northern Ireland.

(d) By-product of Pennine fluorspar operations.

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

(f) Containing substantial quantities of silver.

Limestone, dolomite and chalk

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Limestone										
<i>Production</i>										
Limestone	56 985 000	(a) 58 100	(a) 54 800 000	(a) 56 900 000	(a) 66 300 000					
Dolomite	4 540 000	4 490 000	4 896 000	3 432 000	3 730 000					
<i>Imports</i>										
Limestone flux (b)	14 954	5 187	6 511	5 784	18 893	1 758	1 729	2 060	915	1 325
Lime	9 883	16 305	13 513	10 789	12 872	1 627	2 356	2 067	1 866	2 351
Dolomite	149 695	144 281	105 741	206 405	198 084	4 961	5 675	3 963	7 695	5 727
<i>Exports</i>										
Limestone flux (b)	225 551	250 651	213 229	267 649	276 336	3 161	3 442	2 446	2 552	2 930
Lime	106 075	157 690	140 234	153 202	133 357	13 442	17 946	18 658	19 423	18 773
Dolomite (c)	102 500	240 400	279 200	238 300	210 700	8 700	14 100	16 200	15 200	15 200
Chalk										
<i>Production</i> (d)	3 626 000	3 996 000	3 473 000	3 528 000	3 312 000					
<i>Imports</i>	9 341	8 002	23 144	46 225	22 055	1 074	852	1 957	3 008	1 763
<i>Exports</i>	22 504	21 221	17 343	31 621	46 153	1 542	1 680	1 342	1 849	2 412

(a) Includes an estimate for Northern Ireland.

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

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

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

Great Britain production of limestone and chalk for cement, 2002–2014

Thousand tonnes

Year	Limestone	Chalk	Total
2002	9 642	5 550	15 192
2003	9 573	5 360	14 933
2004	9 474	5 177	14 651
2005	...	...	13 235
2006	...	...	12 408
2007	...	...	13 837
2008	...	...	11 539
2009	...	...	8 208
2010	...	...	8 703
2011	...	...	9 936
2012	...	...	9 225
2013	8 115	1 941	10 056
2014	7 069	1 709	8 778

(a) BGS estimate.

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for agricultural uses, 2002–2014

Thousand tonnes

Year	Limestone	Dolomite	Chalk	Total	Calcination (a)
2002	789	...	...	1 639	...
2003	1 007	...	...	2 036	...
2004	921	...	...	1 811	...
2005	757	...	...	1 595	...
2006	...	...	...	1 709	...
2007	...	...	...	1 826	...
2008	...	...	...	1 629	...
2009	...	...	...	1 927	...
2010	...	...	...	1 795	...
2011	...	...	...	1 990	...
2012	965	...	...	1 580	...
2013	0	0	0	2 129	—
2014	956	258	339	1 553	—

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

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for industrial uses, 2002–2014

Thousand tonnes

Year	Limestone	Dolomite	Chalk	Total	Calcination
2002	6 536	...	...	8 915	(b) 3 766
2003	6 799	...	...	9 684	(b) 3 906
2004	6 003	...	...	8 614	(b) 2 897
2005	...	...	...	8 456	(b) 2 721
2006	5 911	...	...	8 776	2 459
2007	5 945	...	...	8 713	2 885
2008	5 862	...	...	8 437	2 256
2009	2 577	...	...	4 408	831
2010	4 842	...	...	6 764	1 401
2011	5 401	...	...	7 478	2 262
2012	...	...	...	7 557	1 666
2013	5 893	...	...	8 142	2 435
2014	5 403	1 236	841	7 480	2 441

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

Source: Office for National Statistics.

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

Great Britain production of limestone, dolomite and chalk for industrial uses by end-use, 2002–2014

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)
2002	...	...	233	1 759	164	...	1 154	8 915
2003	...	...	...	...	325	...	...	9 686
2004	...	...	...	...	149	...	...	8 615
2005	...	...	...	1 131	126	577	...	8 457
2006	4 390	...	280	983	...	624	...	8 776
2007	4 319	...	...	991	116	698	...	8 714
2008	4 089	...	...	928	105	529	1 362	8 439
2009	2 822	102	200	834	95	122	233	4 408
2010	3 035	...	...	912	85	332	...	6 766
2011	3 583	1 079	212	...	...	381	1 216	7 477
2012	2 960	1 086	210	1 245	94	559	1 402	7 556
2013	3 975	1 031	173	869	85	642	1 366	8 142
2014	3 986	623	134	934	156	503	1 144	7 480

(a) Including material for calcination.

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for calcination by end-use, 2002–2014

Thousand tonnes

Year	Agriculture	Iron and Steel	Chemicals	Building materials	Others	Total
2002	...	1 228	1 922	537	...	3 766
2003	...	1 353	1 858	...	...	3 906
2004	...	1 463	...	...	...	2 897
2005	...	1 460	...	...	...	2 721
2006	...	1 230	...	...	...	2 459
2007	...	1 220	...	...	...	2 885
2008	...	1 113	...	...	...	2 256
2009	831
2010	1 401
2011	...	903	...	...	...	2 262
2012	1 666
2013	—	—	...	2 435
2014	—	—	...	2 441

Source: Office for National Statistics.

Great Britain production of limestone, dolomite and chalk for iron and steel making, 2002–2014

Thousand tonnes

Year	Limestone	Dolomite and chalk	Total	Calcination (a)
2002	1 866	...	...	1 228
2003	1 948	...	...	1 353
2004	1 592	...	...	1 463
2005	1 745	...	...	1 460
2006	...	...	4 390	1 230
2007	...	...	4 319	1 220
2008	...	...	4 089	1 113
2009	...	...	2 822	...
2010	...	...	3 035	...
2011	...	...	3 583	903
2012	...	...	2 960	...
2013	...	...	3 975	...
2014	...	...	3 986	...

(a) Comprises material included in the total which, after

Source: Office for National Statistics.

England production of limestone by end-use 2002–2014

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																
2002	145	3 726	3 755	13 931	...	—	15 985	...	21 697	...	524	...	7 595	...	...	...	...	107	...	3 045	73 528
2003	160	3 597	3 720	14 586	...	2	15 925	...	17 627	...	700	1 382	7 087	...	...	...	96	209	1 313	3 103	69 507
2004	...	3 829	1 918	13 029	1 015	394	11 949	7 863	18 760	94	686	948	7 122	1 156	...	...	114	113	1 013	...	72 173
2005	...	4 486	2 536	12 618	794	...	10 732	6 604	16 720	126	544	1 180	6 485	1 428	...	...	115	88	848	...	67 325
2006	369	4 758	2 406	13 681	...	...	11 605	6 681	15 142	279	623	1 751	5 981	...	...	...	...	...	...	...	67 356
2007	...	4 033	2 765	13 855	...	...	13 043	6 605	13 633	256	748	1 884	6 334	...	...	...	98	...	717	...	67 378
2008	298	3 342	3 499	10 525	...	...	12 716	5 033	12 967	322	654	1 898	5 684	...	...	...	112	...	667	...	60 738
2009	...	2 714	...	8 983	...	...	10 700	4 908	8 056	189	908	1 293	...	...	...	...	...	...	615	...	48 751
2010	...	...	...	7 778	...	...	9 114	4 152	4 843	171	846	1 249	5 326	...	...	...	...	...	633	...	47 569
2011 (a)	...	1 755	...	6 668	...	...	8 759	7 952	6 524	154	1 279	2 530	6 125	...	...	...	206	...	...	...	49 772
2012 (a)	392	1 373	...	6 333	...	...	8 837	5 863	7 294	244	988	2 162	5 561	...	...	...	...	68	975	...	46 976
2013 (a)	419	...	...	5 942	...	—	7 385	6 943	7 480	200	1 388	...	6 137	...	...	...	175	...	644	...	46 423
2014 (a)	543	...	...	7 725	...	...	7 914	10 551	9 460	416	821	...	...	...	...	...	156	...	...	...	53 769

(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 2002–2014

Thousand tonnes

Year	For constructional uses (a)										For other uses										Total
	Roadstone																				
	Building stone	Sold coated	For coating at remote plants	Uncoated	Surface dressing chippings	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	
2002	45	912	...	1 280	...	—	4 115	...	4 761	...	...	887	...	...	...	—	3	11	—	12 850
2003	39	866	...	1 756	...	...	...	...	3 845	...	133	565	1 238	...	...	...	...	...	...	13 208
2004	29	953	...	1 416	...	...	2 977	...	3 142	...	99	643	1 142	—	1	—	...	—	...	12 926
2005	9	...	...	1 474	...	...	1 829	1 912	3 471	...	100	565	...	—	—	—	...	—	...	12 759
2006	...	1 260	...	1 495	...	...	...	1 909	4 460	...	85	...	...	—	—	—	...	—	...	13 707
2007	13	...	...	1 584	...	...	...	1 767	...	...	89	...	1 491	—	—	—	...	—	...	14 549
2008	...	...	341	1 357	—	...	...	926	4 222	...	85	...	1 238	—	—	—	...	—	...	12 114
2009	...	...	...	1 472	1	...	2 011	560	1 221	25	...	...	...	—	—	—	...	—	...	8 131
2010	...	454	210	1 351	—	...	1 770	914	1 401	...	118	...	746	—	—	—	...	—	...	7 878	
2011 (a)	...	345	...	964	—	...	1 831	...	1 352	...	...	...	818	—	—	—	...	—	...	7 897
2012 (a)	...	310	...	920	—	...	1 701	1 786	1 451	...	121	...	1 037	—	—	—	...	—	...	7 938	
2013 (a)	57	...	...	1 278	—	—	1 777	2 067	1 376	...	167	...	...	—	...	—	...	—	...	8 934
2014 (a)	43	...	...	4 434	...	—	1 745	2 028	1 517	30	...	...	...	—	—	—	...	—	...	11 301

