

World Mineral Production



2010–2014



**British
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BRITISH GEOLOGICAL SURVEY

WORLD MINERAL PRODUCTION 2010–14

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PREFACE

Welcome to the latest edition of World Mineral Production, which includes global mineral production data for 2014 and is a continuation of the dataset that began in 1913.

This publication is compiled from a comprehensive database, maintained by the British Geological Survey, through which we aim to provide a reliable, comprehensive and continuous set of data covering most of the minerals that enter international trade. In this volume we have set out the production figures by country for more than 70 mineral commodities, over the five-year period from 2010 to 2014. The objective of this series remains to present the latest production information obtained from official bodies in individual countries, although other sources are also used to ensure completeness and accuracy. The cooperation afforded to the British Geological Survey by numerous national and international organisations is gratefully acknowledged.

As always, the statistics contained in this latest volume reveal some interesting trends in the global outputs of several mineral commodities. For example, the implementation of a new mining law in Indonesia prohibiting the export of unprocessed ores is clearly reflected in the production data for mined nickel and bauxite, with the former falling by 21 per cent and the latter by nearly 13 per cent. Indonesia's output of these two ores fell by 75 per cent and 96 per cent respectively. Although ore production increased in other countries, this was insufficient to compensate for the reduced output from Indonesia. Other notable decreases in world production were for mined antimony (reduced by 19 per cent between 2013 and 2014), fluorspar (reduced by 17 per cent) and platinum group metals (reduced by approximately 18 per cent). The decline in platinum group metals production was due to a reduction in output from South Africa, whilst China reduced production of antimony and fluorspar.

Conversely, the production of many other mineral commodities increased in 2014 compared to 2013. For example the world's output of smelter copper increased by 22 per cent, mined bismuth by 21 per cent and mercury by just under 21 per cent. The increased bismuth production was primarily due to a new mine opening in Vietnam, while the other two are due to significant increases in output from China, equating to a 54 per cent increase in smelter copper and a 25 per cent increase in the production of mercury.

Mercury and smelter copper also feature prominently when examining the production trends over the five year period covered by this volume. Global output of mercury has increased by 38 per cent between 2010 and 2014, while smelter copper increased by nearly 32 per cent over the same period. Other notable production increases over the five year period included phosphate rock and tungsten (a 35 per cent increase each), refined nickel (nearly a 33 per cent increase) and potash (a 30 per cent increase). Aside from China, other countries that have contributed significantly to these increases in global production are Brazil and Madagascar (smelter

copper and refined nickel), Russia (potash), Canada (potash and tungsten), New Caledonia (refined nickel) and Spain (tungsten). We look forward to adding the United Kingdom to the statistics for tungsten next year, following the first shipments of concentrates from the newly opened Drakelands Mine at the Hemerdon Project in Devon in 2015.

However, over the five year period covered by this volume the production of some mineral commodities has significantly declined. For example, the production of platinum group metals declined by nearly 23 per cent between 2010 and 2014, fluorspar decreased by 14 per cent and zirconium decreased by 10 per cent. As noted above, the reduction in global production of platinum group metals is partially due to a fall in output from South Africa, but Russia's production has also declined over the five year period by 27 per cent. The decline in global output of fluorspar is principally caused by a decrease in China's production, but the fall in the production of zirconium is due to reductions in outputs from a number of countries; the most notable in percentage terms are Sri Lanka (reduced by 96 per cent over the five years) and Vietnam (reduced by 71 per cent).

Concern surrounding the worldwide security of supply of minerals, which has been evident for a few years now continues. Particular interest focusses on the so called 'critical' minerals, i.e. those elements that are essential for new and/or green technologies. New policies and programmes of supporting research have continued to be developed across the entire worldwide supply chain, with the common aims of diversifying the supply base, improving resource efficiency (which includes, but is not limited to, recycling), and developing alternatives for the most constrained elements both in terms of substituting materials and other technologies.

During the past year, the BGS has been involved with a range of raw materials-related research, including the conclusion of the 'European Intelligence Network on the Supply of Raw Materials' project (Minerals4EU); the deliverables from which included a new digital European Minerals Yearbook accessible at: www.minerals4eu.brgm-rec.fr/m4eu-yearbook/theme_selection.html. This new and innovative compilation combines, for the first time statistical data relating to resources, reserves, exploration and waste flows, as well as production and trade of primary minerals. In addition, BGS involvement continues in the European rare earth element project (EURARE; www.eurare.eu) and Blue Mining (www.bluemining.eu), which is focussed on sustainable deep sea mining. New raw materials-related research involving BGS includes the Mineral Intelligence Capacity Analysis (MICA) project and the next update of the European Commission's list of critical raw materials.

As always, I would welcome any comments and suggestions that you have relating to this volume which might help us to meet your ongoing needs.

John N Ludden
Executive Director

British Geological Survey
Keyworth
Nottingham

February 2016

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Coverage

World Mineral Production covers the majority of economically important mineral commodities. For each commodity constant efforts are made to ensure that as many producing countries as possible are reported. For some commodities, where statistics on production are not publicly available, estimates are made. Users of this compilation are advised that more statistical information than can be included in a publication of this nature is held in the British Geological Survey files and is available for consultation. Historical data (from 1913 for many commodities) can be obtained from the predecessors to this series entitled *World Mineral Statistics* and the *Statistical Summary of the Mineral Industry*. Copies of these publications are available in the World Archive section of the website: www.mineralsUK.com.

Arrangement of countries

Countries are ordered alphabetically in geographical groupings as follows:

- Europe
- Africa
- North and Central America, including the Caribbean
- South America
- Asia
- Australasia, including the Pacific Islands

Metals

Mine production of many metals is expressed in terms of metal content. This is clearly indicated at the head of the table, adjacent to the unit used. For aluminium, cobalt, copper, iron, lead, nickel, tin and zinc, mine production and metal production are shown in separate tables. Unless otherwise specified, metal production statistics relate to metal recovered from both domestic and imported materials, whether primary or secondary, but exclude remelted material wherever possible.

World totals

For certain minerals and metals no world total is shown due to the non-availability of certain individual country totals.

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Acknowledgements

Compilation of this volume of mineral statistics has been possible only by obtaining information from a very large number of organisations throughout the world, chiefly home and overseas government departments and specialist national or international authorities concerned with particular sectors of the minerals or metals industries. To all these bodies the British Geological Survey expresses its grateful acknowledgement for the information made available, whether

in published form or provided by direct correspondence. Particular acknowledgement is made to the Mines Departments and other government agencies of many countries whose regular statements, yearbooks and other reports are worthy of direct consultations by readers in search of detail.

Specialist commodity organisations which have kindly allowed information to be reproduced include the International Copper Study Group, the International Lead and Zinc Study Group, the International Nickel Study Group, the Barytes Association and the International Fertilizer Industry Association Ltd. In a few instances, information on specific commodities has been obtained directly from company sources. The co-operation of other members of the International Consultative Group on Non-Ferrous Metal Statistics is also gratefully acknowledged.

Supplementary information is also obtained from publications dealing with a wider range of commodities such as Société de l'Industrie Minérale, *Annuaire Statistique Mondial des Minerais et Métaux*; World Bureau of Metal Statistics, *World Metal Statistics* and, *Metallstatistik*; publications of the Interstate Statistical Committee of the CIS, the United States Geological Survey, and UN agencies.

In addition, information has been obtained from the websites of the following organisations, companies, statistical offices and government departments: United Nations; BP Plc; Eurofer; Eurostat; Instituto Latinoamericano del Fierro y el Acero; International Iron and Steel Institute; Kaolin & Plastic Clays Europe; Kimberley Process; World Nuclear Association; African Development Bank; Agnico Eagle Mines; Altona Mining; Aluminium de Greece; Amara Mining plc; Altyntau; Anglo American; AngloGold Ashanti; ARMZ; Aura Minerals Inc; Avocet Mining plc; Belvedere Resources; BHP Biliton; Breakwater Resources; Centamin; Centerra Gold; Consolidated Murchison; CNW Group; CZP; Dominion Salt; Dragon Mining; Dundee Precious Metals; Eagle Graphite; ElektroZinc; Endeavour Mining; Endominex; ENRC; Eramet; Exxaro; Eurozinc Mining Corporation; Evraz; Falconbridge Limited; First Quantum; Glamis Gold; Glencairn Gold; Glencore Xstrata; GoldBridges; Goldcorp Inc; Iamgold Corporation; Inmet Mining; IRC Group; Kazzinc; Kazakhmys; Lappland Goldminers; Lundin Mining; MMG; Nevsun; New Boliden; Nickel Asia; Nordgold; Norilsk Nickel; Norsk Hydro; Nyrstar; Orosur Mining Inc; Outokumpu; Paladin Energy Ltd; PanAust Mining; Phosagro; Phosphate Resources Ltd; Polymetal Internationa; Qatalum; Qatar Steel Company; RandGold Resources; Resolute Mining; Rich Metal Group; Rio Narcea; Rio Tinto; Ronphos Corporation; RNC Gold; Rusal; Semafo; Sherritt Internationa; SMR; SMZ company; Stillwater Mining; Sun-gold; Talvivaara; UMMC; Uralkali; Vitmetco; Weatherly International Plc; Aluar Aluminio Argentino, Argentina; Alumbra, Argentina; Institute of Argentinean Petroleum and Gas, Argentina; Institute of Argentinean Steel, Argentina; Acero Argentinos; Northern Territory Government, Australia; Department of Primary Industries Victoria, Australia; Mineral Resources Tasmania, Australia; Bureau of Resources and Energy Economics, Australia; Vereinigung der Osterreichischen Zementindustrie, Austria; Department of Statistics of the Bahamas; Energy Bangla, Bangladesh; Petrobangla, Bangladesh; Central Bank of Barbados; Federation de l'Industrie Cimentiere Belge, Belgium; Belgian Steel Federation; Statistics Belgium; Instituto Nacional de Estadística Bolivia; Cámara Boliviana de Hidrocarburos, Bolivia; Ministry of Mining and Metallurgy, Bolivia; Republika Srpska Institute of Statistics, Bosnia & Herzegovina; Agency for Statistics; Bosnia & Herzegovina; Departamento Nacional De Producao Mineral, Brazil; Grupo

Parapanema, Brazil; Agencia Nacional do Petroleo, Brazil; Associação Brasileira do Alumínio, Brazil; Ministerio de Minas y Energia, Brazil; Sindicato da Indústria Carbonífera de Santa Catarina, Brazil; Ministry of Energy, Bulgaria; Chamber of Mines, Burkina Faso; Natural Resources Canada; Statistics Canada; Canadian Association of Petroleum Producers; Mineral Resources of Quebec, Canada; Canadian Clay Products; Chilean Copper Commission; National Service for Geology and Mining, Chile; China Mining Association; National Bureau of Statistics, China; Ministerio De Minas Y Energia, Columbia; Oficina Nacional de Estadísticas, Cuba; Czech Republic Statistical Office; Statistics Denmark; Danish Energy Agency, Denmark; Agencia de Regulation y Control Minero, Ecuador; Ministerio de Recursos Naturales No Renovables, Ecuador; Fiji Bureau of Statistics; Geological Survey of Finland; Federation des Minerais, Mineraux Industrielles et Metaux non Ferreux, France; Comite Professionel de Petrole, France; Unicem, France; Infociments, France; Statistisches Bundesamt Deutschland, Germany; RW Silicium, Germany; BEB Erdgas und Erdol, Germany; Verband der Kali, Germany; National Statistical Service of Greece; National Bank of Guyana; Ministerio de Energia y Minas, Guatemala; Federacciai, Italy; Unione Petrolifera, Italy; Istituto Nazionale di Statistica, Italy; Salt Industry Centre, Japan; Metal Economics Research Institute, Japan; Statistics Agency of Kazakhstan; Korea Institute of Geoscience and Mineral Resources, Republic of Korea; State Agency of Geology and Mineral Resources, Kyrgyz Republic, Kyrgyzstan; Statec, Luxembourg; Bank Negara, Malaysia; Minerals & Geoscience department Malaysia; Pemex, Mexico; Cámara Nacional de la Industria del Hierro y del Acero, Mexico; Instituto Nacional de Estadística y Geografía, Mexico; Servicio Geológico de Mexico; Penoles, Mexico; Mineral Autlan, Mexico; Grupo Mexico; Mineral Resources & Petroleum Authority of Mongolia; Statistics Office of Montenegro; Bank al Maghrib, Morocco; Ministry of Mines, Morocco; Ministry of Mines and Energy, Namibia; Bank of Namibia; RONphos Corporation, Nauru; Centraal Bureau voor de Statistiek, Netherlands; Staatstoezicht op de Mijnen, Netherlands; Netherlands Oil and Gas Portal; Ministry of Economic Development, New Zealand; Central Bank, Nicaragua; Ministry of Energy and Mines, Nicaragua; National Bureau of Statistics, Nigeria; Statistisk Sentralbyra, Norway; Geological Survey of Norway; Norwegian Petroleum Directorate; Central Bank of Oman; Ministry of National Economy, Oman; Direccion de Estadística y Censo, Panama; Chamber of Mines and Petroleum, Papua New Guinea; PeruPetro; Ministerio de Energia y Minas, Peru; Sociedad Nacional de Minería Petroleo y Energia, Peru; Mines and Geosciences Bureau, Philippines; Instituto Nacional de Estadística, Portugal; Ministry of Agriculture, Portugal; Centre National de la Statistique et des Etudes Economiques, Republic of Congo; Johnson Matthey, Russia; National Bank of Rwanda; Agence Nationale de la Statistique et de la Démographie, Senegal; Statistical Office of the Republic of Serbia; Central Bank of Sierra Leone; Statistical Office of the Republic of Slovenia; Central Bank of Solomon Islands; Unesid, Spain; Staatsolie Maatschappij, Suriname; Sveriges Geologiska Undersokning, Sweden; Jernkontoret, Sweden; Statistiska Centralbyran, Sweden; Bureau of Mines, Taiwan; National Statistics, Taiwan; Bank of Thailand; Central Bank of Trinidad and Tobago; Department of Business, Innovation and Skills, United Kingdom; Department of Energy and Climate Change, United Kingdom; Office for National Statistics, United Kingdom; Energy Information Administration, United States of America; Direccion Nacional de Minería y Geología, Uruguay; General Statistics Office, Vietnam.

Units

The Statistics shown in this volume are expressed in metric units. The following factors are given for converting to non-metric units:

tonnes \times 0.9842 = long tons

tonnes \times 1.1023 = short tons

kilograms \times 2.2046 = pounds

kilograms \times 32.1507 = troy ounces

cubic metres \times 35.3147 = cubic feet

1 tonne of crude petroleum equals on average 7 barrels of crude petroleum.

1 flask mercury = 34.5 kilograms

Symbols

...	figures not available
0	quantity less than half unit shown
—	nil
*	estimated
BGS	British Geological Survey

STATISTICAL INFORMATION

Production of bauxite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bosnia & Herzegovina	827 909	707 712	800 316	657 115	605 215
Croatia	2 300	4 800	5 690	8 220	* 8 000
France	93 100	80 800	90 000	100 000	71 000
Greece	1 902 000	2 324 000	1 816 000	1 844 000	1 876 000
Hungary	307 000	277 800	255 000	93 700	14 000
Montenegro	61 205	158 614	—	61 154	155 153
Russia	5 035 000	5 380 000	5 166 000	5 322 000	5 589 000
Turkey	1 311 064	1 024 915	1 521 150	795 562	* 800 000
Ghana	512 208	400 069	752 771	826 994	940 389
Guinea	16 427 300	17 593 100	17 326 140	18 330 620	18 742 730
Mozambique	8 556	10 352	8 633	6 190	2 910
Sierra Leone	1 089 131	1 457 507	776 000	616 000	1 161 000
Tanzania	39 326	29 520	28 434	39 977	25 641
Dominican Republic	8 888	—	10 522	769 530	1 446 311
Jamaica	8 539 853	10 188 916	9 339 291	9 435 214	9 676 697
Mexico	21 250	14 400	96 000	—	—
USA (a)	59 143	63 121	128 152	* 128 000	* 128 000
Brazil (b)	32 028 000	33 624 600	34 987 800	33 848 700	35 409 900
Guyana	1 082 512	1 818 399	2 213 972	1 713 242	1 563 563
Suriname	3 096 650	3 236 111	2 904 509	2 670 683	2 707 720
Venezuela	3 126 242	2 454 769	2 285 949	2 341 155	2 315 787
China	36 837 200	37 173 800	44 052 300	50 339 400	* 65 000 000
India (c)	12 722 820	13 599 566	16 611 610	21 666 011	20 201 310
Indonesia	27 410 375	40 643 852	31 443 325	57 023 774	2 556 429
Iran (d)	681 235	818 224	898 437	899 316	* 900 000
Iraq	3 350	—	—	—	—
Kazakhstan	5 310 000	5 495 000	5 170 000	5 192 800	4 515 600
Malaysia	124 274	188 141	121 873	208 770	962 799
Pakistan (e)	11 131	9 033	28 768	25 305	33 403
Saudi Arabia	235 811	206 299	760 114	1 044 360	1 964 514
Vietnam	* 80 000	* 100 000	* 100 000	482 000	1 090 000
Australia	68 584 000	70 231 216	76 281 245	81 119 334	78 632 393
Fiji	—	—	349 556	564 777	489 476
World total	228 000 000	249 000 000	256 000 000	298 000 000	260 000 000

Notes

(1) This table includes production of refractory bauxite

(a) Data for Alabama only

(b) Including beneficiated and direct shipping ore

(c) Years ended 31 March following that stated

(d) Years ended 20 March following that stated

(e) Years ended 30 June of that stated

Production of alumina

tonnes (Al₂O₃ content)

Country	2010	2011	2012	2013	2014
Azerbaijan	—	6 188	101 780	—	—
Bosnia & Herzegovina	269 414	261 874	202 416	175 961	170 646
France	481 000	470 000	430 000	430 000	* 400 000
Germany	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
Greece	661 882	683 030	653 011	664 510	674 000
Hungary	* 139 000	* 132 000	* 111 000	* 81 000	* 1 000
Ireland, Republic of	1 211 600	1 249 300	1 250 600	1 264 689	1 270 784
Romania	414 000	484 000	414 000	391 000	363 000
Russia	2 857 000	2 825 000	2 719 000	2 659 000	2 572 000
Spain	* 1 300 000	* 1 300 000	* 1 100 000	* 1 400 000	* 1 400 000
Turkey	* 160 000	* 210 000	* 220 000	* 186 000	* 190 000
Ukraine	1 534 000	1 601 000	1 429 000	1 493 000	1 455 000
Guinea	597 000	574 000	150 000	—	—
Canada	1 416 594	1 473 271	1 498 600	1 554 604	1 562 559
Jamaica	1 590 658	1 959 926	1 757 693	1 854 910	1 850 960
USA	3 468 000	3 792 000	4 372 000	4 388 000	4 393 000
Brazil	9 523 900	10 306 800	10 320 600	9 942 100	10 439 200
Suriname	1 486 449	1 421 464	1 202 806	1 149 392	1 149 388
Venezuela	1 244 000	1 265 530	808 043	579 874	660 195
China	29 064 900	34 077 600	37 696 300	43 378 700	50 737 000
India (a)	3 576 890	3 930 950	3 609 815	* 3 700 000	* 4 000 000
Iran (b)	236 476	233 000	228 000	248 000	383 000
Japan	* 550 000	* 500 000	* 350 000	* 250 000	* 120 000
Kazakhstan	1 640 000	1 670 000	1 510 000	1 590 000	1 419 000
Vietnam	—	—	—	214 000	485 000
Australia	19 806 000	18 726 564	20 914 745	21 528 263	20 475 608
World total	84 200 000	90 200 000	94 000 000	100 100 000	107 200 000

Notes

- (1) Where possible figures in this table show the alumina equivalent (Al₂O₃) of total hydrate produced, whether or not calcined
(2) The figures in this table represent alumina produced from bauxite. Alumina-rich materials can also be derived from salt slags formed during the production of secondary aluminium

(a) Years ended 31 March following that stated

(b) Years ended 20 March following that stated

Production of primary aluminium

tonnes (metric)

Country	2010	2011	2012	2013	2014
Azerbaijan	379	6 817	54 890	53 290	50 357
Bosnia & Herzegovina	150 488	163 924	159 660	157 191	131 238
Croatia	666	600	—	—	—
France	356 000	334 000	349 000	343 000	415 000
Germany	402 480	432 472	410 413	492 368	530 700
Greece	137 000	165 150	165 050	169 480	173 260
Iceland	825 803	780 853	802 827	736 429	748 949
Italy	129 500	141 900	99 600	—	—
Montenegro	82 043	92 838	74 813	47 951	42 767
Netherlands	217 000	* 200 000	86 300	81 000	800
Norway	1 090 000	1 201 000	1 110 900	1 154 900	1 250 000
Romania	241 000	261 000	249 000	250 000	263 000
Russia	3 947 000	3 992 000	4 024 000	3 724 000	3 488 000
Slovakia	163 000	162 840	160 662	163 000	168 000
Slovenia	40 177	75 300	83 300	84 035	* 84 000
Spain	456 500	408 400	386 395	* 250 000	* 230 000
Sweden	93 000	111 000	129 000	131 000	113 000
Turkey	54 100	56 400	43 700	32 200	30 400
Ukraine	25 000	7 000	—	—	—
United Kingdom	186 000	213 000	60 000	45 000	41 000
Cameroon	76 000	69 000	52 000	75 000	93 000
Egypt (a)	352 818	353 904	393 696	318 459	307 000
Ghana	—	35 000	38 000	36 600	38 100
Mozambique	551 000	562 000	562 000	562 000	568 000
Nigeria	18 000	15 000	22 000	2 000	—
South Africa	807 000	810 000	665 000	822 000	745 000
Canada	2 963 210	2 987 964	2 780 556	2 967 364	2 858 238
USA	1 725 700	1 986 000	2 070 300	1 946 000	1 710 400
Argentina	416 509	420 299	412 692	434 758	442 719
Brazil	1 536 200	1 440 400	1 436 400	1 304 100	962 000
Venezuela	353 658	330 000	203 000	171 717	138 334
Bahrain	850 700	881 310	890 200	912 700	931 427
China	16 244 100	18 134 700	20 251 000	23 155 400	27 517 400
India (b)	1 621 033	1 654 156	1 720 427	1 516 165	1 597 580
Indonesia	253 300	246 300	253 000	255 300	264 500
Iran (c)	282 000	329 000	337 000	350 000	286 500
Japan	4 700	4 700	4 500	3 000	500
Kazakhstan	227 000	249 000	249 000	250 159	207 849
Malaysia	60 000	188 100	121 900	* 290 000	440 000
Oman	367 000	373 000	360 000	354 000	364 000
Qatar	125 177	468 789	627 971	634 351	612 000
Saudi Arabia	—	—	—	187 000	665 000
Tajikistan	348 845	278 364	272 506	216 369	121 000
United Arab Emirates	1 400 000	1 750 000	1 814 000	1 845 000	2 296 000
Australia	1 928 000	1 944 858	1 864 184	1 777 408	1 704 286
New Zealand	344 000	357 000	325 000	324 000	327 000
World total	41 500 000	44 700 000	46 200 000	48 600 000	53 000 000

Notes

(1) The figures in this table are for primary aluminium only. Aluminium can also be produced from secondary sources and may be recovered from salt slags

(a) Years ended 30 June of that stated

(b) Years ended 31 March following that stated

(c) Years ended 20 March following that stated

Mine production of antimony

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Russia	6 039	6 348	* 6 400	* 6 520	* 6 500
Turkey	1 403	2 340	7 119	4 512	* 4 500
Morocco	1 696	1 570	710	* 1 000	* 1 000
South Africa	2 257	2 391	3 044	2 332	816
Canada	100	100	100	177	5
Guatemala	—	—	62	159	—
Mexico	98	105	169	294	271
Bolivia	4 980	3 947	5 081	5 053	4 186
Burma	* 4 700	* 5 600	* 5 900	* 7 400	* 3 300
China	129 831	123 900	135 600	152 100	* 120 000
Kazakhstan	840	800	600	900	800
Kyrgyzstan	842	892	924	900	2 450
Laos	265	728	521	804	620
Pakistan (a)	25	—	12	89	127
Tajikistan	8 500	6 642	6 645	7 307	6 500
Thailand	705	442	672	488	706
Vietnam	243	286	480	990	1 074
Australia (a)	707	1 751	1 950	3 277	3 828
World total	163 000	158 000	176 000	194 000	157 000

Notes

(1) This table includes antimony content of antimonial lead alloys

(2) In addition to the countries listed, antimony may be produced in Honduras but available information is insufficient to make a reliable estimate.

(a) Years ended 30 June of that stated

Production of white arsenic

tonnes (metric)

Country	2010	2011	2012	2013	2014
Belgium	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	* 15	* 15	* 15	* —	* —
Russia	* 1 500	* 1 500	* 1 500	* 1 500	* 1 500
Morocco	13 731	8 154	8 820	8 968	* 8 800
Bolivia	155	99	104	120	52
China	* 25 000	* 25 000	* 26 000	* 25 000	* 25 000
Japan	* 40	* 45	* 45	* 45	* 45

Notes

(1) This table includes calculated trioxide equivalent of arsenic metal produced except where this would involve double counting

Production of asbestos

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 050 000
Zimbabwe					
Chrysotile	2 031	—	30	377	* 380
Canada					
Chrysotile	* 100 000	* 50 000	* —	* —	* —
Argentina	341	105	102	* 100	* 100
Brazil	302 257	306 320	304 568	290 825	311 230
China	* 400 000	* 440 000	* 420 000	* 420 000	* 400 000
India					
Amphibole (a)	268	276	389	227	* 200
Kazakhstan	214 100	223 200	241 000	243 300	213 100
World total	2 000 000	2 000 000	2 000 000	2 000 000	2 000 000

Notes

(1) In addition to the countries listed, asbestos may also be produced in Afghanistan, North Korea, Romania and Slovakia.

