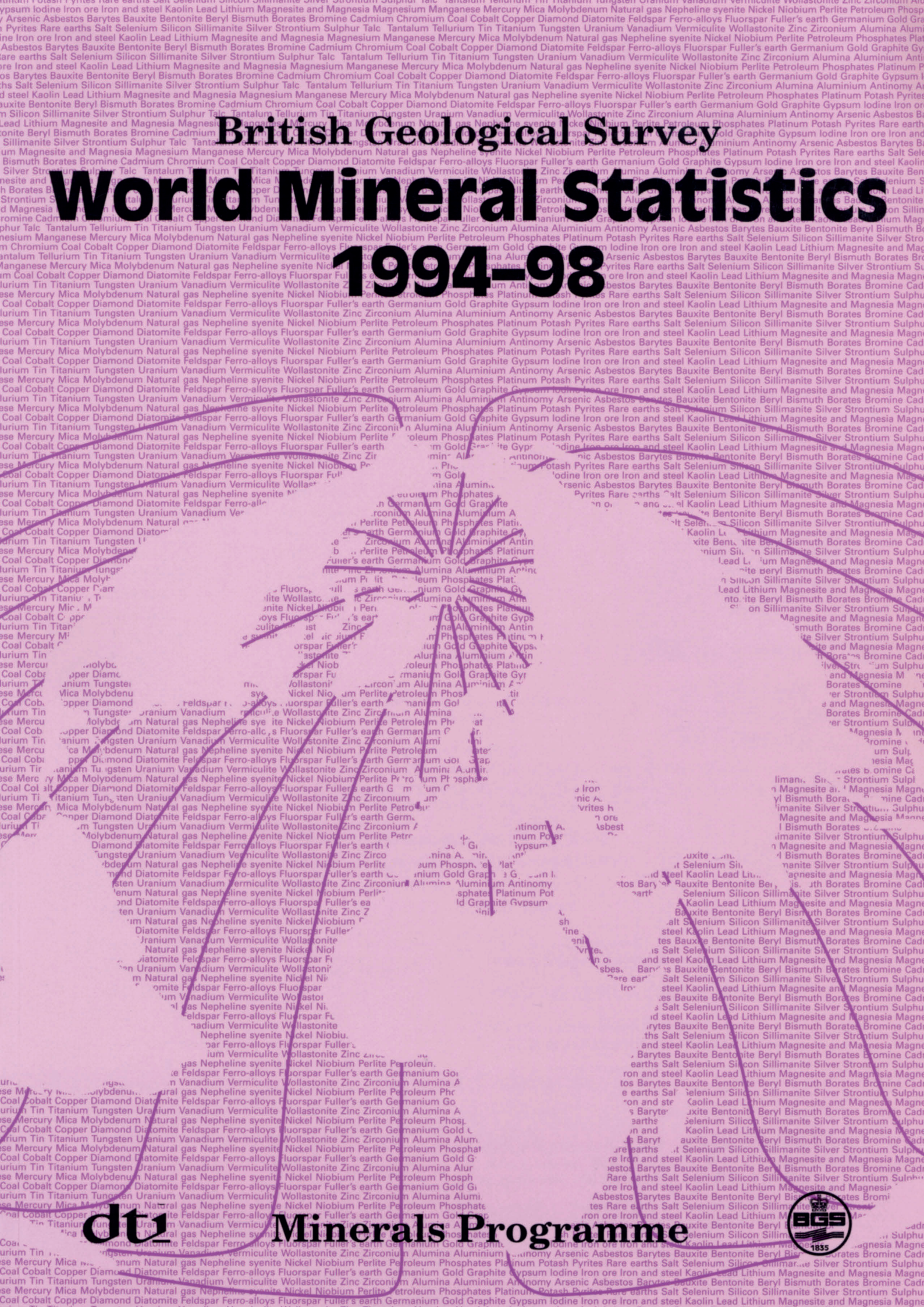


British Geological Survey

World Mineral Statistics 1994-98



World Minerals Programme

BRITISH GEOLOGICAL SURVEY

WORLD MINERAL STATISTICS 1994–98

Production: Exports: Imports

Compiled by L E Stockwell,
J A Hillier, A J Mills, R White
Research and graphics by G R Chapman

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First Published 2000

BRITISH GEOLOGICAL SURVEY

Keyworth, Nottingham NG12 5GG
☎ 0115-936 3100

Murchison House, West Mains Road, Edinburgh EH9 3LA
☎ 0131-667 1000

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The British Geological Survey carries out the geological survey of Great Britain and Northern Ireland (the latter as an agency service for the government of Northern Ireland), and of the surrounding continental shelf, as well as its basic research projects. It also undertakes programmes of British technical aid in geology in developing countries as arranged by the Department for International Development.

The British Geological Survey is a component body of the Natural Environment Research Council.

*All communications regarding the content of this publication should be addressed to the Programme Manager, Onshore Minerals, Hydrocarbons and Coal Resources, British Geological Survey, Keyworth, Nottingham NG12 5GG
☎ 0115-936 3493 Fax 0115 936 3520
E-mail minerals@bgs.ac.uk*

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*Bibliographical reference
BRITISH GEOLOGICAL SURVEY. 2000. *World mineral statistics 1994-98: production: exports: imports.* (Keyworth, Nottingham: British Geological Survey.)*

Printed by Halstan & Co Ltd, Amersham, Buckinghamshire

ISBN 0 85272 352 0

PREFACE

This volume is the twenty-second in the series *World Mineral Statistics*, published by the British Geological Survey. The first volume in the previous series, *Statistical Summary of the Minerals Industry*, was published in 1913.

The publication is compiled from a comprehensive database, maintained by the British Geological Survey, which can provide special reports tailored to users' needs. For example both production and trade data can be broken down by commodity, sub-commodity or country and provided in either hard copy or digital form.

Production trends evident in the previous five years continued into 1998. Many metals continued to show strong growth as shown by the increased output of copper, nickel, zinc and silver and gold. Copper output has increased over the five years by a remarkable 6 per cent per annum, the same annual growth rate as in the last decade of the nineteenth century. It is also worth noting that approximately 30 per cent of total world copper output is supplied by Chile, and that Chilean mine production is twice that of the USA, the second largest producer. Environmental effects continue to impact adversely on output of lead, asbestos and fluorspar. Petroleum and natural gas production remained steady but coal showed a decrease of more than 3 per cent, chiefly due to a 10 per cent cut-back of output in China. Many European countries also recorded falls in coal production. Output from the major exporters, USA, South Africa and Australia, continued to rise.

The year 1998 saw the first production of diamonds in Canada, the entry of Israel as a major magnesium producer and the probable last appearance of the United Kingdom as a tin producer. South African gold production fell again but other countries increased their output. The start of a new millennium has naturally prompted renewed questioning of the adequacy of the world's mineral resources to meet increasing demand. There is little evidence of any emerging gap. The entire globe, with some minor exceptions, is now governed by the laws of the market place and virtually all countries participate in the orderly international trade in minerals and metals. Many minerals now have more diverse sources, notwithstanding that others, such as chromium, tungsten, tin and the platinum group, remain as concentrated as ever, as the statistics in this volume illustrate.

Trade information for the latest year covered by this volume is necessarily incomplete since the tables are prepared before many countries have produced their annual trade statistics. Trade data for some major trading countries are reconstructed by searching the official publications of their trading partners. Such reconstructed figures are shown as estimates in the tables.

In each successive volume account is taken of revisions and information received after the publication of the previous issue, thus data for every year are as up to date as is practicable. The objective remains to present the latest complete production information obtained from official bodies in individual countries, while trade data are obtained both from national statistical offices and from compilations made by other organisations. The co-operation afforded to the British Geological Survey by numerous national and international organisations is gratefully acknowledged.

The trend towards mergers and takeovers among major mining and metallurgical enterprises has not assisted the collection of country statistics. Some official sources cannot now release statistics to us for reasons of commercial confidentiality. Co-operation with new national producers and our counter-part organizations in other EU countries continues to be fruitful.

The British Geological Survey continues to provide a reliable, comprehensive and continuous set of data covering most of the minerals that enter international trade. We achieve this with the support of the Department of Trade and Industry, whose role in helping to fund the compilation of the World Mineral Statistics Database, as part of the BGS Minerals Programme, is acknowledged.

I would welcome any criticisms and suggestions that might help us to meet your changing needs, particularly with respect to the format in which the data are made available.

David A. Falvey, PhD
Director

British Geological Survey
Keyworth
Nottingham NG12 5GG

24 February 2000

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Maps of world mine production

Bauxite	Manganese ore
Chromium	Nickel
Copper	Tin
Iron ore	Zinc & lead

Graphs of world mine production 1980-98

Asbestos	Mercury
Barytes & fluorspar	Natural gas
Bauxite	Nickel
Chromium	Petroleum
Coal	Phosphate rock
Copper	Salt, gypsum & potash
Diamond	Silver
Gold	Tin
Iron ore	Uranium
Manganese ore	Zinc & lead

EXPLANATORY NOTES

Coverage

World Mineral Statistics covers the majority of economically important, and internationally traded, mineral commodities. For each commodity constant efforts are made to ensure that as many producing and trading countries as possible are reported and that trade data cover all major traded forms. For some commodities, where statistics on production and trade 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 Minerals Group files and is available for consultation. Historical data (1913-1970) can be obtained from the predecessor to this series entitled the *Statistical Summary of the Mineral Industry*.

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

So far as possible the nomenclature follows the London Diplomatic List.

Production

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 or imported materials, whether primary or secondary, but exclude remelted material.

Trade

South Africa Import data for 1994-96 are taken from the trade statistics of the common customs area, which includes Botswana, Lesotho, Namibia, South Africa and Swaziland, and relate to this area as a whole. Where separate data are available for any of these countries they have also been shown even though this may result in some double counting. Import statistics for 1997 and 1998 are for South Africa only.

Export data are taken from returns furnished by producers to the Department of Mineral and Energy Affairs, and may be shipments rather than actual exports.

Estimates for other South Africa exports, based on reconstruction from importing countries, may include material originating in any of the countries of the common customs area and so involve some double counting on tables where these are listed separately.

USA US trade statistics show trade between the US customs territory and foreign countries, but exclude trade between the US and Puerto Rico, and between the US and Guam, American Samoa and other US possessions. Also excluded is trade between any of these outlying areas, shipments from US possessions to foreign countries, and shipments for the use of the US Government in foreign countries.

General Although every effort has been made to provide comprehensive coverage of trade statistics the resulting trade compilations depend on the nature of the data available. The fact that a country is not shown as trading in a particular commodity does not necessarily imply that there is no trade in that item. The commodity may not be separately identified in the available trade statistics or may not be traded in significant quantities.

Where an estimate for a trade statistic has been reconstructed from the imports/exports of other countries, the resulting figure may be conservative, as complete coverage of world trade is seldom available.

Export statistics may include re-exports. The distinction is only made when re-exports are recorded separately in the relevant national trade account and are deemed to be significant.

Tables showing trade in metals covered by Standard International Trade Classification (Revision 3) 689.1, 8 & 9, and 699.8 & 9 (antimony, bismuth, cadmium, chromium, cobalt, manganese, molybdenum, tantalum–niobium, titanium, tungsten, vanadium and zirconium) include under the term ‘metal’, unwrought and wrought forms, powder, alloys, waste and scrap, unless these are separately shown. Trade tables of other metals include only unwrought forms under the term ‘metal’.

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.

Among the numerous overseas government agencies which have provided valuable information, particular acknowledgement is made to the United States Geological Survey and the Mines Departments of other 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 International Fertilizer Industry Association Ltd, the UN Food and Agriculture Organization and the UNCTAD. In a few instances, information on specific commodities has been obtained directly from company sources. The co-operation of the International Consulting Group for Non-Ferrous Metals is also gratefully acknowledged.

Supplementary information is also obtained from publications dealing with a wider range of commodities such as *Annales des Mines*, *Realites Industrielles and Annuaire Statistique*; Metallgesellschaft AG, *Metallstatistik*; Mining Journal, *Mining Annual Review*; Enirisorse, *Metalli Non Ferrosi*; World Bureau of Metal Statistics, *World Metal Statistics*; and publications of the United Nations and its agencies.

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
 1 metric ton unit = 10 kilograms

Conversion of national currencies to pounds sterling has been made using the annual average factors shown for each country in *International Financial Statistics* published by the International Monetary Fund.