(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 2002–2014

Thousand tonnes

Year	For constructional uses (a)										For other uses										Total	
	Roadstone										Armour- stone & Gabion	Agricul- tural use	Iron and steel	Cement	Chemical uses	Building materials	Environ- mental 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	Railway ballast	Concrete aggregate	Other screened and graded	Other con- structional uses	Other												
2002	1	26	...	96	...	—	12	...	119	...	...	—	1 160	...	...	...	—	...	...	—	1 635
2003	...	30	...	104	...	—	...	...	98	...	174	—	1 248	...	...	...	—	...	...	—	1 730
2004	...	77	...	112	...	—	4	...	79	...	136	—	1 210	—	—	—	—	...	...	...	1 746
2005	...	...	...	103	...	—	9	29	111	12	113	—	1 216	—	—	—	—	...	...	...	1 746
2006	...	44	...	77	...	—	...	30	128	...	...	—	1 042	—	—	—	—	...	...	...	1 534
2007	...	...	...	85	...	—	...	39	...	...	...	—	...	—	—	—	—	...	...	...	1 555
2008	...	...	—	78	...	—	...	136	23	...	...	—	...	—	—	—	—	...	...	...	1 473
2009	...	...	...	117	—	—	26	71	28	7	163	—	705	—	—	—	—	...	...	...	1 210
2010	—	...	...	105	...	—	31	53	21	...	...	—	...	—	—	—	—	...	...	...	1 072
2011 (a)	...	—	—	150	...	—	27	...	26	...	...	—	...	—	—	—	—	...	...	...	1 251
2012 (a)	—	—	—	74	—	—	13	15	35	5	...	—	...	—	—	—	—	...	...	...	1 120
2013 (a)	—	—	—	...	—	—	...	...	70	...	244	—	...	—	—	—	—	...	...	—	1 269
2014 (a)	...	—	—	47	...	—	18	17	83	1	...	—	...	—	—	—	—	...	...	...	1 302

(a) Including dolomite.

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

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

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

(e) BGS estimate.

Source: Office for National Statistics.

Great Britain consumption of dolomite, limestone and lime in iron and steel production, 1977–2014

Thousand tonnes

Year	Dolomite, incl. calcined dolomite (dolime)		Limestone			Lime	
	Blast furnaces and sinter plants	Steel furnaces	Blast furnaces and sinter plants	Steel furnaces	Other purposes	Steel Furnaces	Other purposes
1977	643	192	1 487	252	5	1 175	14
1978	647	183	1 399	106	—	1 227	—
1979	859	323	1 090	116	—	1 323	—
1980	389	182	611	7	—	663	—
1981	400	308	1 031	2	—	911	—
1982	280	255	888	2	—	799	—
1983	400	298	1 164	1	—	865	—
1984	405	310	1 143	1	—	824	—
1985	425	284	1 562	—	—	801	—
1986	333	270	1 494	2	—	680	—
1987	405	275	1 827	—	—	761	—
1988	477	319	1 948	—	—	810	—
1989	430	315	2 062	—	—	822	—
1990	410	287	1 992	—	—	778	—
1991	323	264	2 124	—	—	696	—
1992	391	246	2 033	—	—	682	—
1993	276	238	2 077	—	—	719	—
1994	201	264	2 236	—	—	767	—
1995	67	316	2 318	—	—	787	—
1996	59	397	2 225	—	—	744	—
1997	42	462	2 445	—	—	751	—
1998	3	492	2 411	—	—	739	—
1999	5	364	2 408	—	—	698	—
2000	1	337	2 166	—	—	660	—
2001	7	254	1 889	—	—	561	—
2002	8	215	1 684	—	—	501	—
2003	8	246	2 019	—	—	530	—
2004	3	260	2 068	—	—	584	—
2005	0	243	1 951	—	—	593	—
2006	183	262	2 028	—	—	631	—
2007	184	291	1 822	—	—	585	—
2008	166	254	1 664	—	—	496	—
2009	145	224	1 095	—	—	378	—
2010	156	243	948	—	—	371	—
2011	127	217	932	—	—	395	—
2012	383	174	912	—	—	379	—
2013	543	217	1 147	—	—	387	—
2014	542	253	1 255	—	—	466	—

Source: Iron and Steel Statistics Bureau.

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

Great Britain production of dolomite (a) by end-use 2002–2014

Thousand tonnes

Year	Building stone	Constructional use	Agricultural use (b)	Other uses (b)	Total
2002	9	11 839	...	...	12 946
2003	7	10 391	...	...	...
2004	8	10 832	...	...	12 226
2005	...	...	...	...	11 514
2006	...	10 283	...	...	12 100
2007	...	5 898	...	...	7 622
2008	2	3 918	...	...	5 510
2009	...	1 954	...	...	3 164
2010	...	3 222	...	...	4 540
2011	(c)	(d) 3 124	...	...	4 490
2012	(c)	(d) 3 611	...	...	4 896
2013	...	...	...	...	3 432
2014	(c)	(d) 2 236	258	1 236	3 730

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

Source: Office for National Statistics.

(b) Including material for calcination.

(c) Included in constructional use.

(d) Including building stone.

England production of chalk by end-use 2002–2014

Thousand tonnes

Year	Cement	Constructional use	Agricultural use	Industrial uses	Total
2002	5 550	904	...	...	8 587
2003	5 360	561	...	...	8 066
2004	5 177	705	...	...	7 997
2005	...	795	...	...	7 105
2006	...	681	...	...	7 376
2007	...	698	...	...	7 565
2008	...	497	...	...	5 874
2009	...	530	...	...	4 047
2010	...	312	...	...	3 626
2011	...	276	...	...	3 996
2012	...	327	...	...	3 473
2013	...	...	330	...	3 528
2014	1 709	423	339	841	3 312

Source: Office for National Statistics.

Lithium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Lithium										
<i>Imports</i>										
Oxide and hydroxide	218	215	119	281	384	1 138	1 213	1 034	904	3 503
Carbonate	427	376	344	364	434	1 546	1 664	1 573	1 822	2 030
<i>Exports</i>										
Oxide and hydroxide	144	7	41	39	65	667	279	320	279	462
Carbonate	123	50	102	86	138	315	273	515	378	600

Magnesia

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Magnesia										
<i>Imports</i>										
Magnesite	8 640	7 903	5 059	5 015	5 258	1 438	1 413	973	1 223	1 110
Magnesia-										
Dead burned	5 716	6 235	15 493	6 966	8 367	3 216	3 388	6 077	3 190	3 710
Caustic-calcined	37 527	40 534	48 557	53 987	46 005	10 992	11 590	11 169	12 397	10 235
Other	5 833	5 494	6 280	8 869	11 358	5 624	5 563	5 473	5 956	5 945
Kieserite	18 284	11 158	15 082	13 610	15 011	3 960	2 951	3 231	2 729	2 990
Magnesite or chrome-magnesite refractory bricks and shapes (a)(b)	25 057	31 338	28 103	22 667	369 255	16 516	21 724	20 423	21 164	29 055
<i>Exports</i>										
Magnesite	470	745	1 163	1 744	1 266	464	752	1 258	1 980	1 317
Magnesia-										
Dead burned	1 729	2 270	942	1 394	893	869	1 632	490	734	677
Caustic-calcined	4 927	19 316	8 082	5 947	2 498	3 642	6 512	2 587	2 660	959
Other	7 841	6 456	5 845	6 676	8 140	8 545	7 617	7 022	8 509	10 536
Kieserite	42	48	26	47	98	27	16	14	27	65
Magnesite or chrome-magnesite refractory bricks and shapes (a)(b)	459	1 525	3 235	4 107	4 332	792	1 123	2 014	871	1 199

(a) Including dolomite bricks.

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

Magnesium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Magnesium										
<i>Imports</i>										
Ferro-silico-magnesium	931	1 328	1 360	1 211	948	1 006	1 583	1 294	1 173	963
Scrap	875	847	702	289	961	819	767	455	204	995
Unwrought	3 171	2 810	3 233	2 567	4 116	6 231	6 507	7 206	5 052	6 919
Unwrought alloys	4 252	4 521	5 719	4 827	5 565	9 054	10 651	12 618	9 976	9 548
Wrought	6 631	6 893	6 276	8 108	8 710	22 348	24 407	23 520	24 504	27 766
<i>Exports</i>										
Ferro-silico-magnesium	366	338	327	240	119	457	550	485	384	169
Scrap	3 143	3 976	4 273	4 470	3 654	6 179	7 360	7 694	8 063	5 995
Unwrought	209	175	60	116	219	564	519	301	220	219
Unwrought alloys	1 872	2 110	2 230	1 859	2 114	11 007	13 536	16 810	16 155	17 141
Wrought	626	855	827	896	847	4 301	6 164	5 937	7 152	6 073