(a) Years ended 31 March following that stated

Production of barytes

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bosnia & Herzegovina	57	13	28	—	—
Bulgaria	500	200	—	1 000	20 000
Georgia	—	—	—	—	500
Germany	55 887	55 342	52 030	45 446	70 665
Italy	* 3 500	* 3 500	* 3 500	* 3 500	* 3 500
Portugal	15	—	—	—	—
Russia	* 64 000	* 64 000	* 64 000	* 64 000	* 45 000
Slovakia	17 000	13 000	21 000	24 000	21 000
Spain	2 050	—	—	—	—
Turkey	172 618	250 786	* 250 000	* 250 000	* 340 000
United Kingdom	34 099	31 000	30 000	* 30 000	* 44 000
Algeria	42 254	36 500	36 000	30 250	56 829
Egypt	3 600	* 4 000	* 4 000	3 821	* 4 000
Morocco	572 429	769 504	1 021 400	1 094 500	1 006 600
Nigeria	10 749	* 11 000	* 11 000	* 11 000	* 11 000
Tunisia	—	5 700	* 5 700	* 5 700	* 5 700
Zimbabwe	—	—	—	300	200
Canada	22 000	22 000	22 000	25 000	25 000
Guatemala	11	334	91	343	43
Mexico	143 225	134 727	139 997	119 402	130 914
USA (a)	662 000	710 000	666 000	* 700 000	* 720 000
Argentina	2 858	5 053	* 4 200	* 4 200	* 4 200
Bolivia	7 845	21 297	20 400	30 476	26 240
Brazil (b)	41 385	7 039	3 025	* —	* —
Colombia	* 2 000	* 2 000	* 2 000	2 039	* 2 000
Peru	52 275	86 790	79 451	52 491	106 071
Afghanistan	* 1 000	500	300	400	500
Burma (c)	14 119	32 183	21 539	31 295	23 060
China	3 900 000	4 300 000	4 400 000	3 500 000	4 100 000
India (c)	2 338 806	1 776 980	1 789 431	1 136 814	1 438 670
Iran (d)	326 275	271 454	314 769	435 798	* 440 000
Kazakhstan	358 000	466 000	590 000	530 200	200 000
Laos	17 500	12 400	23 000	27 000	46 000
Malaysia	1 000	—	—	500	—
Pakistan (e)	57 166	31 836	48 510	118 471	132 433
Saudi Arabia	30 000	30 000	32 000	30 000	32 000
Thailand	33 465	67 703	64 499	107 437	134 961
Vietnam	90 000	90 000	90 000	90 000	100 000
Australia	16 529	10 569	10 273	13 176	14 676
World total	9 100 000	9 300 000	9 800 000	8 500 000	9 300 000

Notes

(1) This table may include small quantities of witherite

(a) Sold or used by producers

(b) Including beneficiated and directly shipped material

(c) Years ended 31 March following that stated

(d) Years ended 20 March following that stated

(e) Years ended 30 June of that stated

Production of bentonite and fuller's earth

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia					
Bentonite	1 397	835	4 987	15 387	798
Azerbaijan					
Bentonite	18 100	20 679	36 700	91 958	76 512
Bosnia & Herzegovina					
Bentonite (a)	314	—	—	18 808	80 952
Bulgaria					
Bentonite	99 700	53 900	77 900	—	* —
Cyprus					
Bentonite	162 969	160 625	160 180	158 386	140 174
Czech Republic					
Bentonite	183 000	160 000	221 000	226 000	301 000
Denmark					
Bentonite	23 832	38 300	30 330	56 355	66 388
France					
Bentonite	25 000	20 000	28 000	25 000	20 000
Germany					
Bentonite	362 623	375 332	366 220	358 844	394 657
Greece					
Bentonite	844 804	1 250 000	1 235 110	1 200 000	1 000 000
Hungary					
Bentonite	17 200	22 931	1 392	7 397	* 10 500
Italy					
Bentonite	104 279	112 811	95 757	20 129	20 658
Macedonia					
Bentonite	7 084	8 918	2 355	18 520	11 691
Poland					
Bentonite	2 000	910	780	1 050	650
Romania					
Bentonite	21 637	19 864	19 241	24 127	18 583
Russia					
Bentonite	* 460 000	* 460 000	* 460 000	* 460 000	* 460 000
Slovakia					
Bentonite	153 000	213 000	177 000	184 000	205 000
Slovenia					
Bentonite	135	168	98	143	199
Spain					
Bentonite	157 001	110 371	96 605	102 726	* 100 000
Attapulгите	27 841	26 021	23 537	26 764	* 26 800
Sepiolite	557 862	566 270	622 372	599 352	555 581
Turkey					
Bentonite	718 260	471 528	1 033 568	622 872	* 620 000
Sepiolite	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Ukraine					
Bentonite	185 000	211 000	219 000	* 219 000	* 219 000
Algeria					
Bentonite	34 126	29 000	26 000	27 670	31 510
Egypt					
Bentonite (b)	33 132	17 709	4 594	2 523	* 2 000
Kenya					
Bentonite	65	70	75	80	* 80
Malawi					
Bentonite	2 100	2 450	—	—	—
Morocco					
Bentonite	110 703	97 071	91 200	105 240	98 757
Fuller's earth (c)	82 570	103 682	81 800	59 000	* 60 000
Mozambique					
Bentonite	459	493	1 459	* 1 500	* 1 500
Senegal					
Attapulгите	204 300	179 900	180 500	234 600	191 400
South Africa					
Bentonite	82 341	120 417	120 566	177 187	169 591
Attapulгите	57 606	14 448	15 850	21 233	18 376

Production of bentonite and fuller's earth

tonnes (metric)

Country	2010	2011	2012	2013	2014
Canada					
Bentonite (d)	4 542	2 266	2 015	3 451	2 083
Cuba					
Bentonite	228	1 244	668	335	700
Guatemala					
Bentonite	22 423	12 270	16 183	18 377	38 368
Mexico					
Bentonite	590 998	563 795	956 224	617 632	* 620 000
Fuller's earth	170 350	107 436	227 496	301 462	* 300 000
USA					
Bentonite (e)	4 630 000	4 950 000	4 980 000	4 350 000	* 4 660 000
Fuller's earth (e)	2 050 000	1 950 000	1 980 000	1 990 000	* 2 070 000
Argentina					
Bentonite	229 301	236 125	193 795	* 200 000	* 200 000
Brazil					
Bentonite	531 693	566 267	512 975	434 000	* 400 000
Chile					
Bentonite	—	1 255	893	358	1 083
Colombia					
Bentonite	* 8 500	* 8 500	* 8 500	9 056	* 9 000
Ecuador					
Bentonite	510	—	* —	* —	* —
Peru					
Bentonite	44 266	27 534	22 977	47 743	37 375
Uruguay					
Bentonite	430	1 210	5 530	8 974	7 800
China					
Bentonite	* 3 400 000	* 3 500 000	* 3 500 000	* 3 500 000	* 3 500 000
India					
Bentonite (f)	* 761 000	* 1 157 000	* 1 240 000	* 1 567 000	* 1 372 000
Fuller's earth (f)	* 5 700	* 5 600	* 5 600	* 5 600	* 5 600
Indonesia					
Bentonite	* 6 500	* 6 500	* 7 000	* 6 000	* 6 000
Iran					
Bentonite (g)	350 208	377 398	430 231	502 155	* 500 000
Iraq					
Bentonite	6 127	6 452	6 530	6 288	* 6 300
Japan					
Bentonite	* 430 000	* 425 000	* 420 000	* 400 000	* 400 000
Fuller's earth	* 110 000	* 110 000	* 110 000	* 110 000	* 110 000
Korea (Rep. of)					
Bentonite	88 255	94 987	88 543	80 188	71 850
Fuller's earth	83 476	46 623	57 787	51 309	54 001
Pakistan					
Bentonite (b)	34 596	30 840	16 520	26 077	40 650
Fuller's earth (b)	6 440	6 774	9 942	11 715	10 862
Philippines					
Bentonite	1 475	2 087	2 699	3 329	3 369
Thailand					
Bentonite	130	55 220	81 000	150 000	* 150 000
Uzbekistan					
Bentonite	* 40 000	* 40 000	* 40 000	* 40 000	* 40 000
Vietnam					
Bentonite	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Australia					
Bentonite (b)	* 126 600	* 72 000	* 82 100	* 105 900	* 66 300
Fuller's earth	* 10 000	* 8 000	* 10 000	10 543	10 176
New Zealand					
Bentonite	1 216	—	2 263	762	* 750
World total bentonite	15 100 000	16 100 000	17 100 000	16 200 000	16 200 000
World total fuller's earth (a)	3 400 000	3 100 000	3 300 000	3 400 000	3 400 000

See notes on following page

Production of bentonite and fuller's earth

Notes

- (1) Bentonites consist of montmorillonite (one of the smectite group of clay minerals) and occur in two main varieties, calcium bentonite, the most commonly occurring, and sodium bentonite, industrially the more important
 - (2) Calcium bentonite can be converted to sodium bentonite by a sodium-exchange process
 - (3) In some countries, such as the United Kingdom, calcium bentonite is known as fuller's earth, a term which is also used to refer to attapulgite, a mineralogically distinct clay mineral but exhibiting similar properties
 - (4) In addition to the countries listed, Algeria, France and Iran may produce fuller's earth
- (a) Including attapulgite and sepiolite
 - (b) Years ended 30 June of that stated
 - (c) Smectite
 - (d) Sales
 - (e) Sold or used by producers
 - (f) Years ended 31 March following that stated
 - (g) Years ended 20 March following that stated

Production of beryl

tonnes (metric)

Country	2010	2011	2012	2013	2014
Madagascar (a)	* 12	* 12	* 16	* 16	* 16
Mozambique	57	58	58	* 60	* 60
Zambia	* 3	* 1	* 2	* 2	* 2
USA (b)	4 460	5 920	5 570	5 910	* 5 900
China	* 550	* 550	* 550	* 550	* 550

Notes

- (a) Includes ornamental and industrial products
- (b) Includes bertrandite ore, calculated as equivalent to beryl containing 11% beryllium oxide

Mine production of bismuth

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Armenia	3	3	4	4	4
Bulgaria	* 3	* 3	* 3	* 3	* 3
Russia	* 50	* 45	* 45	* 45	* 45
Canada	92	92	121	35	3
Mexico	982	935	800	824	948
Bolivia	87	41	10	—	11
China	1 589	1 544	2 494	1 393	* 1 400
Japan (a)	448	476	446	485	582
Vietnam	—	—	—	—	* 400
World total	3 300	3 100	3 900	2 800	3 400

Notes

- (1) The figures in this table are in some instances derived from reported bismuth content of refined and impure metal plus recoverable in ores and concentrates exported
- (2) Production for some countries may include bismuth produced from imported ores but it is thought that any resulting duplication is insignificant in the countries shown

- (a) Metal production

Production of borates

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	* 400 000	* 400 000	* 400 000	* 250 000	* 300 000
Turkey	2 504 249	2 729 849	1 814 725	1 748 231	* 1 750 000
USA (a)	* 1 200 000	* 1 250 000	* 1 300 000	* 1 300 000	* 1 300 000
Argentina	622 968	648 806	* 660 000	* 670 000	* 740 000
Bolivia	109 922	138 767	142 532	157 338	151 799
Chile	503 609	491 421	449 572	582 074	591 519
Peru	292 855	—	104 072	224 454	239 725
China	* 200 000	* 200 000	* 200 000	* 320 000	* 330 000
Iran (b)	* 500	1 044	2 500	2 330	* 2 300
Kazakhstan	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000

Notes

(a) Sold or used by producers

(b) Years ended 20 March following that stated

Production of bromine

kilograms

Country	2010	2011	2012	2013	2014
Azerbaijan	* 3 500 000	* 3 500 000	* 3 500 000	* 3 500 000	* 3 500 000
Germany	1 500 000	1 600 000	1 600 000	1 500 000	1 500 000
Ukraine	* 4 100 000	* 4 100 000	* 4 100 000	* 4 100 000	* 3 500 000
USA (a)	* 230 000 000	* 225 000 000	* 225 000 000	* 225 000 000	* 225 000 000
China	* 150 000 000	* 150 000 000	* 100 000 000	* 110 000 000	* 110 000 000
India (b)	1 587 000	1 572 160	1 773 010	2 131 260	2 196 270
Israel	184 696 000	202 313 000	173 940 000	172 341 000	173 796 000
Japan	* 25 000 000	* 25 000 000	* 30 000 000	* 30 000 000	* 30 000 000
Jordan	* 50 000 000	* 50 000 000	* 60 000 000	* 80 000 000	* 100 000 000
World total	650 000 000	663 000 000	600 000 000	629 000 000	649 000 000

Notes

(a) Elemental bromine sold as such or used in the preparation of bromine compounds by primary producers

(b) Years ended 31 March following that stated

Production of cadmium

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia	3	—	43	41	43
Bulgaria	389	427	363	* 360	* 360
Germany	* 400	* 400	* 400	* 400	* 400
Netherlands	* 560	* 570	* 560	* 610	* 620
Norway	300	309	* 310	* 310	* 310
Poland	451	526	370	460	628
Russia	1 064	1 100	1 000	900	* 1 000
Turkey	—	—	—	12	* 12
Canada (a)	1 357	1 240	1 286	1 313	1 187
Mexico	1 464	1 485	1 482	1 451	1 409
USA (a)	637	600	* 600	* 600	* 550
Argentina	32	31	* 30	* 30	* 30
Brazil	* 200	* 200	* 200	* 200	* 200
Peru	357	572	684	695	769
China	7 363	6 672	7 265	7 496	* 7 600
India (b)	550	449	391	228	* 200
Japan	2 053	1 755	1 856	1 821	1 851
Kazakhstan	1 407	1 278	1 166	1 335	1 633
Korea (Rep. of)	4 166	3 005	3 904	3 904	5 645
Korea, Dem. P.R. of	* 200	* 200	* 200	* 200	* 200
Australia	* 350	* 390	* 380	* 380	* 380
World total	23 300	21 200	22 500	22 700	25 000

Notes

(1) Data in this table excludes secondary metal unless otherwise stated

(a) Including cadmium sponge and/or secondary metal

(b) Years ended 31 March following that stated

Production of chromium ores and concentrates

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania	334 467	330 938	365 749	529 592	678 803
Finland	598 000	692 527	425 217	981 752	1 034 750
Kosovo	—	—	2 860	8 950	12 700
Russia	699 000	662 000	552 000	360 000	* 360 000
Turkey	2 461 314	2 281 981	3 295 398	4 140 655	* 4 100 000
Madagascar	(a) 134 500	(a) 66 700	110 000	58 100	53 657
South Africa	10 871 095	10 721 360	11 310 223	13 644 699	14 037 722
Sudan	56 823	64 130	18 300	30 870	* 60 000
Zimbabwe	516 776	599 079	408 476	355 142	408 422
Brazil	520 129	542 512	472 501	485 951	456 096
Afghanistan	* 4 500	* 4 500	4 678	5 040	* 4 500
China	* 220 000	* 220 000	* 220 000	* 220 000	* 220 000
India (b)	4 325 699	2 923 435	2 833 895	2 852 854	1 681 370
Iran (c)(d)	350 000	417 554	411 566	344 169	* 350 000
Kazakhstan	5 092 000	5 059 000	5 233 000	5 255 000	5 410 700
Oman	865 400	616 700	554 800	787 700	751 200
Pakistan	* 540 000	* 450 000	* 500 000	* 490 000	* 350 000
Philippines (c)	14 807	25 483	36 628	26 164	47 056
Vietnam	* 58 600	* 24 900	* 1 800	* 24 800	* —
Australia	181 200	323 800	452 300	355 200	—
World total	27 800 000	26 000 000	27 200 000	31 000 000	30 000 000

Notes

(a) Exports

(b) Years ended 31 March following that stated

(c) Including foundry sand and/or lumpy ore

(d) Years ended 20 March following that stated

Production of coal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania					
Lignite	3 000	100	—	—	—
Bosnia & Herzegovina					
Brown coal & lignite	10 976 163	12 738 225	12 311 623	11 764 827	11 673 320
Bulgaria					
Lignite	27 148 300	34 496 200	31 040 700	26 459 300	29 129 000
Brown coal	2 321 200	2 743 500	2 556 700	2 301 500	2 200 000
Czech Republic					
Bituminous	11 193 000	10 967 000	10 796 000	8 610 000	8 341 000
Brown coal	43 931 000	46 848 000	43 710 000	40 585 000	38 348 000
Georgia	267 664	352 872	424 998	404 187	374 143
Germany					
Anthracite & Bituminous	14 110 000	12 960 000	11 558 000	8 260 000	8 340 000
Brown coal	169 402 544	176 502 048	185 432 000	182 995 337	178 177 703
Greece					
Lignite	53 600 000	58 400 000	62 334 800	55 000 000	50 411 000
Hungary					
Lignite	8 202 859	8 800 783	8 438 000	8 834 000	8 918 000
Brown coal	813 403	699 129	875 944	718 700	636 000
Kosovo					
Lignite	7 958 090	8 212 103	8 028 397	8 219 393	7 204 211
Macedonia					
Lignite	6 583 074	7 902 084	7 309 546	6 633 560	6 469 819
Montenegro					
Lignite	1 937 847	1 972 671	1 706 302	1 692 535	1 655 045
Norway					
Bituminous (a)	1 685 000	1 640 000	1 325 000	2 135 000	1 701 000
Poland					
Bituminous	76 727 802	76 447 604	79 854 904	68 399 000	65 969 000
Lignite	56 510 125	62 841 269	64 297 772	66 139 000	64 002 000
Romania					
Anthracite & Bituminous	—	2 121 574	1 876 062	1 839 667	1 619 347
Lignite	28 774 244	33 779 130	31 529 377	22 902 291	23 144 539
Brown coal	62 448	46 071	17 700	—	—
Russia	317 000 000	334 000 000	354 000 000	347 000 000	356 000 000
Serbia					
Bituminous	108 000	134 000	141 000	160 000	121 000
Lignite (b)	37 562 840	40 467 132	37 707 017	39 752 741	29 340 000
Brown coal	193 492	349 861	316 507	340 892	354 000
Slovakia					
Lignite	176 000	124 000	136 000	179 000	166 000
Brown coal	2 026 000	1 989 000	1 964 000	2 009 000	1 885 000
Slovenia					
Lignite	4 010 930	4 066 278	3 967 064	3 721 188	3 108 203
Brown coal	419 466	435 800	314 262	50 744	—
Spain					
Anthracite	3 266 041	4 032 683	2 514 649	759 930	1 263 585
Bituminous	2 776 918	1 774 992	1 823 343	1 814 328	1 931 807
Sub-bituminous	2 443 677	2 358 372	1 826 680	1 870 569	1 347 849
Turkey					
Anthracite	6 312 137	5 619 316	3 358 843	* 3 100 000	* 3 100 000
Bituminous	* 3 000 000	3 542 223	3 502 009	2 789 338	* 2 800 000
Lignite	86 943 392	79 968 510	75 036 558	* 75 000 000	* 75 000 000
Ukraine					
Bituminous	54 952 000	62 661 000	65 705 000	64 427 000	45 230 000
Lignite	* 175 000	* 175 000	* 175 000	* 175 000	* 175 000
United Kingdom					
Bituminous (c)	18 347 000	18 552 000	16 967 000	12 767 000	11 648 000
Botswana	988 240	787 729	1 454 724	1 495 653	1 711 555
Congo, Democratic Republic					
Bituminous	133 400	143 335	132 449	* 132 000	* 132 000
Egypt (d)	109 884	233 283	* 250 000	293 214	* 300 000
Ethiopia					
Lignite	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Malawi	79 186	83 146	70 552	* 71 000	* 71 000
Mozambique					
Bituminous	38 260	648 220	4 900 000	* 5 500 000	* 8 500 000

Production of coal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Niger	246 558	246 016	235 072	241 792	255 936
Nigeria					
Sub-bituminous	44 148	38 100	31 750	* 31 000	* 31 000
South Africa					
Anthracite	2 073 889	2 553 635	3 005 136	3 621 283	3 516 573
Bituminous	255 131 918	250 203 209	255 570 657	252 660 850	257 881 954
Swaziland					
Anthracite	145 903	121 050	152 284	257 090	177 931
Tanzania					
Bituminous	179 500	82 856	78 672	84 772	246 128
Zimbabwe					
Bituminous	2 668 183	2 562 054	1 593 600	3 114 200	5 782 600
Canada					
Bituminous	33 704 000	34 621 000	35 374 000	38 283 000	34 550 000
Sub-bituminous	23 927 000	22 762 000	21 625 000	21 657 000	24 968 000
Lignite	10 264 000	9 731 000	9 496 000	8 969 000	9 500 000
Mexico					
Bituminous	16 318 120	20 967 630	16 276 556	15 717 587	16 058 000
USA					
Anthracite (e)	1 633 000	2 082 940	2 148 000	* 2 100 000	* 2 100 000
Bituminous (e)	444 074 000	454 054 000	440 321 000	* 440 000 000	* 440 000 000
Sub-bituminous	467 027 000	441 167 731	436 395 960	* 435 000 000	* 435 000 000
Lignite	70 943 000	73 440 875	71 602 574	* 72 000 000	* 72 000 000
Argentina					
Bituminous	140 000	178 000	* 160 000	* 150 000	* 150 000
Brazil					
Bituminous & lignite (f)	5 611 467	5 985 489	6 440 998	8 009 895	7 696 154
Chile					
Bituminous	106 018	131 430	141 120	144 313	* 145 000
Lignite	512 775	522 672	570 594	2 758 131	* 4 000 000
Colombia					
Bituminous	74 350 133	85 803 229	89 024 321	85 496 062	88 577 980
Peru					
Anthracite & Bituminous	91 960	164 392	226 908	211 885	229 213
Venezuela					
Bituminous	2 630 820	2 611 463	1 910 801	1 229 309	687 682
Afghanistan					
Bituminous	* 12 500	12 600	14 500	16 000	18 000
Bangladesh (d)	730 866	666 635	861 072	854 804	942 796
Bhutan	87 814	148 244	98 731	77 743	121 891
Burma (g)	235 743	355 693	471 022	380 272	386 732
China	3 428 000 000	3 764 000 000	3 945 000 000	3 974 000 000	3 874 000 000
India					
Bituminous (g)	532 694 000	539 950 000	556 402 000	563 085 000	541 180 000
Lignite (g)	37 733 000	42 332 000	46 453 000	44 275 000	43 370 000
Indonesia					
Anthracite & Bituminous	275 164 196	353 270 937	385 899 100	377 846 727	402 551 854
Iran					
Bituminous (h)	* 2 500 000	2 499 495	2 819 792	* 2 800 000	* 2 800 000
Kazakhstan					
Bituminous	103 646 000	108 081 000	112 780 000	113 349 000	107 669 100
Lignite	7 283 000	8 368 000	7 748 000	6 511 000	6 893 500
Korea (Rep. of)					
Anthracite	2 083 972	2 084 474	2 094 000	1 814 000	1 746 000
Korea, Dem. P.R. of	* 41 000 000	* 41 000 000	41 492 000	* 42 000 000	* 42 000 000
Kyrgyzstan	575 000	830 700	1 163 900	1 407 900	1 777 400
Laos	501 600	511 700	510 100	* 510 000	* 510 000
Malaysia	2 397 340	2 915 788	2 951 124	2 907 963	2 667 764
Mongolia	25 161 900	32 029 700	28 561 000	29 163 600	* 29 164 000
Nepal					
Sub-bituminous (i)	11 799	13 165	10 904	14 084	8 151
Pakistan (j)(d)	3 535 828	3 291 617	3 178 986	2 813 079	3 140 439
Philippines					
Bituminous	6 650 357	6 881 474	7 348 647	* 7 349 000	* 7 349 000

Production of coal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Tajikistan	199 700	236 400	412 000	515 600	878 100
Thailand					
Lignite	18 399 399	21 324 406	18 652 557	18 110 763	17 991 362
Uzbekistan					
Bituminous	197 766	59 874	232 239	* 230 000	* 230 000
Lignite	3 101 665	3 783 867	3 803 825	* 3 800 000	* 3 800 000
Vietnam					
Anthracite	44 835 000	46 611 000	42 083 000	41 193 900	41 700 000
Australia					
Bituminous (k)	357 000 000	349 624 000	380 734 000	411 313 000	432 261 000
Brown coal (d)	68 751 000	66 733 000	69 124 000	59 854 000	* 60 000 000
New Zealand					
Bituminous	2 597 400	2 330 400	2 276 300	2 279 300	1 948 000
Sub-bituminous	2 438 200	2 294 200	2 324 000	2 055 700	1 727 700
Lignite	294 900	320 100	325 900	290 400	316 700
World total	7 443 000 000	7 935 000 000	8 200 000 000	8 190 000 000	8 085 000 000

Notes

(1) There is no international agreement as to the separate definition of lignite and brown coal. In some cases they are distinguished. Elsewhere both may be aggregated under one or other term

- (a) Spitzbergen: not including production from mines controlled by Russia
- (b) Excluding production in Kosovo
- (c) Including anthracite
- (d) Years ended 30 June of that stated
- (e) Includes a small amount of refuse recovery
- (f) Including beneficiated and directly shipped material
- (g) Years ended 31 March following that stated
- (h) Years ended 20 March following that stated
- (i) Years ended 15 July of that shown
- (j) Including lignite
- (k) Including sub-bituminous

Mine production of cobalt

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Finland	* 140	480	* 1 381	2 061	2 104
Russia (a)	2 460	2 337	2 186	2 368	2 302
Botswana	272	149	195	248	196
Congo, Democratic Republic	97 693	99 475	86 433	76 593	76 475
Madagascar	—	—	493	2 083	2 915
Morocco (a)	1 582	1 518	1 314	1 353	1 391
South Africa (a)	1 680	862	1 102	1 294	1 332
Uganda (a)	568	673	556	181	—
Zambia (a)	5 134	5 956	5 665	5 658	4 317
Zimbabwe	58	174	121	318	359
Canada	4 636	6 836	6 676	7 168	6 574
Cuba	3 706	3 853	3 792	3 319	3 210
Brazil	3 139	3 623	2 900	3 500	* 3 500
China	6 382	6 843	7 498	8 580	8 500
Indonesia	* 1 600	* 3 200	* 3 600	* 4 700	329
Philippines	* 1 500	* 1 500	2 269	2 126	4 094
Australia (b)	4 838	4 275	5 411	6 855	6 252
New Caledonia	1 735	2 404	2 631	3 080	* 3 000
Papua New Guinea	—	—	473	1 224	1 798
World total	137 000	144 000	135 000	133 000	129 000

Notes

- (1) There is frequently a considerable disparity between the cobalt content of ore raised and cobalt actually recovered
(2) Figures in this table relate where possible to cobalt recovered. The principal exceptions to this are Brazil and New Caledonia, the figures for which relate to cobalt in ore raised

(a) Metal

(b) Years ended 30 June of that stated

Production of cobalt metal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Belgium (a)	2 600	3 187	4 200	5 415	5 850
Finland	9 429	10 627	10 562	10 798	12 551
France	302	354	326	308	219
Norway	3 208	3 067	2 969	3 348	3 582
Russia	2 460	2 337	2 186	2 368	2 302
Congo, Democratic Republic (b)	4 182	3 083	2 999	3 000	3 300
Madagascar	—	—	—	2 083	2 915
Morocco	1 582	1 518	1 314	1 353	1 391
South Africa (c)	840	862	1 102	1 294	1 332
Uganda	568	673	556	291	—
Zambia	5 134	5 956	5 665	5 658	4 317
Canada (d)	4 711	6 038	5 994	4 733	3 790
Brazil	1 369	1 614	1 750	1 871	1 350
China (a)	35 929	34 969	29 784	36 062	39 292
India	1 187	1 300	580	295	100
Japan	1 935	2 007	2 542	2 747	3 654
Australia	4 117	4 722	4 769	4 981	5 419
World total	79 600	82 300	77 300	86 600	91 400

Notes

(1) In addition to the production listed above, several countries, including the United Kingdom, Finland and France, are known to produce substantial amounts of cobalt compounds

(a) Some metal production in China is recorded in Belgium

(b) Excludes white alloy and matte which are believed to be further processed in Belgium and elsewhere

(c) Includes metal and metal contained in sulphate

(d) Including oxides

Mine production of copper

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Albania	2 672	4 379	5 691	5 087	3 503
Armenia	31 062	33 597	40 908	48 891	50 952
Azerbaijan	183	611	502	327	784
Bulgaria (a)	112 904	114 603	118 255	115 149	108 300
Cyprus	2 595	3 660	4 328	3 631	3 088
Finland	14 700	14 000	25 446	38 763	42 790
Georgia	10 600	10 000	6 800	10 000	6 800
Macedonia	7 912	7 555	9 506	9 802	8 187
Poland	425 725	426 665	427 064	428 879	421 700
Portugal	74 426	79 686	74 043	77 236	75 433
Romania	5 127	6 355	5 902	6 700	7 200
Russia	702 700	713 100	* 720 000	* 720 000	* 720 000
Serbia	22 800	26 100	32 200	36 200	33 739
Slovakia	22	28	31	40	46
Spain	54 335	68 511	97 452	104 600	103 900
Sweden	76 514	82 967	82 422	82 904	79 681
Turkey	79 900	92 500	104 300	120 500	122 000
Botswana	48 026	31 929	35 768	48 500	47 700
Congo, Democratic Republic	378 300	499 198	619 942	922 016	1 065 744
Eritrea	—	—	—	21 800	88 900
Mauritania	36 969	35 281	37 670	37 970	33 079
Morocco	14 986	12 076	17 700	* 13 900	16 579
Namibia	—	3 366	5 304	4 896	5 249
South Africa	102 600	96 600	88 800	80 821	78 697
Tanzania	6 400	6 748	5 840	5 740	6 363
Zambia	767 008	739 759	699 020	763 805	710 700
Zimbabwe	4 629	6 555	6 665	8 285	8 261
Canada	522 172	566 779	580 082	652 595	695 513
Dominican Republic	10 015	11 777	11 737	10 379	9 262
Mexico	270 136	443 621	500 275	480 124	515 025
USA	1 110 000	1 110 000	1 170 000	1 250 000	1 370 000
Argentina	140 300	116 700	135 700	109 600	102 600
Bolivia	2 100	4 176	8 700	7 549	10 746
Brazil	213 548	213 760	223 141	270 979	239 900
Chile	5 418 900	5 262 800	5 433 900	5 776 000	5 749 600
Colombia	711	808	781	659	3 991
Ecuador	700	1 400	1 800	2 600	3 200
Peru	1 247 184	1 235 345	1 298 761	1 375 641	1 379 626
Burma	* 10 000	* 8 000	* 14 000	* 18 000	* 27 000
China	1 155 800	1 271 900	1 551 500	1 681 300	1 635 000
India (b)	31 778	31 375	29 355	33 071	26 686
Indonesia	862 500	538 300	398 100	509 300	377 100
Iran	256 700	258 900	245 500	222 900	216 800
Kazakhstan	380 600	405 300	426 800	454 400	471 700
Korea, Dem. P.R. of	* 4 600	* 4 400	* 6 600	* 5 500	* 4 600
Kyrgyzstan	—	—	—	—	7 000
Laos	132 047	138 756	149 580	154 915	159 696
Mongolia	127 600	124 000	123 900	189 000	252 000
Oman	16 530	21 166	19 684	10 906	13 699
Pakistan	* 19 900	* 20 000	* 23 900	* 20 700	* 17 700
Philippines	58 412	63 835	65 444	90 861	91 922
Saudi Arabia	1 603	1 954	2 150	* 3 000	* 9 000
Uzbekistan	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
Vietnam	12 260	11 888	12 716	12 946	* 16 500
Australia	871 000	959 474	920 898	1 000 999	969 540
Papua New Guinea	159 821	130 456	125 348	121 571	75 901
World total	16 100 000	16 200 000	16 800 000	18 300 000	18 400 000