Symbols

...	figures not available
0	quantity less than half unit shown
—	nil
*	estimated
BGS	British Geological Survey
S.I.T.C.	Standard International Trade Classification

STATISTICAL TABLES

Production of Bauxite

tonnes

Country	1994	1995	1996	1997	1998
Albania	200	1 548	3 380	4 453	...
Bosnia & Herzegovina	*75 000	*75 000	*75 000	*75 000	...
Croatia	1 302	1 000	-----	-----	-----
France	128 000	131 000	165 000	164 000	80 000
Greece	2 196 371	2 200 215	2 451 734	1 876 983	1 714 023
Hungary	835 700	1 017 600	1 055 777	742 675	1 138 836
Italy	23 400	11 200	-----	-----	-----
Romania	184 100	175 000	175 200	127 450	135 200
Russia	3 633 000	3 706 000	3 928 000	3 991 000	3 488 400
Turkey	373 381	232 278	544 513	369 482	458 028
Yugoslavia, Federal Republic of	-----	60 000	323 000	470 000	226 000
Ghana	426 100	512 900	473 200	500 700	442 500
Guinea	14 833 400	17 733 452	18 492 600	19 250 000	*17 000 000
Mozambique	9 620	10 663	11 459	8 218	6 103
Sierra Leone	734 700	...	32 846	...	-----
Jamaica	11 564 000	10 857 000	11 829 000	11 987 000	12 646 000
USA (a) (b)	195 519	397 000	258 000	233 000	153 201
Brazil (c)	9 803 297	11 616 402	12 587 234	*13 000 000	*14 000 000
Guyana	1 991 132	2 028 080	2 475 459	2 470 895	2 267 368
Suriname	3 771 656	3 530 210	3 702 527	3 877 183	3 931 108
Venezuela	4 772 877	5 020 440	4 834 052	4 966 794	4 825 647
China	6 621 300	8 255 500	8 878 800	6 285 200	*7 000 000
India (d)	4 898 674	5 564 775	6 035 579	6 112 131	6 451 901
Indonesia	1 342 402	899 035	841 976	808 749	1 055 647
Iran	*50 000	60 000	140 000	145 000	260 000
Kazakhstan	2 584 000	3 318 500	3 345 900	3 416 000	3 436 800
Malaysia	161 919	184 433	218 680	279 066	160 271
Pakistan (e)	3 785	5 898	3 590	4 934	3 353
Vietnam	...	...	30 000	30 000	30 000
Australia	42 159 000	42 655 000	43 063 000	44 465 000	44 553 000
World Total	113 700 000	120 300 000	126 000 000	125 700 000	125 500 000

Note(s):

(1) This table includes production of refractory bauxite

(a) Data for Alabama only

(b) Years ended 30 September of that stated

(c) Including beneficiated and direct shipping ore

(d) Years ended 31 March following that stated

(e) Years ended 30 June of that stated

Production of Alumina

tonnes (Al₂O₃ content)

Country	1994	1995	1996	1997	1998
Azerbaijan	70 000	26 100	----	12 900	6 600
France	338 400	425 300	440 000	454 000	*450 000
Germany	823 638	750 044	755 333	737 815	*750 000
Greece	548 000	597 620	601 580	584 000	622 000
Hungary	120 156	145 735	208 061	76 370	*70 000
Irish Republic	1 167 400	1 185 600	1 233 500	1 272 800	1 323 000
Italy	556 900	560 100	575 800	597 000	608 000
Romania	301 576	322 774	258 535	279 537	250 226
Russia	1 969 000	2 253 000	2 142 000	2 371 000	2 465 400
Slovakia	*90 000	65 000	56 000	46 812	26 507
Spain	699 700	699 700	715 600	725 700	801 300
Turkey	155 300	171 978	159 298	164 333	156 825
Ukraine	1 081 000	1 198 000	1 159 460	1 074 500	1 290 720
United Kingdom	110 000	108 000	99 000	100 000	96 000
Yugoslavia, Federal Republic of	----	35 312	105 000	159 450	152 619
Guinea	640 234	616 028	640 000	520 000	500 000
Canada	1 170 000	1 064 000	1 060 000	1 165 000	1 229 000
Jamaica	3 221 222	3 030 167	3 199 513	3 394 177	3 440 167
USA	*4 860 000	*4 533 000	*4 700 000	*5 093 000	*5 592 000
Brazil	1 867 500	2 142 900	2 759 000	3 088 000	3 322 100
Suriname	1 498 123	1 588 827	1 642 942	1 725 857	1 771 889
Venezuela	1 551 450	1 660 789	1 701 675	1 730 368	1 553 445
China	1 846 900	2 222 700	2 493 500	2 936 100	3 340 000
India	1 455 800	1 672 000	1 706 000	1 765 000	1 919 000
Japan	440 900	485 800	469 900	475 800	482 100
Kazakhstan	822 000	1 022 000	1 083 400	1 094 200	1 085 237
Australia	12 819 000	13 161 000	13 348 000	13 384 000	13 853 000
World Total	40 200 000	41 700 000	43 300 000	45 000 000	47 200 000

Note(s):

(1) Where possible figures in this table show the alumina equivalent (Al₂O₃) of total hydrate produced, whether or not calcined

Production of Primary Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Azerbaijan	10 000	*11 000	----	----	----
Bosnia & Herzegovina	...	...	...	4 000	*30 000
France	387 500	364 500	380 100	399 400	423 600
Germany	504 956	575 200	576 492	571 941	612 381
Greece	144 300	144 430	141 295	132 600	146 100
Hungary	29 600	34 900	33 500	32 500	33 700
Iceland	99 294	100 101	102 096	123 356	172 860
Italy	175 600	177 800	184 400	187 700	187 000
Netherlands	230 100	216 000	227 000	231 800	263 700
Norway (a)	856 967	846 794	863 327	918 511	994 200
Poland	49 509	50 800	51 500	51 500	51 500
Romania	119 600	140 500	140 872	161 907	174 038
Russia	2 668 000	2 789 000	2 874 200	2 906 000	3 004 700
Slovakia	33 000	60 600	115 600	110 190	108 000
Slovenia	74 300	70 200	65 800	74 400	70 800
Spain	338 100	361 882	361 828	360 061	360 400
Sweden	108 823	92 797	98 974	98 798	96 098
Switzerland	24 171	20 726	26 594	27 339	32 106
Turkey	59 700	61 513	62 100	62 020	61 800
Ukraine	102 000	95 100	89 875	100 547	106 678
United Kingdom	231 223	237 899	239 963	247 675	258 397
Yugoslavia, Federal Republic of	10 600	26 000	51 100	80 600	78 000
Cameroon	81 100	79 300	82 300	90 900	81 600
Egypt (b)	188 464	*180 000	179 774	178 507	180 701
Ghana	140 700	135 400	137 000	151 600	56 100
Nigeria	----	----	----	2 500	25 500
South Africa	172 111	195 292	569 607	673 043	692 500
Canada	2 254 683	2 171 992	2 283 212	2 327 188	2 374 118
Mexico	----	10 413	61 458	66 356	61 848
USA	3 299 000	3 375 100	3 577 200	3 603 400	3 717 700
Argentina	173 371	183 113	183 942	186 330	186 605
Brazil	1 184 600	1 188 100	1 197 400	1 189 100	1 208 000
Suriname	26 706	26 667	26 036	23 128	27 416
Venezuela	592 718	629 827	634 900	642 000	586 499
Bahrain	451 903	453 883	461 245	489 915	501 308
China	1 498 300	1 869 700	1 896 200	2 178 600	2 435 300
Dubai	246 200	247 400	258 500	377 700	386 648
India (c)	476 521	517 806	497 540	553 255	543 451
Indonesia	221 900	228 100	223 100	217 400	133 350
Iran (d)	120 814	114 879	77 535	*90 000	*110 000
Japan	16 956	18 034	16 959	16 694	16 302
Tajikistan	236 500	237 000	198 300	188 900	195 630
Australia	1 317 000	1 297 000	1 372 000	1 495 000	1 626 000
New Zealand	269 100	273 296	283 329	310 324	318 000
World Total	19 200 000	19 900 000	20 900 000	21 900 000	22 700 000

Note(s):

- (a) May include some super purity aluminium
(b) Years ended 30 June of that stated
(c) Years ended 31 March following that stated
(d) Years ended 20 March following that stated

Exports of Bauxite, Alumina and Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Unwrought	8 402	7 446	5 609	4 800	14 444
Unwrought alloys	59 676	67 230	69 802	62 467	72 884
Scrap	38 895	31 550	42 049	40 028	44 360
Belarus					
Unwrought (a) (f)	*49 600	*50 700	*13 100	*1 500	*3 000
Scrap (f)	*300	*4 900	*6 900	*1 300	*600
Belgium-Luxembourg					
Bauxite	3 352	240	317	1 734	28 452
Alumina	5 314	3 436	3 105	1 817	2 381
Unwrought	5 619	5 059	1 210	2 644	53 783
Unwrought alloys	98 242	109 116	61 105	72 557	57 272
Scrap	120 351	106 312	112 141	147 630	135 234
Bosnia & Herzegovina					
Unwrought (a) (f)	...	...	...	*4 300	*12 800
Bulgaria					
Unwrought (a)	(f) *7 800	10 103	8 842	12 765	(f) *3 000
Croatia					
Bauxite	2 934	4 917	1 916	12 800	5 849
Unwrought (a)	3 896	730	2 880	2 477	1 554
Scrap	300	300	900	2 100	3 554
Czech Republic					
Unwrought (a)	27 597	22 900	24 600	37 126	42 726
Scrap	13 100	13 600	11 900	15 148	21 233
Denmark					
Unwrought alloys	17 117	23 739	20 594	29 623	28 778
Scrap	31 212	36 403	32 107	36 642	30 029
Estonia					
Unwrought (a) (f)	*1 100	*4 400	*2 300	*2 000	*5 900
Scrap	(f) *2 800	7 413	4 125	5 549	(f) *3 100
Finland					
Unwrought (a)	28 092	29 500	29 937	33 577	37 072
Scrap	9 492	10 107	4 227	3 339	4 046
France					
Bauxite	13 392	18 534	11 744	2 504	29 577
Alumina	128 904	170 358	114 149	106 756	117 898
Alumina hydrate	107 738	97 127	99 735	112 946	71 739
Unwrought	94 811	94 366	185 445	91 490	78 955
Unwrought alloys	117 169	109 903	97 180	135 365	99 711
Scrap	142 299	103 694	113 282	160 329	165 766
Georgia					
Scrap (f)	...	...	...	*4 900	*7 600
Germany					
Bauxite	29 164	30 232	26 552	27 655	35 759
Alumina	217 733	188 481	214 801	268 415	233 561
Alumina hydrate	322 482	344 761	325 010	368 389	433 391
Unwrought	47 273	52 307	18 859	34 928	25 612
Unwrought alloys	225 553	247 081	241 472	194 687	211 075
Scrap	382 685	458 092	414 210	545 771	528 396
Greece					
Bauxite	740 851	777 455	819 411	537 011	477 582
Alumina	290 431	344 875	344 821	297 238	313 398
Alumina hydrate	52 955	33 360	24 952	34 070	13 595
Unwrought (a)	52 975	49 311	44 389	46 869	61 307
Scrap	10 024	5 082	5 429	14 532	5 460
Hungary					
Bauxite	*150 000	20 000	10 000	59 280	4 612
Alumina	168 996	246 590	302 069	207 067	254 550
Unwrought (a)	32 369	48 617	19 227	19 163	21 733
Scrap	17 170	16 331	15 121	16 717	18 113
Iceland					
Unwrought (a)	100 567	99 657	101 117	119 794	162 035
Scrap	1 424	2 300	4 800	4 200	4 844

Exports of Bauxite, Alumina and Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Irish Republic					
Bauxite	13 658	54 276	----	27	10
Alumina	1 213 876	1 197 651	1 346 339	1 407 607	1 505 074
Alumina hydrate	24 258	16 100	12 882	29 860	21 238
Unwrought (a)	3 855	5 864	5 101	5 992	5 650
Scrap	11 709	10 715	9 871	9 750	8 821
Italy					
Bauxite	4 304	2 798	17 528	2 623	4 312
Alumina	296 025	468 909	404 148	471 281	487 700
Alumina hydrate	15 631	14 835	6 650	5 868	12 493
Unwrought	1 702	2 595	5 267	5 077	11 751
Unwrought alloys	23 095	34 035	34 095	32 181	23 952
Scrap	11 782	11 402	11 800	18 640	12 469
Latvia					
Unwrought (a) (b) (f)	*15 400	*5 700	*20 100	*13 500	*13 600
Scrap	2 723	7 948	4 636	6 671	7 318
Lithuania					
Unwrought	(b) (f) *6 500	3 234	1 413	898	252
Scrap	1 000	11 000	6 700	12 350	18 308
Macedonia					
Unwrought (a) (f)	*9 100	*5 600	*9 900	*1 600	...
Moldova					
Scrap	2 100	7 700	1 143	2 017	4 577
Netherlands					
Bauxite	33 962	55 669	38 979	30 675	50 656
Alumina	84 237	482 921	116 849	214 325	241 320
Alumina hydrate	25 795	47 616	45 365	20 135	51 157
Unwrought	151 923	300 327	221 196	204 479	209 059
Unwrought alloys	318 465	342 881	262 576	250 015	259 682
Scrap	151 639	170 453	240 552	191 254	166 635
Norway					
Unwrought	290 584	215 748	210 191	192 313	126 168
Unwrought alloys	575 781	594 825	665 488	723 003	862 949
Scrap	17 539	21 011	19 443	20 516	20 362
Poland					
Unwrought (a)	20 303	28 029	25 600	27 800	...
Scrap	2 398	1 370	3 972	8 698	...
Portugal					
Unwrought (a)	700	1 400	2 512	3 480	34 213
Scrap	10 300	8 100	9 771	11 760	12 349
Romania					
Alumina	1 485	13 402	8 826	53 218	11 692
Unwrought	99 568	106 243	105 345	107 483	102 200
Russia					
Bauxite	385 645	648 447	194 957	992 945	999 322
Alumina	11 138	25 650	74 677	274 110	349 195
Alumina hydrate	...	5 712	10 495	8 751	6 347
Unwrought	(a) 2 088 608	(a) 2 251 174	2 440 538	2 455 249	2 519 619
Unwrought alloys	...	...	177 904	253 574	270 783
Scrap (f)	*93 800	*146 600	*177 800	*336 900	*397 400
Slovakia					
Unwrought	22 853	25 287	97 882	110 155	117 123
Scrap	6 000	6 700	3 700	(f) *2 300	5 596
Slovenia					
Alumina	4 142	7 100	6 448	11 362	10 171
Unwrought (a)	47 317	42 100	47 750	55 970	51 054
Spain					
Alumina	278 592	219 463	191 242	194 869	160 074
Alumina hydrate	286 077	234 116	248 779	243 999	240 130
Unwrought	3 744	2 623	9 316	7 812	20 419
Unwrought alloys	142 302	111 852	127 963	122 911	87 324
Scrap	4 746	6 987	5 130	10 971	9 449
Sweden					
Alumina	4 076	4 200	457	454	300
Unwrought	9 053	1 605	993	1 309	800
Unwrought alloys	46 198	55 280	69 671	65 134	46 831
Scrap	36 470	44 211	53 979	44 156	49 202