Manganese

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Manganese										
<i>Consumption in Iron and Steel Industry</i>										
Ore	—	—	—	2 800	—					
Ferro-manganese	67 560	65 870	66 320	...	...			
Ferro-silico-manganese	16 490	16 080	16 180	...	...			
<i>Apparent consumption (a)</i>	72 000	73 000	64 000	80 000	78 000					
<i>Imports</i>										
Ores & Concentrates (b)	1 517	1 656	1 597	2 168	3 232	678	828	878	1 199	1 696
Ferro-manganese	46 985	39 159	47 706	59 517	54 814	47 612	36 925	36 963	42 857	37 687
Ferro-silico-manganese	49 280	51 928	36 661	43 823	47 122	42 091	41 491	27 725	30 871	30 955
Scrap	155	102	54	58	25	285	222	96	108	36
Unwrought	4 499	4 329	3 417	3 402	3 459	7 178	9 039	6 118	5 999	5 853
Wrought	1 965	1 013	250	336	145	3 664	2 090	498	779	256
Oxides	9 344	12 323	11 482	8 554	8 373	4 433	6 064	6 030	4 261	3 689
<i>Exports</i>										
Ores & Concentrates	97	129	101	284	3 983	62	112	450	255	980
Ferro-manganese	8 361	819	658	407	2 721	8 522	1 210	848	546	6 505
Ferro-silico-manganese	52	132	7 503	3 626	791	55	75	1 320	919	232
Oxides	4 173	5 315	4 309	4 228	2 917	1 714	2 995	2 646	2 542	1 625
Metal (c)	2 000	2 100	1 600	1 200	700	4 100	5 600	3 800	2 700	209

(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 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Marble										
<i>Imports</i>										
Dimension stone-										
Unworked	21 339	20 655	17 548	13 660	10 388	15 556	14 965	11 446	11 229	9 835
Worked	92 078	88 210	99 130	87 454	82 157	59 417	53 335	63 383	58 785	55 139
Crushed and powdered	190 740	190 848	174 935	153 186	162 521	10 558	12 085	11 058	11 128	12 35
<i>Exports</i>										
Dimension stone-										
Unworked	822	698	402	437	563	1 221	805	364	626	378
Worked	1 332	965	1 224	919	1 367	3 310	1 967	2 322	2 337	4 226
Crushed and powdered	830	798	783	273	206	271	263	176	103	51

Mercury

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Mercury										
<i>Imports</i>										
Elemental	22	0	21	42	4	71	14	73	121	28
<i>Exports</i>										
Elemental	9	5	3	3	10	194	263	37	19	14

Mica

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Mica										
<i>Imports</i>										
Crude (a)	43	243	407	131	160	20	99	290	210	187
Ground	7 341	7 926	9 203	7 307	7 891	2 225	2 360	2 915	2 438	2 497
Waste	902	0	0	24	0	245	12	4	13	2
Worked	654	878	840	1 194	994	4 317	4 852	4 459	5 428	4 276
<i>Exports</i>										
Crude (a)	12	4	0	1	8	5	12	2	12	4
Ground	4 125	4 234	3 639	4 678	4 706	3 679	3 527	3 265	4 324	4 393
Waste	...	...	0	...	0	...	...	1	...	6
Worked	706	926	601	824	625	7 595	9 289	7 686	8 753	7 788

(a) Including sheets or splitting.

Molybdenum

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Molybdenum										
<i>Consumption in Iron and Steel Industry (a)</i>										
	1 330	1 740	1 650	...	...			
<i>Apparent consumption (a)(b)</i>	2 100	4 300	2 700	3 500	5 000					
<i>Imports</i>										
Roasted molybdenite concentrates	12 359	15 844	15 701	14 156	16 326	156 244	211 067	170 124	135 914	156 129
Other ores and concentrates	222	0	340	240	303	2 601	0	3 599	2 180	2 932
Ferro-molybdenum	322	573	458	259	303	5 292	8 950	5 648	3 024	3 347
Scrap	815	787	861	744	1 169	14 078	14 189	15 252	11 338	13 675
Powders	147	192	179	176	178	3 127	4 949	4 212	3 787	3 721
Unwrought	69	56	163	108	42	1 821	1 626	3 240	2 461	932
Wrought	68	380	284	243	260	2 969	4 797	2 402	2 369	2 912
Oxides and hydroxides	1 638	2 316	1 971	2 101	2 723	21 771	30 719	21 598	18 901	26 256
<i>Exports</i>										
Roasted molybdenite concentrates	288	3	32	—	—	3 559	30	404	—	—
Other ores and concentrates	17	0	0	—	0	80	0	4	1	16
Ferro-molybdenum	11 248	12 948	12 421	11 922	12 491	168 557	184 969	162 717	126 828	145 844
Scrap	490	299	280	355	514	7 061	5 236	3 888	5 304	8 100
Powders	31	48	52	44	253	1 000	1 477	1 486	975	1 329
Unwrought	13	7	4	2	9	308	228	193	131	179
Wrought	37	49	39	71	21	1 879	2 434	1 611	1 892	1 420

(a) Metal content.

(b) BGS estimates; see explanatory notes.

Nepheline syenite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Nepheline syenite										
<i>Imports</i>	39 092	35 573	30 744	36 080	33 646	4 038	4 475	3 128	3 272	3 233
<i>Exports</i>	291	337	403	311	288	83	101	116	96	54

Nickel

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Nickel										
<i>Production (a)</i>	31 600	37 400	34 300	40 400	39 100					
<i>Consumption</i>										
Iron and steel industry (b)	9 540	11 770	10 360	...	...			
Other (b)(c)	11 000	7 000	8 000	...	...			
Total (b)(d)	20 470	18 600	18 700	15 500	21 788					
<i>Imports</i>										
Mattes, sinters etc.	50 263	58 519	57 108	63 129	59 194	509 294	612 378	451 142	408 942	374 755
Ash and residues	...	10	0	...	...	...	1 497	3	...	...
Ores & concentrates	16	1	0	864	1	165	16	7	8 399	20
Scrap	8 154	6 741	9 237	9 887	11 000	43 239	46 529	58 870	54 790	58 717
Ferro-nickel	6 284	13 888	17 916	13 439	22 480	22 518	51 589	57 312	32 375	59 157
Unwrought	14 200	12 707	11 521	8 130	9 031	199 286	193 423	130 650	78 697	88 129
Unwrought alloys	3 310	4 644	4 771	4 309	3 771	41 797	66 642	68 600	67 318	55 197
Oxides	6	5	6	67	4	142	172	113	148	68
<i>Exports</i>										
Mattes, sinters etc.	389	157	111	381	584	1 283	1 502	1 652	2 330	3 403
Ash and residues	8 995	10 789	10 503	11 117	11 124	80 198	104 565	66 965	61 309	88 669
Ores & concentrates	54	51	55	35	3	974	1 084	856	655	49
Scrap	19 361	17 405	33 614	20 994	15 772	66 581	83 488	96 819	85 518	94 413
Ferro-nickel	15	49	539	183	68	327	385	477	1 463	32
Unwrought	18 639	28 994	30 322	31 742	27 358	258 660	416 592	348 945	319 122	282 759
Unwrought alloys	4 530	6 025	6 711	7 324	7 629	75 753	111 615	114 078	110 051	104 504
Oxides	2	2	2	3	2	87	79	100	145	78

(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 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Thousand cubic metres					£ thousand				
Peat										
<i>Production</i>	1 004	825	568	1 254	795					
<i>Imports</i>										
Peat and agglomerated peat	622 917	639 755	563 343	450 827	476 301	33 268	36 665	36 986	33 192	33 722
<i>Exports</i>										
Peat and agglomerated peat	51 867	53 505	55 276	65 266	56 338	6 647	7 423	6 850	7 691	5 659

Perlite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Perlite										
Imports (a)	58 456	98 437	66 298	59 424	77 419	5 357	12 950	8 508	7 087	9 937
Exports (a)	1 059	1 116	1 228	1 459	935	822	825	845	772	557

(a) Figures also include vermiculite and chlorites.

Petroleum (also see Primary fuels)

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Petroleum										
<i>Production</i>										
Crude petroleum	58 047 000	48 571 000	42 052 000	38 456 000	37 474 000					
Condensates and other (a)	4 915 000	3 401 000	2 508 000	2 190 000	2 453 000					
Refined petroleum products	72 977 000	74 707 000	68 690 000	64 728 000	60 300 000					
<i>Consumption (inland deliveries)</i>										
<i>of refined products</i>										
<i>Used as fuels-</i>										
Refineries	4 378 000	4 586 000	4 255 000	3 768 000	3 245 000					
Power Generation	1 331 000	883 000	853 000	726 000	630 000					
Elsewhere	59 188 000	57 226 000	56 766 000	56 115 000	56 005 000					
Not used as fuels	7 107 000	7 055 000	6 111 000	6 344 000	6 220 000					
Total	70 673 000	68 829 000	67 347 000	66 628 000	66 100 000					
<i>Imports</i>										
Crude petroleum	50 447 008	53 647 056	56 471 508	48 380 730	46 831 399	19 489 775	28 080 175	30 309 019	25 293 893	21 600 909
Partly refined petroleum and refined products	26 913 407	26 595 080	10 540 341	29 557 157	29 709 394	11 996 861	15 786 493	6 584 613	17 738 676	15 948 891
<i>Exports</i>										
Crude petroleum	41 591 305	34 304 184	33 679 090	35 581 067	37 109 307	15 840 899	17 100 556	17 913 368	18 791 993	17 457 656
Partly refined petroleum and refined products	31 346 754	32 980 472	31 561 846	30 325 654	25 286 521	13 746 412	18 818 633	18 252 679	17 096 758	12 755 964