Notes

(a) Metal content of ore

(b) Years ended 31 March following that stated

Smelter production of copper

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia	7 644	8 876	10 075	10 771	9 814
Bulgaria	247 300	283 800	269 100	294 000	305 000
Finland	120 528	124 360	129 256	135 840	146 542
Germany	378 700	335 000	352 400	295 200	351 100
Norway	36 200	36 000	37 891	37 461	35 813
Poland	469 656	481 875	466 715	458 789	503 111
Russia	647 100	652 200	633 200	650 000	884 400
Serbia	20 000	28 200	36 800	41 300	40 898
Spain	259 119	260 730	270 200	212 000	294 100
Sweden	141 500	161 500	151 100	140 400	150 000
Turkey	* 25 000	* 30 600	* 35 500	* 35 800	* 35 100
Namibia	23 141	34 365	27 767	24 354	35 042
South Africa	75 900	82 400	62 300	69 700	58 500
Zambia (a)	535 000	520 000	519 200	520 300	525 800
Canada	318 006	304 724	287 051	254 509	288 699
Mexico	168 861	231 700	260 900	220 800	250 000
USA	601 200	538 400	485 300	516 500	* 522 000
Brazil	208 800	223 500	175 700	257 000	238 900
Chile	1 559 800	1 522 300	1 342 400	1 358 300	1 356 200
Peru	312 968	299 004	290 088	412 966	314 615
China	2 825 600	3 036 700	3 601 400	4 228 900	6 497 000
India	653 900	671 200	695 400	617 000	766 000
Indonesia	262 700	276 200	198 400	217 700	236 900
Iran	188 200	185 200	179 400	154 600	232 500
Japan	1 356 289	1 173 275	1 274 690	1 261 348	1 323 500
Kazakhstan	354 000	350 100	341 700	325 600	283 900
Korea (Rep. of)	475 900	449 200	477 300	478 800	620 000
Korea, Dem. P.R. of	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Oman	8 815	7 515	721	4 200	* 5 000
Pakistan (b)	18 121	15 672	20 201	15 285	28 923
Philippines	216 200	205 000	97 000	160 000	153 200
Uzbekistan	* 90 000	* 90 000	* 90 000	* 90 000	* 100 000
Vietnam	* 6 000	* 8 000	* 8 000	* 9 700	* 9 700
Australia	410 000	442 190	422 398	445 520	468 468
World total	13 000 000	13 100 000	13 300 000	14 000 000	17 100 000

Notes

(1) This table shows primary metal in the form of blister and anode produced from concentrates, and may include copper produced from scrap but this is excluded when it can be separately identified

(a) Including leach cathodes

(b) Years ended 30 June of that stated

Production of refined copper

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	113 700	112 500	113 600	82 842	83 200
Belgium	381 200	394 200	396 700	389 400	387 300
Bulgaria	216 000	226 100	226 000	230 100	234 000
Cyprus	2 595	3 660	4 328	3 631	3 088
Finland	112 687	124 360	129 256	135 840	146 542
Germany	704 300	708 800	682 132	677 600	676 900
Italy	1 800	7 600	7 700	4 900	7 900
Macedonia	—	—	1 100	1 900	1 700
Norway	36 200	36 000	37 891	37 461	35 813
Poland	547 074	571 041	565 834	565 155	576 876
Russia	899 600	912 000	890 900	874 900	894 200
Serbia	22 200	28 400	34 700	35 800	33 175
Spain	347 518	353 790	406 600	351 000	418 500
Sweden	190 497	219 316	214 050	206 193	217 337
Turkey	47 300	74 354	59 673	75 000	71 200
Ukraine	23 400	23 400	24 000	16 500	15 200
Congo, Democratic Republic	258 600	354 800	453 400	642 600	742 000
Egypt	* 4 000	* 4 000	* 4 000	* 4 000	* 4 000
South Africa	81 129	86 166	66 416	75 400	57 700
Zambia	767 000	739 800	700 100	629 200	709 500
Zimbabwe	4 500	4 400	5 000	* 5 000	* 5 000
Canada	319 619	273 761	275 990	321 511	325 352
Mexico	247 300	403 100	376 900	355 100	390 400
USA	1 094 800	1 029 300	1 001 000	1 040 000	1 050 000
Argentina	* 16 000	* 16 000	* 16 000	* 16 000	* 14 000
Bolivia	900	1 000	904	1 271	1 809
Brazil	245 297	245 300	210 700	261 000	239 200
Chile	3 243 900	3 092 400	2 902 000	2 754 900	2 729 400
Peru	393 638	367 554	311 197	361 450	347 396
Burma	* 7 000	* 4 000	* 8 000	* 10 000	* 18 000
China	4 540 300	5 163 100	5 879 100	6 490 100	7 644 000
India (a)	512 124	504 677	493 519	644 193	765 569
Indonesia	277 500	274 900	197 200	214 300	231 800
Iran	219 800	235 000	213 000	188 000	* 190 000
Japan	1 548 688	1 328 288	1 516 354	1 468 123	1 554 224
Kazakhstan	323 368	338 524	367 161	350 837	294 808
Korea (Rep. of)	564 600	595 447	591 000	604 000	604 000
Korea, Dem. P.R. of	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Laos	64 241	78 859	86 295	90 030	88 541
Mongolia	2 746	2 389	2 282	2 598	2 132
Oman	8 815	7 515	721	4 200	* 5 000
Philippines	176 000	164 100	98 400	153 000	130 000
Thailand	529	459	486	203	—
Uzbekistan	82 500	90 000	* 90 000	* 90 000	* 100 000
Vietnam	* 6 000	* 8 000	* 8 000	* 9 700	* 9 700
Australia	424 000	476 775	460 390	480 775	508 519
World total	19 100 000	19 700 000	20 100 000	21 000 000	22 600 000

Notes

(1) Figures relate to both primary and secondary refined copper, whether electrolytic or fire refined. Metal recovered from secondary materials by remelting alone is excluded

(2) In addition to the countries listed, Albania and Colombia produce refined copper

(a) Years ended 31 March following that stated

Production of diamond

Carats

Country	2010	2011	2012	2013	2014
Russia	34 856 600	35 139 800	34 927 650	37 884 140	38 303 500
Angola	8 362 139	8 328 519	8 330 996	8 601 695	8 791 340
Botswana	22 019 000	22 903 000	20 478 000	22 597 000	24 658 000
Cameroon (a)	* 6 000	* 6 000	* 5 000	* 5 000	* 6 000
Central African Republic	301 558	323 576	365 917	(b) ...	(b) ...
Congo	381 242	76 548	51 588	56 495	53 163
Congo, Democratic Republic	16 964 000	19 249 057	19 154 000	16 653 000	14 663 000
Ghana	308 679	283 369	215 118	159 074	241 235
Guinea	374 096	235 400	266 800	202 365	164 059
Ivory Coast	—	—	—	—	1 074
Lesotho	108 827	224 180	478 926	414 013	346 017
Liberia	22 018	39 866	34 271	44 334	79 747
Namibia	1 521 625	1 344 932	1 667 000	1 776 290	* 1 941 000
Sierra Leone	437 552	355 890	532 560	604 740	517 454
South Africa	8 870 967	7 046 644	7 245 403	8 168 113	8 060 373
Tanzania	80 498	40 691	127 174	179 633	252 875
Togo	96	71	456	24	23
Zimbabwe	8 435 224	8 502 648	12 060 163	10 411 818	4 771 637
Canada	11 773 000	10 795 000	10 529 215	10 561 600	12 082 000
Brazil	25 394	45 536	46 292	49 166	56 923
Guyana	49 920	52 273	40 763	63 961	99 950
Venezuela	2 099	—	—	—	—
China	* 1 100 000	* 1 100 000	* 1 100 000	* 1 100 000	* 1 100 000
India (c)	11 222	18 490	31 988	37 515	36 110
Australia	9 998 000	7 561 487	8 625 996	11 481 749	9 288 118
World total	126 000 000	123 700 000	126 300 000	131 100 000	125 500 000

Notes

- (1) This table does not show production of synthetic diamond
- (2) So far as possible the amounts shown include estimates for illegal production
- (3) Production of diamond from Ivory Coast was under United Nations sanctions from 2004 until 2013. It is believed illegal production may have continued during this period but it is not possible to estimate the quantity involved

- (a) Including artisanal production
- (b) Currently under temporary suspension by the Kimberley Process and not trading in rough diamonds; however it is unclear whether production has actually stopped
- (c) Years ended 31 March following that stated

Production of diatomite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia	31 101	29 232	29 148	19 376	19 300
Czech Republic	32 000	46 000	43 000	49 000	34 000
Denmark					
Moler (a)	124 000	126 000	111 000	128 125	118 750
France	* 75 000	* 75 000	* 85 000	* 85 000	* 90 000
Germany	49 306	52 698	50 036	51 435	54 277
Hungary	1 197	1 309	1 229	456	* 500
Poland	1 000	580	600	600	590
Spain (b)	64 346	83 624	60 777	53 713	59 619
Turkey	18 448	45 187	86 403	84 751	* 85 000
Algeria	2 231	2 000	2 000	2 124	2 426
Ethiopia (c)	4 104	* 4 000	* 5 000	* 5 000	* 5 000
Kenya	224	713	1 731	1 054	168
Mozambique	123	48	541	* 550	* 550
Costa Rica	29 900	8 700	—	—	—
Mexico	91 710	84 231	84 537	87 463	87 849
USA (d)	595 000	813 000	735 000	782 000	* 800 000
Argentina	54 467	60 651	55 000	* 55 000	* 55 000
Brazil	9 300	4 415	3 427	1 947	* 1 900
Chile	30 925	22 938	23 021	27 092	31 000
Peru	18 886	54 163	93 786	124 917	151 398
China	* 400 000	* 440 000	* 420 000	* 420 000	* 430 000
Iran (e)	...	...	1 956	4 167	* 4 200
Japan	* 110 000	* 100 000	* 100 000	* 90 000	* 100 000
Korea (Rep. of)	2 200	5 150	6 000	34 000	65 893
Saudi Arabia	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Thailand	7 100	38 130	8 500	—	—
Vietnam	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Australia (f)	* 13 000	* 12 000	* 12 000	* 21 000	* 13 000
New Zealand	95	—	—	4	43 624
World total	1 777 000	2 121 000	2 031 000	2 140 000	2 265 000

Notes

(1) In addition to the countries listed, Georgia and Russia may produce diatomite

(a) Moler is an impure diatomite containing a large proportion of clay

(b) Including Tripoli

(c) Years ended 7 July of that stated

(d) Sold or used by producers

(e) Years ended 20 March following that stated

(f) Years ended 30 June of that stated Production of diatomite

Production of feldspar

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bulgaria	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
Czech Republic	388 000	407 000	445 000	411 000	422 000
Finland	28 013	26 292	43 124	47 636	46 233
France	* 650 000	* 600 000	* 600 000	* 550 000	* 550 000
Germany	350 000	350 000	350 000	* 350 000	* 350 000
Greece	23 050	10 200	13 000	—	—
Italy	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000
Macedonia	23 188	25 032	17 168	15 168	18 076
Norway	56 000	25 271	—	—	154
Poland	513 700	538 800	487 200	483 000	* 485 000
Portugal (a)	169 722	187 159	167 287	138 715	136 440
Romania	6 049	3 814	4 112	7 060	7 570
Russia	* 160 000	* 160 000	* 160 000	* 160 000	* 160 000
Serbia	253	23 586	19 927	* 20 000	* 20 000
Slovakia	—	—	—	5 000	6 000
Spain	691 894	662 418	530 238	592 908	* 600 000
Sweden	22 000	30 000	27 000	30 000	27 000
Turkey	6 281 597	7 076 068	7 076 068	7 090 677	7 609 692
Ukraine	146 016	178 614	146 286	133 933	94 506
Algeria	163 939	132 000	162 000	258 700	230 372
Egypt	405 600	210 000	* 400 000	* 400 000	* 400 000
Ethiopia (b)	199	441	* 530	* 400	* 400
Morocco	* 40 000	43 889	* 45 000	* 45 000	* 45 000
Nigeria	1 616	* 1 700	* 1 700	* 1 700	* 1 700
South Africa	94 307	101 559	94 458	191 443	102 541
Sudan	923	9 519	26 283	31 700	* 35 000
Cuba	2 800	3 100	3 800	3 200	3 600
Guatemala	15 720	7 516	19 356	19 611	10 410
Mexico	398 849	382 497	380 441	164 484	150 726
USA	500 000	580 000	560 000	550 000	* 560 000
Argentina	217 213	216 721	273 896	* 270 000	* 270 000
Brazil	276 448	333 352	247 152	294 357	* 300 000
Chile	7 723	7 563	6 399	3 874	4 233
Colombia	* 85 000	* 85 000	* 60 000	46 195	* 46 000
Ecuador	156 888	130 498	152 590	210 142	183 259
Peru	3 589	11 645	26 359	22 695	* 23 000
Uruguay	—	—	—	4	300
Venezuela	57 760	76 726	85 115	91 054	88 051
China	* 2 100 000	* 2 100 000	* 2 100 000	* 2 100 000	* 2 100 000
India (c)	546 472	835 526	1 459 008	1 412 518	* 1 750 000
Indonesia	* 20 000	* 18 000	* 19 000	* 19 000	* 19 000
Iran (d)	652 020	576 643	500 000	580 000	* 600 000
Japan (e)	* 110 000	104 109	* 100 000	* 105 000	* 100 000
Korea (Rep. of)	496 511	384 221	360 413	343 241	528 958
Malaysia	455 497	379 629	482 906	314 399	376 646
Pakistan (f)	54 198	23 254	53 235	38 218	81 858
Philippines	15 882	22 050	24 969	30 388	34 232
Saudi Arabia	42 300	44 000	227 000	160 000	168 000
Sri Lanka	75 405	53 337	87 318	96 043	* 96 000
Taiwan	20	50	40	15	5
Thailand	641 900	1 041 152	1 100 619	1 072 656	1 413 428
Uzbekistan	* 4 300	* 4 300	* 4 300	* 4 300	* 4 300
Vietnam	* 200 000	* 200 000	* 200 000	* 200 000	* 200 000
Australia (f)	* 103 000	* 94 000	* 108 000	* 73 000	* 73 000
World total	22 236 000	23 298 000	24 238 000	23 968 000	25 313 000

See notes on following page

Production of feldspar

Notes

- (a) Includes feldspathic sand
- (b) Years ended 6 July of that stated
- (c) Years ended 31 March following that stated
- (d) Years ended 20 March following that stated
- (e) Including weathered granite feldspar
- (f) Years ended 30 June of that stated

Production of fluorspar

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bulgaria	10	31 800	69 700	82 500	* 82 500
Germany	59 086	65 619	54 202	48 744	35 270
Russia	67 000	120 000	130 000	56 200	* 56 000
Spain	132 341	117 063	113 570	128 512	135 293
Turkey	25 189	4 524	5 197	3 874	* 3 800
United Kingdom	26 420	—	—	30 000	77 000
Egypt (a)	—	—	* 7 665	850	* 800
Kenya	40 800	95 100	91 000	71 987	97 156
Morocco	89 680	79 207	* 79 300	* 81 200	79 840
Namibia	104 494	94 032	90 834	* 63 470	* 57 908
South Africa	* 160 000	* 240 000	* 225 000	* 175 000	* 230 000
Mexico	1 067 386	1 206 907	1 237 091	1 210 477	1 109 721
Argentina	17 657	25 099	35 874	* 35 000	* 35 000
Brazil (b)	24 447	25 040	24 148	27 712	* 25 000
China	4 780 000	6 550 000	* 6 550 000	* 5 000 000	* 3 600 000
India (c)	7 544	5 010	3 092	2 486	* 1 000
Iran (d)	* 70 000	55 976	* 60 000	70 000	* 70 000
Kazakhstan	* 66 000	* 66 000	* 66 000	* 66 000	* 66 000
Korea, Dem. P.R. of	* 12 500	* 12 500	* 12 500	* 12 500	* 12 500
Kyrgyzstan	* 4 000	* 4 000	* 4 000	* 4 000	* 4 000
Mongolia	367 000	404 000	428 900	337 800	* 338 000
Pakistan (a)	222	4 756	6 866	* 7 000	* 7 000
Thailand	30 487	5 093	9 602	* 9 600	* 9 600
Vietnam	* 4 000	* 4 000	* 4 000	* 4 000	* 37 000
World total	7 200 000	9 200 000	9 300 000	7 500 000	6 200 000

Notes

- (1) In addition, the USA produced the following amounts of fluorspar equivalent in fluorosilicic acid derived from processing phosphate rock ('000 t): 2010:128; 2011: 124; 2012: 130; 2013: 131; 2014: 131

- (a) Years ended 30 June of that stated
- (b) Including beneficiated and directly shipped material
- (c) Years ended 31 March following that stated
- (d) Years ended 20 March following that stated

Production of primary gallium

tonnes (metric)

Accurate data for gallium is difficult to obtain because it is produced only as a by-product of bauxite or zinc processing using proprietary techniques and the majority of producers do not report production figures. The leading producing countries are believed to be China, Germany and Ukraine, with smaller quantities produced in the Republic of Korea, Russia, Hungary and Japan.

The following table provides the currently available information but this is incomplete. The United States Geological Survey estimates total world primary production as: 2010, 182 tonnes; 2011, 292 tonnes; 2012, 273 tonnes; 2013, 390 tonnes and 2014, 440 tonnes

There is also believed to be significant production of refined gallium from scrap recycling, particularly in China, Japan, United Kingdom and USA.

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	13	* 13	* 13	* 13	* 13
Japan	5	5	8	8	8
Kazakhstan	19	19	16	* 16	* 16

Production of germanium metal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Finland	12	12	16	17	17
Russia	* 5	* 5	* 5	* 5	* 5
USA (a)	3	3	* 3	* 3	* 3
China	* 100	* 100	* 100	* 100	* 100
Japan	* 2	* 2	* 2	* 2	* 2

Notes

(1) Germanium is also believed to be recovered from imported or domestic material in Belgium, Canada and Ukraine

(a) Including production of secondary metal

Mine production of gold

kilograms

Country	2010	2011	2012	2013	2014
Armenia	1 780	2 125	1 941	2 324	2 814
Azerbaijan	2 092	1 775	1 562	1 621	1 875
Bulgaria	4 489	5 302	7 058	7 385	7 899
Finland	5 896	6 674	9 100	8 660	8 085
Georgia	* 3 100	* 3 100	* 3 100	* 4 300	2 300
Greece	—	—	26	823	552
Greenland	—	103	307	25	—
Poland	500	400	469	431	226
Romania	* 500	* 500	* 500	* 500	* 500
Russia	201 300	188 748	200 345	229 982	249 065
Serbia (a)	856	1 534	1 400	1 154	* 1 200
Slovakia	534	398	546	533	582
Spain	—	529	1 529	1 994	1 800
Sweden	6 285	5 994	6 015	6 530	6 849
Turkey	16 890	24 000	29 390	33 980	31 000
United Kingdom	177	202	102	42	—
Algeria	723	340	264	140	80
Botswana	1 774	1 562	1 522	1 206	958
Burkina Faso	23 525	32 188	29 873	33 600	37 200
Burundi	2 933	1 052	2 046	2 823	1 000
Cameroon	* 600	* 600	* 600	* 600	* 600
Congo, Democratic Republic	10 000	10 000	17 000	20 000	36 000
Egypt	4 675	6 305	8 175	11 102	11 734
Eritrea	* 30	11 788	9 735	2 862	840
Ethiopia (b)	6 003	10 322	12 581	13 050	10 340
Gabon	* 300	* 300	684	1 201	1 012
Ghana (c)	92 380	90 959	89 768	99 303	98 528
Guinea	24 836	15 779	16 153	18 139	15 660
Ivory Coast	5 316	11 009	11 232	12 949	* 17 000
Kenya	2 355	1 636	3 600	2 100	0
Liberia	666	449	641	600	535
Madagascar (c)	46	1	157	—	—
Mali	* 44 300	* 42 300	* 41 200	* 46 200	* 45 400
Mauritania	8 326	8 198	7 647	9 518	9 625
Morocco (a)	650	520	532	463	377
Mozambique	106	111	178	180	197
Namibia	2 683	2 112	2 402	2 036	2 139
Niger	1 950	1 957	1 677	1 041	732
Nigeria	3 718	* 3 700	* 4 000	* 4 000	* 4 000
Senegal	5 354	4 089	6 666	6 445	6 588
Sierra Leone	270	164	141	96	33
South Africa	188 702	180 184	154 180	159 724	151 622
Sudan	34 000	* 40 000	44 500	70 000	* 70 000
Tanzania	39 448	37 085	39 012	43 390	40 598
Togo	10 452	16 469	18 551	21 086	20 583
Zambia (d)	3 410	3 493	4 232	5 207	4 803
Zimbabwe	19 240	12 993	14 743	14 001	15 386
Canada	102 693	102 624	107 486	133 636	152 105
Costa Rica	* 300	* 500	—	—	—
Dominican Republic	533	495	4 106	26 084	35 081
Guatemala	9 213	11 898	6 473	6 386	6 142
Honduras	2 200	1 893	1 859	1 985	2 762
Mexico	79 376	88 649	102 802	119 774	117 771
Nicaragua	4 877	6 395	6 981	8 612	8 648
Panama	1 667	2 057	2 208	1 120	—
USA	231 249	233 925	234 623	228 234	210 076
Argentina	63 523	59 140	54 651	52 486	71 770
Bolivia	6 400	6 513	27 488	18 127	39 152
Brazil	62 047	65 200	66 773	79 563	* 80 000
Chile	39 494	45 137	49 936	51 309	46 031
Colombia	53 606	55 908	66 178	55 745	57 015
Ecuador	4 593	4 924	5 139	8 676	7 322
French Guiana	1 140	* 1 300	* 1 000	* 2 000	* 2 000
Guyana	9 593	11 293	13 643	14 963	12 053
Peru	164 070	166 168	161 545	151 486	139 966

Mine production of gold

kilograms

Country	2010	2011	2012	2013	2014
Suriname	12 932	12 605	12 507	11 001	10 641
Uruguay (e)	1 705	1 702	1 881	2 092	1 715
Venezuela	6 991	4 608	1 982	1 691	1 099
Burma (a)	* 100	* 100	787	893	* 900
China (a)	340 880	360 960	403 050	428 163	451 799
India (f)	2 399	2 194	1 588	1 564	1 322
Indonesia	119 726	76 764	69 291	59 804	69 023
Iran (f)	* 350	915	1 179	1 656	1 760
Japan	8 223	8 692	7 232	7 411	7 114
Kazakhstan	30 272	38 247	42 561	* 47 000	* 42 040
Korea (Rep. of)	235	209	336	413	284
Kyrgyzstan	18 500	18 900	10 600	19 400	17 800
Laos	5 138	3 984	6 415	6 838	5 265
Malaysia	3 766	4 219	4 625	3 823	4 308
Mongolia	6 037	5 703	5 995	8 904	19 959
Philippines	40 847	31 120	15 762	17 248	18 423
Saudi Arabia	4 400	4 611	4 285	4 158	4 789
Tajikistan	2 049	2 240	2 400	2 670	* 3 400
Thailand	5 300	5 568	4 895	4 419	4 576
Uzbekistan	* 90 000	* 91 000	* 90 000	* 90 000	* 102 000
Vietnam	1 034	1 333	1 508	1 681	164
Australia	260 000	259 052	251 654	268 262	273 963
Fiji	1 903	1 572	1 439	1 218	1 196
New Zealand	12 240	11 738	10 049	12 468	11 989
Papua New Guinea	66 901	62 271	55 839	56 035	52 882
Solomon Islands	130	1 588	2 109	1 826	603
World total	2 660 000	2 660 000	2 730 000	2 920 000	3 020 000

Notes

- (1) In several countries substantial amounts of gold produced in small operations are not recorded in the official statistics used when compiling this table
 - (2) In addition to the countries listed, Benin, Central African Republic, Congo, Uganda, Oman and Taiwan produce less than 100 kg gold per year
 - (3) In addition to the countries listed, Cambodia, El Salvador, Haiti, Macedonia, Malawi, Pakistan, Paraguay, Portugal, and South Sudan may produce gold.
- (a) Metal production
 - (b) Years ended 7 July of that stated
 - (c) In addition some gold produced by artisanal mining
 - (d) Contained in blister copper, refinery muds and electrolytic copper
 - (e) Year ended 30 November of the year stated
 - (f) Years ended 31 March following that stated

Production of graphite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria (a)	420	925	219	* 500	* 500
Bosnia & Herzegovina	45 079	—	—	—	—
Germany	—	—	109	269	517
Norway	6 270	7 789	6 992	6 207	8 308
Romania	6 633	—	—	—	—
Russia	* 14 000	* 14 000	* 14 000	* 14 000	* 14 000
Turkey	—	5 250	31 500	28 740	* 28 500
Ukraine	2 800	600	4 600	6 900	13 800
Madagascar	3 654	3 951	(b) 3 500	(b) 6 100	(b) 5 700
Zimbabwe	741	7 252	7 022	6 934	6 853
Canada	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Mexico	6 628	7 348	7 520	7 024	9 160
Brazil (c)	92 364	105 188	88 110	91 908	78 460
China (d)	* 1 800 000	* 1 800 000	* 1 800 000	* 1 800 000	* 1 800 000
India (a)(e)	115 697	153 339	134 735	146 009	* 104 000
Korea (Rep. of)	34	—	—	—	—
Korea, Dem. P.R. of	* 10 000	* 10 000	* 10 000	* 10 000	* 10 000
Pakistan (f)	950	1 268	912	6 188	13 773
Sri Lanka	3 437	3 357	4 173	3 143	* 3 100
World total	2 100 000	2 100 000	2 100 000	2 200 000	2 100 000

Notes

(1) This table includes all forms of amorphous and crystalline graphite but excludes synthetic material

- (a) Crude
- (b) Exports
- (c) Including beneficiated and directly shipped material
- (d) Including flake graphite
- (e) Years ended 31 March following that stated
- (f) Years ended 30 June of that stated