Exports of Bauxite, Alumina and Aluminium

Country	1994	1995	1996	1997	1998
Switzerland					
Unwrought (a)	7 600	7 462	8 473	8 945	8 388
Scrap	63 786	60 994	69 525	75 180	78 889
Turkey					
Bauxite	30 160	15 350	21 000	110	226
Alumina	38 442	43 503	36 986	41 706	27 187
Unwrought (a)	7 189	12 113	15 357	1 433	24 308
Scrap	7 554	5 849	6 245	10 339	8 593
Ukraine					
Alumina	*800 000	*800 000	*800 000	*800 000	...
Unwrought (a)	80 307	101 065	102 561	134 698	187 739
Scrap	1 500	1 223	3 073	35 272	47 633
United Kingdom					
Bauxite (h)	23 174	39 975	(i) 28 437	(i) 27 653	(i) 20 673
Unwrought	79 578	132 349	35 582	129 429	32 068
Unwrought alloys	142 002	178 840	171 401	241 147	193 163
Scrap	97 813	106 581	102 086	104 231	117 218
Yugoslavia, Federal Republic of					
Bauxite	...	...	32 000	4 655	549
Unwrought	7 600	21 000	34 600	(a) 62 526	(a) 61 394
Unwrought alloys	*3 000	*5 000	4 500	...	...
Algeria					
Scrap	300	3 300	5 039	9 488	...
Cameroon					
Unwrought (a)	63 200	59 032	64 500	65 600	57 400
Egypt					
Unwrought (a)	80 700	81 900	96 880	89 400	86 100
Ghana					
Bauxite	451 802	526 335	383 370	...	...
Unwrought (a)	153 900	111 300	120 900	119 000	...
Guinea					
Bauxite	12 571 000	13 649 599	13 996 000	...	...
Alumina	645 387	616 026	619 258	640 000	...
Morocco					
Scrap	5 100	4 300	3 000	6 314	...
Mozambique					
Bauxite	9 709	10 663	8 380	8 218	6 103
Sierra Leone					
Bauxite	734 700	-----	32 846	...	...
South Africa					
Unwrought (a)	56 928	85 000	533 148	567 344	556 988
Scrap	(f) *3 500	(f) *6 700	(f) *11 900	15 825	22 121
Canada					
Alumina	96 591	91 483	118 264	113 385	111 949
Unwrought	950 212	911 512	921 214	891 017	870 427
Unwrought alloys	927 324	807 208	899 444	995 840	986 011
Scrap	236 525	237 355	242 145	271 338	281 348
Cuba					
Scrap	(e) 844	(e) 1 198	(f) *4 900	(f) *2 300	(f) *2 400
Jamaica					
Bauxite	3 649 419	3 546 893	3 917 478	3 641 131	4 052 087
Alumina	3 349 033	3 061 646	3 270 982	3 446 373	3 496 027
Mexico					
Scrap	68 285	103 423	70 604	94 271	77 159
USA					
Bauxite	144 086	121 140	150 550	92 146	110 181
of which, re-exports	14 854	11 103	11 247	7 552	10 551
Alumina	1 163 805	1 051 455	925 413	1 230 903	1 258 515
Alumina hydrate	68 206	64 452	68 831	83 249	70 871
Unwrought	178 828	185 692	217 371	128 505	98 766
Unwrought alloys	171 830	189 056	208 604	239 759	172 802
Scrap	309 830	431 291	326 197	343 322	452 586

Exports of Bauxite, Alumina and Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Argentina					
Unwrought	50 683	78 837	75 213	58 580	23 437
Unwrought alloys	30 741	21 929	18 639	54 939	64 293
Brazil					
Bauxite	4 416 136	5 045 710	4 569 442	4 373 463	4 315 642
Alumina	299 834	258 596	443 438	616 284	853 541
Unwrought	736 401	681 725	689 326	682 320	631 332
Unwrought alloys	41 439	21 284	19 647	33 854	61 110
Colombia					
Scrap	7 629	7 803	6 366	6 614	8 285
Guyana					
Bauxite	1 996 492	1 971 063	2 100 568	2 200 300	2 346 113
Suriname					
Alumina	1 384 872	1 586 251	1 607 621	1 647 279	1 732 921
Unwrought	25 176	26 335	26 578	27 532	26 843
Venezuela					
Alumina	293 230	409 782	165 822	387 652	...
Unwrought	435 591	390 488	296 975	276 517	...
Unwrought alloys	37 669	34 056	55 249	78 642	...
Scrap	23 140	24 194	23 645	14 427	...
Bahrain					
Unwrought (a)	307 924	363 600	330 646	352 900	...
China					
Bauxite	378 340	449 543	201 126	160 645	84 258
Alumina	38 518	9 984	6 072	12 773	32 613
Alumina hydrate	61 855	43 606	39 958	44 617	40 552
Unwrought	121 884	158 212	72 137	163 151	237 756
Unwrought alloys	9 018	33 098	37 915	85 311	89 142
Scrap	17 601	17 549	6 162	4 294	4 995
Dubai					
Unwrought (a)	254 800	247 000	264 200	378 500	*365 000
Hong Kong					
Alumina (g)	26 463	12 251	6 160	4 010	3 737
Unwrought	83 948	234 053	286 897	219 451	190 570
of which, re-exports	83 121	234 030	286 298	219 309	190 371
Unwrought alloys (g)	22 360	19 286	29 379	33 220	59 076
Scrap	82 148	174 913	131 968	126 052	96 147
of which, re-exports	35 939	109 190	84 020	91 350	75 534
India					
Bauxite (c)	97 210	149 968	103 925	86 876	...
Alumina (c)	479 569	447 988	560 615	427 183	...
Alumina hydrate (c)	30 942	18 855	21 420	18 695	...
Unwrought (c)	60 799	31 053	79 680	69 110	...
Unwrought alloys (c)	6 108	10 244	6 491	5 858	...
Indonesia					
Bauxite	1 029 549	798 812	702 160	715 010	740 199
Unwrought	143 552	183 353	173 776	158 325	133 306
Unwrought alloys	4 900	4 633	6 555	7 869	14 749
Scrap	2 378	303	2 609	3 001	4 662
Iran					
Unwrought (a) (f)	*13 300	*21 200	*6 200	*2 400	*3 000
Israel					
Unwrought (a)	(f) *2 100	(f) *2 200	*5 200	*5 500	...
Scrap (f)	*7 900	*9 200	*10 800	*15 700	*13 200
Japan					
Alumina	68 496	73 320	77 419	97 231	94 028
Alumina hydrate	128 261	161 148	157 624	125 913	151 147
Unwrought (a)	11 694	12 839	12 012	10 259	7 147
Scrap	9 729	13 016	12 273	21 433	26 695
Jordan					
Scrap	4 662	4 813	4 309	4 475	...
Kazakhstan					
Alumina	...	976 233	977 390	1 201 868	530 880
Unwrought (a)	(f) *3 000	(f) *5 700	(f) *5 000	19 221	49 635
Scrap	(f) *300	(f) *28 400	(f) *28 800	31 880	42 706

tonnes

Exports of Bauxite, Alumina and Aluminium

Country	1994	1995	1996	1997	1998
Korea, Dem. P.R. of					
Unwrought (a) (f)	*2 300	*3 000	*2 700	*3 100	*3 400
Korea, Republic of					
Unwrought	50 379	89 372	38 977	81 090	55 454
Unwrought alloys	9 005	2 925	3 961	16 252	14 916
Scrap	1 488	2 942	2 451	8 368	3 348
Kyrgyzstan					
Scrap	(f) *3 600	12 460	3 832	5 800	11 600
Malaysia					
Bauxite	150 125	168 674	166 782	...	...
Scrap	5 053	7 900	3 200	...	...
Philippines					
Scrap	570	1 031	1 739	9 620	...
Saudi Arabia					
Scrap	12 763	...	11 294	39 148	...
Singapore					
Alumina	32 299	2 978	901	17 585	11 981
of which, re-exports	32 158	2 859	887	16 880	11 796
Unwrought	90 139	119 956	139 363	92 024	58 345
of which, re-exports	86 083	117 750	137 160	...	57 175
Scrap	49 259	29 797	33 852	39 758	44 750
Taiwan					
Unwrought	5 603	10 393	(a) 125 983	10 548	3 025
Unwrought alloys	99 281	116 812	...	127 203	145 859
Scrap	14 790	24 165	14 135	13 744	14 311
Tajikistan					
Unwrought	204 509	201 970	193 698	182 936	178 500
Thailand					
Unwrought	1 182	686	646	5 253	...
Australia					
Bauxite	*4 900 000	*5 000 000	*5 000 000	*5 000 000	*5 000 000
Alumina	10 234 459	10 268 693	10 367 230	10 531 994	10 460 475
Alumina hydrate	335 412	458 195	368 791	370 116	343 273
Unwrought	766 557	777 450	864 102	969 816	1 153 723
Unwrought alloys	181 755	179 243	204 056	186 149	160 982
Scrap	57 670	50 653	55 537	57 455	66 654
New Zealand					
Unwrought (a) (d)	239 687	236 687	250 909	273 212	282 890
Scrap (d)	10 945	11 152	9 667	8 252	10 504

Note(s):

- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
- (2) In this table the term 'unwrought' aluminium corresponds to item 684.1 of the Standard International Trade Classification (Revision 3) and comprises ingots, blocks, unwrought bars, etc.
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

- (a) Including alloys
- (b) Including re-exports
- (c) Years ended 31 March following that stated
- (d) Years ended 30 June of that stated
- (e) Imports into the Netherlands
- (f) BGS estimates, based on known imports into certain countries
- (g) Re-exports
- (h) Including alumina
- (i) Excluding refractory grade bauxite

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Bauxite	38 057	10 000	23 000	27 949	26 811
Alumina	34 362	24 867	43 932	47 437	29 867
Alumina hydrate	5 949	5 225	5 069	5 175	5 888
Unwrought	216 976	76 220	95 343	104 678	134 156
Unwrought alloys	82 050	83 337	100 137	138 453	119 015
Scrap	54 275	80 406	81 446	110 492	118 056
Azerbaijan					
Bauxite	*400 000	*362 000	*350 000	*350 000	...
Belgium-Luxembourg					
Bauxite	34 123	39 861	15 151	13 107	43 411
Alumina	10 696	10 833	9 856	9 951	11 825
Alumina hydrate	80 927	34 426	36 950	52 207	51 887
Unwrought	264 296	242 095	233 773	256 907	350 391
Unwrought alloys	104 067	122 113	117 722	131 427	146 289
Scrap	192 251	155 009	118 351	126 851	178 243
Bulgaria					
Unwrought (a)	10 300	14 990	9 218	13 960	...
Croatia					
Bauxite	32 000	38 909	47 163	63 101	57 069
Unwrought (a)	26 895	25 129	23 557	23 784	25 593
Scrap	1 300	535	1 344	851	982
Czech Republic					
Bauxite	1 000	9 000	8 000	10 646	13 632
Alumina	14 214	15 700	13 900	14 289	17 825
Alumina hydrate	11 000	11 800	11 500	11 307	11 832
Unwrought	42 000	47 100	46 300	44 777	57 281
Unwrought alloys	28 400	35 600	30 100	36 302	48 415
Scrap	10 300	19 400	12 900	25 500	34 197
Denmark					
Bauxite	1 811	3 458	3 589	8 783	8 627
Alumina	3 832	6 573	13 572	16 182	12 444
Unwrought (a)	29 547	35 396	33 594	41 018	45 623
Scrap	24 325	20 295	18 515	22 118	22 982
Estonia					
Alumina	*1 400	1 688	4 100	2 200	...
Finland					
Bauxite	7 495	8 269	8 017	9 431	21 079
Alumina	3 537	1 669	3 366	2 353	2 006
Alumina hydrate	39 603	29 507	35 320	38 834	43 101
Unwrought	22 321	11 776	19 660	17 882	17 192
Unwrought alloys	16 435	11 247	13 377	15 647	20 648
Scrap	60 333	43 074	50 794	54 430	46 938
France					
Bauxite	1 216 638	1 516 018	1 696 143	1 457 723	1 578 486
Alumina	558 350	474 112	536 034	438 896	507 418
Alumina hydrate	79 476	49 884	31 908	40 599	111 903
Unwrought	272 287	284 776	276 778	230 911	191 512
Unwrought alloys	172 541	187 076	216 169	266 763	284 396
Scrap	144 503	160 128	134 542	160 004	192 112
Germany					
Bauxite	2 275 916	2 011 489	1 354 738	2 181 018	1 531 027
Alumina	485 303	520 287	620 149	785 291	832 168
Alumina hydrate	134 698	300 092	309 106	293 677	290 460
Unwrought	741 826	705 619	564 377	698 561	637 505
Unwrought alloys	461 246	635 236	544 379	701 649	834 429
Scrap	218 969	249 206	259 670	440 194	479 496
Greece					
Bauxite	71	268	415	3	27 456
Alumina	2 665	428	2 092	995	6 334
Unwrought (a)	56 689	79 668	71 457	119 450	123 280
Scrap	1 903	3 302	2 620	6 476	4 306
Hungary					
Bauxite	4 530	30 589	66 195	1 664	1 897
Unwrought (a)	130 669	134 309	134 248	170 157	156 988
Scrap	...	...	676	11 714	9 760
Iceland					
Alumina	169 580	229 470	203 152	155 801	377 078