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

Natural gas

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Natural gas										
<i>Production</i>										
Methane										
Colliery (a)	71 000	58 000	52 000	52 000	48 000					
Offshore and onshore (a)	57 124 000	45 231 000	38 873 000	36 471 000	36 517 000					
<i>Consumption (b)</i>	93 529 000	77 707 000	73 470 000	72 690 000	65 930 000					
<i>Imports</i>										
Liquefied natural gas (c)	17 785 653	23 628 162	12 906 091	8 823 781	10 654 573					
Natural gas in gaseous state (c)	32 458 908	26 416 914	33 285 481	36 320 236	29 345 219					
Total (c)	50 244 561	50 045 076	46 191 572	45 144 017	39 999 792	7 120 000	9 630 000	10 035 000	10 985 000	7 250 000
Other natural gas (d)	568 388	546 281	481 319	590 607	478 690	255 576	308 636	281 460	334 237	253 833
<i>Exports</i>										
Liquefied natural gas and natural gas in gaseous state (c)	14 461 473	15 239 637	11 325 170	8 562 644	9 969 015	2 505 000	3 555 000	2 885 000	2 510 000	2 005 000
Other natural gas (d)	2 584 168	2 332 695	2 325 469	2 041 603	2 467 647	1 181 234	1 277 730	1 312 781	1 106 861	1 119 308

(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 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Phosphorus										
<i>Consumption in Iron and Steel Industry</i>										
Ferro-phosphorus	840	820	820	...	...			
<i>Imports</i>										
Phosphate rock	9 873	15 885	15 314	3 186	3 515	1 020	1 602	1 959	1 388	1 215
Amonium phosphates	109 084	98 794	108 350	132 834	164 387	36 326	42 713	43 421	47 017	52 510
Superphosphates	219 783	166 269	124 791	142 280	156 066	51 763	57 417	39 431	35 455	35 454
Other phosphatic fertilisers	11 266	9 560	10 888	6 417	8 023	1 395	1 397	1 658	995	1 121
Elemental phosphorus	152	1 585	3 932	3 845	1 888	324	3 352	8 970	9 010	4 407
Phosphoric acids	90 655	87 356	83 186	67 209	85 096	45 147	51 810	44 563	41 433	40 783
Calcium phosphates	68 902	86 333	90 653	89 196	90 439	22 009	35 390	36 379	35 458	35 288
Sodium phosphates and orthophosphates	11 258	12 005	10 829	8 514	10 196	10 362	11 198	10 277	8 379	9 587
Polyphosphates including ammonium and sodium	28 450	28 853	24 832	28 914	33 274	21 318	26 133	22 760	25 657	25 318
<i>Exports</i>										
Phosphate rock	615	573	60	52	23	634	359	79	259	112
Ammonium phosphates	170	317	197	410	1 970	363	497	502	643	1 141
Superphosphates	235	1 147	35	128	12	68	376	41	147	3
Other phosphatic fertilisers	42	139	76	260	5 908	40	38	155	588	1 064
Elemental phosphorus	16	4	13	22	0	55	52	146	74	23
Phosphoric acids	3 251	2 347	3 616	2 411	8 355	2 605	2 207	2 850	2 184	5 705
Calcium phosphates	2 459	3 716	3 171	4 131	3 137	1 981	2 704	2 517	2 796	2 694
Sodium phosphates and orthophosphates	1 389	694	1 147	1 157	1 418	2 147	1 472	1 653	1 822	1 906
Polyphosphates including ammonium and sodium	8 666	4 285	3 259	1 513	1 476	9 716	5 465	4 260	2 222	2 748

Platinum group metals

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Platinum group metals										
<i>Imports</i>										
Unwrought or partly worked-										
Platinum	59	46	54	40	52	1 866 543	1 567 856	1 631 810	1 154 606	1 282 639
Palladium	73	42	60	49	34	728 069	630 010	784 502	634 338	523 443
Other platinum metals	9	8	4	7	5	219 027	179 756	72 704	80 352	54 528
Waste & scrap	820	1 557	2 164	1 186	838	475 114	792 811	765 455	748 929	458 926
<i>Exports</i>										
Unwrought or partly worked-										
Platinum	24	38	55	43	74	787 176	1 272 690	1 731 992	1 286 837	1 572 799
Palladium	43	51	56	55	61	455 590	744 465	749 089	828 143	950 467
Other platinum metals	23	17	19	18	20	416 542	354 043	338 769	227 089	232 617
Waste & scrap	528	287	1 067	1 194	3 815	62 151	38 349	87 674	18 977	33 725

Potassium compounds

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Potassium compounds										
<i>Indigenous production</i>										
KCl product (a)	700 000	770 000	900 000	900 000	1 000 000					
<i>Apparent consumption</i>										
Potassic fertilisers										
(K ₂ O content) (a)(b)	327 000	205 000	230 000	264 000	...					
<i>Imports</i>										
Sulphate	15 766	13 232	10 795	10 905	16 513	4 068	4 751	4 228	4 510	5 894
Chloride	270 096	153 141	161 388	149 121	201 039	71 094	49 041	46 531	40 967	45 445
Other potassic fertilisers	10 565	2 373	7 899	8 484	8 875	1 471	508	677	1 264	1 271
<i>Exports</i>										
Sulphate	71	108	118	428	469	75	54	164	186	160
Chloride (c)	339 000	429 000	426 000	499 000	557 000	102 000	112 000	106 000	114 000	92 000
Other potassic fertilisers	420	5 283	15 732	29 558	53 838	513	1 473	2 460	3 827	5 631

(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 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Precious and semi-precious stones										
(excluding diamond) (a)										
<i>Imports</i>										
Natural stones	416	319	347	270	281	126 780	135 843	133 752	152 345	192 402
Synthetic stones	84	103	39	31	41	4 638	5 609	5 490	5 407	3 609
Dust and powder	4	5	3	4	3	382	572	605	943	735
<i>Exports</i>										
Natural stones	11	9	41	21	21	106 276	137 162	136 544	146 823	200 998
Synthetic stones	24	20	26	21	18	6 182	3 033	3 116	3 842	8 635
Dust and powder	8	1	6	6	4	701	352	546	1 062	861

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

Primary fuels

United Kingdom production of primary fuels 1986–2014 (energy supplied basis)

Million tonnes of oil equivalent (a)

Year	Coal	Petroleum	Natural gas (b)	Bioenergy & waste (c)	Nuclear electricity	Wind and hydro-electricity (d)	Total
1986	66	139	42	0	15	0	262
1987	63	135	44	0	14	0	257
1988	63	126	42	1	17	0	249
1989	61	100	41	1	18	0	221
1990	56	100	46	1	16	0	219
1991	58	100	51	1	17	0	227
1992	52	104	52	1	19	1	227
1993	42	110	61	1	22	1	235
1994	30	139	65	2	21	0	257
1995	33	143	71	2	21	1	270
1996	31	142	84	2	22	0	282
1997	30	140	86	2	23	0	282
1998	26	145	90	2	23	1	287
1999	23	150	99	2	22	1	298
2000	20	138	108	2	20	1	289
2001	20	128	106	3	21	0	277
2002	19	127	104	3	20	1	273
2003	18	116	103	3	20	0	260
2004	16	105	96	3	18	1	238
2005	13	93	88	4	18	1	217
2006	11	84	80	4	17	1	197
2007	11	84	72	4	14	1	186
2008	11	79	70	4	12	1	177
2009	11	75	60	5	15	1	167
2010	11	69	57	5	14	1	158
2011	12	57	45	6	16	2	137
2012	11	49	39	7	15	2	123
2013	8	44	37	7	15	3	115
2014	7	44	37	8	14	4	113

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

Source: Department of Energy and Climate Change.

(b) Including colliery methane.

(c) Includes solid renewable sources (wood, straw and waste), a small amount of renewable primary heat sources (solar, geothermal, etc.), liquid biofuels, landfill gas and sewage gas

(d) Includes generation by solar PV. Excludes generation from pumped storage stations

United Kingdom consumption of energy (primary fuel input) 1986–2014 (energy supplied basis)

Million tonnes of oil equivalent (a)

Year	Coal	Petroleum	Natural gas (b)	Bioenergy & waste (c)	Nuclear electricity	Wind and hydro-electricity (d)	Net imports of electricity	Total
1986	70	71	53	0	15	0	0	210
1987	72	69	54	0	14	0	1	211
1988	70	74	51	0	17	0	1	213
1989	67	75	49	1	18	0	1	211
1990	67	77	51	1	16	0	1	214
1991	67	77	55	1	17	0	1	220
1992	63	78	55	1	19	1	1	217
1993	55	78	63	1	22	1	1	221
1994	51	77	65	1	21	0	2	218
1995	50	76	71	2	21	0	1	221
1996	46	76	83	2	22	0	1	231
1997	41	74	84	2	22	0	1	225
1998	41	75	87	2	23	1	1	231
1999	36	76	93	2	22	1	1	231
2000	38	77	96	2	20	1	1	234
2001	41	76	96	3	21	0	1	237
2002	38	73	94	3	20	1	1	230
2003	40	73	95	3	20	0	0	231
2004	39	75	97	3	18	1	1	234
2005	40	78	94	4	18	1	1	236
2006	43	77	89	4	17	1	1	233
2007	41	76	90	5	14	1	0	227
2008	38	74	93	5	12	1	1	225
2009	31	71	86	6	15	1	0	211
2010	33	70	94	8	14	1	0	219
2011	32	68	78	8	16	2	1	204
2012	41	67	73	8	15	2	1	208
2013	39	66	73	9	15	3	1	207
2014	32	66	66	11	14	4	2	194

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

(b) Including colliery methane.

(c) Includes solid renewable sources (wood, straw and waste), a small amount of renewable primary heat sources (solar, geothermal, etc.), liquid biofuels, landfill gas and sewage gas

(d) Includes generation by solar PV. Excludes generation from pumped storage stations

Source: Department of Energy and Climate Change.