Production of Gypsum

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania	* 80 000	* 80 000	91 021	126 349	108 733
Armenia	38 700	34 000	30 400	28 700	* 28 000
Austria (a)	872 273	815 438	791 961	635 299	729 892
Azerbaijan	48 887	107 328	149 983	169 028	112 972
Bosnia & Herzegovina (a)	64 570	71 870	73 365	73 300	67 700
Bulgaria	109 200	114 800	113 700	119 100	* 119 000
Croatia	248 675	231 008	182 557	114 450	120 055
Cyprus	333 000	335 000	327 800	315 000	347 600
Czech Republic	5 000	11 000	14 000	11 000	11 000
France (a)	2 065 814	2 452 204	2 314 788	2 189 971	1 907 768
Germany (a)	1 822 000	2 021 000	1 949 000	1 778 000	1 802 000
Greece (a)	* 600 000	587 000	700 000	760 000	572 000
Hungary (a)	20 000	3 000	—	—	—
Ireland, Republic of	* 300 000	* 300 000	* 200 000	* 200 000	* 300 000
Italy (a)	4 441 109	3 642 897	3 200 920	3 192 186	8 551 200
Latvia (a)	176 510	215 950	252 714	272 340	* 280 000
Macedonia (a)	143 118	162 984	157 844	162 661	156 492
Moldova (b)	* 300 000	* 400 000	375 900	* 400 000	* 400 000
Norway (a)(c)	36 395	88 953	85 296	77 009	79 740
Poland (a)	1 241 200	1 418 300	1 395 400	1 270 100	1 231 900
Portugal	336 755	337 272	321 988	299 038	328 730
Romania	639 010	834 009	765 251	736 099	815 586
Russia	* 2 900 000	* 3 000 000	* 3 100 000	* 5 100 000	* 5 300 000
Slovakia (a)	87 000	88 000	88 000	60 000	65 000
Spain	6 990 249	7 825 747	6 359 923	7 388 699	* 7 000 000
Switzerland	335 000	300 000	297 000	284 000	242 000
Turkey	6 321 891	5 723 439	8 248 446	9 790 097	* 9 800 000
Ukraine (a)	2 142 000	2 293 800	2 185 800	2 175 400	1 525 300
United Kingdom	* 1 200 000	* 1 200 000	* 1 200 000	* 1 200 000	* 1 200 000
Algeria	1 609 605	1 800 000	2 000 000	2 077 700	2 130 459
Angola	* 200 000	* 200 000	* 200 000	* 200 000	* 200 000
Egypt (a)	734 983	941 753	966 250	* 1 000 000	* 1 000 000
Eritrea	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Ethiopia (a)(d)	41 000	46 000	46 000	42 452	* 42 000
Kenya (a)	5 500	6 520	6 653	* 6 500	* 6 500
Libya	* 250 000	* 125 000	* 150 000	* 200 000	* 200 000
Madagascar	127	* 130	* 130	* 130	* 130
Mauritania	65 245	72 153	* 75 000	* 100 000	* 100 000
Morocco	* 600 000	* 600 000	* 600 000	* 600 000	* 600 000
Niger	7 559	6 058	600	1 755	—
South Africa	1 026 620	476 118	558 242	559 443	376 223
Sudan	31 000	31 000	117 073	132 000	* 140 000
Tanzania	26 918	38 659	91 610	171 567	200 179
Tunisia	435 000	* 435 000	* 435 000	* 435 000	* 435 000
Canada (a)	2 717 000	2 555 000	2 550 000	2 654 000	1 811 000
Cuba	111 300	131 400	131 000	87 100	97 800
Dominican Republic	85 880	61 161	185 890	144 178	243 098
Guatemala	58 924	77 009	99 628	117 619	81 885
Honduras	* 5 500	* 5 500	* 5 500	* 5 500	* 10 000
Jamaica	147 143	79 521	64 753	48 322	45 201
Mexico	6 477 590	6 463 861	9 456 478	7 903 159	* 8 500 000
Nicaragua	20 330	29 710	34 890	36 500	46 570
USA	10 200 000	10 500 000	15 800 000	16 300 000	* 17 100 000
Argentina	1 346 535	1 469 447	1 432 517	* 1 450 000	* 1 500 000
Bolivia	556	600	645	1 223	* 1 000
Brazil	2 638 096	3 228 931	3 749 860	3 332 991	* 3 300 000
Chile	758 011	917 759	799 064	1 015 158	843 490
Colombia	* 200 000	* 200 000	* 200 000	* 200 000	395 651
Paraguay	4 400	* 4 500	* 4 500	* 4 500	* 4 500
Peru	313 025	479 950	390 705	297 527	* 300 000
Afghanistan	* 1 000	1 000	2 000	2 500	3 000
Bhutan	344 034	352 234	313 173	351 420	414 148
Burma (e)	76 391	77 413	38 579	60 510	104 994
China	* 37 000 000	* 37 000 000	* 37 000 000	* 37 000 000	* 37 000 000

Production of Gypsum

tonnes (metric)

Country	2010	2011	2012	2013	2014
India (e)(f)	4 924 906	3 991 853	3 564 300	2 930 444	2 736 650
Indonesia	* 7 000	* 7 500	* 8 000	* 8 000	* 8 000
Iran (g)	11 913 979	14 657 191	14 178 577	17 354 489	* 17 500 000
Iraq	8 276 733	11 350 170	9 424 214	10 461 708	* 10 462 000
Israel	99 730	20 437	45 407	27 200	82 000
Jordan	292 340	254 860	275 000	* 275 000	* 275 000
Kazakhstan	* 700 000	* 700 000	* 700 000	* 700 000	* 700 000
Laos	553 300	686 100	619 300	* 619 000	* 619 000
Mongolia	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Oman	653 200	1 254 100	1 915 300	2 785 000	3 387 300
Pakistan (h)	853 590	885 368	1 260 021	1 249 967	1 322 059
Saudi Arabia	2 100 000	2 239 000	1 700 000	1 700 000	1 780 000
Sri Lanka	104	542	* 600	* 600	* 600
Syria	* 405 000	* 405 000	* 200 000	* 100 000	* 50 000
Tajikistan	14 600	11 300	13 700	12 200	12 900
Thailand					
Gypsum	10 172 629	10 994 074	11 447 199	12 382 648	12 445 100
Anhydrite	536 120	614 148	857 172	* 857 000	* 857 000
Uzbekistan	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
Vietnam	* 5 000	* 5 000	* 5 000	* 5 000	* 5 000
Yemen, Republic of	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Australia (h)	3 680 000	3 401 300	3 834 900	3 588 885	* 3 700 000
World total	146 900 000	154 800 000	162 800 000	170 800 000	176 600 000

Notes

- (1) Some countries produce large quantities of synthetic gypsum. Where possible, this output is excluded from the table
(2) In addition to the countries listed, Japan may also produce gypsum.

- (a) Including anhydrite
(b) Excluding output from the region east of the River Nistru and the Municipality of Bender
(c) Sales
(d) Years ended 7 July of that stated
(e) Years ended 31 March following that stated
(f) Including selenite
(g) Years ended 20 March following that stated
(h) Years ended 30 June of that stated

Refinery production of indium

tonnes (metric)

Country	2010	2011	2012	2013	2014
Belgium	* 30	* 30	* 30	* 30	* 30
Germany	* 10	* 10	* 10	* 10	* 10
Italy	* 5	* 5	* 5	* 5	* 5
Netherlands	* 5	* 5	* 5	* 5	* 5
Russia	7	6	7	7	* 7
United Kingdom	* 5	* 5	* 5	* 5	* 5
Canada	* 67	* 64	* 65	* 65	* 65
Brazil	* 5	* 5	* 5	* 5	* 5
Peru	—	* 2	* 11	11	* 11
China	* 340	* 380	* 405	* 415	* 420
Japan	69	70	70	70	70
Korea (Rep. of)	* 100	* 100	* 100	* 100	* 100

Note(s)

(1) In addition to the countries listed, Kazakhstan is believed to produce small quantities of indium

Production of iodine

kilograms

Country	2010	2011	2012	2013	2014
Azerbaijan	191 300	200 000	240 400	249 100	221 100
Russia	* 105 000	* 105 000	* 105 000	* 105 000	* 105 000
USA	* 1 250 000	* 1 270 000	* 1 270 000	* 1 270 000	* 1 270 000
Chile	15 793 000	16 000 000	17 494 000	20 656 000	18 989 000
China	* 590 000	* 590 000	* 600 000	* 600 000	* 600 000
Indonesia	* 56 000	* 61 000	* 44 000	* 43 000	* 50 000
Japan	9 216 000	9 277 000	9 315 000	* 9 500 000	* 9 500 000
Turkmenistan	* 470 000	* 470 000	* 480 000	* 500 000	* 500 000
Uzbekistan	* 2 000	* 2 000	* 2 000	* 2 000	* 2 000
World total	27 700 000	28 000 000	29 600 000	32 900 000	31 200 000

Production of iron ore

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria (a)	2 068 853	2 206 910	2 142 255	2 323 323	2 436 675
Azerbaijan	57 800	214 300	207 300	141 400	91 400
Bosnia & Herzegovina	1 401 000	1 891 000	2 075 732	2 121 908	2 127 564
Germany (b)(c)	390 353	489 091	447 515	413 404	455 941
Norway	6 742 333	6 723 426	7 744 487	9 549 232	10 542 149
Russia	95 500 000	104 000 000	104 000 000	102 100 000	102 100 000
Sweden	28 797 000	30 840 000	32 198 000	37 411 000	35 759 000
Turkey	5 378 455	6 308 448	7 599 511	* 7 700 000	* 7 700 000
Ukraine	78 541 000	80 900 000	67 149 000	70 389 000	68 337 000

Production of iron ore

tonnes (metric)

Country	2010	2011	2012	2013	2014
Algeria	1 474 279	1 700 000	1 700 000	1 066 700	911 135
Egypt (d)	2 314 425	3 320 878	3 930 002	1 421 772	* 1 500 000
Liberia	—	386 968	2 369 850	4 698 281	* 4 813 676
Mali	* 4 600	* 100 000	* 160 000	* 100 000	* 100 000
Mauritania	11 109 000	11 176 000	11 169 800	12 532 200	13 305 800
Morocco	44 665	78 926	260 700	301 100	22 910
Nigeria	63 000	70 000	* 70 000	* 70 000	* 70 000
Sierra Leone	—	339 330	5 203 490	11 894 580	14 513 946
South Africa (e)	58 709 330	58 056 897	67 100 474	71 543 088	80 759 334
Sudan	1 700	48 163	96 400	339 390	* 400 000
Swaziland	—	79 553	1 032 230	1 258 560	603 251
Tunisia	180 500	171 200	223 000	243 100	307 600
Uganda	3 795	2 134	4 431	2 282	41 959
Zimbabwe	28	—	—	—	—
Canada (f)	37 001 000	33 573 000	39 427 100	42 769 700	44 196 000
Guatemala	1 604	1 160	10 808	778	2 035
Mexico	21 210 000	19 403 000	22 600 000	28 545 000	25 193 818
USA (f)(g)	49 500 000	54 700 000	54 000 000	53 000 000	* 57 500 000
Brazil	372 300 000	460 400 000	400 600 000	316 800 000	345 800 000
Chile	9 129 500	12 624 600	17 330 000	17 108 000	18 865 800
Colombia	77 048	174 459	391 503	710 047	676 180
Ecuador (h)	5 568	27 060	7 631	2 616	408
Peru	7 432 000	8 623 000	8 221 983	6 680 659	7 193 000
Venezuela	14 330 761	16 347 621	16 347 028	11 372 172	11 394 040
Bhutan	—	—	3 742	20 506	18 997
China	1 077 705 100	1 326 942 000	1 309 637 000	1 451 011 000	1 514 240 000
India (i)	207 157 000	168 582 000	136 618 000	152 433 000	129 103 000
Indonesia	8 975 507	11 814 544	11 545 752	* 20 000 000	* 3 000 000
Iran (j)	35 548 974	38 260 000	43 497 000	48 693 000	* 50 000 000
Iraq	—	26 639	—	—	* —
Kazakhstan	50 190 000	51 742 000	52 614 000	51 758 500	51 540 800
Korea (Rep. of)	512 642	541 539	592 743	663 045	693 262
Korea, Dem. P.R. of	* 5 300 000	* 5 300 000	* 5 100 000	* 3 057 000	* 2 800 000
Malaysia (f)	3 557 813	8 077 879	12 143 985	12 134 258	9 615 323
Mongolia	3 203 200	5 678 300	7 561 400	6 011 200	* 6 000 000
Pakistan (d)	447 541	329 100	384 893	412 108	192 749
Philippines	—	292 608	216 176	826 745	1 056 694
Thailand	976 937	489 359	303 233	389 620	347 918
Vietnam	1 972 100	2 371 300	1 506 200	2 495 000	2 308 000
Australia	433 452 000	477 330 291	519 858 812	612 415 940	745 734 695
New Zealand	2 438 641	2 357 440	2 394 848	3 156 619	3 245 369
World total	2 635 000 000	3 015 000 000	2 980 000 000	3 180 000 000	3 378 000 000

Notes

- (a) Including micaceous iron oxide
- (b) Including manganiferous iron ore
- (c) Used as aggregate in the construction industry
- (d) Years ended 30 June of that stated
- (e) Including by-product magnetite
- (f) Including by-product iron ore
- (g) Including beneficiated and direct shipping ore
- (h) Including iron sand
- (i) Years ended 31 March following that stated
- (j) Years ended 20 March following that stated

Production of pig iron

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	5 621 000	5 815 000	5 751 000	6 200 000	6 015 000
Belgium	4 688 000	4 700 000	4 073 000	4 343 000	4 335 000
Bosnia & Herzegovina	620 935	684 734	749 539	759 100	860 430
Czech Republic	3 987 000	4 137 000	3 935 207	4 040 000	4 152 000
Finland	2 564 000	2 600 000	2 461 000	2 100 000	2 500 000
France	10 136 827	9 697 535	9 531 844	10 276 499	10 865 646
Germany	28 560 000	27 943 000	27 046 000	27 177 000	27 943 000
Hungary	1 325 000	1 315 000	1 229 000	600 000	801 000
Italy	8 555 000	9 824 000	9 424 000	6 933 000	6 371 000
Netherlands	5 799 000	5 943 000	5 909 000	5 700 000	5 868 000
Norway	108 000	101 000	100 000	100 000	110 000
Poland	3 637 994	3 974 930	3 943 968	4 013 877	4 637 478
Romania	1 723 418	1 595 000	1 580 000	1 300 000	* 1 300 000
Russia	48 200 000	48 200 000	50 500 000	50 000 000	51 400 000
Serbia	1 158 628	1 197 693	318 651	366 277	550 000
Slovakia	3 649 000	3 346 000	3 519 755	3 617 000	3 838 000
Spain	3 572 000	3 540 000	3 081 000	3 949 000	3 958 000
Sweden	3 447 000	3 240 000	2 805 000	2 896 000	3 078 000
Turkey	16 362 115	14 877 155	18 289 109	19 548 094	* 20 000 000
Ukraine	27 366 000	28 878 000	28 487 000	29 088 700	24 800 900
United Kingdom	7 233 000	6 625 000	7 183 100	9 471 000	9 705 000
Algeria	696 000	360 000	350 000	300 000	300 000
Egypt	3 565 000	3 532 000	3 618 000	3 400 000	2 882 000
Libya	1 270 000	165 000	508 000	1 000 000	1 302 000
South Africa	6 549 000	6 018 000	6 092 000	6 404 000	6 040 000
Canada	8 266 000	8 025 000	8 496 000	7 300 000	8 210 000
Mexico	10 074 620	10 462 912	10 197 841	11 011 092	11 092 595
Trinidad & Tobago	1 751 800	1 705 600	1 684 300	1 749 700	1 633 000
USA	26 843 000	30 233 000	32 062 000	30 381 000	29 345 000
Argentina	4 098 500	4 470 900	3 683 000	4 115 390	3 644 932
Brazil	30 898 000	33 416 000	32 448 000	31 552 000	* 32 000 000
Chile	635 000	1 130 000	1 068 000	869 000	576 000
Colombia	327 000	295 000	345 000	264 000	232 000
Paraguay	81 000	42 000	67 000	69 000	71 000
Peru	100 000	94 000	98 000	91 000	91 000
Venezuela	3 760 000	4 470 000	4 594 000	2 600 000	1 415 000
China	597 333 400	640 508 800	663 544 000	711 498 800	711 599 000
India	64 987 000	66 460 000	62 057 000	64 893 000	71 864 000
Indonesia	1 274 000	1 228 000	524 000	757 000	* 800 000
Iran	10 532 000	12 670 000	13 725 000	16 465 000	* 17 000 000
Japan	82 283 358	81 028 352	81 405 470	83 849 049	83 872 490
Kazakhstan	2 864 000	3 141 000	2 707 000	2 622 745	3 184 780
Korea (Rep. of)	35 064 568	42 212 717	41 718 000	41 045 000	46 909 000
Korea, Dem. P.R. of	* 250 000	* 250 000	* 250 000	* 250 000	* 250 000
Malaysia	2 390 000	2 877 000	2 329 000	1 399 000	* 1 500 000
Pakistan (a)	* 750 000	* 750 000	* 750 000	* 750 000	* 750 000
Qatar	2 040 037	2 212 999	2 424 000	2 385 493	2 515 000
Saudi Arabia	4 937 000	5 153 000	4 976 000	5 300 000	5 508 000
Taiwan	9 358 000	12 940 000	11 784 000	13 300 000	14 505 000
Vietnam	* 500 000	* 600 000	* 650 000	* 650 000	* 650 000
Australia	6 259 000	5 296 000	3 480 000	3 342 000	3 282 000
New Zealand	667 000	659 000	670 000	700 000	680 000
World total	1 109 000 000	1 171 000 000	1 188 000 000	1 243 000 000	1 256 000 000

Notes

(1) The data in this table include sponge iron and direct reduced iron (DRI), where these have been separately identified

(a) Years ended 30 June of that stated

Production of crude steel

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania	390 000	464 000	390 000	312 000	637 905
Austria	7 206 000	7 474 000	7 421 000	7 953 000	7 876 000
Azerbaijan	129 125	234 002	267 660	222 800	288 136
Belarus	2 530 829	2 778 792	2 869 373	2 394 489	2 597 807
Belgium	7 973 000	8 026 000	7 301 000	7 127 000	7 331 000
Bosnia & Herzegovina	590 952	649 085	700 341	722 155	792 019
Bulgaria	744 000	835 000	633 000	523 000	612 000
Croatia	103 429	162 709	1 016	135 000	159 000
Czech Republic	5 180 000	5 583 000	5 072 082	5 171 255	5 360 000
Estonia	—	1	185	157	200
Finland	4 029 000	3 989 000	3 759 000	3 517 000	3 808 000
France	15 413 577	15 780 639	15 607 227	15 685 350	16 143 625
Germany	43 830 000	44 284 000	42 661 000	42 645 000	42 941 000
Greece	1 821 000	1 934 000	1 247 000	1 030 000	1 022 000
Hungary	1 681 000	1 729 000	1 543 000	883 000	1 152 000
Italy	25 750 000	28 735 000	27 252 000	24 093 000	23 714 000
Kosovo	...	...	* 120 000	* 120 000	* 120 000
Latvia	655 000	568 000	805 000	198 000	* 190 000
Luxembourg	2 548 000	2 521 000	2 214 000	2 090 000	2 193 000
Macedonia	344 866	348 576	225 224	145 633	196 454
Moldova (a)	242 000	321 000	335 000	190 000	344 000
Montenegro	48 272	61 164	28 161	19 723	* 15 000
Netherlands	6 651 000	6 937 000	6 879 000	6 713 000	6 964 000
Norway	530 000	610 000	700 000	605 000	595 000
Poland	7 993 025	8 776 458	8 542 514	8 199 353	8 799 731
Portugal	1 543 000	1 942 000	1 960 000	2 050 000	* 2 000 000
Romania	3 720 775	3 828 000	3 292 000	2 985 000	3 158 000
Russia	66 300 000	68 400 000	70 400 000	68 800 000	70 300 000
Serbia	1 254 386	1 304 954	346 000	396 000	583 000
Slovakia	4 583 000	4 236 000	4 403 447	4 511 000	4 705 000
Slovenia	606 000	648 000	632 000	618 000	615 000
Spain	16 343 000	15 504 000	13 639 000	14 252 000	14 163 000
Sweden	4 845 600	4 867 000	4 326 000	4 404 000	4 539 000
Switzerland	1 320 000	1 400 000	* 1 450 000	* 1 530 000	* 1 500 000
Turkey	29 029 789	30 562 184	35 885 000	34 654 000	34 035 000
Ukraine	33 345 586	35 512 156	33 509 180	33 198 653	27 372 913
United Kingdom	9 708 000	9 478 000	9 579 100	11 857 500	12 120 000
Algeria	662 000	551 000	557 000	417 000	415 000
Congo, Democratic Republic	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Egypt	6 676 000	6 485 000	6 627 000	6 754 000	6 485 000
Ethiopia	150 000	* 130 000	* 130 000	* 130 000	* 130 000
Ghana	25 000	25 000	25 000	25 000	25 000
Kenya	20 000	20 000	20 000	20 000	* 20 000
Libya	825 000	100 000	315 000	712 000	968 000
Mauritania	5 000	5 000	5 000	* 5 000	* 5 000
Morocco	485 000	654 000	539 000	558 000	501 000
Nigeria	100 000	100 000	100 000	100 000	100 000
South Africa	7 617 000	7 546 000	6 938 000	7 253 000	7 210 000
Tunisia	115 100	150 000	150 000	* 150 000	* 150 000
Uganda	30 000	30 000	30 000	30 000	* 30 000
Canada	13 009 000	12 891 000	13 507 000	12 349 000	12 595 000
Cuba	279 040	283 982	280 899	268 814	259 130
Dominican Republic	* 60 000	* 76 000	* 56 000	* 56 000	* 60 000
El Salvador	64 000	97 000	72 000	108 000	121 000
Guatemala	274 000	294 000	334 000	385 000	358 000
Mexico	16 869 675	18 110 111	18 073 052	18 242 195	18 995 283
Trinidad & Tobago	571 600	603 400	623 800	615 800	483 000
USA	80 495 000	86 000 000	88 695 000	86 878 000	88 347 000
Argentina	5 138 500	5 610 500	4 996 000	5 185 710	4 580 600
Brazil	32 948 000	35 220 000	34 524 000	34 163 000	33 912 000
Chile	1 011 000	1 615 000	1 671 000	1 398 000	1 119 000
Colombia	1 207 000	1 244 000	1 302 000	1 107 000	1 269 000
Ecuador	357 000	463 000	425 000	570 000	612 000
Paraguay	59 000	28 000	44 000	45 000	47 000
Peru	867 000	882 000	981 000	1 057 000	1 144 000

Production of crude steel

tonnes (metric)

Country	2010	2011	2012	2013	2014
Uruguay	65 000	81 000	78 000	91 000	81 000
Venezuela	2 207 000	2 980 000	2 359 000	2 494 000	1 466 000
Burma	* 25 000	* 25 000	* 25 000	* 30 000	* 35 000
China	637 229 900	685 283 100	723 882 200	813 138 900	822 698 000
India (b)	70 672 000	74 291 000	78 416 000	81 690 000	88 980 000
Indonesia	3 664 000	3 621 000	2 254 000	2 644 000	* 2 800 000
Iran	11 995 000	14 037 000	14 395 000	15 631 000	* 15 800 000
Israel	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Japan	109 598 507	107 601 194	107 232 297	110 594 771	110 666 068
Jordan	* 150 000	* 150 000	* 150 000	* 150 000	* 150 000
Kazakhstan	4 220 000	4 699 000	3 676 000	3 275 000	4 014 860
Korea (Rep. of)	58 914 125	68 519 191	69 073 000	66 061 000	71 542 000
Korea, Dem. P.R. of	* 1 300 000	* 1 300 000	* 1 280 000	* 1 250 000	* 1 250 000
Kuwait	* 500 000	* 500 000	* 500 000	* 500 000	* 500 000
Malaysia	5 694 000	5 941 000	5 612 000	4 693 000	* 5 000 000
Mongolia	68 000	63 600	72 400	* 58 600	* 58 600
Pakistan	* 800 000	* 850 000	* 850 000	* 972 000	* 1 070 000
Philippines	1 050 000	1 200 000	1 260 000	* 1 300 000	* 1 300 000
Qatar	1 974 937	2 005 000	2 148 000	2 236 000	3 047 000
Saudi Arabia	5 015 000	5 275 000	5 203 000	5 471 000	6 291 000
Singapore	728 000	752 000	688 000	434 000	575 000
Syria	* 70 000	* 70 000	* 70 000	* 10 000	* 5 000
Taiwan	18 975 000	21 640 000	19 927 000	21 466 000	22 511 000
Thailand	4 144 908	4 238 000	3 328 000	* 3 600 000	* 3 500 000
United Arab Emirates	* 500 000	* 2 000 000	2 408 000	2 878 000	2 390 000
Uzbekistan	716 000	733 000	736 000	746 000	731 000
Vietnam	4 314 000	4 900 000	5 298 000	5 474 000	5 700 000
Australia	7 408 000	6 538 000	4 903 000	4 646 000	4 607 000
New Zealand	853 000	844 000	912 000	900 000	881 000
World total	1 432 000 000	1 520 000 000	1 554 000 000	1 641 000 000	1 667 000 000

Notes

- (1) Unless otherwise indicated, these figures include production from scrap
(2) Small amounts of steel are believed to be produced in Sri Lanka

- (a) Production from the region east of the River Nistru
(b) Years ended 31 March following that stated

Production of ferro-alloys

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania					
Ferro-chrome	23 233	28 433	24 018	24 692	34 897
Armenia					
Ferro-molybdenum	5 126	5 525	5 836	6 619	6 528
Austria					
Ferro-molybdenum	4 000	4 000	4 000	4 000	4 000
Ferro-nickel	2 500	2 500	2 500	2 500	2 500
Ferro-vanadium	8 000	8 000	8 000	8 000	8 000
Bosnia & Herzegovina					
Ferro-alloys	17 972	17 527	15 874	16 707	18 383
Czech Republic					
Ferro-vanadium	* 3 400	* 4 600	* 5 800	* 6 400	* 6 400
Finland					
Ferro-chrome	238 000	231 000	229 000	434 000	441 000
France					
Ferro-manganese	138 100	130 500	101 000	* 100 000	* 100 000
Ferro-silico-manganese	62 400	63 400	68 500	* 70 000	* 70 000
Ferro-silicon	* 27 000	* 59 000	* 71 000	* 60 000	40 000
Silicon metal	* 112 000	* 128 000	* 110 000	* 110 000	100 000
Georgia					
Ferro-manganese	* 4 500	* 4 500	* 4 500	* 4 500	* 4 500
Ferro-silico-manganese	203 791	242 746	257 421	253 361	244 618
Germany					
Ferro-chrome	* 18 300	* 18 500	* 17 800	* 17 800	* 17 800
Other ferro-alloys	* 9 200	9 985	8 248	* 8 200	* 8 200
Silicon metal	30 105	30 134	28 574	30 283	28 500
Greece					
Ferro-nickel	69 596	93 905	96 435	86 850	94 952
Iceland					
Ferro-silicon	114 230	120 076	131 818	125 204	109 739
Italy					
Ferro-manganese	* 25 000	* 25 000	* 27 000	* 27 000	* 27 000
Ferro-silico-manganese	108 000	145 000	110 000	153 000	67 000
Kosovo					
Ferro-nickel	* 38 200	* 41 000	* 30 200	* 28 900	* 43 400
Macedonia					
Ferro-silico-manganese	36 705	50 756	14 179	—	—
Ferro-nickel	14 413	17 292	19 247	20 001	18 054
Ferro-silicon	30 044	56 167	42 402	72 279	73 014
Norway					
Ferro-manganese	297 300	337 900	325 900	320 000	* 285 000
Ferro-silico-manganese	(a) 281 266	266 000	271 400	* 250 000	* 250 000
Ferro-silicon	* 225 000	170 102	203 886	337 281	192 389
Silicon metal	* 170 000	* 170 000	* 150 000	* 150 000	* 150 000
Poland					
Ferro-manganese	800	800	800	820	* 820
Ferro-silico-manganese	100	400	200	100	* 100
Ferro-silicon	53 206	72 668	78 115	73 589	62 878
Other ferro-alloys	200	300	300	11 250	* 11 300
Romania					
Ferro-chrome	14 353	—	—	—	—
Ferro-silico-manganese	20 605	* 30 000	* 30 000	* 30 000	* 30 000
Russia					
Spiegeleisen	* 7 000	* 7 000	* 7 000	* 7 000	* 7 000
Ferro-chrome	414 288	501 700	477 600	* 480 000	* 480 000
Ferro-silico-chrome	4 200	* 4 200	* 4 200	* 4 200	* 4 200
Ferro-manganese	171 000	* 170 000	* 170 000	* 170 000	* 170 000
Ferro-silico-manganese	147 900	* 148 000	* 148 000	* 148 000	* 148 000
Ferro-molybdenum	6 491	6 917	7 018	5 297	4 503
Ferro-nickel	34 363	34 581	20 049	* 20 000	* 20 000
Ferro-silicon	916 000	1 030 000	1 042 000	* 1 050 000	* 1 050 000
Ferro-vanadium	13 507	16 683	14 381	14 059	14 076
Other ferro-alloys	* 34 000	* 34 000	* 34 000	* 34 000	* 34 000
Silicon metal	48 700	* 48 700	* 48 000	* 48 000	* 48 000
Slovakia					
Ferro-silico-manganese	34 960	25 036	50 089	* 50 000	29 643
Ferro-silicon	26 419	32 304	32 726	41 664	44 030
Other ferro-alloys	38 860	18 575	20 059	* 20 000	26 505