Imports of Bauxite, Alumina and Aluminium

Country	1994	1995	1996	1997	1998
Irish Republic					
Bauxite	2 369 136	2 720 864	2 882 167	2 881 584	3 299 255
Alumina	3 358	3 769	3 855	7 753	10 500
Unwrought (a)	10 236	5 362	7 270	11 028	10 316
Scrap	1 500	1 400	2 200	5 100	2 058
Italy					
Bauxite	2 076 101	1 816 302	2 079 363	1 949 915	2 132 204
Alumina	92 295	169 452	190 608	195 571	200 800
Alumina hydrate	82 792	85 267	119 762	124 986	106 053
Unwrought	293 952	276 341	236 144	266 744	270 690
Unwrought alloys	284 800	298 136	248 755	308 337	337 340
Scrap	252 659	244 116	266 187	352 300	360 129
Lithuania					
Alumina hydrate	4 800	4 200	6 800	7 833	8 456
Unwrought	1 000	5 100	1 500	900	844
Scrap	3 000	10 400	5 500	5 677	5 833
Netherlands					
Bauxite	112 425	164 210	81 771	38 981	57 122
Alumina	608 171	746 542	727 089	708 510	832 751
Alumina hydrate	93 899	123 197	87 336	118 140	129 002
Unwrought	395 834	547 874	347 845	444 457	430 688
Unwrought alloys	86 084	130 324	116 454	92 056	92 214
Scrap	254 300	213 318	187 604	225 060	224 627
Norway					
Bauxite	39 545	32 747	22 549	31 402	14 261
Alumina	1 720 504	1 576 786	1 693 565	1 733 334	1 899 852
Alumina hydrate	30 214	35 638	37 136	41 186	38 386
Unwrought	147 605	104 380	122 265	155 421	83 382
Unwrought alloys	49 305	47 923	27 275	40 842	64 552
Scrap	68 505	60 576	63 038	68 723	76 079
Poland					
Bauxite	34 441	37 994	35 800	37 300	...
Alumina	127 800	159 200	138 100	144 500	...
Unwrought (a)	38 258	45 141	49 529	64 200	...
Portugal					
Bauxite	1 526	2 000	1 941	3 094	2 008
Alumina	3 100	*3 900	5 324	8 427	8 687
Unwrought	(a) 67 797	16 700	9 335	4 305	7 160
Unwrought alloys	...	56 600	58 341	75 464	102 015
Romania					
Bauxite	540 716	660 493	546 446	666 583	303 426
Alumina	2 100	13 900	98 300	151 931	140 689
Russia					
Bauxite	3 331 060	2 848 476	1 249 488	1 020 999	...
Alumina	*1 320 000	1 882 500	3 434 909	4 181 960	3 658 027
Alumina hydrate	*21 000	22 500	48 654	7 255	10 504
Unwrought	...	240	23 804	32 362	33 947
Scrap	----	252	3 365	6 279	6 362
Slovakia					
Bauxite	191 000	138 000	132 000	85 000	...
Alumina	7 186	103 624	222 508	215 852	...
Unwrought (a)	11 983	19 658	14 876	23 443	24 839
Slovenia					
Bauxite	28 593	15 000	14 933	45 887	51 137
Alumina	140 833	145 100	159 993	184 114	177 720
Unwrought	27 204	25 200	29 570	41 750	64 059
Scrap	3 500	4 200	4 100	3 900	...
Spain					
Bauxite	2 007 139	2 252 329	2 457 173	2 392 221	2 578 888
Alumina	26 061	29 550	27 234	33 325	37 213
Alumina hydrate	28 022	18 333	12 678	18 318	18 704
Unwrought	106 820	78 681	82 781	125 442	88 719
Unwrought alloys	23 518	47 192	44 813	62 882	88 263
Scrap	34 370	37 628	41 781	45 697	52 081

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Sweden					
Bauxite	44 808	327 613	46 890	32 526	28 222
Alumina	175 425	170 100	178 839	184 706	128 180
Alumina hydrate	57 318	*59 000	*50 000	*50 000	...
Unwrought	102 606	36 624	44 818	54 652	66 469
Unwrought alloys	54 845	53 069	60 705	62 415	71 998
Scrap	8 682	7 823	6 167	6 721	7 525
Switzerland					
Alumina	46 458	41 941	53 661	50 046	65 504
Alumina hydrate	13 200	13 790	15 431	16 757	18 600
Unwrought	105 402	102 184	87 994	108 871	94 919
Unwrought alloys	31 762	28 649	29 412	34 683	46 314
Scrap	6 646	8 359	11 434	13 034	17 098
Turkey					
Bauxite	65 475	28 723	34 837	25 680	24 844
Alumina	3 220	13 631	9 952	13 906	9 425
Unwrought	29 495	59 930	47 017	60 568	69 474
Unwrought alloys	38 007	41 646	53 979	81 767	73 704
Scrap	767	2 822	10 430	34 681	24 398
Ukraine					
Bauxite	(b) 2 180 540	2 678 119	3 097 062	2 045 854	3 075 299
Alumina	...	*50 000	5 000	20 237	1 904
Unwrought (a)	(b) 3 096	2 240	3 018	1 147	889
United Kingdom					
Bauxite	334 988	412 320	(e) 317 885	(e) 322 215	(e) 278 773
Alumina	416 560	435 065	525 758	505 974	381 983
Alumina hydrate	59 387	64 263	80 501	77 572	81 673
Unwrought	374 244	281 063	539 672	310 882	310 642
Unwrought alloys	100 141	106 343	130 334	132 373	184 451
Scrap	61 782	70 788	83 913	107 567	133 384
Yugoslavia, Federal Republic of					
Alumina	*1 500	*3 000	4 700	1 310	566
Unwrought (a)	6 100	6 500	1 300	4 170	3 831
Algeria					
Unwrought (a)	5 985	*6 000	5 573	1 654	...
Cameroon					
Alumina	*170 000	196 411	128 667	*185 000	...
Egypt					
Bauxite	134 854	241 000	400 670	322 724	...
Alumina	*360 000	*360 000	*360 000	*360 000	*360 000
Ghana					
Alumina	*240 000	*240 000	*260 000	*300 000	...
Kenya					
Alumina	2 691	2 781	2 601	3 893	...
Morocco					
Bauxite	9 937	18 164	19 944	44 910	...
Alumina	4 500	5 260	5 612	5 390	...
Unwrought (a)	2 460	3 234	1 599	2 439	...
South Africa					
Bauxite	15 693	10 966	13 403	13 414	11 663
Alumina	314 278	606 335	1 099 359	1 241 568	1 240 430
Alumina hydrate	17 313	13 373	15 458	14 316	12 339
Unwrought (a)	1 024	662	1 695	3 750	6 675
Scrap	1 549	2 259	2 188	1 719	1 969
Tunisia					
Alumina hydrate	32 377	31 122	33 837	35 248	...
Unwrought (a)	1 848	4 378	4 217	2 289	...
Canada					
Bauxite	2 929 411	2 623 621	2 574 206	3 134 947	3 888 711
Alumina	3 347 836	3 172 083	3 586 895	3 226 775	3 198 867
Unwrought	37 184	25 880	23 563	21 084	32 639
Unwrought alloys	104 392	108 017	115 973	154 537	169 029
Scrap	63 361	55 885	67 405	90 599	107 425
Costa Rica					
Unwrought (a)	6 620	7 891	7 566	11 986	...

Imports of Bauxite, Alumina and Aluminium

Country	1994	1995	1996	1997	1998
El Salvador					
Unwrought (a)	2 888	2 824	4 169	4 783	3 956
Mexico					
Bauxite	18 950	41 768	24 621	53 899	42 315
Alumina	17 010	78 851	156 119	162 457	165 091
Alumina hydrate	48 223	57 260	63 696	65 119	62 498
Unwrought	59 310	31 432	39 109	40 109	63 514
Unwrought alloys	58 070	46 027	34 761	88 488	111 981
Scrap	20 907	20 415	25 647	41 305	47 649
Panama					
Unwrought (a)	1 694	1 627	1 690	1 646	1 459
USA					
Bauxite, crude dried	10 400 000	10 000 000	9 930 000	10 200 000	10 800 000
Bauxite, calcined	349 000	482 000	352 000	369 000	393 000
Alumina	3 282 111	4 050 263	4 380 845	4 042 664	4 151 311
Unwrought	1 565 047	1 158 007	1 057 773	1 153 740	1 355 321
Unwrought alloys	931 889	800 039	869 164	928 970	1 094 085
Scrap	389 502	419 211	401 579	453 568	500 938
Argentina					
Bauxite	40 168	42 980	36 162	34 292	34 169
Alumina	330 666	367 947	371 768	371 254	288 504
Alumina hydrate	18 253	6 424	17 556	18 836	23 423
Brazil					
Bauxite	5 132	225	1 140	39 810	11 643
Alumina	683 503	444 301	91 173	6 946	20 442
Unwrought	1 985	9 958	4 983	3 164	3 400
Unwrought alloys	5 306	5 291	3 610	2 544	2 421
Scrap	975	2 431	2 630	1 422	4 125
Chile					
Bauxite	4 147	7 000	5 403	2 174	10 852
Unwrought	14 253	15 651	13 891	15 529	14 597
Colombia					
Bauxite	4 114	5 584	9 987	13 860	14 630
Alumina	8 610	6 471	5 764	8 104	8 694
Unwrought	16 682	18 208	17 144	24 958	20 864
Unwrought alloys	18 620	16 127	18 149	17 822	15 486
Ecuador					
Unwrought (a)	8 106	9 513	6 675	8 388	8 304
Peru					
Bauxite	4 211	3 025	4 468	2 235	...
Alumina	1 690	2 933	2 738	2 623	...
Unwrought (a)	4 793	4 555	3 578	2 756	...
Uruguay					
Bauxite	1 124	4 048	5 438	7 796	9 148
Alumina	1 543	1 540	1 061	1 565	1 533
Unwrought	2 076	2 152	2 209	3 351	3 270
Venezuela					
Bauxite	26 883	233 018	14 168	20 775	...
Alumina	8 990	9 138	8 089	6 633	...
Alumina hydrate	390	404	326	611	...
Unwrought (a)	484	699	283	2 885	...
Abu Dhabi					
Scrap	10 019	5 380	4 947	5 729	5 092
Bahrain					
Alumina	864 417	899 849	844 625	914 610	968 830
China					
Bauxite	106 385	92 265	213 090	137 131	148 533
Alumina	1 909 584	1 193 967	1 155 545	1 096 375	1 577 260
Unwrought	128 837	309 727	294 103	230 229	203 208
Unwrought alloys	40 016	78 198	72 630	58 662	103 780
Scrap	109 336	357 198	299 914	335 898	277 168
Cyprus					
Unwrought alloys	5 013	5 389	5 280	5 299	6 004
Dubai					
Alumina	*490 000	*500 000	*520 000	*750 000	*770 000