Pumice

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Pumice										
<i>Imports</i>	2 062	2 067	1 255	3 406	2 353	1 183	810	512	954	724
<i>Exports</i>	704	136	87	138	121	997	448	129	176	159

Pyrite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Pyrite										
<i>Imports</i>										
Iron pyrites (incl.cupreous)-										
Unroasted	2 581	1 734	168	435	962	1 333	502	148	228	272
Roasted	—	598	150	193	237	—	138	25	30	83
<i>Exports</i>										
Iron pyrites (incl.cupreous)-										
Unroasted	2	40	27	26	31	5	53	258	17	22
Roasted	28	10	16	10	18	15	5	7	8	5

Quartz and quartzite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Quartz and quartzite										
<i>Imports</i>										
Quartzite	92	161	386	477	700	137	171	252	329	365
Quartz	4 015	6 108	7 739	9 751	14 032	4 013	6 075	8 119	8 515	9 120
<i>Exports</i>										
Quartzite	34	0	2	1	0	20	9	5	17	14
Quartz	1 045	744	488	594	715	771	607	459	657	358

Radioactive and associated materials

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Radioactive and associated materials										
<i>Imports</i>										
Natural and enriched uranium, plutonium, artificial radioactive isotopes, and their compounds	1 258 131	1 273 267	1 260 640	1 067 459	701 096
<i>Exports</i>										
Natural and enriched uranium, isotopes, and their compounds	2 113 690	1 692 614	1 752 845	1 487 558	900 144

Rare earths

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Rare earths										
<i>Imports</i>										
Metals (a)	119	79	65	128	127	2 231	2 300	3 574	4 372	3 399
Cerium compounds	1 119	1 713	485	633	603	4 694	24 746	6 061	4 503	4 735
Other rare earth compounds (b)	322	629	518	654	591	3 999	8 282	8 458	16 977	10 528
Ferro-cerium & other pyrophoric alloys	150	79	14	50	28	173	146	217	193	186
<i>Exports</i>										
Metals (a)	46	272	54	65	18	1 158	1 702	1 188	1 145	836
Cerium compounds	182	149	273	48	24	2 349	2 409	3 925	1 110	854
Other rare earth compounds (b)	614	347	214	220	275	5 033	6 094	3 782	7 097	3 980
Ferro-cerium & other pyrophoric alloys	37	48	79	40	152	439	136	488	153	372

(a) Including yttrium and scandium.

(b) Including yttrium and scandium compounds.

Salt

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Salt										
<i>Production</i>										
	6 666 000	6 060 000	6 460 000	6 930 000	4 690 000					
<i>Imports</i>										
	1 288 253	1 814 865	418 028	738 670	356 289	64 295	89 009	48 319	54 395	39 714
<i>Exports</i>										
	450 246	489 633	396 155	497 670	772 971	35 354	41 551	38 516	42 109	40 881

Sand and gravel (see also Aggregates)

United Kingdom summary 2010-2014

Commodity	Tonnes					£ thousand				
	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
Sand and gravel										
<i>Production</i>										
Sand & gravel (a)	61 700 000	(b) 63 100 000	(b) 56 600 000	(b) 58 000 000	(b) 61 100 000					
<i>Consumption</i>										
Building sand (c)	7 710 000	7 549 000	6 800 000	6 275 000	6 960 000					
Concreting sand (c)	20 947 000	22 591 000	19 697 000	20 361 000	22 335 000					
Gravel and hoggin (c)	19 052 000	24 875 000	23 547 000	25 289 000	26 834 000					
Total (c)	54 330 000	55 015 000	50 044 000	51 925 000	56 129 000					
<i>Imports</i>	343 749	357 607	519 089	493 102	549 584	10 874	12 455	16 436	15 483	13 749
<i>Exports (d)</i>	6 081 730	5 413 300	4 572 346	4 326 631	3 518 314	44 819	45 163	36 053	34 708	31 179

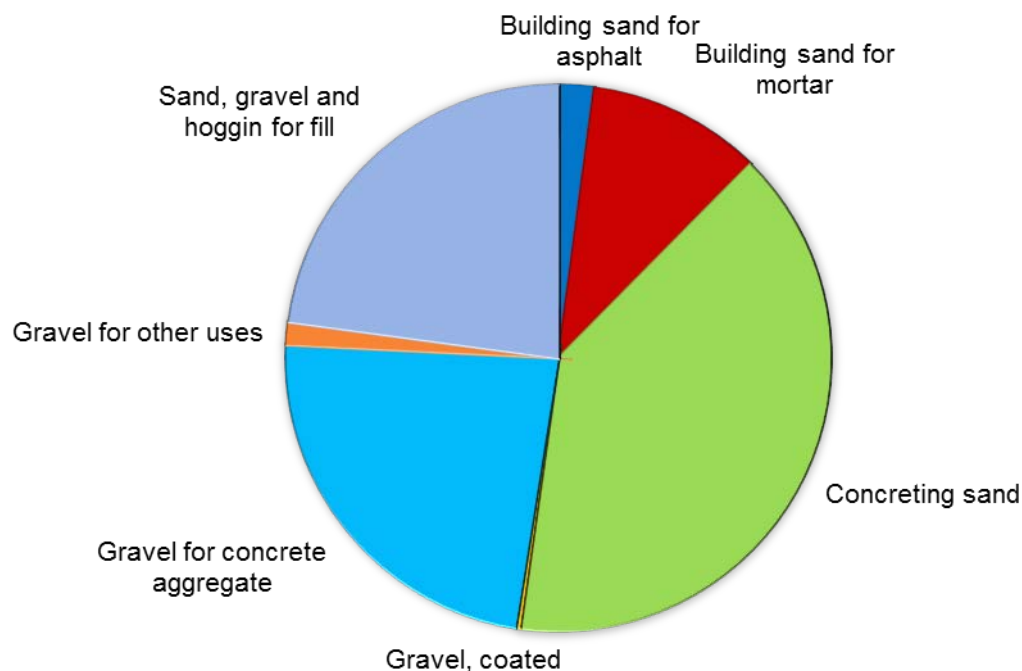
(a) Including production from marine dredging.

(b) Includes an estimate for Northern Ireland.

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

(d) Principally marine dredged sand and gravel. Source: HM Revenue and Customs. However, the Crown Estate Commissioners give the following figures for marine dredged sand and gravel landed at foreign ports (tonnes): 2010: 5 192 348; 2011: 6 098 020; 2012: 4 548 675; 2013: 4 089 687; 2014: 2 994 538.

Great Britain production of sand and gravel by end-use 2014 (total production 56.1 million tonnes)



United Kingdom production of sand and gravel 1990–2014

Million tonnes

Year	Land-based production			Marine-dredged			Total production United Kingdom	For beach replenishment (c) (e)
	Great Britain (a)	Northern Ireland (b)	Total	For home market (a)	For export (c)	Total		
1990	99.0	4.0	103.0	17.2	3.8	21.0	124.0	2.3
1991	85.5	3.8	89.3	12.4	4.6	17.0	106.3	1.9
1992	78.3	3.7	82.0	10.6	6.3	16.9	98.9	1.3
1993	79.4	4.3	83.7	10.1	6.2	16.3	100.0	0.8
1994	86.3	5.1	91.5	11.3	6.6	18.0	109.4	1.3
1995	78.0	5.3	83.3	11.6	6.8	18.4	101.7	5.2
1996	70.5	5.3	75.7	11.5	6.7	18.2	93.9	7.2
1997	74.4	5.1	79.5	12.0	6.9	18.9	98.4	4.9
1998	73.0	5.3	78.3	13.0	7.0	20.0	98.3	2.4
1999	74.8	5.5	80.3	13.4	7.2	20.7	101.0	2.8
2000	74.9	5.1	80.0	14.4	7.3	21.7	101.6	2.4
2001	74.6	6.2	80.8	13.6	7.0	20.6	101.4	1.6
2002	69.9	5.5	75.4	12.8	6.2	19.0	94.4	1.5
2003	68.1	4.9	73.0	12.1	6.1	18.2	91.2	2.1
2004	73.1	5.1	78.1	13.0	6.1	19.2	97.3	1.8
2005	69.4	5.8	75.2	13.0	6.5	19.5	94.7	1.5
2006	66.3	5.2	71.5	14.0	6.7	20.7	92.1	4.1
2007	64.7	8.1	72.8	13.8	6.6	20.4	93.2	2.1
2008	59.5	7.1	66.6	12.6	6.2	18.8	85.5	2.2
2009	46.1	4.9	51.0	9.6	5.7	15.3	66.2	4.5
2010	45.0	2.2	47.2	9.3	5.2	14.5	61.7	1.0
2011	43.8	(d) 2.0	45.8	11.2	6.1	17.3	63.1	1.5
2012	39.8	(d) 2.0	41.8	10.3	4.5	14.8	56.6	1.7
2013	41.4	(d) 2.0	43.4	10.5	4.1	14.6	58.0	1.3
2014	44.8	(d) 2.0	46.8	11.3	3.0	14.3	61.1	2.4

Sources:

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

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

Great Britain production of sand and gravel by end-use and area of origin 2014

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						
England								
Land-won	...	...	...	...	...	...	...	38 785
Marine (b)	...	...	...	...	...	...	...	10 685
Total	(a) ...	(a) 4 954	(a) 19 640	...	(a) 11 888	(a) 5 461	(a) 6 567	(a) 49 470
Wales								
Land-won	...	...	...	—	...	...	...	901
Marine (b)	...	...	...	—	...	...	...	647
Total	(a) ...	(a) 420	(a) 707	—	(a) 188	(a) 190	(a) ...	(a) 1 548
Scotland								
Total	...	416	1 988	...	969	904	...	5 111
Great Britain								
Land-won	...	5 217	17 503	...	8 292	5 784	...	44 797
Marine (b)	...	573	4 832	...	4 754	771	...	11 332
Total	(a) 1 170	(a) 5 790	(a) 22 335	181	(a) 13 046	(a) 6 555	(a) ...	(a) 56 129