Production of ferro-alloys

tonnes (metric)

Country	2010	2011	2012	2013	2014
Spain					
Ferro-manganese	102 200	92 100	* 80 200	* 80 000	* 80 000
Ferro-silico-manganese	134 200	142 300	* 148 100	* 150 000	* 150 000
Ferro-silicon	* 64 400	* 57 000	* 42 000	* 40 000	* 40 000
Silicon metal	* 32 500	* 43 000	* 62 000	* 65 000	* 65 000
Sweden					
Ferro-chrome	64 400	80 140	35 800	55 078	65 703
Turkey					
Ferro-chrome	* 50 000	* 40 000	* 40 000	* 40 000	* 40 000
Ferro-silico-chrome	* 3 000	* 3 000	* 3 000	* 3 000	* 3 000
Ukraine					
Ferro-manganese	285 643	187 897	163 921	88 626	104 291
Ferro-silico-manganese	1 000 329	930 337	823 131	724 892	960 657
Ferro-nickel	102 940	89 903	119 652	121 586	114 222
Ferro-silicon	253 801	186 306	150 265	191 207	167 977
Other ferro-alloys	28 546	25 126	22 115	15 908	15 326
Egypt					
Ferro-silicon (b)	25 516	52 421	54 930	49 060	* 50 000
Other ferro-alloys (b)	37 194	* 30 000	* 30 000	* 30 000	* 30 000
South Africa					
Ferro-chrome	3 607 132	3 421 911	3 063 257	3 219 000	* 3 000 000
Ferro-manganese	* 517 000	* 696 000	* 654 000	* 650 000	* 650 000
Ferro-silico-manganese	* 273 000	314 000	149 000	* 150 000	* 150 000
Ferro-silicon	* 128 000	124 000	91 000	* 90 000	* 90 000
Ferro-vanadium	* 19 000	* 18 000	* 16 000	* 16 000	* 16 000
Silicon metal	* 46 000	59 000	* 47 000	* 50 000	* 50 000
Zimbabwe					
Ferro-chrome	154 336	161 839	137 534	* 145 000	* 290 000
Canada					
Ferro-niobium	6 695	7 018	7 132	7 974	* 8 000
Ferro-silicon	36 786	31 039	31 979	38 817	* 32 000
Silicon metal	* 30 000	* 30 000	* 35 000	* 35 000	* 35 000
Dominican Republic					
Ferro-nickel	—	34 576	38 433	23 419	—
Mexico					
Ferro-manganese	81 019	73 684	61 845	60 674	67 506
Ferro-silico-manganese	134 470	139 047	161 221	157 855	164 852
USA					
Ferro-silicon	246 000	* 294 000	* 294 000	* 294 000	* 294 000
Silicon metal	* 143 000	* 143 000	* 143 000	* 143 000	* 143 000
Argentina					
Ferro-silico-manganese	10 900	* 11 000	* 11 000	* 11 000	* 11 000
Ferro-silicon	* 11 000	* 11 000	* 11 000	* 11 000	* 11 000
Brazil					
Ferro-chrome	172 800	145 000	181 425	174 200	* 170 000
Ferro-silico-chrome	13 100	11 600	18 890	13 184	18 870
Ferro-silico-magnesium	33 600	20 900	21 200	* 20 000	* 20 000
Ferro-manganese	87 200	77 000	88 714	83 348	* 80 000
Ferro-silico-manganese	218 700	218 600	241 705	227 652	* 230 000
Ferro-nickel	23 800	45 600	94 400	34 500	37 200
Ferro-niobium	77 200	81 900	50 400	46 600	51 700
Ferro-silicon	247 300	210 900	203 881	158 000	230 000
Other ferro-alloys	36 650	32 700	38 784	* 40 000	* 40 000
Silicon metal	184 100	210 400	230 000	230 000	230 000
Colombia					
Ferro-nickel	145 239	103 371	138 966	137 995	* 120 000
Venezuela					
Ferro-manganese	5 300	12 000	* 12 000	* 12 000	* 12 000
Ferro-silico-manganese	16 500	24 000	14 200	* 14 200	* 14 000
Ferro-nickel	45 200	51 800	* 50 000	* 50 000	* 50 000
Ferro-silicon	91 000	84 700	72 300	* 74 300	* 80 000

Production of ferro-alloys

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bhutan					
Ferro-silicon	* 97 500	* 79 600	* 82 000	* 83 000	* 79 500
China					
Ferro-alloys	* 26 100 000	* 28 400 000	* 30 000 000	* 31 000 000	* 31 000 000
Silicon metal	1 142 700	1 355 300	* 1 500 000	* 1 500 000	* 1 500 000
India					
Ferro-aluminium (c)	7 538	7 393	* 6 200	* 6 900	* 6 100
Ferro-chrome (c)	1 003 598	906 556	* 908 000	* 908 000	* 908 000
Ferro-silico-magnesium (c)	19 079	24 452	* 24 000	* 28 000	* 31 000
Ferro-manganese (c)	402 017	446 733	* 448 000	* 448 000	* 448 000
Ferro-silico-manganese (c)	1 242 139	1 478 403	* 1 700 000	* 1 700 000	* 1 800 000
Ferro-molybdenum (c)	3 090	4 362	* 4 400	* 5 100	* 5 600
Ferro-silicon (c)	115 164	127 092	* 130 000	* 130 000	* 130 000
Ferro-titanium (c)	2 172	2 217	* 2 300	* 3 000	* 3 000
Ferro-vanadium (c)	1 521	2 459	* 2 800	* 3 200	* 4 400
Other ferro-alloys (c)	595	730	* 730	* 730	* 730
Indonesia					
Ferro-manganese	* 12 000	* 12 000	* 13 000	* 13 000	* 13 000
Ferro-silico-manganese	* 8 000	* 8 000	* 9 000	* 9 000	* 35 000
Ferro-nickel	93 440	98 450	91 860	91 245	84 255
Iran					
Ferro-chrome (d)	* 8 000	* 8 000	* 8 000	* 8 000	* 8 000
Ferro-silicon (d)	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
Japan					
Ferro-chrome	16 208	17 217	19 392	21 671	* 22 000
Ferro-manganese	453 265	456 798	436 171	460 936	463 345
Ferro-silico-manganese	49 865	49 798	52 287	24 741	* 25 000
Ferro-molybdenum	4 615	5 167	4 616	4 550	* 5 000
Ferro-nickel	348 420	279 944	371 913	402 768	379 291
Ferro-vanadium	4 190	3 980	4 403	4 433	* 4 000
Other ferro-alloys	16 374	20 913	19 364	19 394	* 19 000
Kazakhstan					
Ferro-chrome	1 311 302	1 289 917	1 305 343	1 337 275	1 351 803
Ferro-silico-chrome	159 765	143 296	164 853	165 195	158 825
Ferro-silico-manganese	224 627	232 039	251 530	203 926	200 379
Ferro-silicon	4 813	1 683	464	470	* 470
Other ferro-alloys	1 283	1 754	1 845	646	4 130
Korea (Rep. of)					
Ferro-manganese	286 259	355 047	* 355 000	* 355 000	* 355 000
Ferro-silico-manganese	120 779	195 650	* 196 000	* 196 000	* 196 000
Other ferro-alloys	4 059	4 162	* 4 200	* 4 200	* 4 200
Korea, Dem. P.R. of					
Ferro-alloys	* 10 000	* 13 000	* 16 000	* 21 000	* 22 000
Australia					
Ferro-manganese & ferro-silico-manganese (a)	219 000	267 000	198 000	234 000	269 000
Silicon metal	* 37 000	* 34 000	* 43 000	* 52 000	* 54 000
New Caledonia					
Ferro-nickel	165 506	169 513	184 476	174 078	* 238 000

Notes

(a) Sales

(b) Years ended 30 June of that stated

(c) Years ended 31 March following that stated

(d) Years ended 20 March following that stated

Production of kaolin

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	18 914	18 897	13 497	11 558	* 11 500
Belgium	* 300 000	* 300 000	* 300 000	* 300 000	* 300 000
Bosnia & Herzegovina	41 808	232 147	149 495	44 940	21 610
Bulgaria	* 16 832	7 700	33 900	22 600	* 32 000
Czech Republic (a)	636 000	660 000	624 000	609 000	617 000
France	350 000	310 000	308 000	* 300 000	311 000
Germany (b)	4 578 097	4 898 516	4 398 796	4 348 562	4 275 422
Greece	3 493	7 250	6 268	—	—
Italy	* 180 000	* 180 000	* 180 000	* 180 000	* 180 000
Poland (c)	125 000	163 600	137 800	166 000	* 165 000
Portugal	273 890	322 041	321 689	248 008	264 872
Romania	326	—	—	32 722	30 638
Russia	* 45 000	* 45 000	* 45 000	* 45 000	* 45 000
Serbia	76 197	90 472	69 487	* 70 000	* 70 000
Slovakia	—	4 000	3 000	6 000	6 000
Spain (c)	310 993	384 179	402 251	410 717	350 000
Turkey	787 287	1 229 352	988 081	1 027 189	734 072
Ukraine	1 085 436	1 353 555	1 217 909	1 179 380	1 426 447
United Kingdom	* 1 140 000	* 1 290 000	* 1 150 000	* 1 110 000	* 1 090 000
Algeria	71 065	108 000	100 000	42 500	* 45 000
Egypt	304 200	300 000	* 300 000	* 300 000	* 300 000
Eritrea	* 210	* 240	* 250	* 250	* 250
Ethiopia (d)	1 613	4 498	4 000	3 534	* 3 000
Kenya	* 900	* 980	* 1 100	* 1 200	* 1 200
Madagascar	259	* 260	* 260	* 260	* 260
Nigeria	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
South Africa	29 929	15 220	40 999	22 295	27 258
Sudan	32 696	15 096	11 579	* 26 000	* 30 000
Tanzania	42 649	1 177	1 422	907	3 809
Uganda	27 237	20 883	42 886	43 875	46 286
Cuba	100	3 000	4 000	3 600	1 700
Guatemala	2 143	1 620	1 866	1 339	1 285
Mexico	516 850	372 506	514 730	669 860	* 600 000
USA (e)	5 950 000	5 950 000	5 980 000	5 950 000	* 5 830 000
Argentina	78 722	54 166	66 574	* 70 000	* 65 000
Brazil (a)	1 900 000	1 927 000	2 388 000	2 139 000	1 706 000
Chile	62 226	59 912	60 429	60 000	60 000
Ecuador	41 089	95 062	42 564	100 195	40 236
Paraguay	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
Peru	16 446	18 169	34 585	32 249	* 32 000
Venezuela	9 444	1 482	2 447	2 793	* 3 000
China	3 260 000	3 200 000	* 3 200 000	* 3 200 000	* 3 200 000
India (f)(g)	76 498	76 134	101 354	66 598	* 87 000
Indonesia	* 170 000	* 175 000	* 180 000	* 175 000	* 175 000
Iran (h)	1 480 291	* 1 500 000	1 503 377	* 1 000 000	* 1 000 000
Iraq	2 606	—	—	—	* —
Japan	* 12 000	* 13 000	* 13 000	* 12 000	* 12 000
Jordan	114 931	89 903	76 000	* 65 000	* 65 000
Korea (Rep. of)	962 275	1 051 772	796 603	847 172	682 749
Malaysia	530 331	442 550	438 923	293 480	207 694
Pakistan (i)	22 769	16 055	21 555	22 917	16 191
Philippines	2 490	3 529	4 631	6 568	7 050
Saudi Arabia	66 166	65 000	137 000	101 000	106 000
Sri Lanka	8 207	11 157	11 805	12 990	* 13 000
Taiwan	18 097	16 936	26 376	15 963	1 808
Thailand (a)	156 827	175 881	175 464	* 175 000	* 175 000
Uzbekistan (f)	* 150 000	* 150 000	* 150 000	* 150 000	* 150 000
Vietnam	* 650 000	* 650 000	* 650 000	* 650 000	* 650 000

Production of kaolin

tonnes (metric)

Country	2010	2011	2012	2013	2014
Australia (i)	114 157	46 388	89 229	204 521	* 209 000
New Zealand	107 761	21 545	11 578	13 066	286 057
World total	27 100 000	28 300 000	27 600 000	26 700 000	25 900 000

Notes

(1) In addition to the countries listed, Denmark is believed to produce kaolin

- (a) Beneficiated
- (b) Washed and dried
- (c) Washed
- (d) Years ended 7 July of that stated
- (e) Sold or used by producers
- (f) Beneficiated; excludes directly used natural kaolin
- (g) Years ended 31 March following that stated
- (h) Years ended 20 March following that stated
- (i) Years ended 30 June of that stated

Mine production of lead

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Bosnia & Herzegovina	3 196	3 656	3 700	4 500	4 000
Bulgaria (a)	12 705	14 369	15 949	16 914	15 600
Greece	12 200	13 400	18 060	18 010	16 700
Ireland, Republic of	39 100	50 700	47 400	42 950	40 500
Kosovo	5 700	4 530	5 295	6 378	7 676
Macedonia	41 293	37 295	39 184	42 826	43 810
Montenegro	...	...	1 958	2 453	2 755
Poland	48 050	67 003	64 342	79 480	83 150
Portugal	—	—	87	1 496	3 192
Romania	* 300	* —	* 5 300	* 400	* —
Russia	97 000	119 000	151 000	165 000	194 000
Serbia	1 800	2 100	2 500	3 100	3 700
Slovakia	94	114	166	235	162
Spain	229	5 705	3 800	2 200	1 200
Sweden	67 697	62 028	63 551	59 556	70 848
Turkey	39 000	38 682	57 017	* 76 638	* 62 190
United Kingdom	(c) * 380	(b) 280	(b) 61	(c) * 100	(c) * 100
Burkina Faso	—	—	—	2 160	* 4 000
Morocco	32 647	30 850	27 526	30 765	27 505
Namibia	10 140	8 330	9 270	11 224	10 081
Nigeria	3 300	9 100	11 300	11 500	11 400
South Africa	50 625	54 460	52 489	41 848	29 348
Canada	64 844	67 505	64 116	20 188	3 617
Guatemala	—	—	2 300	863	10 359
Honduras	16 954	13 100	12 400	11 600	15 500
Mexico	192 062	223 717	238 091	253 361	250 462
USA	369 000	342 000	345 000	340 000	* 355 000
Argentina	22 600	26 100	* 25 000	* 23 000	* 29 000
Bolivia	72 803	100 051	81 095	82 131	75 572
Brazil	12 832	8 545	8 922	9 124	* 10 000
Chile	695	841	410	1 829	2 678
Peru	261 990	230 199	249 236	266 472	278 487
Burma	* 7 100	* 8 700	* 9 800	* 11 700	* 18 000
China	1 981 300	2 405 700	2 613 200	2 696 500	* 2 700 000
India (d)	84 442	89 699	208 653	109 948	100 823
Iran	32 000	40 000	45 000	42 000	36 000
Kazakhstan	35 000	38 800	38 000	40 800	37 800
Korea (Rep. of)	584	1 289	1 940	2 500	2 764
Korea, Dem. P.R. of	* 20 000	* 28 500	* 38 000	* 59 000	* 53 000
Laos	1 355	1 361	164	1 600	100
Pakistan	* 900	* 2 000	* 600	* 300	* 200
Saudi Arabia	543	396	* —	—	—
Tajikistan	3 900	8 900	16 000	17 000	28 000
Vietnam	* 2 300	* 3 700	* 200	* —	* 1 400
Australia	711 000	621 487	620 598	711 211	727 953
World total	4 400 000	4 800 000	5 200 000	5 300 000	5 400 000

Notes

- (a) Metal content of ore
(b) By-product of gold mining in Northern Ireland.
(c) By-product of fluorspar mining in England and gold mining in Northern Ireland
(d) Years ended 31 March following that stated

Production of refined lead

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	25 500	26 200	24 504	38 786	37 122
Belgium	121 000	119 000	119 000	129 429	133 252
Bosnia & Herzegovina	4 474	3 370	3 327	2 382	1 227
Bulgaria	98 000	90 000	85 000	90 000	92 000
Czech Republic	36 000	38 000	41 000	42 000	44 000
Estonia	7 200	7 800	8 046	7 581	8 588
France	71 000	80 000	83 000	71 000	72 000
Germany	405 400	429 100	423 000	400 000	408 000
Greece	* 11 000	* 7 000	* 6 000	* 6 000	* 6 000
Ireland, Republic of	19 000	18 000	16 000	17 000	17 200
Italy	150 000	149 500	138 400	151 000	160 000
Netherlands	27 000	27 000	27 000	27 000	31 000
Poland	120 300	121 500	141 000	145 400	149 000
Portugal	9 000	6 000	5 000	4 000	5 000
Romania	11 263	6 747	14 668	14 000	12 000
Russia	96 000	103 000	107 000	103 000	108 000
Slovenia	14 000	15 000	14 000	12 000	11 000
Spain	165 000	177 000	160 000	157 000	166 000
Sweden	59 179	52 438	61 528	68 713	68 708
Turkey	* 42 000	* 48 000	* 50 000	* 50 000	* 55 000
Ukraine	71 500	55 300	43 200	48 800	32 000
United Kingdom	301 000	275 000	311 930	329 200	267 000
Algeria	11 000	10 000	6 000	9 000	9 000
Ghana (a)	* 2 000	2 403	2 961	3 076	2 817
Kenya	* 1 000	* 1 000	* 1 000	* 1 200	* 1 000
Morocco	38 237	36 469	15 600	* 14 000	* 15 000
Mozambique	800	900	1 500	1 900	2 310
Nigeria	11 000	9 000	15 000	* 14 000	14 000
Senegal (a)	* 2 000	2 383	3 366	2 607	2 187
South Africa	51 000	56 000	54 000	52 000	52 000
Tunisia	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Uganda	* 800	* 800	* 800	* 800	* 800
Zambia	* 2 000	* 3 000	* 2 000	* 2 000	* 2 000
Canada	272 937	282 589	279 150	284 351	281 456
Costa Rica	—	4 000	4 000	7 000	10 000
Dominican Republic	—	2 000	5 000	7 000	10 000
Guatemala	* 18 000	* 18 000	* 17 000	* 17 000	* 15 000
Honduras	—	956	—	—	5 000
Mexico	257 200	281 700	279 100	271 200	313 500
USA (b)	1 255 000	1 248 000	1 221 000	1 264 000	* 1 120 000
Argentina	77 200	84 600	* 90 300	* 91 000	* 79 500
Bolivia	500	500	500	—	1 924
Brazil	172 000	184 000	188 000	182 000	190 000
Chile	—	8 000	9 000	14 000	12 000
Colombia	* 42 000	* 42 000	* 42 000	* 42 000	* 42 000
Peru	* —	* —	5 000	62 900	54 550
Venezuela	* 31 000	* 26 000	* 25 000	* 22 000	* 20 000
Burma	* 200	* 200	* 200	* 200	* 200
China	4 157 500	4 603 600	4 590 900	4 935 100	4 740 000
India	367 000	419 000	460 100	463 000	477 000
Indonesia	* 45 000	* 47 000	* 45 000	* 42 000	* 46 000
Iran	75 000	82 000	81 000	76 000	70 000
Israel	26 000	26 000	25 000	25 000	25 000
Japan	267 206	252 562	258 527	251 854	* 246 000
Kazakhstan	103 400	111 518	88 099	91 072	127 064
Korea (Rep. of)	327 900	416 900	460 000	427 700	300 000
Korea, Dem. P.R. of	* 3 000	* 3 000	* 3 000	* 3 000	* 3 000
Lebanon	* 7 200	* 7 200	* 7 200	* 7 200	* 7 200
Malaysia	26 000	44 000	32 100	32 000	28 000
Pakistan (c)	1 545	1 569	1 414	2 527	2 549
Philippines	* 30 000	* 34 000	* 32 000	* 32 000	* 30 000
Saudi Arabia	* 39 000	* 35 000	* 39 000	* 40 000	* 40 000
Sri Lanka (a)	1 000	2 138	3 762	4 803	4 528
Taiwan	35 000	36 000	35 000	34 000	34 000

Production of refined lead

tonnes (metric)

Country	2010	2011	2012	2013	2014
Thailand	55 504	42 223	86 507	87 385	79 250
United Arab Emirates	* 2 000	* 2 000	* 2 000	* 2 000	* 2 000
Australia	218 000	232 000	207 000	232 000	226 000
New Zealand	* 11 000	* 13 000	* 3 000	—	—
World total	9 900 000	10 600 000	10 600 000	11 100 000	10 600 000

Notes

(1) Figures relate to both primary and secondary refined lead and include the lead content of antimonial lead

- (a) Years ended 31 March following that stated
- (b) Excluding lead content of primary antimonial lead
- (c) Years ended 30 June of that stated

Production of lithium minerals

tonnes (metric)

Country	2010	2011	2012	2013	2014
Portugal					
Lepidolite	40 109	37 534	20 698	19 940	17 459
Spain					
Lepidolite	7 824	—	—	—	—
Zimbabwe	42 000	44 000	47 000	44 000	44 000
Canada	* —	* —	* —	* —	108
USA (a)	* 1 000	* 1 000	* 1 000	870	* 900
Argentina (b)(c)	17 822	14 017	13 942	* 13 200	* 16 000
Brazil					
Spodumene	15 733	7 820	7 084	7 982	* 8 000
Chile (d)	52 851	69 597	71 594	60 646	62 253
China	* 55 000	* 58 000	* 60 000	* 61 000	* 61 000
Australia					
Spodumene	303 729	421 228	452 921	* 363 000	* 444 000
World total (Li content)	22 600	27 000	27 800	23 800	26 100

Notes

(1) In addition to the countries listed, Russia has also produced lithium minerals in the past.

- (a) Li content
- (b) Chloride
- (c) Carbonate
- (d) Carbonate, hydroxide and chloride

Production of magnesite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	757 063	867 912	778 810	714 422	754 096
Greece	396 497	393 880	349 998	314 770	391 140
Netherlands (a)	236 053	274 877	290 873	249 568	285 907
Poland	63 000	75 350	83 860	97 000	92 000
Russia	* 2 600 000	* 2 600 000	* 2 600 000	* 2 600 000	* 2 600 000
Slovakia	650 100	751 700	618 400	584 000	557 100
Spain	462 959	577 725	649 977	836 269	840 000
Turkey	2 316 763	2 588 276	2 475 828	2 597 465	* 2 600 000
South Africa	27 700	31 900	* 30 000	* 30 000	* 30 000
Zimbabwe	—	169	—	* —	* —
Canada (b)	* 150 000	* 150 000	* 150 000	* 150 000	* 150 000
Guatemala	—	311	27 132	17 196	24 268
Mexico	—	—	100 724	101 000	* 100 000
Brazil (c)	483 882	476 805	479 304	557 431	* 550 000
Colombia	* —	* —	—	1 774	* 1 750
China	28 410 000	33 010 000	* 35 000 000	* 37 000 000	* 37 000 000
India (d)	235 762	224 104	224 315	195 105	304 670
Iran (e)	126 702	172 697	* 170 000	181 391	* 185 000
Israel (f)	135 930	126 988	105 610	91 040	135 966
Korea, Dem. P.R. of	* 150 000	* 254 000	* 178 000	* 180 000	* 180 000
Nepal	—	—	—	—	225
Pakistan (g)	5 159	4 908	5 444	6 705	3 725
Philippines	4 186	4 784	4 822	5 998	* 6 000
Saudi Arabia	—	159 000	254 000	235 000	286 000
Australia (g)	301 142	671 073	614 139	522 187	611 547
World total	37 500 000	43 400 000	45 200 000	47 300 000	47 700 000

Notes

(1) In addition to the countries listed, Bulgaria is believed to produce magnesite

- (a) Chloride produced from solution mining
- (b) Officially described as magnesitic dolomite and brucite
- (c) Including beneficiated and directly shipped material
- (d) Years ended 31 March following that stated
- (e) Years ended 20 March following that stated
- (f) Magnesium chloride
- (g) Years ended 30 June of that stated

Production of primary magnesium metal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	15 461	13 517	13 798	13 970	13 744
Ukraine	* 2 000	* 2 000	* 2 000	* 2 000	* 2 000
USA	* 40 000	* 40 000	* 40 000	* 40 000	* 40 000
Brazil	* 5 000	* 5 000	* 5 000	* 5 000	4 933
China	650 800	674 900	698 300	769 700	873 900
India	* 200	* 200	* 200	* 200	* 200
Israel	23 309	26 284	27 292	27 399	26 000
Kazakhstan (a)	* 21 000	* 21 000	* 21 000	* 20 000	* 20 000
Korea (Rep. of)	—	—	* 2 500	* 7 500	* 10 000
Malaysia	100	600	650	650	2 950
Oman	—	41 300	37 500	49 000	37 500

Notes

(a) Not marketed as metal but used in titanium production

Production of manganese ore

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bulgaria	106 000	85 600	39 100	103 600	* 75 000
Georgia (a)	* 370 000	* 370 000	* 370 000	* 370 000	* 370 000
Hungary	55 000	58 000	51 000	35 000	51 000
Romania	13 120	3 180	8 993	21 300	12 662
Russia	...	2 600	8 200	—	* —
Turkey	134 336	172 480	192 756	321 785	* 320 000
Ukraine	(a) 1 589 000	1 391 228	1 234 007	1 524 696	1 526 218
Burkina Faso	57 355	49 715	—	—	—
Egypt (b)	37 194	62 388	* 40 000	31 325	* 30 000
Gabon	3 200 570	3 831 215	3 363 170	4 091 399	* 4 000 000
Ghana	1 194 074	1 827 692	1 490 634	1 997 911	1 353 486
Ivory Coast	87 400	43 600	100 400	* 100 000	* 100 000
Morocco	75 614	58 000	90 200	111 000	91 271
Namibia	35 728	41 876	* 42 000	133 473	100 597
South Africa					
Metallurgical	7 156 338	8 635 863	8 931 472	* 10 930 000	* 13 830 000
Chemical	15 407	15 979	11 943	* 22 000	* 27 000
Sudan	—	—	—	3 250	* 3 500
Mexico	466 649	437 264	510 942	580 309	652 465
Brazil	3 125 000	2 738 000	2 796 000	2 833 000	2 498 220
Burma	* 754 000	* 586 000	* 286 000	* 394 000	* 242 000
China	* 13 000 000	* 14 000 000	* 14 500 000	* 15 500 000	* 16 000 000
India (c)	3 056 385	2 411 871	2 342 169	2 588 313	2 166 340
Iran (d)	131 561	194 428	172 560	163 367	* 165 000
Kazakhstan	3 045 000	2 963 000	2 975 000	2 852 100	2 608 800
Malaysia	899 703	597 917	1 099 585	1 125 127	835 429
Thailand	50 450	398	8 151	14 320	14 330
Vietnam	* 82 700	* 64 600	* 15 800	* 9 700	* 800
Australia	6 474 000	6 960 769	7 178 975	7 425 985	7 587 207
World total	45 200 000	47 600 000	47 900 000	53 300 000	54 700 000

Notes

(1) In addition to the countries listed, Colombia and Cuba may produce manganese ore

(a) Marketable

(b) Fiscal years ending 30 June of that stated

(c) Years ended 31 March following that stated

(d) Years ended 20 March following that stated

Production of mercury

kilograms

Country	2010	2011	2012	2013	2014
Finland	9 000	5 000	—	—	—
Russia	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
Morocco	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Mexico (a)	* 11 000	* 120 300	* 235 300	* 266 200	* 300 900
USA	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Argentina	32 000	31 000	37 000	28 000	* 25 000
Chile (b)	* 176 000	(a)* 89 200	(a)* 48 600	(a)* 19 300	* 20 000
China	1 585 000	1 493 000	1 347 000	1 822 000	2 260 000
Kyrgyzstan	99 000	112 000	74 000	* 75 000	46 000
Tajikistan	88 000	100 000	103 000	130 000	* 130 000
World total	2 100 000	2 000 000	1 900 000	2 400 000	2 900 000