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1994	1995	1996	1997	1998
Hong Kong					
Bauxite	160	240	10 282	15 856	320
Alumina	33 382	23 341	9 882	4 112	3 307
Unwrought	122 841	338 619	434 806	443 478	350 211
Unwrought alloys	25 072	23 435	30 804	35 982	51 123
Scrap	73 033	202 480	138 277	103 941	81 810
India					
Bauxite (c)	21 634	71 590	27 178	32 245	...
Alumina (c)	8 453	11 756	10 606	14 256	...
Unwrought (c)	59 997	74 959	101 785	52 857	...
Unwrought alloys (c)	18 906	17 501	32 818	18 819	...
Scrap (c)	20 482	23 332	24 006	18 948	...
Indonesia					
Alumina	362 408	437 127	356 545	391 517	218 030
Alumina hydrate	74 678	69 786	57 401	68 233	96 288
Unwrought	62 546	96 261	75 813	84 402	63 380
Unwrought alloys	38 072	42 120	42 685	65 388	26 759
Scrap	1 505	1 050	1 267	5 300	1 534
Iran					
Alumina	*240 000	*230 000	*150 000	*180 000	*220 000
Unwrought (g)	*10 000	1 097	...	...	...
Israel					
Unwrought (a)	41 268	40 000	...	44 698	48 045
Japan					
Bauxite	1 856 447	1 939 656	2 080 086	1 995 236	1 977 481
Alumina	42 117	31 571	39 380	36 543	32 285
Alumina hydrate	73 718	82 811	74 310	69 871	68 931
Unwrought	1 984 596	2 046 422	2 066 178	2 163 622	1 859 817
Unwrought alloys	654 810	756 359	692 675	863 913	691 995
Scrap	217 252	175 997	149 442	158 893	152 998
Jordan					
Alumina	12 118	12 736	18 646	25 298	...
Unwrought (a)	7 087	6 250	3 958	6 741	...
Korea, Dem. P.R. of					
Alumina (f)	...	*9 400	...	...	...
Korea, Republic of					
Bauxite	63 312	124 384	181 352	180 978	162 983
Alumina	48 576	51 964	70 004	63 390	60 110
Alumina hydrate	177 451	173 975	138 967	99 874	102 003
Unwrought	503 432	610 691	551 730	605 021	497 457
Unwrought alloys	185 893	172 731	168 149	166 314	86 646
Scrap	35 490	52 362	66 575	80 760	54 968
Malaysia					
Alumina	32 394	45 632	35 700	...	...
Unwrought	43 258	140 500	130 000	...	...
Unwrought alloys	62 265	61 700	73 400	...	...
Scrap	25 807	39 282	29 000	...	...
Oman					
Bauxite	10 000	10 000	*10 000	13 926	...
Pakistan					
Alumina (d)	5 113	...	6 194	6 508	6 267
Unwrought (a) (d)	11 091	...	20 105	10 161	4 764
Scrap (d)	77 144	68 851	58 890	53 020	56 786
Philippines					
Bauxite	739	568	4 618	6 077	...
Alumina	6 748	6 960	6 520	10 431	...
Unwrought (a)	30 615	33 591	12 279	33 887	...
Scrap	493	53	161	32 082	...
Saudi Arabia					
Bauxite	111 477	259 510	298 071	267 590	148 263
Alumina	2 382	3 998	...	6 514	6 183
Unwrought (a)	50 405	1 220	5 024	4 378	3 821
Singapore					
Alumina	1 952	1 852	3 157	4 177	2 061
Alumina hydrate	45 879	67 903	38 052	28 789	26 162
Unwrought	120 453	198 713	99 334	102 586	82 097
Scrap	2 961	2 583	2 618	5 445	4 791

Imports of Bauxite, Alumina and Aluminium

Country	1994	1995	1996	1997	1998
Taiwan					
Bauxite	61 832	83 727	70 906	79 577	71 931
Alumina	43 294	34 411	30 548	31 455	33 754
Alumina hydrate	41 159	45 648	54 596	42 949	53 791
Unwrought	291 623	339 043	301 137	355 481	314 429
Unwrought alloys	167 845	148 859	135 166	156 604	135 131
Scrap	168 744	137 859	132 510	212 883	167 070
Tajikistan					
Alumina	*480 000	*460 000	*400 000	*400 000	*400 000
Thailand					
Bauxite	30 029	51 044	35 030	35 055	...
Alumina	8 769	10 682	12 525	13 492	...
Alumina hydrate	31 046	41 169	49 174	43 308	...
Unwrought	91 507	128 759	120 364	111 500	(a) 195 000
Unwrought alloys	93 040	125 399	100 444	126 599	...
Scrap	1 190	1 491	3 492	5 447	...
Australia					
Bauxite	11 846	16 853	6 241	13 935	12 602
Alumina	13 196	11 104	9 859	37 337	11 291
Unwrought (a)	3 598	6 901	13 086	4 161	5 900
Scrap	3 700	5 267	3 838	6 641	6 474
New Zealand					
Alumina (d)	506 587	533 648	...	537 032	648 551
Unwrought (a) (d)	5 064	12 291	*12 000	14 232	8 390
Scrap (d)	2 835	1 995	...	3 658	5 161

Note(s) :-

- (1) Except where alumina hydrate is separately specified, national trade figures for alumina can be considered as inclusive of hydrate
- (2) In this table the term 'unwrought' aluminium corresponds to item 684.1 of the Standard International Trade Classification (Revision 3) and comprises ingots, blocks, unwrought bars, etc.
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

- (a) Including alloys
- (b) Excludes intra-CIS trade
- (c) Years ended 31 March following that stated
- (d) Years ended 30 June of that stated
- (e) Excluding refractory grade bauxite
- (f) BGS estimates, based on known exports from certain countries
- (g) Years ended 20 March following that stated

Mine Production of Antimony

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Russia	3 000	3 000	2 500	*2 500	*2 000
Turkey	55	291	175	19	*20
Morocco	175	198	152	160	----
South Africa	4 534	5 537	5 137	3 415	4 240
Zimbabwe	35	20	----	----	----
Canada	643	684	1 773	630	660
Guatemala	219	674	1 066	752	420
Mexico	1 758	1 783	983	1 909	1 301
USA	215	262	242	356	242
Bolivia	7 050	6 426	6 488	5 999	4 735
Peru (a)	385	230	305	242	364
China	91 000	125 000	128 900	131 100	97 400
Kyrgyzstan	9 588	4 778	6 002	3 062	1 298
Tajikistan	*2 000	*1 500	*1 500	*1 200	*1 200
Thailand	700	300	100	80	260
Australia (b) (c)	1 135	1 178	1 390	1 817	1 711
World Total	122 000	152 000	157 000	153 000	116 000

Note(s):

- (1) This table includes antimony content of antimonial lead alloys
(2) In addition to the countries listed, Afghanistan, Hungary and Iran are believed to produce antimony

- (a) Including Sb content of antimonial lead plus Sb content of ores for export
(b) Excluding Sb content of lead and zinc concentrates
(c) Years ended 30 June of that stated

Exports of Antimony

Country	1994	1995	1996	1997	1998
Austria					
Metal	2	52	43	59	47
Belgium-Luxembourg					
Oxide (a)	*3 400	*3 200	*4 100	*6 700	*6 400
France					
Metal	288	709	387	74	132
Oxide	6 183	4 199	4 893	5 270	5 292
Germany					
Metal	90	58	84	32	38
Oxide	1 024	1 044	791	957	1 061
Italy					
Metal	6	73	10	9	3
Netherlands					
Metal	312	424	303	434	914
Oxide	1 067	1 252	...	962	1 027
Russia					
Ore	...	...	...	1 272	1 484
Metal	(a) *900	(a) *600	239	277	660
Oxide	(a) *200	39	216	1 824	715
Spain					
Metal	131	36	44	85	6
Oxide	962	906	...	370	829
Sweden					
Ores & concentrates	2 902	...	...	...	...
Metal	34	4	10	2	25
Turkey					
Metal	117	146	4	2	540
United Kingdom					
Metal	79	116	146	116	100
Oxide (a)	*5 500	*4 700	*3 800	*5 600	*4 400
South Africa					
Ore (c)	60	----	1	1 585	3 700
Oxide	(a) *3 600	(a) *3 400	(a) *3 700	5 127	4 609
Canada					
Ores & concentrates	1 307	1 547	1 305	195	519
Mexico					
Ores & concentrates	182	224	...	20	...
Metal	1 532	1 934	906	441	331
Oxide	3 306	2 160	3 945	3 350	2 901
USA					
Ores & concentrates	2 546	2 834	2 350	3 798	3 997
Metal	1 543	1 715	583	774	1 015
Oxide	8 385	7 721	4 832	4 033	3 953
Bolivia					
Ore	5 565	3 068	1 859	1 385	1 310
Metal	625	374	147	139	19
Oxide	6 283	5 609	5 504	5 968	4 508
Peru					
Metal	96	222	213	340	*140
China					
Ores & concentrates	420	1 917	2 257	3 859	2 375
Metal	53 862	40 909	34 539	31 034	22 365
Oxide	17 731	20 668	20 040	28 329	28 062
Sulphide	13 229	6 101	6 769	13 850	5 636
Hong Kong					
Metal (b)	14 454	14 103	17 856	16 672	15 290
India					
Metal (d)	102	158	0	12	...
Japan					
Metal	164	144	214	79	343
Oxide	1 561	2 123	2 016	2 157	1 925
Kazakhstan					
Metal (a)	...	...	*200	*100	...

Exports of Antimony

tonnes

Country	1994	1995	1996	1997	1998
Korea, Republic of					
Metal	240	74	20	145	26
Oxide	543	1 073	1 154	1 335	604
Kyrgyzstan					
Metal	(a) *3 000	6 300	4 700	3 600	1 000
Oxide (a)	*200	*400	*400	*1 400	*200
Singapore					
Metal	66	240	217	181	11
Oxide	...	...	...	514	471
of which, re-exports	...	...	...	376	369
Taiwan					
Metal	43	26	57	655	379
Oxide	443	1 144	1 170	1 161	1 240
Thailand					
Metal	3 035	934	1 001	705	...
Oxide	192	220	222	1 082	...
Australia					
Ores & concentrates	1 401	1 958	2 493	2 704	2 863

Note(s):

- (a) BGS estimates, based on known imports into certain countries
- (b) Re-exports
- (c) Sb content
- (d) Years ended 31 March following that stated

Imports of Antimony

Country	1994	1995	1996	1997	1998
Austria					
Metal	185	227	93	192	221
Oxide	237	148	202	176	226
Belgium-Luxembourg					
Ore	1 268	2 631	1 614	1 876	1 703
Metal	4 603	4 663	4 824	6 277	8 321
Oxide	1 189	687	675	772	1 016
Bulgaria					
Metal	(b) *600	60	98	103	...
Czech Republic					
Metal	86	107	49	19	67
Finland					
Oxide	183	215	254	236	177
France					
Ore	8 663	1 619	298	32	128
Metal	11 194	6 446	5 720	8 569	8 316
Oxide	890	821	832	1 008	1 218
Germany					
Metal	1 151	1 154	568	620	746
Oxide	6 182	5 428	5 352	5 064	5 170
Italy					
Ore	142	...	...	417	453
Metal	1 196	1 170	686	626	956
Oxide	3 967	...	...	4 078	4 543
Netherlands					
Metal	360	860	818	724	1 748
Oxide	2 023	2 696	...	2 510	2 675
Norway					
Metal	21	10	1	29	10
Oxide	213	175	152	347	353
Poland					
Metal	285	267	258	86	...
Oxide	(b) *750	...	...	...	...
Portugal					
Metal	121	75	17	8	24
Romania					
Metal	(b) *2 700	(b) *700	(b) *60	71	87
Oxide	...	...	...	117	85
Russia					
Metal	(b) *25 300	(b) *11 000	881	967	834
Oxide	...	...	...	644	204
Spain					
Metal	1 528	1 940	1 179	1 130	1 510
Oxide	618	382	...	902	1 004
Sweden					
Metal	234	36	19	75	81
Oxide	424	...	...	543	409
Switzerland					
Ores & concentrates	14	10 820	3 092	1 416	283
Metal	7	29	35	0	27
Oxide	743	536	414	677	681
Turkey					
Metal	70	128	90	120	55
Ukraine					
Metal	...	...	14	25	24
United Kingdom					
Metal	4 302	3 358	2 171	2 808	950
Oxide	1 734	1 764	1 629	1 883	2 048
Yugoslavia, Federal Republic of					
Metal	...	...	91	100	61
Algeria					
Metal	342	505	100	121	...
South Africa					
Metal	608	292	317	162	204
Tunisia					
Metal	66	60	76	30	...