(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 1981–2014

Thousand tonnes

Year	North East (b)	North West (c)	Yorks. & the Humber	West Midlands	East Midlands	East of England (d)	South East (e)	South West	England	Wales	Scotland	Great Britain
1981	2 798	3 043	4 668	8 109	9 217	6 532	35 864	5 843	76 074	3 492	9 886	89 453
1982	2 685	3 410	4 397	9 892	9 100	7 026	35 374	6 017	77 901	3 444	9 861	91 206
1983	3 087	3 730	4 690	9 847	10 470	7 581	39 035	8 017	86 457	4 033	10 309	100 799
1984	3 062	4 080	4 680	10 827	10 604	6 934	38 862	7 010	86 060	3 437	10 178	99 675
1985	2 717	3 823	4 537	10 728	10 609	7 540	39 930	6 981	86 865	3 420	11 320	101 605
1986	2 863	4 036	4 686	10 486	11 743	7 547	42 192	7 152	90 706	4 083	10 710	105 498
1987	2 932	4 006	4 780	11 095	13 348	8 306	43 563	8 495	96 525	4 793	10 311	111 629
1988	3 291	4 156	5 306	14 138	15 603	11 361	50 970	9 843	114 667	4 734	10 753	130 154
1989	3 802	4 709	5 722	14 020	15 892	10 145	51 208	9 142	114 640	4 588	12 004	131 232
1990	3 951	4 641	5 485	12 581	14 051	8 762	42 516	7 559	99 547	3 990	12 634	116 172
1991	3 017	4 243	4 960	10 698	12 683	7 288	33 318	6 045	82 253	3 439	12 226	97 918
1992	2 732	3 894	4 028	9 976	12 072	6 456	28 590	6 171	73 290	3 205	11 774	88 898
1993	2 856	4 028	4 539	10 345	12 364	5 962	28 600	6 138	74 833	3 278	11 359	89 470
1994	3 268	4 843	4 907	12 207	12 860	6 947	31 140	6 765	82 937	3 312	11 423	97 672
1995	3 086	4 529	4 333	10 722	11 556	6 550	28 046	6 684	75 506	3 260	10 889	89 656
1996	2 909	3 792	3 923	9 633	10 827	5 623	26 485	5 790	68 983	3 111	9 904	81 997
1997	3 109	4 294	4 041	9 966	10 899	5 899	29 154	6 054	73 416	3 050	9 900	86 366
1998	3 056	3 579	4 381	9 721	10 416	5 979	29 637	6 166	72 935	2 959	10 074	85 968
1999	3 117	3 801	4 872	9 901	10 216	6 395	30 821	6 016	75 139	3 039	10 031	88 209
2000	2 003	4 003	4 559	9 879	10 253	15 637	22 553	7 385	76 272	2 939	10 022	89 234
2001	1 566	3 402	5 171	9 894	9 716	15 694	22 004	7 126	74 572	2 886	10 753	88 210
2002	1 344	3 890	4 999	9 159	9 608	15 317	19 872	7 131	71 320	2 758	8 643	82 721
2003	1 254	5 220	4 770	9 590	9 842	14 381	17 915	6 413	69 385	2 733	8 103	80 221
2004	1 576	3 992	5 197	9 401	10 906	15 461	19 885	8 065	74 482	3 120	8 455	86 057
2005	1 575	3 674	5 248	9 250	9 235	15 561	19 362	6 934	70 838	2 746	8 808	82 392
2006	1 471	3 599	5 016	9 396	8 979	13 588	20 194	6 793	69 035	2 615	8 592	80 242
2007	1 411	3 592	5 098	10 025	8 485	13 283	18 442	6 801	67 137	2 339	9 025	78 501
2008	1 288	2 813	5 014	10 476	7 477	12 060	16 582	5 960	61 669	2 361	8 097	72 127
2009	1 110	2 121	3 235	6 397	5 798	9 980	13 211	4 677	46 529	1 668	7 512	55 709
2010	1 150	1 841	3 195	6 074	5 503	9 711	13 145	4 714	45 332	1 633	7 365	54 330
2011	...	...	3 441	6 418	...	...	...	...	47 039	1 610	6 366	55 015
2012	...	...	3 191	...	...	...	...	...	42 909	1 364	5 772	50 044
2013	...	...	3 079	...	...	...	...	...	45 709	1 305	4 911	51 925
2014	...	...	...	...	...	...	...	...	49 470	1 548	5 111	56 129

(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 2002–2014

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						
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
2011								
Land-won	...	...	...	...	...	...	...	36 589
Marine (a)	...	...	...	—	...	...	...	10 450
Total	...	5 197	19 635	...	12 730	3 480	4 676	47 039
2012								
Land-won	...	...	...	...	...	...	...	33 229
Marine (a)	...	...	...	—	...	...	...	9 680
Total	...	4 527	16 860	...	11 421	4 480	4 406	42 909
2013								
Land-won	...	...	...	69	...	...	...	35 855
Marine (a)	...	...	...	—	...	...	...	9 854
Total	763	4 458	17 882	69	11 227	4 893	6 417	45 709
2014								
Land-won	...	...	...	...	...	...	...	38 785
Marine (a)	...	...	...	...	...	...	...	10 685
Total	...	4 954	19 640	...	11 888	5 461	6 567	49 470

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

Source: Office for National Statistics.

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

Wales production of sand and gravel by end-use 2002–2014

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						
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
2011								
Land-won	...	...	...	—	...	...	...	870
Marine (a)	...	...	...	—	...	...	...	740
Total	...	382	719	—	377	...	70	1 610
2012								
Land-won	...	...	...	—	...	...	...	751
Marine (a)	...	...	...	—	...	...	...	613
Total	...	388	703	—	162	69	...	1 364
2013								
Land-won	...	...	...	—	...	...	...	673
Marine (a)	...	...	...	—	...	...	...	632
Total	...	353	656	—	195	70	...	1 305
2014								
Land-won	...	...	...	—	...	...	...	901
Marine (a)	...	...	...	—	...	...	...	647
Total	...	420	707	—	188	190	...	1 548

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

Source: Office for National Statistics.

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

Scotland (land-won) production of sand and gravel by end-use 2002–2014

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						
2002	...	1 096	2 753	...	1 790	1 021	1 581	8 643
2003	359	1 053	2 886	...	1 724	...	1 132	8 103
2004	181	732	3 309	79	1 994	740	1 421	8 455
2005	...	1 070	3 142	...	2 182	851	986	8 808
2006	...	968	3 219	...	1 745	877	1 197	8 592
2007	...	1 000	3 409	80	1 931	1 058	...	9 025
2008	397	882	2 805	88	1 334	1 189	1 403	8 097
2009	477	753	2 530	84	1 103	1 099	1 466	7 512
2010	533	675	2 531	...	1 081	1 479	...	7 365
2011	484	561	2 237	...	996	...	913	6 366
2012	...	559	2 135	...	1 009	931	...	5 772
2013	...	394	1 823	85	974	815	...	4 911
2014	...	416	1 988	...	969	904	...	5 111

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

Source: Office for National Statistics.

Sandstone

United Kingdom summary 2010–2014

Commodity	2010	2011	2012	2013	2014
	Tonnes				
Sandstone – see Building and dimension stone					
<i>Production</i>	11 557 000	(a) 12 200 000	(a) 11 500 000	(a) 11 500 000	(a) 12 500 000

(a) Includes an estimate for Northern Ireland.

England production of sandstone by end-use 2002–2014

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	
2002	269	...	1 442	771	...	121	760	...	3 153	...	...	...	7 006
2003	...	511	1 644	854	...	80	891	...	2 713	...	...	...	7 005
2004	398	377	1 490	813	203	70	728	1 032	1 904	25	36	...	7 076
2005	424	558	1 345	971	184	55	304	967	2 028	36	39	...	6 910
2006	396	...	1 046	799	187	...	252	1 310	2 499	...	30	...	7 041
2007	365	348	...	824	...	...	...	878	...	...	...	...	6 918
2008	339	...	1 157	646	...	157	607	1 007	1 453	49	...	...	5 854
2009	368	370	...	226	...	—	837	220	675	55	...	...	3 980
2010	512	...	...	600	...	...	532	248	695	...	...	...	4 176
2011	304	459	1 050	774	...	...	335	445	806	...	...	...	4 454
2012	337	483	...	527	...	—	676	299	945	30	...	...	4 451
2013	244	265	...	...	...	...	169	1 271	905	28	...	...	4 318
2014	252	...	981	...	...	—	...	...	836	22	...	...	4 450

Source: Office for National Statistics.

Wales production of sandstone by end-use 2002–2014

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	
2002	10	...	...	416	...	—	426	...	1 023	...	...	—	3 136
2003	...	433	792	430	...	...	641	...	871	...	...	—	3 179
2004	...	529	...	246	173	1	399	480	817	...	—	...	3 241
2005	...	...	646	218	206	—	171	524	660	22	—	...	3 233
2006	14	...	...	234	185	—	...	593	941	11	—	...	3 415
2007	24	...	1 262	281	99	—	225	427	...	16	...	...	3 558
2008	18	...	...	155	...	—	...	112	430	...	...	...	2 323
2009	...	...	1 289	131	...	—	139	63	397	...	...	...	2 667
2010	...	446	1 244	108	128	—	126	171	369	...	...	...	2 807
2011	10	...	...	128	...	—	...	245	360	...	...	...	3 114
2012	14	326	1 399	107	...	—	146	168	392	...	...	...	2 701
2013	...	282	1 300	...	...	—	...	357	426	6	...	...	2 774
2014	11	...	1 303	...	...	—	...	...	326	...	...	...	2 521

Source: Office for National Statistics.