Notes

(1) Several countries are believed to have unrecorded production of mercury from copper electrowinning processes and by recovery from effluents

(a) BGS estimates based on net exports

(b) From copper solvent extraction and electrowinning processes

Production of mica

tonnes (metric)

Country	2010	2011	2012	2013	2014
Finland	13 809	12 896	12 112	11 244	11 973
France (a)	* 19 000	* 19 000	* 18 000	* 19 700	* 20 200
Russia	* 9 000	* 9 000	* 9 000	* 9 000	* 9 000
Spain (a)	4 034	3 609	3 518	3 462	3 500
Turkey	36 009	17 542	1 253	2 304	* 2 300
Egypt	* 50	* 50	* 50	* 50	* 50
Madagascar	2 069	3 411	12 352	* 9 800	* 12 300
South Africa	904	633	400	309	83
Sudan	10	378	324	500	* 500
Canada	* 19 000	* 21 000	* 22 000	* 22 000	* 16 000
Mexico	160	—	160	160	* 160
USA (a)(b)	56 100	52 000	47 500	48 100	* 49 500
Argentina	9 638	10 226	5 785	* 6 000	* 6 000
Brazil	4 709	6 193	5 220	9 728	* 10 000
China (c)	* 126 000	* 132 000	* 149 000	* 161 000	* 159 000
India (d)	1 333	1 899	1 256	1 610	* 800
Iran (e)	2 860	7 130	* 7 000	5 635	* 5 600
Korea (Rep. of) (f)	36 486	31 260	25 594	25 143	24 205
Malaysia (g)	4 515	4 245	3 967	4 363	5 659
Sri Lanka	2 095	2 927	1 260	1 493	* 1 500
Taiwan	—	1 455	6 844	8 931	5 016
World total	348 000	337 000	333 000	351 000	343 000

Notes

(1) In addition to the countries listed, Romania is believed to produce mica

(a) Including mica recovered from mica schists and/or kaolin beneficiation

(b) Sold or used by producers

(c) Conservative BGS estimates, based on exports

(d) Years ended 31 March following that stated

(e) Years ended 20 March following that stated

(f) Mainly sericite

(g) Sericite

Mine production of molybdenum

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Armenia	4 377	4 822	5 446	5 934	6 022
Norway	...	...	4	8	2
Russia	4 495	4 842	4 838	3 605	* 3 600
Turkey	—	3	—	1	* 1
Canada	8 648	8 674	8 954	8 952	9 053
Mexico	10 849	10 787	11 366	12 562	14 370
USA	59 400	63 700	60 400	60 700	* 65 500
Argentina	468	1 708	4 850	3 829	1 907
Brazil	337	263	185	* 200	* 200
Chile	37 044	40 698	35 090	38 715	48 770
Peru	16 963	19 141	16 790	18 140	17 000
China	96 615	103 320	120 870	122 265	* 123 000
Iran (a)	3 676	3 365	3 512	3 470	* 3 500
Mongolia	2 198	1 957	1 904	1 819	* 1 800
World total	245 000	263 000	274 000	280 000	295 000

Notes

(1) In addition to the countries listed, Australia, Georgia, India, Democratic P.R. of Korea, Romania and Tajikistan are believed to produce molybdenum

(a) Years ended 20 March following that stated

Production of nepheline syenite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Norway	327 000	330 000	320 000	320 000	331 000
Russia					
Nepheline syenite	4 900 000	4 608 000	4 947 000	4 662 000	4 396 000
Nepheline concentrates	1 000 000	997 000	1 056 700	990 600	1 700 000
Canada	581 000	610 000	592 000	674 000	670 000

Mine production of nickel

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Albania	1 954	914	750	2 151	4 791
Finland	12 100	18 244	19 073	18 560	19 700
Greece	16 100	21 700	21 600	19 100	21 400
Kosovo	9 100	7 728	4 436	7 607	6 724
Macedonia	* 1 800	* 3 600	* 1 700	—	—
Norway	348	339	351	296	290
Poland	570	850	840	570	780
Russia	270 000	270 000	268 700	264 000	264 000
Spain	6 296	—	2 398	7 574	8 631
Turkey	2 539	848	3 805	1 076	2 400
Botswana	24 931	15 675	17 948	22 848	14 958
Madagascar	—	—	5 695	25 148	37 053
Morocco	317	217	288	175	* 200
South Africa (a)	39 960	43 321	45 945	51 208	54 956
Zambia	2 809	2 869	—	—	—
Zimbabwe	6 133	7 992	7 899	12 962	16 633
Canada	160 063	219 025	211 701	223 295	234 951
Cuba	65 400	68 600	64 600	* 66 000	* 50 000
Dominican Republic	—	13 528	15 186	9 355	—
Guatemala	—	—	* 3 250	* 12 100	* 48 400
USA	—	—	—	—	4 093
Brazil	54 100	74 600	89 600	77 400	85 600
Colombia	49 433	37 800	51 595	49 369	41 221
Venezuela	12 063	13 400	8 100	—	2 500
Burma	* —	* —	* —	* 2 000	* 21 000
China	79 800	89 800	93 300	93 200	90 000
Indonesia	305 200	552 300	720 000	869 300	215 700
Philippines	184 330	319 354	317 621	315 633	363 352
Vietnam	—	—	—	1 166	6 854
Australia	168 500	215 014	243 597	280 584	244 689
New Caledonia	131 309	128 732	131 693	164 406	178 080
Papua New Guinea	—	—	9 516	12 918	17 685
World total	1 605 000	2 126 000	2 361 000	2 610 000	2 057 000

Notes

(a) Includes metal and metal content of sulphate and concentrates

Smelter/refinery production of nickel

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Finland	49 772	49 823	46 275	44 498	42 750
France	12 900	13 700	13 200	12 100	8 400
Greece	13 960	18 530	18 630	16 800	18 481
Kosovo	7 200	7 500	4 400	7 600	6 700
Macedonia	14 400	17 300	19 200	20 000	18 100
Norway	92 185	92 427	91 687	91 017	90 526
Poland	600	900	800	600	800
Russia	262 300	263 000	254 000	242 000	239 400
Ukraine	21 900	17 100	20 800	21 200	18 600
United Kingdom	31 600	37 400	34 300	40 400	39 100
Madagascar	—	—	5 695	25 148	37 053
Morocco	* 300	* 200	* 300	* 200	* 200
South Africa	34 700	35 900	32 900	32 200	34 100
Zimbabwe	4 000	3 700	1 800	2 800	4 600
Canada	105 413	142 445	139 800	137 410	115 493
Cuba	33 972	34 572	34 263	33 542	32 909
Dominican Republic	—	13 528	15 186	9 355	—
Guatemala	—	—	—	—	3 700
Brazil	41 900	43 271	59 779	56 500	78 600
Colombia	49 443	37 817	51 595	49 369	41 221
Venezuela	11 700	13 400	8 100	5 200	2 500
Burma	—	—	—	2 000	21 000
China	332 300	435 200	519 200	693 500	* 700 000
Indonesia	18 688	19 690	18 372	21 200	21 900
Japan	166 100	156 900	169 600	177 810	177 782
Korea (Rep. of)	21 173	17 708	19 870	23 325	15 972
Australia	101 600	110 213	128 756	141 519	114 143
New Caledonia	39 802	40 513	45 383	48 370	62 049
World total	1 469 000	1 624 000	1 755 000	1 957 000	1 947 000

Notes

- (1) Data relate to refined nickel plus the nickel content of ferro-nickel, nickel oxide and nickel salts
(2) In addition to the countries listed, the USA produces some nickel as a refinery by-product

Production of perlite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia	95	229	181	53	14
Bulgaria	—	—	3 700	—	* —
Greece	790 000	800 000	870 000	890 000	985 000
Hungary	70 990	70 900	72 364	64 944	* 65 000
Italy	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Russia	* 45 000	* 45 000	* 45 000	* 45 000	* 45 000
Slovakia	23 000	23 000	24 000	16 000	17 000
Turkey	545 585	702 673	887 600	1 075 949	* 1 100 000
Ukraine	* 36 000	* 36 000	* 36 000	* 36 000	* 36 000
South Africa	* 400	* 400	* 400	* 400	* 400
Mexico	31 779	30 750	29 950	27 200	27 000
USA	414 000	420 000	393 000	419 000	* 440 000
Argentina	27 182	27 446	24 663	* 25 000	* 25 000
Chile	—	—	—	4 800	800
China	* 700 000	* 700 000	* 700 000	* 700 000	* 700 000
Iran (a)	547 617	* 500 000	836 928	1 120 951	* 1 100 000
Japan	* 210 000	* 200 000	* 200 000	* 190 000	* 200 000
Philippines	10 500	13 800	9 221	14 249	17 134
Thailand	14 700	26 500	41 400	14 293	54 100
Australia (b)	6 616	2 362	940	1 300	—
New Zealand	5 088	—	3 598	—	—

Notes

(1) In addition to the countries listed, Algeria, Canada, Djibuti, Georgia, Iceland, Morocco and Mozambique are believed to produce perlite

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

Production of crude petroleum

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania	742 012	894 530	1 029 319	1 203 638	1 342 451
Austria	875 969	838 052	837 561	847 952	883 016
Azerbaijan	48 580 900	43 195 200	43 000 000	43 200 000	39 284 500
Belarus	1 700 140	1 681 470	1 660 000	1 645 000	1 645 000
Bulgaria	22 400	21 400	23 600	27 400	* 26 100
Croatia	748 791	664 440	620 835	620 795	558 327
Czech Republic	173 000	163 000	150 000	152 000	147 000
Denmark	12 090 000	10 909 000	9 968 000	8 657 000	8 159 150
Estonia (a)	2 080 000	2 173 132	2 180 313	2 379 253	2 359 463
France	896 000	895 000	806 500	793 000	* 800 000
Georgia	50 413	48 942	42 194	47 863	41 334
Germany	2 511 174	2 677 136	2 633 000	2 638 379	2 429 789
Greece	86 000	87 126	83 143	62 233	59 743
Hungary	735 900	657 000	700 931	626 890	* 600 000
Italy	5 080 498	5 286 042	5 376 629	5 480 000	5 750 000
Lithuania	114 464	113 895	101 644	86 054	80 862
Netherlands	1 414 000	1 464 000	1 467 000	1 519 000	1 900 000
Norway	105 146 000	100 343 000	94 497 000	90 397 000	93 294 000
Poland	686 487	618 163	677 664	960 672	984 216
Romania	4 172 411	4 081 979	3 992 011	3 994 122	3 922 784
Russia	505 000 000	509 000 000	517 000 000	523 000 000	525 000 000
Serbia	865 499	1 020 490	1 124 794	1 163 988	1 112 303
Slovakia	16 000	18 000	14 000	13 000	13 000
Slovenia	233	263	279	298	366
Spain	121 528	99 925	143 526	367 569	305 263
Turkey	2 602 114	* 2 600 000	2 957 000	2 508 894	2 373 000
Ukraine	3 549 000	3 363 000	3 345 000	3 071 000	2 739 000
United Kingdom	62 962 000	51 972 000	44 560 000	40 646 000	39 550 000
Algeria	75 500 000	74 300 000	67 200 000	68 900 000	66 000 000
Angola	90 500 000	83 800 000	86 900 000	87 300 000	83 000 000
Cameroon	3 200 000	3 200 000	3 200 000	3 100 000	4 000 000
Chad	6 400 000	6 000 000	5 300 000	4 400 000	4 100 000
Congo	15 581 948	14 828 348	13 250 062	13 324 007	12 594 591
Congo, Democratic Republic	1 050 000	1 010 000	1 173 020	1 146 380	1 146 920
Egypt	35 000 000	34 600 000	34 700 000	34 500 000	34 700 000
Equatorial Guinea	13 600 000	12 500 000	14 900 000	14 600 000	13 100 000
Gabon	12 431 000	12 170 000	12 300 000	11 800 000	10 900 000
Ghana	361 000	3 833 000	3 928 000	4 905 000	5 261 000
Ivory Coast	2 197 000	1 984 000	1 898 902	1 853 809	1 803 706
Libya	77 600 000	22 500 000	71 100 000	46 400 000	23 300 000
Mauritania	412 000	385 000	327 000	336 000	299 000
Morocco	20 667	9 620	7 000	6 000	* 6 000
Niger	—	350 000	995 700	995 000	995 000
Nigeria	117 200 000	117 400 000	116 200 000	111 300 000	113 500 000
Senegal	53 800	54 500	7 700	15 800	30 100
South Africa	316 000	179 000	137 000	79 000	88 803
South Sudan	—	—	(b) 1 500 000	4 900 000	7 800 000
Sudan	22 800 000	(b) 14 300 000	5 100 000	5 700 000	5 400 000
Tunisia	3 731 400	3 203 300	3 160 400	2 807 400	2 549 100
Barbados	42 069	40 179	37 369	34 923	32 161
Canada	141 600 000	150 200 000	161 000 000	172 600 000	186 200 000
Cuba	3 024 800	3 011 700	2 998 900	2 897 100	2 829 900
Guatemala	605 100	554 100	537 620	505 573	508 862
Mexico	152 670 000	151 842 000	150 601 000	148 998 583	144 138 810
Trinidad & Tobago	5 061 410	4 736 250	4 222 897	3 828 769	4 186 422
USA	346 357 633	359 501 561	408 705 215	462 734 955	535 731 527
Argentina	31 298 178	29 439 986	29 284 559	28 585 384	28 585 385
Bolivia	1 599 700	1 644 800	1 925 800	2 922 000	3 143 275
Brazil	110 600 000	113 400 000	111 470 000	109 360 000	121 372 585
Chile	217 750	246 810	321 305	357 838	397 268
Colombia	38 990 438	45 433 683	46 866 079	49 742 675	49 430 000
Ecuador	24 810 000	25 498 000	25 696 000	26 869 791	29 800 000
Peru	7 753 000	7 533 000	7 494 774	8 278 655	* 8 500 000
Suriname	953 300	966 300	958 219	964 672	988 869
Venezuela	142 500 000	139 600 000	139 700 000	135 100 000	139 500 000

Production of crude petroleum

tonnes (metric)

Country	2010	2011	2012	2013	2014
Afghanistan	* 3 000	* 3 000	* 3 000	4 507	5 080
Bahrain (c)	2 201 000	2 778 000	2 939 000	3 068 000	3 115 000
Brunei	8 448 000	8 248 000	7 955 925	6 733 840	6 217 262
Burma (e)	958 000	935 000	875 000	863 000	826 000
China (f)	202 414 000	202 875 500	207 478 000	209 919 000	211 429 200
East Timor	(d) 2 760 000	(c) 3 095 000	(c) 3 661 000	(c) 2 519 000	(c) 1 467 000
India (e)	37 712 000	38 090 000	37 862 000	37 778 000	37 410 000
Indonesia	47 245 000	45 105 000	43 105 000	41 210 000	39 719 000
Iran	207 100 000	205 800 000	177 100 000	165 800 000	169 200 000
Iraq	120 400 000	136 900 000	152 400 000	153 200 000	160 300 000
Israel	1 791	4 638	30 690	52 259	60 010
Japan	796 000	759 000	724 000	627 000	588 000
Jordan	1 200	900	1 100	* 1 100	* 1 100
Kazakhstan	79 684 000	160 121 800	79 225 000	81 731 400	80 825 600
Kuwait (g)	122 500 000	139 700 000	153 700 000	151 300 000	150 800 000
Kyrgyzstan	82 800	90 300	83 600	83 500	82 900
Malaysia	30 500 000	27 200 000	28 000 000	27 500 000	28 500 000
Mongolia	300 000	351 000	500 137	705 488	* 705 500
Oman	43 100 000	44 100 000	45 803 815	46 902 251	46 200 000
Pakistan (h)	3 160 800	3 205 500	3 276 442	3 735 038	4 237 286
Philippines	1 092 000	1 016 000	876 596	* 877 000	* 877 000
Qatar	65 700 000	78 200 000	83 300 000	84 200 000	83 500 000
Saudi Arabia (g)	466 600 000	525 800 000	547 000 000	542 300 000	543 400 000
Syria	19 100 000	16 500 000	8 500 000	2 800 000	1 600 000
Taiwan	14 477	11 344	11 379	10 511	9 320
Tajikistan	27 000	28 300	29 800	27 300	24 500
Thailand	13 000 000	12 100 000	16 200 000	16 600 000	16 300 000
Turkmenistan	10 700 000	10 700 000	11 000 000	11 400 000	11 800 000
United Arab Emirates	130 800 000	151 300 000	154 700 000	165 700 000	167 300 000
Uzbekistan	3 600 000	3 600 000	3 200 000	2 900 000	3 100 000
Vietnam (c)	15 562 700	15 769 100	17 305 300	17 390 000	16 210 700
Yemen, Republic of	14 300 000	11 200 000	8 800 000	6 900 000	6 600 000
Australia	24 796 000	21 967 000	21 821 000	18 534 000	19 750 000
New Zealand (c)	2 466 000	2 121 860	1 864 190	1 603 420	1 785 700
Papua New Guinea	1 683 000	1 424 000	1 346 000	1 399 000	* 1 300 000
World total	3 928 000 000	4 056 000 000	4 095 000 000	4 115 000 000	4 197 000 000

Notes

(1) The figures shown in this table include natural gas liquids

- (a) From oil shale
- (b) Sudan and South Sudan separated on 9 July 2011
- (c) Including natural gas liquids
- (d) Entirely natural gas liquids
- (e) Years ended 31 March following that stated
- (f) Including oil from shale and coal
- (g) Including shares of production from the Neutral Zone
- (h) Years ended 30 June of that stated

Production of natural gas

million m³

Country	2010	2011	2012	2013	2014
Albania	2	1	18	19	33
Austria	1 713	1 591	1 729	1 359	1 245
Azerbaijan	16 673	16 361	17 242	17 895	18 727
Belarus	213	222	218	228	222
Bulgaria	74	443	390	282	181
Croatia	2 727	2 471	2 013	1 862	1 804
Czech Republic	201	187	204	207	198
Denmark	7 792	6 262	5 480	4 566	4 502
France	736	623	538	340	28
Georgia	8	6	5	5	10
Germany	13 666	12 952	11 706	10 678	10 060
Greece	7	6	6	5	* 5
Hungary	2 600	2 315	2 205	2 028	2 055
Ireland, Republic of (a)	402	357	381	343	354
Italy	7 900	8 300	8 540	7 710	7 280
Netherlands	83 944	76 429	76 020	81 479	66 324
Norway	107 800	101 697	114 918	108 746	108 820
Poland	5 666	5 825	5 783	5 790	5 660
Romania	11 138	11 164	11 095	11 135	11 345
Russia	649 000	669 000	653 000	668 000	639 000
Serbia	423	616	672	660	631
Slovakia	106	106	93	91	87
Slovenia	7	2	2	3	3
Spain	58	58	65	62	20
Turkey	626	536	547	562	* 550
Ukraine	20 382	20 646	20 491	21 313	20 052
United Kingdom	59 707	47 733	41 054	38 475	38 517
Algeria	80 400	82 700	81 500	81 500	83 300
Angola	710	730	740	860	* 750
Congo	934	1 161	1 161	1 740	* 1 750
Egypt	61 300	61 400	60 900	56 100	48 700
Equatorial Guinea	6 540	6 880	6 811	* 6 600	* 6 900
Gabon (b)	85	57	396	* 396	* 400
Ivory Coast	1 580	1 560	1 700	1 700	* 1 700
Libya	16 800	7 900	12 200	11 000	12 200
Morocco	50	56	76	92	* 92
Mozambique	3 114	3 823	3 851	4 304	* 4 400
Nigeria	36 600	39 900	43 300	36 200	38 600
South Africa	1 600	1 400	1 186	838	849
Tunisia	3 402	2 935	2 826	2 890	2 585
Barbados	19	20	23	22	21
Canada	151 478	148 203	144 441	145 367	151 693
Cuba	1 073	1 020	1 035	1 066	1 200
Mexico	57 600	58 300	57 200	58 200	58 100
Trinidad & Tobago	44 624	42 883	42 604	42 831	42 055
USA (b)	603 596	648 506	680 538	689 062	728 253
Argentina	47 097	45 524	44 124	41 708	41 484
Bolivia	14 923	15 790	18 300	20 800	21 954
Brazil	16 152	18 280	20 845	24 290	24 536
Chile	1 792	1 440	1 207	893	907
Colombia	10 599	10 810	10 897	12 930	11 800
Ecuador	340	224	510	514	510
Peru	7 149	12 034	12 527	12 921	12 900
Venezuela	30 200	31 200	32 800	28 400	28 600
Afghanistan	142	144	119	159	141
Bahrain	15 762	15 634	16 755	19 241	20 627
Bangladesh (c)	19 919	20 075	21 056	22 670	23 232
Brunei	12 283	12 797	12 565	12 206	11 852
Burma (d)	12 746	12 888	13 217	13 648	18 492
China	95 791	105 337	110 608	120 860	130 157
East Timor	5 120	5 416	5 192	5 906	5 285
India (d)	52 222	47 559	40 679	34 412	32 693
Indonesia	86 342	81 896	77 972	73 485	74 133
Iran	146 200	151 800	165 600	164 000	172 600

Production of natural gas

million m³

Country	2010	2011	2012	2013	2014
Iraq	1 300	900	700	1 200	1 300
Israel	3 234	4 320	2 558	6 492	7 676
Japan	3 396	3 298	3 276	2 995	2 822
Jordan	185	179	162	* 150	* 150
Kazakhstan	74 812	39 531	40 299	41 912	43 177
Kuwait (e)	11 600	13 500	15 500	16 300	16 400
Kyrgyzstan	23	27	29	33	34
Malaysia	61 250	61 260	62 050	64 780	65 660
Oman	29 279	30 848	37 919	34 723	29 000
Pakistan (c)	41 995	41 676	44 145	42 646	42 302
Philippines	3 683	3 976	3 905	3 511	3 693
Qatar	126 300	161 100	170 500	176 500	177 200
Saudi Arabia (e)	87 700	92 300	99 300	100 000	108 200
Syria	7 700	8 300	5 300	4 300	3 900
Taiwan	290	330	442	381	387
Tajikistan	23	15	7	2	3
Thailand	29 565	29 041	* 41 400	41 800	42 100
Turkmenistan	42 400	59 500	62 300	62 300	69 300
United Arab Emirates	60 500	52 300	54 300	56 000	57 800
Uzbekistan	59 600	49 100	56 900	56 900	57 300
Vietnam	9 402	8 480	9 355	9 751	10 210
Yemen, Republic of	6 200	9 400	7 600	10 300	9 600
Australia	52 081	53 925	59 732	61 241	64 220
New Zealand	4 420	3 995	4 277	4 526	5 040
Papua New Guinea	151	158	149	156	* 160
World total	3 357 000	3 412 000	3 504 000	3 533 000	3 571 000

Notes

(1) So far as possible the figures in this table exclude flared or reinjected gas

- (a) Sales
- (b) Dry gas
- (c) Years ended 30 June of that stated
- (d) Years ended 31 March following that stated
- (e) Including one-half of the output of the Neutral Zone

Production of phosphate rock

tonnes (metric)

Country	2010	2011	2012	2013	2014
Finland	817 289	869 694	858 005	877 189	946 234
Russia	10 300 000	9 800 000	10 017 000	10 500 000	* 10 500 000
Algeria	1 525 234	1 281 100	1 250 300	1 150 000	1 127 190
Burkina Faso	2 400	2 400	2 688	1 414	1 832
Egypt (a)	3 021 335	4 746 000	6 236 000	5 922 000	* 6 000 000
Malawi	—	—	12 403	* 12 000	* 12 000
Mali	* 1 600	* 18 000	* 7 500	* 7 500	* 20 000
Morocco	26 603 000	28 052 000	27 000 000	26 400 000	32 200 000
Senegal	976 200	1 411 000	1 380 900	882 400	806 200
South Africa	2 493 904	2 564 820	2 242 213	2 131 854	2 011 151
Tanzania	17 180	10 125	19 984	23 020	* 23 000
Togo	695 123	865 616	1 100 000	1 213 657	1 085 546
Tunisia	8 148 500	2 479 400	2 762 300	3 283 500	3 784 000
Zimbabwe	56 656	46 047	34 600	17 900	* 10 000
Canada	826 858	851 308	516 000	316 000	—
Cuba	6 200	6 000	1 700	3 000	1 300
Mexico	1 507 402	1 690 606	1 724 662	2 391 451	1 663 059
USA	25 800 000	28 100 000	30 100 000	31 200 000	* 27 100 000
Brazil (b)	6 192 000	6 738 000	6 740 000	6 715 000	5 997 600
Chile					
Phosphate rock	50 528	15 929	15 601	14 956	22 859
Guano	845	1 625	1 266	2 915	11 415
Colombia	* 50 000	* 50 000	54 000	49 400	30 396
Peru	1 134 086	8 889 295	10 345 925	14 842 307	10 884 269
Venezuela	85 240	167 741	151 539	98 458	35 820
China	68 070 000	81 223 000	95 296 000	108 510 000	120 438 000
Christmas Island (a)(c)(d)	566 645	616 000	653 000	672 000	575 000
India (e)	2 097 490	2 259 726	1 941 158	1 383 998	1 011 250
Iran	* 62 000	98 081	33 333	39 243	* 40 000
Iraq	55 000	52 720	100 000	140 000	* 140 000
Israel	2 777 200	3 021 955	2 488 496	2 539 166	2 778 715
Jordan	6 528 708	7 594 000	6 383 000	5 398 600	6 000 000
Kazakhstan	1 755 000	1 716 200	1 868 200	1 831 800	* 1 830 000
Korea, Dem. P.R. of	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Pakistan (a)	47 385	30 950	69 400	104 961	87 806
Philippines					
Phosphate Rock	2 308	2 778	2 952	3 478	3 897
Guano	272	310	331	443	409
Saudi Arabia	—	—	1 534 000	1 820 000	1 911 000
Sri Lanka	47 778	58 254	47 558	51 325	* 51 000
Syria	3 764 900	3 541 900	1 780 300	897 600	* 400 000
Thailand	35 783	3 300	1 990	350	500
Uzbekistan	657 900	652 600	664 300	700 000	* 700 000
Vietnam	2 324 500	2 395 300	2 363 800	2 656 100	2 470 900
Australia (a)	2 135 801	2 388 038	884 643	2 064 291	1 950 050
Nauru (d)	407 654	436 563	521 491	347 184	153 418
World total	182 000 000	205 000 000	219 000 000	237 000 000	245 000 000

Notes

(1) In addition to the countries listed, Indonesia and Nigeria are believed to produce phosphate rock

(a) Years ended 30 June of that stated

(b) Including beneficiated and directly shipped material

(c) Including phosphate dust

(d) Exports

(e) Years ended 31 March following that stated

Mine production of platinum group metals

kilograms (metal content)

Country	2010	2011	2012	2013	2014
Finland					
Platinum	—	—	429	946	1 060
Palladium	—	—	379	766	808
Poland					
Platinum	30	23	39	51	* 60
Palladium	20	13	23	30	* 30
Russia					
Platinum (a)	26 500	52 471	24 900	25 000	22 000
Palladium (a)	115 700	107 500	89 900	84 000	81 300
Other platinum metals (a)	2 200	2 100	2 800	2 600	2 800
Serbia					
Platinum	—	6	3	3	* 3
Palladium	22	4	22	20	* 20
Botswana					
Platinum	498	373	435	218	93
Palladium	2 830	2 115	2 582	1 337	560
Ethiopia					
Platinum (b)	1	1	* —	* —	* —
South Africa					
Platinum	147 790	148 008	128 590	137 024	93 991
Palladium	82 222	82 731	74 738	76 008	58 410
Other platinum metals	57 292	58 111	51 010	51 156	36 043
Zimbabwe					
Platinum	8 639	10 827	10 524	13 066	12 483
Palladium	6 916	8 422	8 136	10 153	10 138
Other platinum metals	1 536	2 162	2 090	2 677	* 2 800
Canada					
Platinum	* 3 500	* 8 300	* 8 200	* 9 700	* 10 700
Palladium	* 6 100	* 14 400	* 14 400	* 16 800	* 18 700
Other platinum metals	* 400	* 900	* 900	* 1 100	* 1 200
USA					
Platinum	3 450	3 700	3 670	3 720	* 3 650
Palladium	11 600	12 400	12 300	12 600	* 12 200
Colombia					
Platinum	997	1 231	1 460	1 504	1 135
China					
Platinum	* 1 400	* 1 400	* 1 400	* 1 400	* 1 400
Palladium	* 700	* 700	* 700	* 700	* 700
Australia					
Palladium (c)	781	445	706	786	766
World total	481 000	518 000	440 000	453 000	373 000