Imports of Antimony

tonnes

Country	1994	1995	1996	1997	1998
Canada					
Metal	354	424	381	433	391
Oxide	1 752	1 728	1 952	1 965	2 138
Mexico					
Ores & concentrates	2 253	1 991	2 635	2 977	4 198
Metal	1 034	218	493	579	761
Oxide	1 291	2 711	1 014	1 333	1 440
USA					
Ore	7 616	6 136	1 630	1 513	2 644
Metal	18 619	17 015	18 293	14 975	13 298
Oxide	21 364	18 568	22 098	27 906	23 106
Brazil					
Ores & concentrates	452	461	...	202	9
Metal	470	573	736	920	1 136
Oxide	624	530	...	208	204
Sulphide	35	39	...	...	...
Colombia					
Metal	30	80	43	65	92
Venezuela					
Metal	22	19	37	25	...
China					
Ores & concentrates	4 382	7 840	7 691	9 010	3 681
Metal	3 314	3 699	3 020	2 675	2 782
Oxide	154	859	544	502	1 038
Hong Kong					
Metal	13 819	13 813	15 088	11 948	5 613
India					
Metal (a)	1 325	1 020	1 487	1 414	...
Oxide (a)	101	133	115	108	...
Indonesia					
Metal	324	304	422	279	192
Oxide	235	371	337	392	365
Japan					
Ores & concentrates	3 312	4 135	2 593	1 077	698
Metal	6 639	6 799	6 796	8 796	8 513
Oxide	10 258	10 875	10 276	11 162	8 887
Sulphide	378	472	310	283	243
Korea, Republic of					
Metal	8 512	9 181	8 783	10 456	8 920
Oxide	1 015	529	1 053	690	1 149
Malaysia					
Metal	498	370	430	...	...
Pakistan					
Metal (c)	60	...	117	130	99
Philippines					
Metal	13	65	61	45	...
Singapore					
Metal	126	248	412	50	19
Oxide	...	...	...	2 093	1 366
Taiwan					
Metal	2 469	3 094	4 607	4 644	2 962
Oxide	2 491	3 118	3 465	5 516	5 530
Thailand					
Ores & concentrates	896	179	875	274	...
Metal	546	934	1 001	1 314	...
Oxide	348	486	638	650	...
Australia					
Metal	420	188	203	197	139
Oxide	573	444	555	523	622

Note(s) :-

- (a) Years ended 31 March following that stated
(b) BGS estimates, based on known exports from certain countries
(c) Years ended 30 June of that stated

Production of White Arsenic

Country	1994	1995	1996	1997	1998
Belgium	*2 000	*2 000	*2 000	*2 000	*1 500
France	*6 000	*5 000	*3 000	*2 500	*2 000
Georgia	*500	*400	*400	*400	*400
Germany	*300	*250	*250	*250	*250
Russia	*1 500	*1 500	*1 500	*1 500	*1 500
Ghana	3 897	4 409	5 443	4 577	*5 000
Namibia (a)	2 775	1 661	1 302	1 297	233
Canada	*250	*250	*250	*250	*250
Mexico	5 861	4 778	3 883	3 959	3 396
Bolivia	341	362	255	282	284
Chile (b)	3 940	2 977	9 368	11 159	11 690
Peru	4 224	4 616	4 969	*3 500	...
China	*18 000	*21 000	*15 000	*15 000	*15 000
Japan	*40	*40	*40	*40	*40
Kazakhstan	*1 500	1 568	*1 500	*1 500	*1 500

Note(s):

- (1) This table includes calculated trioxide equivalent of arsenic metal produced except where this would involve double counting
(2) In addition to the countries listed, Argentina, Austria, former Czechoslovakia, Finland, Hungary, Iran, Spain, United Kingdom and former Yugoslavia are believed to produce arsenic

- (a) Output of Tsumeb Corp. only, trioxide equivalent of reported black arsenic
(b) Exports

Exports of Arsenic

tonnes

Country	1994	1995	1996	1997	1998
Denmark					
Metallic arsenic	...	...	...	1 156	1 301
France					
Metallic arsenic	1 736	142	19	7	8
Germany					
Metallic arsenic	----	19	19	13	17
Italy					
Metallic arsenic	1	...	...	0	14
Netherlands					
Metallic arsenic	34	41	...	26	41
United Kingdom					
Metallic arsenic	11	12	5	3	22
Namibia					
White arsenic	2 246	2 133	1 550	1 044	314
USA					
Metallic arsenic	107	482	81	81	534
Bolivia					
White arsenic	341	362	255	282	284
Chile					
White arsenic	3 940	2 977	9 368	11 159	11 690
China					
White arsenic (a)	*15 400	*16 000	*11 200	*16 600	*23 900
Metallic arsenic	3 466	2 262	1 368	1 901	2 184
Japan					
Metallic arsenic	8	10	11	13	17
Kazakhstan					
White arsenic	...	1 044	3 279	14	----
Korea, Republic of					
White arsenic	97	34	----	----	----
Australia					
Metallic arsenic	270	69	242	50	127

Note(s):

(1) This table does not purport to be comprehensive: data relating to arsenic are not fully recorded by many countries

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

Imports of Arsenic

Country	1994	1995	1996	1997	1998
Austria					
Metallic arsenic	21	20	18	18	22
Belgium-Luxembourg					
Metallic arsenic	90	...	32	20	40
Denmark					
Metallic arsenic	...	...	...	920	829
France					
Metallic arsenic	94	259	79	76	72
Germany					
Metallic arsenic	8	----	42	19	32
Italy					
Metallic arsenic	82	...	...	76	102
Netherlands					
Metallic arsenic	75	93	...	...	75
Norway					
Metallic arsenic	20	553	36	36	36
Poland					
Metallic arsenic	42	70	35	42	...
Spain					
Metallic arsenic	104	124	...	73	93
Sweden					
Metallic arsenic	14	...	...	13	15
Switzerland					
Metallic arsenic	16	3	6	2	8
Turkey					
White arsenic	21	52	79	403	...
United Kingdom					
Metallic arsenic	120	62	83	122	82
Canada					
Metallic arsenic	43	76	193	138	668
USA					
White arsenic	26 791	29 037	27 969	29 996	38 636
Metallic arsenic	1 349	576	252	909	1 000
Brazil					
White arsenic	559	472	...	...	...
India					
White arsenic (b)	897	917	1 162	1 328	...
Metallic arsenic (b)	403	192	48	109	...
Indonesia					
White arsenic	134	140	98	----	----
Japan					
Metallic arsenic	28	35	0	78	----
Korea, Republic of					
Metallic arsenic	51	99	34	103	48
Taiwan					
White arsenic	278	0	40	0	159
Thailand					
Metallic arsenic	2	34	10	36	...
Australia					
White arsenic	1 190	1 316	1 188	1 234	2 122
Metallic arsenic	89	22	79	124	148
New Zealand					
Metallic arsenic (a)	29	28	...	11	30

Note(s) :-

(1) This table does not purport to be comprehensive: data relating to arsenic are not fully recorded by many countries

(a) Years ended 30 June of that stated

(b) Years ended 31 March following that stated

Production of Asbestos

tonnes

Country	1994	1995	1996	1997	1998
Bosnia & Herzegovina	*300	----	----	----	----
Bulgaria	500	100	400	300	300
Greece	55 502	75 003	80 213	63 294	35 068
Russia	620 000	685 000	629 863	723 973	592 425
Slovakia	...	...	36 000	30 000	19 000
Yugoslavia, Federal Republic of	498	497	509	765	1 452
Egypt (a)	514	392	552	776	147
South Africa					
Crocidolite	6 273	7 396	5 100	232	----
Chrysotile	85 900	81 246	56 700	49 754	27 195
Swaziland					
Chrysotile	26 720	28 574	26 014	25 888	27 693
Zimbabwe					
Chrysotile	151 905	169 487	165 600	160 560	123 295
Canada					
Chrysotile	523 545	524 392	475 130	454 991	309 000
USA (b)	10 100	9 290	9 550	6 890	5 760
Argentina	260	300	446	264	270
Brazil	183 079	210 352	213 213	208 447	198 332
Colombia (c)	128 800	122 717	137 277	136 700	...
China	407 100	447 000	440 500	437 000	*450 000
India					
Amphibole (d)	28 326	23 844	27 180	25 537	19 926
Iran	*4 500	*4 500	*4 500	*4 500	*4 500
Japan					
Chrysotile	2 306	2 399	2 269	2 254	...
Kazakhstan	139 806	160 829	134 484	181 818	...
World Total	2 400 000	2 600 000	2 400 000	2 500 000	2 100 000

Note(s):

(1) In addition to the countries listed, Democratic P.R. of Korea, Pakistan and Romania are believed to produce asbestos

(a) Years ended 30 June of that stated

(b) Sold or used by producers

(c) Crude

(d) Years ended 31 March following that stated

Exports of Unmanufactured Asbestos

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg	136	94	11	263	685
Czech Republic	400	100	27 100	----	51
France	83	224	14 053	164	----
Greece	58 156	67 991	74 043	51 720	35 185
Italy	8	22	51	42	7
Lithuania	(a) *3 600	5 173	4 656	7 113	2 982
Poland	529	948	200	300	...
Russia	80 268	76 820	33 411	98 832	241 681
Slovakia	200	100	201	328	...
Spain	...	142	625	19	15
United Kingdom	36	14	967	16	45
South Africa	95 500	92 100	60 829	38 209	24 875
Swaziland	*19 000	*19 000	*20 000	20 000	...
Zimbabwe	129 289	174 558	152 091	143 169	113 210
Canada	530 394	509 575	504 069	430 288	319 430
USA	19 558	16 556	24 231	23 061	18 896
Brazil	75 631	71 747	78 294	63 165	51 239
China	3 402	3 465	9 392	13 553	18 591
India (b)	1 215	14	275	282	...
Japan	108	74	133	160	32
Kazakhstan	36 000	115 400	139 100	60 429	123 906
Kyrgyzstan (a)	*1 700	*2 900	...	...	...
Saudi Arabia	4 515	8 400	11 530	6 440	...

Note(s):

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

(b) Years ended 31 March following that stated

Imports of Unmanufactured Asbestos

tonnes

Country	1994	1995	1996	1997	1998
Albania	*1 500	*1 000	*1 000	*1 000	...
Austria	0	0	25	----	----
Belgium-Luxembourg	13 359	10 462	5 715	2 366	2
Croatia	...	3 045	2 363	3 033	2 746
Czech Republic	4 659	4 500	1 400	1 315	1 684
Denmark	450	345	225	125	----
Estonia	*1 000	1 200	800	800	...
France	34 869	48 205	20 576	55	979
Germany	163	98	119	143	191
Greece	215	272	252	239	244
Hungary	5 995	3 356	5 249	5 759	7 452
Irish Republic	...	6 355	4 638	2 468	891
Italy	61	126	127	----	192
Latvia	620	2 228	1 212	1 828	1 385
Lithuania	10 700	5 600	6 343	10 819	5 877
Moldova	100	2 800	1 537	3 189	357
Poland	33 473	31 315	15 700	23 000	...
Portugal	7 009	9 163	6 442	7 324	6 302
Romania	18 799	27 425	39 130	6 807	18 705
Russia	17 800	41 400	31 366	17 128	30 157
Slovakia	2 600	*2 600	3 322	1 215	...
Slovenia	7 700	4 900	5 000	1 800	1 716
Spain	32 593	26 852	27 030	21 192	21 349
Sweden	315	298	158	----	----
Turkey	19 143	25 471	26 863	33 725	22 674
United Kingdom	11 467	10 157	7 099	4 820	1 840
Yugoslavia, Federal Republic	(d) *2 800	...	...	1 365	1 427
Algeria	15 600	*10 000	7 102	9 997	...
Egypt	6 995	7 600	29 849	10 100	...
Morocco	4 751	5 023	5 643	4 376	...
Nigeria	*15 000	*15 000	15 841	*15 000	...
Senegal	*300	*300	*300	*300	...
South Africa	9 734	7 891	9 133	9 571	7 013
Tunisia	6 490	7 297	6 081	3 573	...
Zambia	*3 000	*3 000	*3 000	*3 000	...
Zimbabwe	*2 500	*1 500	*1 500	*1 000	...
Canada	960	297	353	128	138
Cuba (d)	...	*3 000	*7 100	*6 600	*4 400
El Salvador	1 297	398	398	999	1 266
Mexico	35 254	19 154	29 097	28 886	29 102
Panama	1 268	844	650	...	...
USA	25 800	21 941	30 449	20 922	15 823
Argentina	7 879	5 788	5 791	6 549	4 847
Bolivia	1 008	1 575	1 567	1 817	1 664
Brazil	32 805	43 524	31 765	38 941	39 597
Chile	10 151	11 666	9 349	9 198	5 125
Colombia	17 749	19 925	20 548	16 650	14 554
Ecuador	744	805	1 278	1 348	2 253
Peru	3 537	4 947	4 098	4 078	...
Uruguay	1 075	903	895	1 511	1 432
Venezuela	1 881	5 012	1 561	2 214	...
China	48 255	68 300	77 959	103 265	71 694
India (c)	85 536	91 909	84 378	83 356	...
Indonesia	43 610	50 231	48 331	41 845	21 079
Iran (a)	28 889	54 933	...	75 587	...
Israel	1 780	*2 200	*1 500	----	----
Japan	199 836	191 475	177 869	176 021	120 813
Korea, Republic of	83 276	88 722	77 145	44 985	29 619
Kyrgyzstan	...	11 446	12 542	22 200	18 800
Malaysia	22 029	28 200	19 600	*20 000	...
Oman	1 000	200	200	1 331	...
Pakistan (b)	8 216	...	9 216	989	4 583
Philippines	2 807	2 904	1 770	2 206	...
Saudi Arabia	1 687	306	*500	----	----

Imports of Unmanufactured Asbestos

Country	1994	1995	1996	1997	1998
Singapore	577	475	429	243	18
Sri Lanka	35 570	35	4 818	18	...
Syria	1 912	1 222	2 672	3 068	...
Taiwan	5 517	5 582	6 164	5 773	5 682
Thailand	163 927	181 692	190 205	177 124	...
United Arab Emirates	*6 000	*6 000	*6 000	*6 000	...
Australia	1 843	1 488	1 366	1 556	1 471

Note(s) :-

- (a) Years ended 20 March following that stated
- (b) Years ended 30 June of that stated
- (c) Years ended 31 March following that stated
- (d) BGS estimates, based on known exports from certain countries