Scotland production of sandstone by end-use 2002–2014

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	
2002	...	108	...	502	...	69	297	...	489	...	...	—	1 645
2003	63	103	104	457	...	65	245	...	442	...	...	1	1 481
2004	28	141	...	145	116	...	87	272	643	...	1	...	1 613
2005	33	...	37	263	...	...	76	170	431	21	1	...	1 466
2006	25	141	...	302	143	...	...	134	356	...	...	...	1 372
2007	30	...	...	244	...	...	...	148	...	...	1	...	1 502
2008	143	...	...	308	...	...	...	204	310	...	...	...	1 381
2009	...	...	...	771	35	—	140	144	342	...	...	...	1 895
2010	...	...	...	558	...	1	201	213	496	...	—	...	1 806
2011	19	...	...	512	27	1	...	221	646	117	—	...	1 910
2012	14	66	...	538	43	—	151	234	394	...	—	...	1 564
2013	...	97	...	608	...	—	...	255	299	22	—	...	1 591
2014	23	...	189	741	...	—	381	572	668	...	—	...	2 766

Source: Office for National Statistics.

Selenium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Selenium										
<i>Imports</i>										
Elemental	1 817	471	462	497	493	17 505	28 027	22 283	17 043	9 364
<i>Exports</i>										
Elemental	297	212	222	265	276	9 657	17 276	14 705	11 379	10 621

Silica sand

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Silica sand										
<i>Production (a)</i>	4 070 000	3 969 000	3 888 000	3 961 000	3 948 000					
<i>Imports</i>	148 619	310 715	137 761	100 057	139 874	10 603	17 191	10 188	9 854	15 682
<i>Exports</i>	100 773	64 924	88 376	87 289	93 849	4 325	4 069	4 013	3 569	5 039

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

Great Britain production of silica sand by end-use and area of origin 2014

Thousand tonnes

Area of origin	Foundry uses	Glass manufacture	Other industrial uses	Agricultural, horticultural & leisure uses	Total
Yorkshire and the Humber (a)	...	...	...	...	...
East Midlands (b)	...	—	...	...	...
West Midlands (c)	...	—	—	...	...
East of England (d)	...	...	...	...	...
South East (e)	...	...	...	...	...
South West (f)	—	—	...	...	...
North West (g)	284	...	353	...	...
England	...	...	...	1 232	3 630
Wales (h)	—	—	—	...	...
Scotland (i)	—	...	...	...	...
Great Britain	...	...	982	1 394	3 948

(a) From North Yorkshire, and Humberside.

(b) From Nottinghamshire and Lincolnshire.

(c) From Staffordshire, West Midlands, Herefordshire and Worcestershire.

(d) From Cambridgeshire, Norfolk, Suffolk, Essex, and Bedfordshire.

(e) From West Sussex, Surrey and Kent.

(f) From Gloucestershire, Cornwall, Dorset and Devon.

(g) From Cumbria and Cheshire.

(h) From Clwyd and Dyfed.

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

Source: Office for National Statistics.

Silicon

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Silicon										
<i>Consumption in Iron and Steel Industry</i>										
Ferro-silicon	26 250	25 600	25 770	...	...			
Calcium silicide	60	60	60	...	...			
Ferro-silico-zirconium	50	50	50	...	...			
Ferro-silico-manganese	16 490	16 080	16 180	...	...			
<i>Imports</i>										
Elemental silicon-										
Containing not less than										
99.99% silicon	3 299	3 577	2 612	12 959	37 518	102 641	103 355	65 985	68 833	120 249
Other	96 352	97 428	94 842	84 565	73 607	156 601	189 956	171 318	135 883	113 794
Ferro-silico-chrome	9	362	723	163	307	10	409	710	268	451
Ferro-silico-magnesium	931	1 328	1 360	1 211	948	1 006	1 583	1 294	1 173	963
Ferro-silico-manganese	49 280	51 928	36 661	43 823	47 122	42 091	41 491	27 725	30 871	30 955
Ferro-silicon	43 703	45 918	39 351	42 966	43 209	41 390	47 339	39 004	42 016	41 350
Doped silicon	434	700	567	484	553	49 386	57 901	50 608	51 971	57 452
<i>Exports</i>										
Elemental silicon-										
Containing not less than										
99.99% silicon	1 135	1 274	1 689	3 526	2 695	56 225	57 962	25 411	48 985	34 911
Other	1 767	2 389	1 338	1 453	2 727	4 585	4 973	2 723	2 814	4 754
Ferro-silico-chrome	22	364	72	168	362	43	268	155	386	741
Ferro-silico-magnesium	366	338	327	240	119	457	550	485	384	169
Ferro-silico-manganese	52	132	7 503	3 626	791	55	75	1 320	919	232
Ferro-silicon	2 958	6 594	4 659	5 109	3 400	5 530	9 006	7 987	8 654	6 307
Doped silicon	675	481	857	616	721	71 505	72 414	69 328	84 870	84 972

Sillimanite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Sillimanite										
<i>Imports</i>										
Sillimanite minerals (a)	7 419	12 485	10 562	6 058	6 814	2 076	3 801	3 090	1 918	2 111
Chamotte earth (b)	52 384	19 473	19 228	26 579	19 936	10 670	3 633	3 367	4 912	3 575
Mullite	8 276	3 491	4 588	3 746	7 306	3 538	2 774	2 603	1 872	2 636
<i>Exports</i>										
Sillimanite minerals (a)	274	558	193	26	107	77	130	47	20	46
Chamotte earth (b)	1 146	900	1 652	4 272	3 276	273	279	486	1 185	871
Mullite	1 104	1 204	948	1 432	958	1 280	1 416	1 161	1 563	1 142

(a) Andalusite, kyanite and sillimanite.

(b) Calcined refractory clay including flint clay.

Silver

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Silver										
<i>Production (a)</i>	1	1	0	0	—					
<i>Imports</i>										
Ores & concentrates	10	1	6	72	395	687	3	693	189	169
Waste & scrap	4 137	13 714	5 946	6 669	5 108	611 252	679 084	460 121	484 233	568 268
Unwrought	2 977	3 355	8 108	5 537	4 163	1 254 899	2 484 852	5 226 872	2 928 645	1 588 002
Partly worked	301	331	418	562	577	89 044	159 143	233 903	213 956	118 845
Silver in unrefined lead bullion (b)	300	260	340	290	190					
<i>Exports</i>										
Ores & concentrates	2	0	—	2	2	22	77	—	1 051	668
Waste & scrap	5 160	11 650	19 738	17 177	11 221	132 182	309 795	367 758	439 430	278 025
Unwrought	2 467	3 019	1 215	3 894	3 347	995 488	2 049 742	778 189	1 820 206	1 156 822
Partly worked	113	918	249	326	170	41 897	554 052	98 654	93 183	41 352

(a) Small quantities have been produced in Northern Ireland as follows:
2010: 506 kilograms; 2011: 531 kilograms; 2012: 230 kilograms;
2013: 82 kilograms; There was no production in 2014.

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

Slate

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Slate										
<i>Production</i>										
Architectural & cladding uses,										
roofing & damp proofing courses	...	26 000	24 000	25 000	48 000					
Powder and granules	...	15 000	26 000	30 000	33 000					
Crude blocks	35 000	22 000	32 000	32 000	39 000					
Fill and other uses	615 000	700 000	618 000	798 000	748 000					
Total	695 000	763 000	701 000	885 000	868 000					
<i>Imports</i>										
Unworked (a)	25 080	23 063	21 968	23 949	28 984	6 604	4 687	5 153	6 211	7 090
<i>Worked-</i>										
Roofing and wall tiles	163 494	(c) 187 125	126 032	158 221	170 864	63 112	(c) 72 290	48 229	62 445	65 819
Other worked slate (b)	29 668	...	56 443	29 492	25 637	8 466	...	22 639	12 180	10 375
<i>Exports</i>										
Unworked (a)	46 745	62 901	115 112	22 273	48 856	920	922	852	1 652	1 796
<i>Worked-</i>										
Roofing and wall tiles	10 319	(c) 14 370	5 672	7 577	10 137	6 349	(c) 7 414	4 652	5 913	6 261
Other worked slate (b)	11 511	...	7 329	10 502	10 776	1 734	...	1 805	2 711	2 430

(a) Including roughly split or squared.

(b) Including articles of slate or agglomerated slate.

(c) All forms of worked slate.

Strontium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Strontium										
<i>Imports</i>										
Carbonate	70	32	288	203	163	45	30	257	194	146
<i>Exports</i>										
Carbonate	5	2	4	45	45	66	71	38	63	134

Sulphur

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Sulphur										
<i>Supply</i>										
Produced (a)	162 000	165 000	158 000	145 000	134 000					
Imported (b)	10 475	10 981	9 795	9 859	12 323					
Sulphur, zinc concentrates (imported) (c)	195	124	52	12	2					
<i>Imports</i>										
Sulphur-										
Crude	274	590	1 125	1 374	4 439	435	755	743	624	662
Refined	10 201	10 391	8 670	8 485	7 885	4 942	6 110	5 471	5 461	4 823
Sublimed, colloidal etc	767	691	698	946	6 647	946	875	666	1 104	1 430
<i>Exports</i>										
Sulphur-										
Crude	41 491	101 964	37 239	27 018	6 154	2 299	8 820	3 936	1 724	402
Refined	1 198	3 686	14 609	7 560	24 766	2 007	1 544	5 042	4 046	3 716
Sublimed, colloidal etc	1 349	2 151	21 385	7 359	31 088	1 096	822	1 854	700	1 690

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

(c) Sulphur content calculated at 29%.