Notes

- (1) Wherever possible, figures relate to quantities of platinum group metals thought to be recovered from ores originating in the country stated
- (2) Figures for metal production are only given for countries where recovery is thought to be based predominantly on domestic materials or on imported materials which have not been recorded as mine production elsewhere in the table
- (3) In addition to the production listed, concentrates produced in Spain, and possibly other countries, are believed to be processed in China to recover platinum group metals

(a) Sales from mine production and stocks

(b) Years ending 7 July of that stated

(c) Platinum group metals; all forms

Production of potash

tonnes (K₂O content)

Country	2010	2011	2012	2013	2014
Belarus	5 222 600	5 305 800	4 830 700	4 178 500	6 339 990
Germany					
Potassic salts	3 023 941	3 214 696	3 149 386	3 075 201	3 126 913
Russia					
Chloride	3 087 210	6 604 470	5 563 200	6 104 270	7 402 350
Spain					
Chloride	513 222	520 555	421 652	711 272	972 045
United Kingdom					
Chloride	* 403 800	* 462 000	* 540 000	* 540 000	* 600 000
Canada					
Chloride	9 788 000	11 005 000	8 962 717	10 140 000	11 345 000
USA					
Potassic salts	930 000	1 000 000	900 000	960 000	* 850 000
Brazil					
Chloride	417 990	423 850	346 509	492 151	442 372
Chile					
Chloride	961 000	864 000	996 172	1 158 403	1 108 478
China	2 344 500	2 598 800	2 559 000	3 600 000	* 3 600 000
Israel					
Chloride	2 041 342	1 789 721	2 115 468	2 155 414	2 212 923
Jordan	1 284 791	1 355 160	1 094 400	1 046 500	1 100 000
World total	30 000 000	35 100 000	31 500 000	34 200 000	39 100 000

Production of rare earth oxides

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	1 496	1 444	2 131	1 443	2 134
USA	—	—	1 800	3 300	* 4 200
Brazil	* 160	* 188	* 134	—	—
China (a)	* 118 900	* 105 000	* 100 000	* 95 000	* 95 000
Malaysia	471	498	114	229	221
Australia (b)	—	2 188	2 612	970	3 965

Note(s)

- (1) All the figures in this table are either reported as rare earth oxides or are calculated to rare earth oxide equivalent.
 - (2) Prior to the 2005-2009 edition of this book, a table for the production of 'rare earth minerals' was included rather than the current 'rare earth oxides'. Users should exercise caution when comparing statistics over longer time periods.
 - (3) Although rare earth minerals are believed to be extracted in other countries, there is insufficient evidence to estimate the quantities of contained oxides.
 - (4) Where possible, data are shown against the country where the mineral is mined.
- (a) Includes production from iron ore extraction, bastnasite concentrates and ion absorption clays
(b) Years ending 30 June of that stated

Production of rhenium

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia	* 0	* 0	* 1	* 0	* 0
Poland	3	3	3	5	* 5
Russia	* 2	* 1	* 2	* 2	* 2
USA	6	9	8	7	* 8
Chile	* 25	* 27	* 27	* 27	* 27
Peru	* 5	* —	* —	* —	* —
China	* 1	* 1	* 1	* 1	* 1
Kazakhstan	* 2	* 3	* 3	* 3	* —
Uzbekistan	* 0	* 0	* 0	* 0	* 0

Production of salt

tonnes (metric)

Country	2010	2011	2012	2013	2014
Albania					
Sea salt	* 47 000	* 47 000	* 47 000	* 47 000	* 47 000
Armenia	29 440	35 570	37 798	30 786	39 793
Austria					
Rock salt	95	169	222	184	245
Salt in brine	1 071 842	1 150 474	3 193 216	3 717 419	3 846 881
Azerbaijan	4 449	* 5 000	5 345	6 268	5 165
Belarus	2 411 683	2 617 565	2 176 650	2 625 270	1 820 547
Bosnia & Herzegovina	566 101	721 046	743 807	727 894	791 047
Bulgaria	1 900 000	2 200 000	2 100 000	2 000 000	* 2 000 000
Croatia	66 835	53 963	45 992	42 502	33 039
Denmark	601 046	* 595 000	* 590 000	580 000	* 580 000
France (a)	* 8 500 000	* 8 500 000	6 545 600	7 312 200	6 500 000
Germany					
Rock salt	9 992 156	8 765 168	5 938 855	8 510 652	4 928 656
Brine salt	2 118 484	2 217 205	2 182 440	2 164 456	2 133 359
Salt in brine	* 4 500 000	* 6 500 000	* 10 900 000	7 878 895	4 075 004
Greece	164 000	174 500	191 970	189 500	* 190 000
Italy					
Rock salt & brine salt	4 006 882	2 912 128	2 862 440	2 672 340	2 560 441
Montenegro					
Sea salt	11 200	10 000	16 000	10 000	* 10 000
Netherlands	5 982 000	6 866 000	6 513 000	6 517 000	6 500 000
Poland					
Rock salt	1 221 700	1 233 800	782 500	1 310 500	763 100
Brine salt	2 464 400	2 633 300	2 732 200	2 735 500	2 705 100
Other salt	763 515	768 000	724 000	686 352	641 769
Portugal					
Rock salt	618 961	631 295	520 284	473 095	69 702
Sea salt	44 574	47 267	88 693	91 282	96 321
Romania	2 388 357	2 248 940	1 888 516	2 127 780	2 046 740
Russia	704 000	373 000	413 000	348 000	361 000
Serbia	30 816	23 334	16 506	13 704	12 994
Slovenia	59	4 291	5 684	3 360	—
Spain					
Rock salt	3 115 940	3 096 383	2 785 959	2 973 993	* 3 000 000
Sea salt	1 242 718	1 314 529	1 222 060	1 221 018	1 320 000
Other salt	92 644	92 850	100 643	114 829	105 000
Switzerland	643 000	478 324	492 700	560 076	418 389
Turkey	4 044 254	6 545 546	5 254 813	5 564 736	* 5 500 000
Ukraine	4 908 186	5 938 000	6 181 415	5 796 287	2 497 706
United Kingdom	6 666 000	6 060 000	6 460 000	6 930 000	* 5 000 000
Algeria					
Brine salt & sea salt	187 160	245 000	178 000	172 900	192 982
Angola	* 50 000	* 40 000	* 40 000	* 40 000	* 40 000
Botswana	364 761	446 525	389 481	521 306	515 311
Djibouti	* 12 000	* 8 000	* 4 000	* 500	* 300
Egypt (b)	2 703 250	2 460 462	2 883 577	2 192 936	* 2 200 000
Eritrea	* 27 000	* 27 000	* 28 000	* 28 000	* 28 000
Ethiopia (c)	330 359	388 153	320 000	318 402	* 300 000
Ghana	* 85 000	* 100 000	* 100 000	* 100 000	* 100 000
Guinea	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Kenya (d)	6 194	24 639	9 980	8 895	18 936
Libya	* 40 000	* 20 000	* 30 000	* 30 000	* 30 000
Madagascar	* 78 000	* 85 000	* 85 000	* 85 000	* 85 000
Mauritania	391	690	* 700	* 700	* 700
Mauritius (e)	3 000	4 000	3 800	3 800	3 500
Morocco	503 351	720 814	* 730 000	* 488 300	439 160
Mozambique (e)	* 120 000	* 120 000	* 130 000	* 130 000	* 130 000
Namibia	783 036	792 000	810 000	651 141	* 657 000
Niger	* 1 300	* 1 300	—	—	—
Senegal	231 400	258 200	237 300	243 000	244 700
South Africa	394 493	381 177	399 135	479 024	493 828
Sudan	141 840	10 791	26 315	20 800	* 15 000
Tanzania	34 455	32 297	34 016	36 032	54 757
Tunisia (e)	1 804 000	1 180 500	1 131 200	1 146 000	698 700

Production of salt

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bahamas (f)	1 310 915	713 138	659 671	956 789	1 493 308
Bonaire	—	* 300 000	* 400 000	* 400 000	* 400 000
Canada					
Rock salt	9 536 288	11 629 830	9 820 792	11 223 829	13 173 990
Other salt (g)	1 001 200	994 718	1 023 832	986 253	995 546
Cuba	271 800	280 800	215 900	222 400	243 300
Dominican Republic (a)	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
El Salvador (e)	114 100	98 200	103 100	* 100 000	* 100 000
Guatemala (e)	* 50 000	* 50 000	* 60 000	* 60 000	* 60 000
Honduras	* 40 000	* 40 000	* 40 000	* 40 000	* 40 000
Jamaica	14 232	14 001	14 587	14 166	* 14 000
Mexico	8 634 098	9 361 454	10 100 935	10 297 955	* 11 000 000
Netherlands Antilles	337 321	—	—	—	—
Nicaragua (e)	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Panama (e)	27 587	16 577	15 596	27 197	25 660
USA					
Rock salt (h)	19 052 000	19 360 000	13 392 000	14 508 000	* 15 876 000
Salt in brine (h)	16 454 000	16 720 000	17 484 000	19 223 000	* 20 727 000
Evaporated salt (h)	7 794 000	7 920 000	6 324 000	6 851 000	* 7 497 000
Argentina	1 532 124	1 888 676	1 843 975	* 1 800 000	* 1 800 000
Brazil					
Rock salt	1 415 373	1 335 454	1 403 364	1 349 411	* 1 400 000
Sea salt	5 614 959	4 829 275	6 078 507	5 926 042	* 6 000 000
Chile	7 694 879	9 966 038	8 057 130	6 576 960	10 553 440
Colombia					
Rock salt	288 676	305 706	308 547	319 184	340 263
Sea salt	139 810	116 265	211 721	113 226	105 577
Ecuador	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Peru	1 228 900	1 468 266	1 242 765	1 205 435	* 1 200 000
Venezuela (e)	* 350 000	* 350 000	* 350 000	* 350 000	* 350 000
Afghanistan	* 5 000	5 000	5 250	5 550	5 680
Bangladesh (b)	1 388 557	1 409 239	1 430 329	1 438 805	1 460 698
Burma (j)	125 218	162 319	207 261	169 109	187 616
Cambodia (e)(i)	* 170 000	* 95 000	* 80 000	* 85 000	* 85 000
China	70 377 600	67 421 600	69 117 800	73 676 000	64 338 000
India					
Rock salt (j)	1 200	—	—	—	—
Sea salt (j)	14 202 300	18 188 300	19 205 600	17 517 000	21 022 100
Other salt (j)	4 406 600	3 990 800	5 341 300	5 502 300	5 865 000
Indonesia	* 600 000	* 650 000	* 700 000	* 720 000	* 750 000
Iran (k)	3 291 063	2 714 735	2 961 952	3 251 195	* 3 250 000
Iraq	102 000	136 007	143 441	181 928	* 182 000
Israel (e)	420 749	399 649	414 984	442 417	459 742
Japan (j)	1 122 000	978 000	925 000	929 000	928 000
Jordan	32 542	—	32 000	* 32 000	* 32 000
Kazakhstan	276 131	364 222	463 960	519 188	596 508
Korea (Rep. of)	222 509	372 230	308 847	421 259	303 510
Korea, Dem. P.R. of	* 500 000	* 500 000	* 500 000	* 500 000	* 500 000
Kuwait	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
Laos	32 240	35 100	47 600	* 48 000	* 48 000
Lebanon	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Mongolia	1 862	2 183	2 461	* 2 100	* 2 100
Oman	12 300	12 400	12 800	11 800	12 900
Pakistan					
Rock salt (b)	1 943 527	1 953 711	2 135 760	2 159 939	2 220 347
Sea salt (b)(d)	174 786	286 697	292 135	297 047	254 985
Philippines (e)	557 644	720 146	774 815	992 640	* 993 000
Saudi Arabia					
Rock salt & brine salt	1 800 000	1 864 000	1 611 000	1 900 000	1 990 000
Sri Lanka	104 000	87 256	* 100 000	* 100 000	* 100 000
Syria	* 80 000	* 80 000	* 40 000	* 20 000	* 10 000
Taiwan	262 594	104 854	70 750	80 966	81 893
Tajikistan	50 365	26 994	27 954	32 062	36 348
Thailand					
Rock salt	1 405 406	1 359 493	1 363 539	1 300 156	1 381 067
Other salt	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000

Production of salt

tonnes (metric)

Country	2010	2011	2012	2013	2014
Turkmenistan	* 215 000	* 215 000	* 220 000	* 220 000	* 220 000
Uzbekistan	* 60 000	* 60 000	* 60 000	* 60 000	* 60 000
Vietnam	975 300	862 000	776 400	718 700	765 700
Yemen, Republic of	* 70 000	* 70 000	* 70 000	* 70 000	* 70 000
Australia	12 186 996	12 849 548	13 167 372	13 503 763	13 453 514
New Zealand	60 000	70 000	88 000	55 000	65 000
World total	279 300 000	288 300 000	283 500 000	292 500 000	282 300 000

Notes

- (1) This table does not include production of refined salt
(2) Salt is known to be produced in many countries for which statistics are not available.
- (a) Salt; all forms
(b) Years ended 30 June of that stated
(c) Years ended 7 July of that stated
(d) Lake salt
(e) Sea salt
(f) Exports
(g) Including salt in brine
(h) Sold or used by producers
(i) Seasons beginning in November and ending in May of the year stated.
(j) Years ended 31 March following that stated
(k) Years ended 20 March following that stated

Production of selenium metal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Armenia	13	14	17	20	20
Belgium	* 200	* 200	* 200	* 200	* 200
Finland	73	86	93	72	94
Germany (a)	* 650	* 700	* 650	* 700	* 700
Poland	79	85	90	80	90
Russia	* 170	* 265	* 172	* 155	* 212
Sweden	72	70	70	100	* 100
Canada	97	35	144	159	154
Mexico	62	95	95	132	120
Peru	59	54	42	50	* 40
China	* 65	* 65	* 65	* 65	* 65
Japan	804	809	820	739	782
Kazakhstan	* 130	* 130	* 130	* 130	* 130
Philippines	* 65	* 65	* 70	* 70	* 70
Uzbekistan	* 20	* 20	* 20	* 20	* 20

Notes

- (1) In addition to the countries listed, Australia, Chile, the Republic of Korea and Zimbabwe are believed to produce selenium metal
(a) Includes selenium produced from imported material

Production of sillimanite minerals

tonnes (metric)

Country	2010	2011	2012	2013	2014
France					
Andalusite	* 65 000	* 65 000	* 68 000	* 68 000	* 68 000
Madagascar	—	—	4 500	4 500	* 4 500
South Africa					
Andalusite	* 245 000	* 295 000	* 265 000	* 270 000	* 270 000
USA					
Kyanite (a)	93 000	98 000	99 000	110 000	* 100 000
Brazil					
Kyanite (b)	* 200	* 200	* 200	* 200	* 200
India					
Kyanite (c)	5 954	4 064	1 048	1 922	* 2 000
Sillimanite (c)	48 784	59 206	43 736	61 597	76 480
Nepal					
Kyanite (d)	* 24	25	29	19	12

Notes

- (1) A number of other countries produce sillimanite minerals but details of output are not reported
- (2) In addition to the countries listed above as producing sillimanite minerals, synthetic mullite is believed to be produced in Brazil, Germany and Hungary
- (3) Production capacity for synthetic mullite also exists in China, India, Japan, the USA and the United Kingdom but output is believed to be zero.

- (a) Including related minerals
- (b) Including beneficiated and directly shipped material
- (c) Years ended 31 March following that stated
- (d) Years ending 15 July of that stated

Mine production of silver

kilograms (metal content)

Country	2010	2011	2012	2013	2014
Armenia	16 400	16 100	14 000	14 083	13 295
Azerbaijan	1 400	4 175	626	2 051	970
Bulgaria	* 55 000	* 55 000	* 55 000	* 55 000	* 55 000
Finland	11 020	11 160	10 479	14 226	12 830
Greece	29 000	* 33 300	* 39 800	39 759	35 785
Greenland	—	9	27	* 3	—
Ireland, Republic of	3 818	6 109	9 454	7 822	6 436
Macedonia	* 32 000	* 30 000	* 31 000	* 32 000	* 33 000
Poland	1 183 000	1 167 000	1 149 000	1 161 114	1 384 000
Portugal	20 561	28 027	29 890	40 621	43 172
Romania	* 18 000	* 18 000	* 18 000	* 18 000	* 18 000
Russia (a)	1 144 600	1 134 000	1 399 600	1 412 100	1 334 300
Serbia (a)	4 384	7 380	8 388	* 8 400	* 8 400
Slovakia	320	330	441	508	437
Spain	20 800	29 900	32 943	* 31 000	* 31 000
Sweden	302 145	301 959	309 337	341 346	382 611
Turkey	363 520	246 500	193 890	189 600	205 000
United Kingdom	506	531	230	82	—
Algeria	147	70	42	27	16
Botswana	—	—	8 700	22 597	22 288
Burkina Faso	—	—	—	31 320	* 60 000
Congo, Democratic Republic	5 875	9 187	12 342	60 431	6 485
Eritrea	—	4 417	29 922	15 799	47 398
Ethiopia (b)	771	715	* 2 400	* 1 400	* 1 000
Ghana	* 3 900	* 3 900	* 3 900	* 3 900	* 3 900
Ivory Coast	—	98	410	572	585
Morocco	243 000	227 100	230 200	255 000	276 800
Namibia	—	1 841	2 376	2 010	2 165
Niger	326	197	329	110	67
South Africa	79 315	73 180	67 304	68 777	37 268
Sudan	631	* 700	* 700	* 700	* 1 000
Tanzania	12 040	13 524	11 227	11 014	14 493
Canada	591 482	661 089	685 255	640 362	493 087
Dominican Republic	22 816	18 169	27 296	78 228	127 712
Guatemala	194 681	273 058	204 681	281 331	858 349
Honduras	59 787	50 634	51 896	50 916	58 826
Mexico	4 410 749	4 777 710	5 358 195	5 821 001	5 765 662
Nicaragua	6 995	7 927	10 207	13 745	13 587
USA	1 275 900	1 122 300	1 055 300	1 037 000	1 183 900
Argentina	693 600	702 000	750 000	774 470	905 100
Bolivia	1 259 000	1 215 586	1 206 000	1 287 200	1 345 022
Brazil	14 630	15 238	20 145	22 427	* 22 000
Chile	1 286 688	1 291 272	1 194 521	1 173 845	1 571 788
Colombia	15 300	24 045	19 368	13 968	11 498
Ecuador	1 169	1 589	2 934	1 198	577
Peru	3 640 444	3 418 862	3 480 587	3 674 283	3 777 800
China	3 085 441	3 231 626	3 639 100	3 670 210	3 567 568
India (c)	148 303	207 144	374 046	349 774	* 340 000
Indonesia	335 040	227 173	247 827	123 109	119 189
Iran	* 40 000	* 40 000	* 40 000	* 35 000	34 945
Japan	4 981	4 486	3 536	3 644	3 541
Kazakhstan	552 060	650 649	963 182	963 580	989 247
Korea (Rep. of)	2 025	2 649	2 925	3 897	3 289
Korea, Dem. P.R. of	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
Laos	17 234	17 976	20 221	32 262	39 823
Malaysia	436	459	1 628	361	533
Mongolia	19 641	19 107	19 118	29 332	39 160
Philippines	41 004	45 530	49 211	40 043	23 005
Saudi Arabia	7 670	5 839	5 500	4 158	4 888
Tajikistan	3 100	1 800	1 800	1 800	1 700
Thailand	15 300	16 423	32 047	32 381	29 216
Uzbekistan	59 100	* 60 000	* 60 000	* 60 000	* 60 000

Mine production of silver

kilograms (metal content)

Country	2010	2011	2012	2013	2014
Australia	1 879 000	1 725 006	1 726 933	1 839 782	1 847 110
Fiji	328	418	342	462	361
New Zealand	17 136	14 324	5 630	11 223	15 811
Papua New Guinea	83 957	90 055	81 332	89 666	84 302
Solomon Islands	—	592	902	685	280
World total	23 387 000	23 415 000	25 064 000	26 053 000	27 427 000

Notes

- (a) Smelter and/or refinery production
- (b) Years ended 7 July of that stated
- (c) Years ended 31 March following that stated

Production of natural sodium carbonate

tonnes (metric)

Country	2010	2011	2012	2013	2014
Turkey	1 623 192	1 749 068	1 852 817	1 665 077	* 1 650 000
Botswana	240 898	257 851	248 629	227 913	268 529
Ethiopia (a)	4 046	3 650	* 4 000	* 4 000	* 4 000
Kenya	473 689	499 100	449 269	468 215	409 845
USA	10 600 000	10 700 000	11 100 000	11 500 000	* 11 600 000

Notes

- (a) Years ended 7 July of that stated

Production of strontium minerals

tonnes (metric)

Country	2010	2011	2012	2013	2014
Spain	83 035	97 102	96 888	90 972	128 077
Morocco	* 2 500	* 2 500	* 2 500	* 2 500	* 2 500
Mexico	31 429	40 669	46 190	67 778	64 931
Argentina (a)	8 512	1 056	* 5 000	* 5 000	* 5 000
China	* 700 000	* 700 000	* 700 000	* 700 000	* 700 000
Iran	—	40 000	* 20 000	* 20 000	* 20 000
Pakistan (b)	160	—	—	—	—

Notes

- (1) In addition to the countries listed, Germany is believed to produce strontium minerals

- (a) May contain unbeneficiated material
- (b) Years ended 30 June of that stated

Production of sulphur and pyrites

tonnes (sulphur content)

Country	2010	2011	2012	2013	2014
Austria					
Recovered (a)	40 512	48 612	47 572	45 442	44 560
Belarus					
Recovered (a)	41 606	45 625	58 322	58 343	70 379
Belgium					
Recovered (c)(a)	353 000	396 500	382 100	396 900	* 400 000
Bosnia & Herzegovina					
Recovered	2 264	4 648	4 473	4 568	4 513
Bulgaria					
Recovered (c)	379 000	411 800	375 800	392 200	* 392 000
Recovered (a)	50 000	50 000	55 000	60 000	* 60 000
Croatia					
Recovered (a)	6 834	14 725	17 411	15 902	19 384
Czech Republic					
Recovered (a)	65 000	35 000	35 000	35 000	* 35 000
Denmark					
Recovered (a)	3 246	3 045	3 925	3 599	4 435
Finland					
Pyrites	250 000	338 000	375 000	347 000	353 000
Recovered (c)	269 449	319 971	329 831	315 958	336 168
Recovered (a)	122 000	133 300	121 700	130 000	* 130 000
France					
Recovered (a)	570 000	505 000	440 000	370 000	* 370 000
Recovered (b)	78 400	78 400	78 400	78 400	* 78 400
Germany					
Recovered (a)	831 533	874 639	798 257	754 540	708 146
Recovered (b)	520 220	542 210	493 169	464 776	437 677
Greece					
Recovered (a)	230 000	214 943	227 197	230 000	* 230 000
Hungary					
Recovered (a)	55 000	60 000	65 000	58 000	* 54 000
Italy					
Recovered (c)	124 200	65 400	58 800	40 200	* 40 200
Recovered (a)	600 000	620 000	540 000	510 000	* 510 000
Lithuania					
Recovered (a)	73 470	76 699	73 040	81 449	76 594
Netherlands					
Recovered (c)	121 000	120 900	117 600	120 900	* 120 000
Recovered (a)	465 000	470 000	450 000	430 000	* 410 000
Norway					
Recovered (c)	36 900	37 531	41 464	38 745	40 119
Recovered (a)	22 000	19 000	20 000	22 000	* 22 000
Poland					
Frasch	516 700	657 100	702 190	526 290	605 420
Recovered (c)	253 000	273 000	267 000	260 000	* 260 000
Recovered (a)	250 075	259 000	285 000	* 280 000	* 280 000
Portugal					
Recovered	23 000	20 500	20 600	* 21 000	* 21 000
Romania					
Recovered	50 700	55 600	50 000	60 000	* 47 000
Russia					
Pyrites	* 71 000	* 71 000	* 71 000	* 71 000	* 71 000
Recovered (a)	6 406 000	6 557 000	6 482 300	6 091 700	* 6 092 000
Recovered (b)	898 700	897 100	919 300	954 200	* 954 000
Sulphur ore	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
Serbia					
Recovered (c)	21 200	27 800	29 700	29 400	* 29 400
Slovakia					
Recovered (c)	4 900	4 900	4 900	4 900	* 4 900
Recovered (a)	73 200	83 300	76 200	85 300	* 85 300
Spain					
Recovered (c)	547 400	490 200	578 400	539 200	* 539 000
Recovered (a)	480 000	520 000	545 000	515 000	* 515 000
Sweden					
Recovered (c)	180 540	211 280	198 850	194 938	205 616
Recovered (a)	83 947	92 973	93 442	64 587	86 538

Production of sulphur and pyrites

tonnes (sulphur content)

Country	2010	2011	2012	2013	2014
Turkey					
Pyrites	55 152	56 780	52 080	45 348	* 40 000
Recovered (a)(b)	72 900	72 900	72 900	* 72 900	* 72 900
Sulphur ore	427	3 820	5 889	8 069	* 10 000
Ukraine					
Sulphur ore	87 000	102 000	140 000	120 000	* 120 000
United Kingdom					
Recovered (a)	162 000	165 000	158 000	313 000	134 000
Algeria					
Recovered (a)	19 500	16 200	10 400	10 000	* 10 000
Egypt					
Recovered (a)	80 000	80 000	60 000	80 000	* 80 000
Libya					
Recovered (a)	130 200	30 000	100 000	50 000	* 20 000
Morocco					
Recovered	30 000	45 000	60 000	60 000	* 60 000
South Africa					
Pyrites	30 309	—	—	—	—
Recovered (c)	141 000	174 000	133 000	* 130 000	* 130 000
Recovered (a)	205 000	163 000	124 000	* 120 000	* 120 000
Zambia					
Recovered (c)	245 000	228 800	261 400	262 000	* 265 000
Aruba					
Recovered	—	43 653	16 408	—	* —
Canada					
Recovered (c)	979 232	638 000	665 000	677 000	649 000
Recovered (a)	6 492 699	5 970 000	5 594 000	5 624 000	5 265 000
Cuba					
Recovered (a)	5 000	15 000	18 000	20 000	* 20 000
Mexico					
Recovered (c)	425 000	522 900	555 600	555 600	* 556 000
Recovered (a)	991 802	959 488	1 010 875	1 028 800	* 998 000
Netherlands Antilles					
Recovered (a)	14 000	—	—	—	—
Trinidad & Tobago					
Recovered (a)	20 000	20 000	15 000	10 000	* 15 000
USA					
Recovered (c)	791 000	720 000	586 000	616 000	* 730 000
Recovered (a)	8 320 000	8 230 000	8 410 000	8 600 000	* 9 040 000
Argentina					
Recovered (c)	23 000	* 23 000	* 23 000	* 23 000	* 23 000
Brazil					
Pyrites	24 803	17 744	21 746	17 581	* 20 000
Recovered (c)	286 875	290 000	255 693	* 220 000	* 220 000
Recovered (a)	143 147	170 136	222 561	218 014	* 220 000
Chile					
Recovered (c)	1 660 048	1 680 224	1 724 042	1 770 574	1 849 250
Colombia					
Recovered (a)	7 013	6 375	7 138	5 969	6 222
Sulphur ore	59 556	58 073	63 790	52 470	48 513
Ecuador					
Recovered (a)(d)	5 000	5 000	7 000	5 000	* 5 000
Peru					
Recovered (e)	490 000	539 200	503 600	555 600	* 556 000
Venezuela					
Recovered (a)	350 000	420 000	465 000	415 000	* 420 000

Production of sulphur and pyrites

tonnes (sulphur content)