Production of Barytes

tonnes

Country	1994	1995	1996	1997	1998
Belgium	*30 000	*30 000	*30 000	*30 000	*40 000
Bosnia & Herzegovina	*1 000	*1 000	*500	*2 000	*2 000
Bulgaria	*120 000	*150 000	*120 000	*120 000	*100 000
France	72 100	75 400	81 200	77 000	*75 000
Georgia	2 684	11 589	1 473	2 782	...
Germany	145 223	122 268	121 476	118 698	*120 000
Greece	701	668	671	842	*800
Italy	57 856	44 393	42 795	26 694	36 000
Poland	9 100	6 100	6 200	3 700	----
Romania	104 700	18 169	12 541	*12 000	*15 000
Russia	65 000	60 000	55 000	30 000	...
Slovakia	45 700	41 600	44 930	62 102	14 880
Spain	28 037	30 103	81 621	102 411	...
Turkey	57 429	100 751	104 872	226 594	160 042
United Kingdom	*54 000	*85 000	93 000	*74 000	64 000
Algeria	22 286	29 838	31 348	39 140	37 006
Egypt (a)	419	2	48	320	600
Morocco	229 587	289 451	282 537	343 314	353 438
Nigeria	...	75 000	131 620	...	...
South Africa	1 945	6 048	7 428	2 071	610
Tunisia	15 400	8 100	15 360	12 847	8 011
Zimbabwe	----	----	1 150	1 217	1 844
Canada	61 000	67 000	58 000	77 000	86 000
Guatemala	3 590	570	2 776	3 000	*3 000
Mexico	86 605	248 367	470 028	236 606	161 555
USA (b)	583 000	543 000	662 000	692 000	476 000
Argentina	27 828	28 907	14 038	9 532	9 500
Bolivia	3 307	10 845	4 745	4 402	2 500
Brazil (c)	44 624	48 550	56 149	51 961	46 632
Chile	3 670	3 080	2 559	2 654	1 430
Colombia	*7 000	1 500	6 800	900	*900
Peru	53 074	37 476	37 103	63 600	7 506
Afghanistan (d)	*2 000	*2 000	*2 000	*2 000	*2 000
China	*1 300 000	*1 300 000	1 950 000	4 462 400	2 941 200
India (e)	530 714	442 733	381 832	453 073	659 318
Iran (d)	139 202	161 401	158 844	181 174	*180 000
Kazakhstan	90 000	85 000	95 000	*25 000	9 000
Korea, Dem. P.R. of	*110 000	*120 000	*110 000	*120 000	*100 000
Laos	1 490	2 740	5 200	3 000	9 050
Malaysia	17 144	16 966	17 458	2 608	*2 600
Myanmar (e)	28 866	30 641	22 073	20 467	*19 000
Pakistan (a)	18 334	8 254	9 645	23 390	20 657
Saudi Arabia	5 000	6 000	8 000	*8 000	*8 000
Thailand	53 248	58 807	48 074	54 817	110 000
Australia	*11 000	*13 000	*12 000	*17 000	*15 000
World Total	4 300 000	4 500 000	5 400 000	7 900 000	6 200 000

Note(s):

- (1) This table may include small quantities of witherite
(2) In addition to the countries listed, Cuba is believed to produce barytes

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

Exports of Barytes

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg	36 073	45 101	34 701	15 802	17 222
Bulgaria	(b) *8 700	68 366	82 855	116 505	...
France	74 000	63 000	...	...	...
Georgia	12 000	9 000	9 000	*9 000	...
Germany	17 936	15 256	17 470	18 552	14 779
Irish Republic	28 468	-----	-----	-----	-----
Italy	1 943	1 422	1 082	427	1 876
Netherlands	78 532	74 571	59 982	34 350	54 463
Norway	308	1 811	6 945	16 207	11 514
Russia	...	4 900	3 596	1 693	189
Slovakia	38 400	35 300	38 400	15 580	16 010
Spain	14 030	29 392	64 381	80 981	70 264
Turkey	63 508	103 176	121 124	125 412	123 974
United Kingdom	10 025	9 237	5 483	9 475	6 410
Morocco	307 649	350 682	297 932	320 454	...
Tunisia	11 840	5 787	5 483	291	...
Canada	13 063	12 267	15 391	21 075	25 426
Mexico	89 803	129 536	125 008	65 325	18 145
USA	20 731	15 919	31 547	23 245	16 910
Bolivia	3 307	10 845	4 745	4 402	2 500
Peru	38 934	34 987	23 341	64 697	...
Venezuela	9 678	1 182	1 988	...	...
China	1 166 311	1 197 597	1 860 388	2 927 095	1 774 337
Hong Kong (c)	3 585	4 288	1 942	120	115
India (a)	244 642	751 486	140 023	24 372	...
Indonesia	1 580	1 847	2 384	4 031	3 161
Kazakhstan	...	115 177	98 089	30 135	6 749
Laos	1 710	3 330	2 740	3 000	9 455
Oman	800	300	500	4 200	...
Singapore	11 076	16 054	10 936	8 072	7 405
of which, re-exports	5 851	10 815	6 413	4 664	4 028
Thailand	38 610	47 085	43 000	31 250	...
Australia	4 057	3 154	2 259	2 737	2 055

Note(s):

(1) Trade in barytes is reported under item 278.92 of the Standard International Trade Classification (Revision 3) and is described as 'barytes and witherite'. However, only small quantities of witherite are traded

(a) Years ended 31 March following that stated

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

(c) Re-exports

Imports of Barytes

tonnes

Country	1994	1995	1996	1997	1998
Albania	...	...	3 810	1 701	22
Austria	3 255	1 451	2 992	2 924	2 488
Belgium-Luxembourg	10 821	14 075	13 533	12 384	11 741
Croatia	400	72	243	560	105
Czech Republic	30 596	39 964	14 692	10 828	8 004
Denmark	1 145	1 553	5 023	15 988	24 606
Finland	1 469	1 748	1 745	2 134	2 223
France	26 571	25 989	17 667	24 860	25 271
Germany	185 613	223 031	203 474	230 696	255 201
Greece	545	1 295	4 373	1 951	1 278
Hungary	2 517	*3 000	*3 000	2 725	2 799
Irish Republic	702	548	574	676	114
Italy	31 821	52 925	67 046	74 827	70 887
Netherlands	74 488	109 287	136 882	136 604	114 635
Norway	102 829	108 669	142 150	158 036	145 616
Poland	3 300	3 200	5 416	4 800	...
Portugal	900	1 100	5 060	1 176	3 656
Romania	21 720	21 750	18 419	18 984	88 130
Russia	*95 000	*60 000	19 372	24 422	27 025
Slovakia	...	...	264	575	456
Spain	21 126	19 054	10 429	23 686	25 696
Sweden	4 935	3 125	2 668	4 155	4 212
Switzerland	2 727	2 263	1 961	3 663	4 520
Turkey	195	299	457	912	2 069
United Kingdom	132 099	110 700	85 018	139 065	98 220
Algeria	5 000	18 100	*10 000	37 769	...
Cameroon	*2 000	3 200	4 400	3 000	...
Congo	2 700	*3 000	*3 000	3 000	...
Gabon	1 400	1 700	1 300	1 300	...
Ghana	*3 000	*3 000	*3 000	3 000	...
South Africa	643	2 198	1 886	1 980	1 420
Tunisia	1 900	1 100	3 800	949	...
Canada	14 780	16 667	15 631	21 860	13 642
Mexico	30 672	7 593	10 615	68 360	30 385
Trinidad & Tobago	6 527	20 655	30 051	33 914	...
USA	1 074 319	1 043 138	1 538 056	2 244 245	1 874 616
Argentina	3 239	10 321	4 269	8 762	2 982
Colombia	20 901	55 283	46 159	47 109	20 391
Ecuador	4 674	1 168	5 311	3 357	572
Venezuela	148 308	163 138	117 277	149 874	...
Abu Dhabi	25 300	31 907	10 494	3 069	154
Hong Kong	2 801	1 186	259	222	365
Indonesia	57 083	40 430	70 705	85 550	71 988
Japan	85 124	130 135	139 559	114 384	90 894
Korea, Republic of	54 013	61 045	85 211	63 695	46 240
Malaysia	3 607	11 232	50 500	*55 000	...
Oman	8 400	8 900	100	941	...
Philippines	4 218	1 407	1 700	908	...
Saudi Arabia	670	30 734	972	59 888	2 924
Singapore	14 190	23 932	11 833	7 845	4 951
Syria	6 786	2 078	4 100	13 712	...
Taiwan	8 170	9 847	6 965	5 538	5 011
Thailand	7 291	6 180	*6 000	11 123	...
Australia	27 877	15 297	21 210	7 289	19 190
New Zealand (a)	845	896	...	750	1 103

Note(s) :-

(1) Trade in barytes is reported under item 278.92 of the Standard International Trade Classification (Revision 3) and is described as 'barytes and witherite'. However, only small quantities of witherite are traded

(a) Years ended 30 June of that stated

Production of Bentonite and Fuller's Earth

Country	1994	1995	1996	1997	1998
Armenia					
Bentonite	*100	110	2 750	50	...
Azerbaijan					
Bentonite	80 000	60 000	65 000	70 000	...
Bosnia & Herzegovina					
Bentonite	*800	*800	*800	*800	*800
Bulgaria					
Bentonite	76 300	125 800	202 000	*171 000	*175 000
Croatia					
Bentonite	10 391	7 327	9 728	7 331	7 581
Czech Republic					
Bentonite	65 000	54 000	59 000	110 000	125 000
Denmark					
Bentonite	5 596	6 695	8 050	*3 000	*9 000
Georgia					
Bentonite	30 000	15 000	13 000	12 000	*11 000
Germany					
Bentonite	498 849	529 446	491 346	511 190	478 000
Fuller's earth	498 000	*500 000	*500 000	*500 000	*500 000
Greece					
Bentonite	697 773	1 115 119	973 517	942 555	1 148 408
Hungary					
Bentonite	14 700	15 000	15 376	14 848	20 122
Italy					
Bentonite	374 491	590 845	471 535	511 760	592 000
Fuller's earth	23 500	33 600	26 455	22 025	...
Macedonia					
Bentonite	*30 000	*30 000	*30 000	*30 000	*30 000
Poland					
Bentonite	1 100	1 500	1 800	----	24 000
Fuller's earth	5 200	4 800	6 200	6 100	...
Romania					
Bentonite	41 056	42 277	43 543	27 133	*30 000
Russia					
Bentonite	705 000	635 000	660 000	*655 000	*650 000
Slovakia					
Bentonite	60 310	74 960	74 013	79 760	81 010
Spain					
Bentonite	148 633	172 265	151 045	196 661	*200 000
Attapulгите	91 124	94 266	130 140	133 035	*130 000
Sepiolite	495 061	531 192	565 636	554 268	...
Turkey					
Bentonite	516 187	605 499	482 057	521 158	565 708
Sepiolite	...	...	4 051	11 277	...
Ukraine					
Bentonite	35 000	30 000	35 000	*25 000	...
United Kingdom					
Fuller's earth (a)	133 500	132 300	142 600	134 800	*94 000
Algeria					
Bentonite	20 215	17 088	16 723	17 657	15 655
Fuller's earth	4 550	4 061	2 803	3 960	3 942
Egypt					
Bentonite (b)	2 379	4 625	2 210	1 267	1 545
Morocco					
Bentonite	24 919	29 308	39 680	49 633	47 881
Fuller's earth (c)	22 782	15 027	17 223	24 465	27 650
Mozambique					
Bentonite	3 349	6 566	11 867	13 782	11 133
Senegal					
Attapulгите	95 000	81 100	79 200	82 607	109 881
South Africa					
Bentonite	71 773	70 927	48 076	33 326	48 382
Attapulгите	10 090	8 049	14 318	9 421	7 671

Production of Bentonite and Fuller's Earth

tonnes

Country	1994	1995	1996	1997	1998
Canada					
Bentonite (d)	13 900	12 400	15 300	18 900	...
Guatemala					
Bentonite	4 410	5 839	3 755	4 000	2 278
Mexico					
Bentonite	92 476	72 599	69 810	111 503	185 729
Fuller's earth	21 377	15 755	41 800	51 430	48 016
Nicaragua					
Bentonite	694	621	1 361	1 724	1 406
USA					
Bentonite (e)	3 290 000	3 820 000	3 740 000	4 020 000	3 820 000
Fuller's earth (e)	2 640 000	2 640 000	2 600 000	2 370 000	2 350 000
Argentina					
Bentonite	113 407	111 011	134 588	104 880	105 000
Fuller's earth	*1 600	*1 600	*1 500	*1 500	*1 500
Brazil					
Bentonite	168 484	166 675	168 633	106 592	264 303
Colombia					
Bentonite	1 018	9 000	...	8 640	...
Peru					
Bentonite	27 682	26 961	18 592	22 285	18 600
Cyprus					
Bentonite	50 000	51 200	70 927	101 000	140 000
India					
Bentonite (f)	325 000	430 000	439 000	446 000	446 000
Fuller's earth (f)	101 000	109 000	29 000	27 000	27 000
Indonesia					
Bentonite	14 409	26 057	*26 000	*25 000	*25 000
Iran					
Bentonite (g)	71 759	54 798	84 404	*105 300	*105 000
Japan					
Bentonite	484 115	478 056	468 728	495 646	443 566
Fuller's earth	...	86 864	89 885	...	...
Korea, Republic of					
Bentonite	121 262	66 157	93 864	142 027	59 765
Fuller's earth	23 852	27 563	21 820	24 829	28 805
Myanmar					
Bentonite (f)	1 081	4 769	4 908	610	*1 000
Pakistan					
Bentonite (b)	12 459	7 802	8 769	10 169	10 939
Fuller's earth (b)	16 702	14 844	11 864	12 307	14 741
Philippines					
Bentonite	3 615	7 836	3 486	...	...
Thailand					
Bentonite	5 125	8 285	11 260	3 200	...
Turkmenistan					
Bentonite	20 000	10 000	5 000	5 000	*5 000
Uzbekistan					
Bentonite	15 000	15 000	15 000	15 000	*15 000
Australia					
Bentonite (b)	*70 000	*70 000	*70 000	73 148	104 458
Fuller's earth	19 412	18 159	17 173	28 262	15 670
New Zealand					
Bentonite	930	3 699	13 734	12 802	*14 000
World Total Bentonite	8 420 000	9 700 000	9 380 000	9 840 000	10 170 000
World Total Fuller's Earth (h)	4 290 000	4 320 000	4 300 000	4 090 000	4 040 000