Talc

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Talc										
<i>Production</i>										
	2 633	3 708	3 667	2 947	4 907					
<i>Imports</i>										
	50 309	53 339	57 751	53 099	63 815	15 312	15 952	17 804	18 387	23 540
<i>Exports</i>										
	3 074	3 171	5 026	4 681	3 570	1 497	1 405	1 978	1 684	1 343

Tantalum and Niobium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Tantalum and Niobium										
<i>Consumption in Iron and Steel Industry</i>										
Niobium (a)	270	350	330	...	...			
<i>Imports</i>										
Ferro-niobium	859	395	250	987	1 029	13 712	7 288	5 492	16 015	18 258
Tantalum	284	176	144	203	184	10 642	21 418	28 395	20 168	15 345
Niobium (b)	104	176	130	62	60	9 331	12 560	18 390	4 226	3 591
<i>Exports</i>										
Ferro-niobium	224	179	257	162	195	4 284	5 210	10 491	2 944	3 649
Tantalum	191	97	336	43	61	8 657	10 129	11 571	5 742	4 892
Niobium (b)	45	72	29	142	43	3 971	5 878	1 678	1 584	1 78

(a) Metal content.

(b) Including rhenium.

Tellurium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Tellurium										
<i>Imports</i>										
	98	54	11	8	11	14 999	10 996	727	404	600
<i>Exports</i>										
	92	75	45	5	17	9 004	14 820	7 903	506	538

Tin

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Tin										
<i>Consumption</i>										
Refined	3 000	2 390	1 320	1 140	1 080					
<i>Imports</i>										
Concentrates	0	0	0	1	4	45	48	7	67	35
Unwrought	4 327	4 186	3 850	3 484	4 318	58 068	68 910	52 159	50 362	59 495
Unwrought alloys	365	396	1 113	4 049	5 750	6 829	11 722	8 085	6 331	5 592
Scrap	196	121	147	69	7	384	668	813	255	91
<i>Exports</i>										
Concentrates	163	58	241	86	45	954	371	743	519	370
Unwrought	1 856	1 797	2 092	1 726	332	24 891	30 504	20 761	15 855	5 616
Unwrought alloys	389	545	246	319	293	4 037	6 606	3 995	4 690	4 313
Scrap	13 115	4 414	3 435	1 526	636	12 682	10 404	5 935	3 316	2 169

Titanium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Titanium										
<i>Production</i>										
Titanium dioxide pigment (a)	260 000	280 000	200 000	220 000	240 000					
<i>Apparent consumption (b)</i>	43 500	43 900	84 700	62 600	83 800					
<i>Consumption in Iron and Steel Industry</i>										
Ferro-titanium	710	690	700	...	...			
<i>Imports</i>										
Titanium minerals	90 622	32 127	117 860	104 134	210 722	31 752	11 905	45 671	38 299	101 331
Unwrought	7 994	10 636	14 993	10 664	10 738	52 867	74 526	126 729	81 306	71 656
Scrap	8 388	9 930	9 963	9 892	12 698	24 707	36 399	33 473	25 145	28 739
Wrought	4 299	49 277	8 987	6 543	6 842	153 972	215 133	264 794	308 911	289 548
Ferro-titanium (c)	274	187	902	687	805	813	721	2 787	2 057	2 047
Oxides	6 503	9 218	4 929	4 380	7 762	11 106	18 969	11 566	9 979	12 002
Pigments based on titanium dioxide	52 957	53 093	58 129	70 936	59 381	86 182	113 505	136 239	124 345	104 852
<i>Exports</i>										
Titanium minerals	20	32	13	52	24	35	88	53	197	266
Scrap	4 180	5 757	5 204	3 896	4 233	15 804	23 440	20 112	11 093	12 551
Unwrought	3 683	1 263	709	1 475	1 362	25 579	8 732	5 446	13 148	14 910
Wrought	4 197	4 907	5 628	6 122	6 316	155 259	187 664	239 778	253 944	267 061
Ferro-titanium (c)	15 197	17 662	18 040	22 652	22 831	43 348	60 009	56 342	67 224	62 782
Oxides	867	1 658	1 260	2 985	3 556	2 464	3 489	3 570	3 081	4 612
Pigments based on titanium dioxide	207 651	221 532	140 875	166 563	187 839	322 674	433 688	302 295	323 270	335 956

(a) BGS estimates

(b) BGS estimates; see explanatory notes.

(c) Including ferro-silico-titanium.

Tungsten

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Tungsten										
<i>Consumption in Iron and Steel</i>										
Industry (a)	20	30	30	...	...			
<i>Imports</i>										
Ores & concentrates	2	25	3	8	4	40	388	62	112	44
Scrap	1 278	1 633	1 251	1 437	1 399	15 973	29 479	23 965	26 750	24 886
Unwrought	353	284	562	393	429	5 470	8 358	16 867	10 343	9 531
Wrought	45	82	75	76	130	4 384	5 412	4 814	4 384	5 738
Ferro-tungsten (b)	48	44	34	30	47	763	1 010	846	641	881
Carbide	1 111	3 622	1 245	878	1 740	27 735	96 915	38 383	25 770	55 227
Tungstates	4	1	2	3	1	116	92	117	135	61
Oxides and hydroxides	24	30	4	2	2	117	266	279	130	154
<i>Exports</i>										
Ores & concentrates	29	35	102	67	279	327	783	873	614	1 387
Scrap	1 451	1 862	1 471	2 250	2 111	15 563	33 580	24 634	30 249	28 266
Unwrought	162	218	112	100	85	2 502	7 281	4 483	7 781	5 664
Wrought	36	55	91	98	94	2 645	4 551	6 574	7 182	7 015
Ferro-tungsten (b)	4	3	20	9	2	112	81	453	212	47
Carbide	41	597	463	400	232	983	2 984	8 573	6 725	5 808
Tungstates	6	10	7	45	14	117	258	131	639	175
Oxides and hydroxides	6	10	33	24	13	68	44	283	209	154

(a) Metal content.

(b) Including ferro-silico-tungsten.

Vanadium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Vanadium										
<i>Consumption in Iron and Steel</i>										
Industry (a)	50	70	60	...	...			
<i>Imports</i>										
Unwrought	197	376	261	199	168	4 670	7 219	4 855	3 959	2 998
Oxides	5	17	21	0	1	74	73	70	9	30
Ferro-vanadium	340	368	246	339	450	4 413	5 256	3 186	5 065	4 761
<i>Exports</i>										
Unwrought	23	32	11	36	47	682	682	202	659	850
Oxides	694	6	0	0	0	7 806	70	25	9	5
Ferro-vanadium	24	52	31	45	13	328	712	409	591	142

(a) Vanadium content of ferro-vanadium.

Vermiculite

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Vermiculite										
<i>Imports (a)</i>	58 456	98 437	66 298	59 424	77 419	5 357	12 950	8 508	7 087	9 937
<i>Exports (a)</i>	1 059	1 116	1 228	1 459	935	822	825	845	772	557

(a) Figures also include perlite and chlorites.

Zinc

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Zinc										
<i>Consumption</i>										
Slab	96 641	86 892	80 031	100 314	114 479					
<i>Imports</i>										
Ores & concentrates	574	426	178	43	6	970	749	200	222	131
Ash and residues	2 898	7 300	2 248	13 417	70 950	1 243	1 280	983	1 180	2 079
Unwrought	97 066	85 516	77 847	98 448	113 410	144 172	127 929	105 654	129 865	158 077
Unwrought alloys	2 973	9 306	8 917	8 469	5 177	4 156	14 185	12 616	12 337	8 405
Scrap	447	339	412	533	1 412	409	365	398	550	1 850
<i>Exports</i>										
Ores & concentrates	8 405	9 714	5 561	4 720	7 515	2 992	5 425	6 923	2 156	2 829
Ash and residues	9 139	7 283	7 238	7 008	7 814	8 422	7 383	6 601	6 130	7 065
Unwrought	3 580	2 724	1 823	2 138	2 930	4 937	4 959	2 749	2 906	4 093
Unwrought alloys	14 561	12 737	13 580	11 251	17 173	21 409	19 227	18 475	15 853	27 353
Scrap	14 903	12 545	9 897	4 375	4 736	18 207	16 005	12 407	4 557	5 449

Zirconium

United Kingdom summary 2010-2014

Commodity	2010	2011	2012	2013	2014	2010	2011	2012	2013	2014
	Tonnes					£ thousand				
Zirconium										
<i>Apparent consumption (a)</i>	4 000	7 000	4 000	3 000	3 000					
<i>Consumption in Iron and Steel Industry</i>										
Ferro-silico-zirconium	50	50	50	...	...			
<i>Imports</i>										
Ores and Concentrates (b)	8 450	14 709	8 928	6 879	7 974	7 204	18 710	17 257	10 575	8 875
Scrap	139	197	179	174	164	885	1 140	1 089	1 061	1 044
Unwrought	190	345	215	260	197	3 088	4 504	5 143	5 049	3 918
Wrought	82	74	88	79	30	1 219	1 174	1 691	2 109	944
<i>Exports</i>										
Ores and concentrates	1 405	1 661	818	1 037	1 261	1 728	3 482	2 089	2 659	2 967
Scrap	76	12	13	44	47	338	114	156	433	310
Unwrought	0	88	189	21	9	6	153	399	184	170
Wrought	15	2	11	1	4	336	232	371	177	358

(a) BGS estimates; see explanatory notes.

(b) Mainly zircon.