Country	2010	2011	2012	2013	2014
Bahrain					
Recovered (a)	138 477	125 648	* 120 181	* 120 000	* 120 000
China					
Pyrites	6 342 900	6 964 300	7 464 300	7 703 600	* 7 700 000
Recovered	6 403 900	7 026 100	7 228 700	7 516 300	* 7 500 000
Sulphur ore	3 200 000	4 000 000	4 660 000	4 975 000	* 4 975 000
India					
Recovered (c)(f)	1 083 189	1 138 000	1 111 000	1 000 000	* 1 000 000
Recovered (a)(b)	* 1 400 000	* 1 400 000	* 1 400 000	* 1 400 000	* 1 400 000
Indonesia					
Recovered (c)	196 100	215 700	225 500	163 400	* 160 000
Recovered (a)	115 000	120 000	120 000	120 000	* 120 000
Iran					
Recovered (e)	1 780 000	1 780 000	1 890 000	1 890 000	1 900 000
Iraq					
Recovered (a)	125 000	140 000	250 000	190 000	* 190 000
Israel					
Recovered (a)	50 000	50 000	50 000	65 000	* 65 000
Japan					
Recovered (c)(g)	1 818 600	1 626 500	1 755 600	1 685 700	* 1 700 000
Recovered (a)	1 891 875	1 755 329	1 747 246	1 778 963	1 750 938
Jordan					
Recovered (a)	549 000	502 000	460 000	486 000	* 490 000
Kazakhstan					
Recovered (c)	522 900	549 000	588 200	604 600	* 604 000
Recovered (a)	2 350 000	2 311 000	2 150 500	2 452 700	2 464 600
Korea (Rep. of)					
Recovered (c)	1 029 400	1 078 400	1 078 400	1 078 400	* 1 078 000
Recovered (a)	* 660 000	1 350 000	1 525 000	1 600 000	1 450 000
Korea, Dem. P.R. of					
Pyrites	17 900	17 900	17 900	17 900	* 17 900
Recovered (c)	16 300	16 300	16 300	16 300	* 16 300
Kuwait					
Recovered (a)	828 288	743 000	844 300	850 000	* 850 000
Oman					
Recovered (a)	50 000	36 000	59 000	51 000	* 50 000
Pakistan					
Recovered (h)	26 641	27 645	25 560	20 610	35 672
Philippines					
Recovered (c)	169 000	169 000	88 200	169 900	* 169 900
Recovered (a)	45 000	45 000	45 000	45 000	* 45 000
Qatar					
Recovered (a)	1 124 210	1 655 937	1 843 982	1 978 862	* 1 900 000
Saudi Arabia					
Recovered (a)	3 200 000	3 300 000	4 092 000	3 900 000	* 3 800 000
Singapore					
Recovered (a)	195 000	300 000	330 000	300 000	* 300 000
Syria					
Recovered (a)	50 000	60 000	20 000	* 6 000	* 3 000
Taiwan					
Recovered	231 700	219 975	231 296	192 292	195 280
Thailand					
Recovered (c)	45 800	45 800	45 800	45 800	* 45 800
Recovered (a)	190 000	200 000	210 000	220 000	* 210 000
Turkmenistan					
Recovered (a)	100 000	200 000	240 000	400 000	* 410 000
United Arab Emirates					
Recovered (a)	180 000	1 875 000	2 200 000	2 510 000	* 2 530 000
Uzbekistan					
Recovered (c)	124 800	124 800	130 700	130 700	* 131 000
Recovered (a)	390 000	362 000	360 000	385 000	* 385 000
Australia					
Recovered (c)	931 400	931 400	882 400	817 000	* 800 000
Recovered (a)	60 000	60 000	60 000	50 000	* 50 000
New Zealand					
Recovered	35 000	35 000	32 700	35 000	* 35 000

Production of sulphur and pyrites

tonnes (sulphur content)

Country	2010	2011	2012	2013	2014
World total					
Pyrites	6 800 000	7 500 000	8 000 000	8 200 000	8 200 000
Frasch	500 000	700 000	700 000	500 000	600 000
Recovered	64 500 000	67 400 000	68 900 000	69 500 000	69 100 000
Sulphur ore	3 400 000	4 200 000	4 900 000	5 200 000	5 200 000

Notes

- (a) From petroleum refining and/or natural gas
- (b) Other
- (c) From metal sulphide processing
- (d) Including frasch
- (e) Sulphur; all forms
- (f) Years ended 31 March following that stated
- (g) Including S content of sulphur ore
- (h) Years ended 30 June of that stated

Production of talc

tonnes (metric)

Country	2010	2011	2012	2013	2014
Austria	138 367	132 018	134 665	134 814	131 108
Finland	419 345	429 494	396 332	361 840	380 821
France	400 000	400 000	350 000	350 000	350 000
Italy	140 000	140 000	140 000	162 234	* 165 000
Macedonia	1 292	547	286	—	—
Norway	6 392	8 191	7 983	8 459	* 8 000
Portugal	11 981	15 462	15 131	11 348	14 942
Romania	296	131	13	—	—
Russia	* 150 000	* 150 000	* 150 000	* 150 000	* 150 000
Slovakia	7 000	7 000	2 000	10 000	3 000
Spain					
Talc	51 897	11 957	8 857	* —	* —
Pyrophyllite	—	5 600	* —	—	—
Sweden	4 000	3 000	—	—	—
Turkey					
Talc	1 826	9 959	14 537	1 132	* 1 100
Pyrophyllite	192 643	115 462	85 251	101 872	* 100 000
United Kingdom	2 633	3 708	3 667	2 947	4 907
Egypt (a)	35 474	12 934	21 516	63 358	* 65 000
Morocco					
Talc	—	516	200	* —	* —
Pyrophyllite	27 066	4 613	* 4 600	* 4 600	* 4 600
South Africa					
Talc	3 150	4 453	4 765	4 924	4 827
Pyrophyllite	122 511	121 368	18 734	17 336	18 900
Canada	100 000	147 000	154 000	175 000	81 000
Guatemala	2 175	3 273	2 449	3 253	* 3 300
Mexico	870	51 221	463 214	846 813	* 850 000
USA	604 000	616 000	515 000	542 000	* 535 000
Argentina (b)	24 820	24 379	23 576	* 24 000	* 24 000
Brazil (b)	412 359	443 533	459 539	592 844	* 600 000
Chile	238	—	—	—	—
Colombia (b)	—	—	—	90	* 100
Peru					
Talc	19 767	28 296	31 559	32 899	28 847
Pyrophyllite	—	—	30 399	31 678	* 31 000
Uruguay	830	54 880	370	710	360

Production of talc

tonnes (metric)

Country	2010	2011	2012	2013	2014
Bhutan	26 302	8 562	16 063	9 584	12 601
China	2 000 000	2 000 000	* 2 200 000	* 2 200 000	* 2 200 000
India					
Pyrophyllite (c)	240 082	255 891	247 968	208 454	* 211 000
Steatite (c)	902 686	998 438	971 778	865 126	790 910
Iran (d)	158 439	58 987	116 087	93 116	* 95 000
Japan					
Talc	* 24 000	* 24 000	* 25 000	* 26 000	* 26 000
Pyrophyllite	* 340 000	* 350 000	* 340 000	* 350 000	* 350 000
Korea (Rep. of)					
Talc	5 729	15 068	21 625	2 808	5 484
Pyrophyllite	673 936	510 708	483 133	524 881	622 865
Korea, Dem. P.R. of	* 50 000	* 50 000	* 50 000	* 50 000	* 50 000
Nepal (e)	5 674	3 556	6 935	5 140	5 703
Pakistan (a)	53 991	47 561	55 515	93 214	72 234
Saudi Arabia					
Pyrophyllite	25 000	8 000	6 000	6 000	7 000
Taiwan	360	659	778	362	133
Thailand					
Talc	672	2 304	5 856	7 880	82 080
Pyrophyllite	2 205	5 300	35 000	* 35 000	* 35 000
Vietnam					
Pyrophyllite	* 16 000	* 16 000	* 16 000	* 16 000	* 16 000
Australia (a)	80 000	99 000	135 000	* 104 000	* 115 000
World total	7 500 000	7 400 000	7 800 000	8 200 000	8 300 000

Notes

- (a) Years ended 30 June of that stated
- (b) Including talc, agalmatolite and pyrophyllite
- (c) Years ended 31 March following that stated
- (d) Years ended 20 March following that stated
- (e) Years ended 15 July of that stated

Production of tantalum and niobium minerals

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia					
Nb content	397	431	450	511	581
Ta content	31	27	31	32	40
Burundi					
Columbite-tantalite	29	52	117	31	—
Congo, Democratic Republic					
Columbite-tantalite	279	383	586	500	1 140
Ethiopia					
Tantalite (a)	400	207	* 200	* 200	* 200
Madagascar					
Columbite	21	8	* 8	* 8	* 8
Mozambique					
Tantalite	55	139	140	* —	* —
Nigeria					
Tantalite	58	64	63	* 60	* 60
Columbite	128	23	23	* 25	* 25
Rwanda					
Columbite-tantalite	560	829	* 1 100	* 2 500	2 303
Canada					
Pyrochlore	* 10 100	* 10 800	* 10 900	* 12 300	* 13 000
Tantalite	—	—	—	121	—
Nb content	4 419	4 532	4 819	4 910	5 480
Brazil					
Pyrochlore	* 238 000	* 243 000	* 268 000	* 244 000	* 280 000
Columbite-tantalite	* 310	* 240	* 210	* 392	* 400
China					
Columbite-tantalite	* 350	* 350	* 350	* 350	* 350
Malaysia					
Struverite	84	110	262	190	255
Australia					
Tantalite	—	* 240	* 100	—	—
World total concentrates (b)	251 000	257 000	282 000	261 000	298 000
Nb content	105 000	108 000	119 000	109 000	125 000
Ta content	600	700	800	1 100	1 200

Notes

(1) Niobium and tantalum minerals are believed to be produced in Namibia and South Africa.

(2) The figures in this table refer to gross tonnage of tantalum and niobium concentrates, except where otherwise indicated

(3) Tantalum is also recovered from tin slags and is believed to have accounted for approximately 20% of raw material supplied

(a) Years ended 7 July of that stated

(b) Excluding Russia

Production of tellurium metal

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	31	31	30	* 30	* 30
Sweden	—	—	7	24	31
Canada	8	6	11	12	9
USA	50	* 50	* 50	* 50	* 50
Japan	47	47	43	31	32

Notes

(1) In addition to the countries listed, Germany is believed to produce tellurium metal

Mine production of tin

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Portugal	22	39	42	84	75
Russia	143	75	249	156	* 150
Spain	—	9	69	0	—
Burundi	67	159	259	74	106
Congo, Democratic Republic	9 330	10 229	10 439	3 427	4 612
Egypt	...	...	—	69	85
Niger	6	10	1	8	5
Nigeria	1 258	1 406	2 408	2 516	2 485
Rwanda	3 970	4 508	3 477	3 671	4 447
Tanzania	4	22	68	118	59
Uganda	24	0	0	19	33
Bolivia	20 190	20 373	19 702	19 287	19 791
Brazil	10 400	10 725	13 667	16 830	* 17 000
Peru (a)	33 848	28 882	26 105	23 668	23 105
Burma	* 800	* 2 100	* 2 100	* 9 000	* 35 000
China	129 600	127 400	115 900	157 980	160 000
India (b)	45	37	36	26	* 25
Indonesia	* 92 300	* 97 400	* 101 200	* 88 400	* 70 200
Laos	463	337	520	579	868
Malaysia	2 668	3 340	3 725	3 697	3 777
Mongolia	7	42	(c)* 54	(c)* 60	(c)* 60
Thailand	291	282	199	132	156
Vietnam	* 5 400	* 5 400	* 5 400	* 5 400	* 5 400
Australia	18 263	14 014	6 158	6 472	7 207
World total	329 000	327 000	312 000	342 000	355 000

Notes

(a) Recoverable

(b) Years ended 31 March following that stated

(c) Estimate based on reported exports

Smelter production of tin

tonnes (metric)

Country	2010	2011	2012	2013	2014
Belgium	9 946	10 008	11 350	10 346	9 718
Poland	602	82	1 375	1 900	2 253
Russia	1 381	726	900	489	* 490
Bolivia (a)	14 975	14 518	14 280	14 863	15 439
Brazil	9 098	9 382	11 955	14 721	12 100
Peru	36 451	32 290	24 811	24 181	24 460
China	149 000	155 500	148 100	159 601	186 900
India (b)	24	23	14	23	* —
Indonesia	* 64 200	* 73 000	* 79 800	* 63 000	* 63 800
Japan	841	947	1 133	1 786	1 746
Malaysia	38 737	40 267	37 792	32 668	34 971
Thailand	23 551	20 670	19 996	19 088	16 929
Vietnam	3 042	* 3 900	* 4 800	* 5 500	* 5 500
World total	352 000	361 000	356 000	348 000	374 000

Notes

(1) Figures relate to both primary and secondary metal

(2) In addition to the countries listed, many countries produce small amounts of secondary metal

(a) Refined, including alloys

(b) Years ended 31 March following that stated

Production of titanium minerals

tonnes (metric)

Country	2010	2011	2012	2013	2014
Norway					
Ilmenite	864 000	870 000	830 614	826 126	863 660
Russia					
Ilmenite	2 500	63 490	125 095	150 458	178 426
Ukraine					
Ilmenite	* 600 000	* 600 000	* 600 000	* 600 000	* 600 000
Rutile	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Egypt					
Ilmenite	11 000	—	—	* —	* —
Kenya					
Ilmenite	—	—	—	—	281 543
Rutile	—	—	—	—	52 465
Madagascar					
Ilmenite	* 273 000	511 000	562 000	562 000	334 000
Rutile	* 5 700	* 9 400	* 13 000	* 8 800	* 7 000
Mozambique					
Ilmenite	678 400	636 800	574 500	720 100	854 600
Rutile	4 700	6 500	5 100	4 000	6 100
Senegal					
Ilmenite	—	—	—	—	1 005 290
Rutile	—	—	—	—	262
Leucoxene	—	—	—	—	401
Sierra Leone					
Ilmenite	18 206	14 576	21 400	32 350	25 265
Rutile	68 198	67 970	94 490	120 350	83 138
South Africa					
Ilmenite (b)	* 1 200 000	* 1 369 000	* 1 203 000	* 1 070 000	* 1 105 000
Rutile	135 000	133 000	* 141 000	* 734 000	* 133 000
Canada					
Ilmenite (a)(b)	* 2 400 000	* 2 500 000	* 2 700 000	* 2 800 000	* 2 500 000
USA	* 200 000	* 300 000	* 300 000	* 200 000	* 100 000
Brazil					
Ilmenite	53 928	68 804	69 071	78 264	* 80 000
Rutile	2 331	2 350	1 881	2 021	* 2 000
China					
Ilmenite	* 1 000 000	* 1 100 000	* 1 100 000	* 1 100 000	* 1 100 000
India					
Ilmenite (c)	663 217	751 163	738 524	* 740 000	* 740 000
Rutile (c)	26 593	16 598	16 527	* 16 000	* 16 000
Kazakhstan	* 17 000	* 17 000	* 17 000	* 17 000	* 17 000
Malaysia					
Ilmenite	19 036	28 782	22 275	16 043	8 159
Rutile	7 567	10 810	20 008	5 983	3 069
Sri Lanka					
Ilmenite	52 637	62 955	44 707	42 685	135 298
Rutile	2 568	1 970	1 590	3 155	37 070
Vietnam					
Ilmenite	586 800	760 000	978 300	1 038 300	* 1 100 000
Australia					
Ilmenite	1 339 000	1 276 600	1 344 200	1 342 000	* 1 340 000
Rutile	438 000	474 300	438 856	232 000	* 300 000
Leucoxene	160 000	224 000	228 000	* 230 000	* 230 000
World total					
Ilmenite (wt of concs)	10 000 000	10 900 000	11 200 000	11 300 000	12 400 000
Rutile (wt of concs)	800 000	800 000	800 000	1 200 000	700 000
All forms (TiO ₂ content)	5 600 000	6 100 000	6 200 000	6 600 000	6 700 000

See notes on following page

Production of titanium minerals

Notes

- (1) The figures in this table refer to gross tonnage of titanium concentrates
 (2) Some ilmenite is converted to synthetic rutile in Australia, India, Japan and USA
 (3) In 2014 South Africa produced an estimated 700 000 tonnes of slag (85% TiO₂) and Canada produced an estimated 1 000 000 tonnes of slag (80-95% TiO₂)
- (a) Canada produces some ilmenite which is sold as such and not processed into slag, but tonnages are small
 (b) It is believed that the majority of this is processed into slag.
 (c) Years ended 31 March following that stated

Mine production of tungsten

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Austria	975	861	706	851	862
Portugal (a)	799	818	763	692	671
Russia	5 588	7 103	7 252	6 266	* 6 300
Spain	303	425	496	614	1 036
Burundi	100	162	190	50	* 50
Congo, Democratic Republic	40	23	37	60	8
Rwanda	630	950	1 105	* 1 800	* 1 700
Uganda	44	8	34	57	* 60
Canada	364	2 368	2 505	2 762	2 689
Bolivia	1 203	1 418	1 573	1 580	1 578
Brazil (b)	166	244	381	494	* 500
Peru	716	546	365	35	77
Burma (c)	163	* 140	* 130	* 140	* 140
China	51 287	61 802	62 009	64 895	* 68 000
Korea, Dem. P.R. of	* 110	* 110	* 100	* 60	* 70
Kyrgyzstan	* 100	* 100	* 100	* 100	* 100
Mongolia	27	13	42	—	—
Thailand (a)	481	229	107	203	139
Uzbekistan	* 300	* 300	* 300	* 300	* 300
Vietnam	—	—	—	—	* 1 000
Australia	16	15	28	31	12
World total	63 400	77 600	78 200	81 000	85 300

Notes

- (1) In addition to the countries listed, the USA is known to produce tungsten
- (a) Wolframite and scheelite
 (b) Mainly scheelite
 (c) Including tungsten content of tin-wolframite concentrates

Mine production of uranium

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Czech Republic	259	252	222	232	165
Germany	* 8	52	50	27	33
Romania	* 77	* 77	* 90	* 80	* 77
Russia	3 563	2 993	2 862	3 135	2 990
Ukraine	850	890	960	1 075	962
Malawi	671	785	1 102	1 133	369
Namibia	4 500	3 262	4 500	4 328	3 259
Niger	4 198	4 159	4 821	4 277	4 156
South Africa	579	556	467	531	566
Canada	9 518	9 145	8 998	9 331	8 729
USA	1 628	1 537	1 596	1 794	1 884
Brazil	148	265	231	198	231
China	* 827	* 1 500	* 1 500	* 1 450	* 1 500
India	* 400	* 400	* 385	* 400	* 385
Kazakhstan	17 803	19 451	21 317	22 567	23 127
Pakistan	* 45	* 45	* 45	* 41	* 45
Uzbekistan	2 400	3 000	3 000	2 400	2 400
Australia	5 971	5 961	7 022	6 370	5 001
World total	53 400	54 300	59 200	59 400	55 900
World total (U ₃ O ₈ equivalent)	63 000	64 100	69 800	70 100	66 000

Notes

(1) Excluding uranium production from decommissioning operations

Mine production of vanadium

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Russia	12 293	12 860	14 856	14 402	15 125
South Africa	22 606	21 652	19 957	* 14 000	* 10 000
USA	1 060	590	106	591	* —
Brazil	—	—	—	—	1 032
China	* 32 000	* 36 000	* 39 000	* 41 000	* 41 000
Kazakhstan	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
World total	69 000	72 000	75 000	71 000	68 000

Notes

(1) This table includes vanadium in slag products but excludes vanadium recovered as a by-product of the refining and burning of heavy oils

Production of vermiculite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Egypt	2 865	2 093	* 2 500	2 743	* 2 800
Kenya	395	515	457	400	* 400
South Africa	199 285	170 571	132 886	127 658	143 007
Uganda	1 121	6 882	4 165	243	* —
Zimbabwe	—	—	—	—	13 300
Mexico	98	241	500	425	* 400
USA (a)	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Argentina	2 500	1 000	* 320	* 500	* 500
Brazil	49 976	54 970	51 986	68 014	* 70 000
China	* 15 000	* 15 000	* 15 000	* 15 000	* 50 000
India (b)	19 234	10 194	7 947	10 176	* 24 000
Japan	* 6 000	* 6 200	* 6 200	* 6 200	* 6 200
Australia (c)	7 922	8 297	9 256	9 091	—

Notes

(a) Sold or used by producers

(b) Years ended 31 March following that stated

(c) Years ended 30 June of that stated

Production of wollastonite

tonnes (metric)

Country	2010	2011	2012	2013	2014
Finland	12 100	11 500	* 11 500	* 11 500	* 11 500
Spain	6 000	7 417	10 918	16 738	15 298
Mexico	46 548	47 523	55 204	57 302	54 579
USA	* 67 000	* 70 000	* 70 000	* 70 000	* 70 000
China	710 000	745 000	* 750 000	* 750 000	* 750 000
India (a)	183 381	184 445	145 667	192 642	179 660

Notes

(a) Years ended 31 March following that stated

Mine production of zinc

tonnes (metal content)

Country	2010	2011	2012	2013	2014
Armenia	7 468	8 106	8 431	8 294	7 649
Bosnia & Herzegovina	5 514	6 862	7 600	9 100	8 100
Bulgaria (a)	9 904	10 977	12 116	13 902	11 900
Finland	55 562	64 115	52 200	41 124	46 100
Greece	18 400	21 200	20 800	22 549	23 085
Ireland, Republic of	342 500	344 000	337 500	326 700	282 600
Kosovo	4 100	2 872	3 818	4 983	5 514
Macedonia	32 872	28 132	28 037	30 907	31 570
Montenegro	* 250	* 3 300	4 677	5 487	5 505
Poland	107 700	87 200	76 700	75 900	56 000
Portugal	6 422	4 227	30 006	53 382	67 378
Romania	* 7 700	* 8 800	* 8 400	* 2 000	* 3 300
Russia	214 000	197 000	189 000	193 000	217 000
Serbia	2 600	3 100	6 000	5 800	7 100
Slovakia	82	103	134	190	176
Spain	17 323	33 197	28 634	30 428	26 756
Sweden	198 687	194 021	188 325	176 582	221 841
Turkey	195 500	158 057	195 793	195 025	210 152
Burkina Faso	—	—	—	35 640	67 760
Congo, Democratic Republic	4 612	7 379	5 300	6 057	6 369
Morocco	43 680	45 065	47 600	44 200	45 412
Namibia	204 200	192 500	193 600	188 402	178 399
Nigeria	200	3 100	13 800	7 000	7 000
South Africa	36 142	36 629	37 034	30 145	26 141
Tunisia	200	600	7 400	7 700	7 400
Canada	649 065	622 600	641 134	426 545	352 745
Guatemala	—	—	442	1 221	13 394
Honduras	33 839	26 000	26 000	25 000	30 000
Mexico	570 004	631 859	660 349	642 542	659 878
USA	748 100	724 800	738 400	784 400	* 820 000
Argentina	32 600	38 000	42 000	47 650	57 577
Bolivia	411 409	427 129	389 911	407 332	448 970
Brazil	211 203	197 840	164 258	152 147	* 159 000
Chile	27 662	36 602	26 762	29 759	45 094
Peru	1 470 450	1 256 383	1 281 282	1 351 273	1 319 000
Burma	* 8 600	* 9 200	* 8 000	* 4 800	* 6 100
China	3 842 200	4 050 000	4 859 100	5 187 700	* 5 200 000
India (b)	729 886	726 518	759 527	758 449	670 538
Iran	128 000	138 000	138 000	130 000	150 000
Kazakhstan	453 500	429 000	425 000	417 000	386 300
Korea (Rep. of)	355	743	1 434	1 749	1 919
Korea, Dem. P.R. of	* 38 000	* 34 000	* 35 000	* 36 000	* 32 000
Laos	1 140	1 642	883	* 2 000	* 2 000
Mongolia	56 300	52 350	59 550	52 050	46 600
Pakistan (c)	9 100	11 123	10 024	—	—
Philippines	9 268	18 170	19 559	16 730	—
Saudi Arabia	4 879	4 934	21 213	26 293	41 804
Tajikistan	—	9 000	29 900	24 300	54 300
Thailand	21 971	22 259	24 996	25 887	34 033
Vietnam	* 36 000	* 34 000	* 25 000	* 20 000	* 17 000
Australia	1 480 000	1 514 756	1 541 224	1 524 504	1 561 109
World total	12 500 000	12 500 000	13 400 000	13 600 000	13 700 000

Notes

(a) Metal content of ore

(b) Years ended 31 March following that stated

(c) Years ended 30 June of that stated

Production of slab zinc

tonnes (metric)

Country	2010	2011	2012	2013	2014
Belgium (a)	260 000	282 000	250 000	252 000	262 000
Bulgaria	93 800	88 400	73 100	* 72 000	87 800
Finland	307 144	307 352	314 742	311 686	302 000
France	163 000	164 000	161 000	152 000	171 000
Germany	165 000	170 000	169 000	162 000	165 000
Italy	104 700	110 200	97 200	111 000	110 100
Netherlands	264 000	261 000	257 000	275 000	290 000
Norway	148 862	153 200	152 647	143 444	165 600
Poland	135 100	144 100	138 300	146 300	154 000
Russia	241 000	252 000	257 000	240 000	252 000
Spain	517 100	527 100	528 300	* 530 000	* 530 000
Ukraine	7 600	6 600	7 000	3 900	8 100
Algeria	31 000	25 000	20 000	25 000	25 000
Namibia	151 688	145 639	145 342	128 291	* 122 000
South Africa	90 000	73 000	—	—	—
Canada	691 221	662 151	648 619	651 634	649 217
Mexico	327 772	322 116	323 569	322 781	320 923
USA	248 700	247 600	261 400	233 200	185 000
Argentina	42 700	43 500	37 500	37 900	29 100
Brazil	288 107	284 770	246 526	242 000	246 000
Peru	223 112	313 714	319 280	346 400	336 500
China	5 208 900	5 212 200	4 881 200	5 279 600	5 826 900
India (a)	740 402	783 647	704 228	767 994	737 829
Iran	120 000	132 000	148 000	140 000	132 000
Japan	574 008	544 674	571 312	587 291	583 021
Kazakhstan	318 858	319 847	319 847	320 150	324 946
Korea (Rep. of)	750 000	828 735	881 100	886 000	901 000
Korea, Dem. P.R. of	* 36 000	* 30 000	* 31 000	* 32 000	* 27 000
Thailand	95 219	98 370	101 263	76 576	65 694
Uzbekistan	50 000	65 000	62 000	* 54 000	* 66 000
Vietnam	* 16 000	* 18 000	* 18 000	* 12 000	* 12 000
Australia	499 000	507 316	498 259	498 291	481 573
World total	12 900 000	13 100 000	12 600 000	13 000 000	13 600 000

Notes

(a) Years ended 31 March following that stated

Production of zirconium minerals

tonnes (metric)

Country	2010	2011	2012	2013	2014
Russia	9 308	8 914	(a)* 9 000	(a) 8 504	(a)* 8 500
Ukraine	* 35 000	* 35 000	* 35 000	* 35 000	* 35 000
Kenya	—	—	—	—	40 123
Madagascar	7 490	13 075	22 500	22 500	27 000
Mozambique	37 100	43 600	46 900	31 400	50 800
Senegal	—	—	—	—	8 277
Sierra Leone	7 092	8 350	610	2 950	1 868
South Africa	381 000	383 000	* 393 000	* 292 000	* 393 000
USA	* 110 000	* 115 000	* 115 000	* 115 000	* 115 000
Brazil (a)	23 235	23 283	20 425	21 154	* 20 000
China	* 33 500	* 33 500	* 33 500	* 33 500	* 33 500
India (b)	33 209	25 996	21 125	* 20 000	* 20 000
Indonesia (c)	* 50 000	* 127 000	* 109 000	* 49 000	* 21 000
Malaysia	1 267	1 685	442	379	677
Sri Lanka	9 200	641	293	323	* 325
Vietnam	23 730	24 020	* 21 000	* 7 000	* 7 000
Australia	549 000	762 100	604 900	388 000	* 400 000
World total	1 310 000	1 605 000	1 433 000	1 027 000	1 182 000

Notes

(1) In this table the term 'zirconium minerals' is understood to mean zircon, unless otherwise stated

(a) Including caldasite rock containing zircon and baddeleyite

(b) Years ending 31 March following that stated

(c) Conservative BGS estimates, based on exports



Price £30

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