Production of Bentonite and Fuller's Earth

Note(s):

- (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, Austria, China and Tanzania are believed to produce bentonite. France, Iran and Japan may produce fuller's earth
-
- (a) Saleable production based on data from producing companies
 - (b) Years ended 30 June of that stated
 - (c) Smectite
 - (d) Data for Saskatchewan only
 - (e) Sold or used by producers
 - (f) Years ended 31 March following that stated
 - (g) Years ended 20 March following that stated
 - (h) Including attapulgite and sepiolite

Exports of Bentonite and Fuller's Earth

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Bentonite	2 236	...	...	6 757	7 281
Azerbaijan					
Bentonite	55 000	62 000	65 300	68 100	...
Belgium-Luxembourg					
Bentonite	975	418	1 392	1 447	2 207
Bulgaria					
Bentonite (c)	*55 000	*70 000	*74 300	*102 600	*104 000
Croatia					
Bentonite	...	1 018	1 294	436	342
Czech Republic					
Bentonite	19 317	18 048	21 633	20 608	23 306
Denmark					
Bentonite	575	243	2 770	2 199	3 650
Finland					
Bentonite	194	233	192	11 301	24 867
France					
Bentonite	21 405	24 412	22 569	25 523	27 795
Fuller's earth	1 893	2 164	2 689	2 975	2 431
Germany					
Bentonite	61 070	42 259	26 021	72 839	54 018
Greece					
Bentonite	66 809	130 824	65 071	12 002	126 698
Hungary					
Bentonite	1 653	696	620	501	873
Italy					
Bentonite	96 936	182 918	172 627	182 225	200 241
Netherlands					
Bentonite	65 538	79 790	71 432	85 313	126 243
Fuller's earth	5 568	15 891	...	6 205	17 696
Russia					
Bentonite	5 000	4 000	2 636	3 491	3 659
Slovakia					
Bentonite	(c) *49 000	(c) *39 300	58 042	66 771	45 766
Spain					
Bentonite	4 650	12 046	12 446	13 398	62 307
Sepiolite	561 177	582 387	640 128	614 698	585 893
Fuller's earth	10 412	10 347	...	7 490	20 736
Sweden					
Bentonite	175	5 326	5 522	4 459	4 706
Turkey					
Bentonite	53 692	50 935	68 124	61 999	90 182
Ukraine					
Bentonite (c)	...	...	*12 300	*16 400	*9 200
United Kingdom					
Bentonite	63 799	73 210	84 357	96 781	108 830
Fuller's earth	26 435	20 821	32 730	61 077	734
Algeria	...	...	...	7 469	1 235
Egypt	...	...	2 017	2 092	...
Morocco					
Bentonite	18 478	28 174	27 775	40 238	...
Fuller's earth	8 542	12 450	1 192	892	...
Mozambique					
Bentonite	1 860	4 962	6 600	6 660	6 190
Senegal					
Fuller's earth (b)	107 534	46 322	...	...	...
Canada					
Bentonite	929	1 605	3 241	1 397	2 306
Guatemala					
Bentonite	2 542	3 110	2 153	2 543	2 076
Mexico					
Bentonite	3 408	6 518	13 074	15 713	38 665
USA					
Bentonite	774 861	735 077	796 289	860 077	812 364
Fuller's earth	86 572	62 618	111 820	146 667	119 205

Exports of Bentonite and Fuller's Earth

Country	1994	1995	1996	1997	1998
Argentina					
Bentonite	22 037	24 008	29 671	35 102	32 916
Colombia					
Bentonite	1 019	841	642	1 170	970
China					
Bentonite	55 360	67 997	73 169	65 248	55 072
Fuller's earth	17 897	1 289	1 182	5 967	3 910
Cyprus					
Bentonite	22 573	14 127	31 397	51 912	54 475
India					
Bentonite (d)	147 005	147 856	174 117	183 213	...
Indonesia					
Bentonite	7 005	10 947	5 208	6 196	3 813
Fuller's earth	1 514	3 295	4 510	3 079	3 262
Iran					
Fuller's earth (a)	8 142	7 042	...	...	...
Japan					
Bentonite	1 075	1 986	2 038	2 245	1 518
Korea, Republic of					
Bentonite	10 203	12 696	11 221	6 102	3 240
Singapore					
Bentonite	16 943	18 148	15 703	14 900	11 150
of which, re-exports	9 210	10 803	8 635	10 262	7 452
Australia					
Bentonite	14 581	15 477	21 616	17 869	13 126
Fuller's earth	117	16	1 685	2 303	2 570

Note(s):

- (1) See notes 1-3 to production table
 - (2) The figures in this table refer to natural and sodium-exchanged bentonite, and fuller's earth, Standard International Trade Classification (Revision 3) 278.27
 - (3) Activated bentonite and fuller's earth, Standard International Trade Classification (Revision 3) 598.65 are excluded
 - (4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Standard International Trade Classification (Revision 3) 598.65, e.g. Italy
- (a) Years ended 20 March following that stated
(b) Attapulgite
(c) BGS estimates, based on known imports into certain countries
(d) Years ended 31 March following that stated

Imports of Bentonite and Fuller's Earth

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Bentonite	34 165	...	...	45 596	50 393
Belgium-Luxembourg					
Bentonite	11 551	12 687	15 055	16 800	17 118
Fuller's earth	689	1 122	1 398	2 991	2 041
Croatia					
Bentonite	...	1 116	295	5 171	17 074
Czech Republic					
Bentonite	3 329	3 065	5 394	7 162	9 271
Denmark					
Bentonite	24 968	19 077	23 589	19 689	24 482
Fuller's earth	1 024	551	502	589	904
Finland					
Bentonite	12 583	18 688	22 722	48 473	56 864
Fuller's earth	3 926	620	689	366	1 791
France					
Bentonite	112 530	110 679	87 451	135 717	160 789
Fuller's earth	5 332	6 184	2 668	3 345	2 174
Germany					
Bentonite	204 678	246 047	164 551	207 106	243 554
Fuller's earth	32 750	30 365	21 878	9 538	9 207
Greece					
Bentonite	337	1 200	301	3 298	9 659
Hungary	...	...	4 396	6 348	3 363
Irish Republic					
Bentonite	1 826	1 510	931	2 195	2 125
Italy					
Bentonite	66 920	64 483	57 941	67 677	79 538
Fuller's earth	8 993	...	...	11 396	12 575
Lithuania					
Bentonite	...	1 018	894	1 302	1 752
Netherlands					
Bentonite	137 777	172 660	185 906	177 283	244 576
Fuller's earth	5 788	18 806	...	31 364	20 800
Norway					
Bentonite	18 484	28 440	24 533	17 242	17 518
Poland					
Bentonite	60 287	55 464	71 300	76 900	...
Fuller's earth	300	1 000	900	1 000	...
Portugal					
Bentonite	...	...	12 844	13 941	18 847
Russia					
Bentonite	138 000	124 800	146 584	186 178	131 473
Slovakia					
Bentonite	...	...	7 205	3 749	8 118
Spain					
Bentonite	61 262	46 796	38 940	54 551	51 248
Sweden					
Bentonite	18 269	122 765	110 649	90 429	146 144
Fuller's earth	3 281	...	...	221	47
Switzerland					
Bentonite	19 416	20 971	20 541	21 245	22 075
Fuller's earth	1 845	1 812	2 328	2 187	1 737
United Kingdom					
Bentonite	183 613	201 555	166 278	162 819	325 719
Fuller's earth	39 013	6 144	1 720	...	48 065
South Africa					
Bentonite	1 857	6 841	3 753	1 984	2 701
Tunisia					
Bentonite	3 280	6 176	3 566	5 543	...
Canada					
Bentonite	329 639	343 826	381 042	371 660	324 995
Fuller's earth	9 266	10 169	9 009	7 873	22 817
Mexico					
Bentonite	8 270	7 993	11 173	34 205	45 057

Imports of Bentonite and Fuller's Earth

Country	1994	1995	1996	1997	1998
USA					
Bentonite	2 042	3 114	7 514	7 562	7 772
Fuller's earth	1 441	100	368	3 533	288
Brazil					
Bentonite	26 092	34 486	36 717	35 029	60 814
Chile					
Bentonite	6 001	6 587	6 224	7 762	6 040
Colombia					
Bentonite	5 568	3 403	17 082	9 629	10 258
Peru					
Bentonite	1 192	1 526	2 957	3 624	...
Uruguay					
Bentonite	757	478	363	101	414
Venezuela					
Bentonite	43 565	98 770	52 729	71 291	...
China					
Bentonite	1 774	2 000	2 007	1 679	2 083
Fuller's earth	3 104	2 009	2 272	1 160	1 152
Hong Kong					
Bentonite	11 290	17 784	16 181	8 408	3 880
Indonesia					
Bentonite	15 395	9 941	36 019	24 476	12 206
Japan					
Bentonite	209 306	254 970	218 252	227 816	157 386
Fuller's earth	7 058	7 015	7 479	8 350	8 125
Korea, Republic of					
Bentonite	15 203	11 494	18 857	26 724	17 067
Fuller's earth	19	334	937	1 861	3 038
Kuwait					
Bentonite	...	14 019	29 889	5 461	...
Malaysia					
Bentonite	102 692	63 441	...	...	...
Fuller's earth	12 932	10 211	...	...	...
Pakistan					
Bentonite (a)	5 566	...	1 230	1 860	1 045
Philippines					
Bentonite	17 201	13 537	6 375	8 446	...
Fuller's earth	4 737	6 376	6 984	6 119	...
Saudi Arabia					
Bentonite	15 722	13 522	18 099	17 493	26 727
Singapore					
Bentonite	30 552	17 395	26 401	24 554	21 211
Fuller's earth	218	232	47	26	134
Taiwan					
Bentonite	40 846	36 741	33 839	34 838	30 692
Fuller's earth	682	743	1 247	2 173	2 527
Thailand					
Bentonite	38 303	42 479	...	33 685	...
Fuller's earth	2 526	66	...	30	...
Australia					
Bentonite	16 853	20 537	4 534	10 370	12 190
New Zealand (a)	1 597	2 597	...	2 746	3 367

Note(s) :-

(1) See notes 1-3 to production table

(2) The figures in this table refer to natural and sodium-exchanged bentonite, and fuller's earth, Standard International Trade Classification (Revision 3) 278.27

(3) Activated bentonite and fuller's earth, Standard International Trade Classification (Revision 3) 598.65 are excluded

(4) Some countries are believed to include sodium-exchanged bentonite, often referred to as activated bentonite, under Standard International Trade Classification (Revision 3) 598.65, e.g. Italy

(a) Years ended 30 June of that stated

Mine Production of Bismuth

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Bulgaria	*40	*40	*40	*40	*40
Romania	*40	*40	*40	*40	*40
Russia	25	23	10	10	*10
Canada	152	187	176	230	256
Mexico	1 047	995	1 070	1 642	1 204
USA	*100	*100	*100	*50	...
Peru (a)	1 210	*900	*1 000	*1 000	*1 000
China	850	739	360	757	818
Japan (b)	505	591	562	550	479
Kazakhstan	85	33	15	13	...
Tajikistan	*12	*11	*5	*5	*5
Uzbekistan	*10	*10	*11	----	----
Australia	*400	*400	*400	*400	*400
World Total	4 500	4 100	3 800	4 700	4 300

Note(s):

- (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
- (3) In addition to the countries listed, Brazil is believed to produce bismuth

- (a) Including Bi content of bullion and concentrates exported
- (b) Metal production

Exports of Bismuth

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg					
Compounds	46	519	454	842	1 172
France					
Compounds	34	44	40	81	14
Metal	61	93	77	47	44
Germany					
Compounds	33	50	79	336	27
Metal	359	267	133	75	102
Italy					
Metal	2	10	...	...	3
Netherlands					
Metal	105	16	170	48	300
Russia					
Metal	...	...	10	35	269
Spain					
Compounds	76	77	...	...	40
Metal	19	5	27	12	12
United Kingdom					
Metal	635	743	859	2 038	2 031
Canada					
Metal	165	220	141	150	176
Mexico					
Metal	1 008	865	914	1 731	2 526
USA					
Metal	176	269	161	243	266
Peru					
Metal	1 009	521	660	1 204	874
China					
Metal	5 806	3 511	1 199	1 603	1 344
Hong Kong					
Metal (a)	118	187	117	9	----
Japan					
Metal	4	36	5	11	5
Kazakhstan					
Ores	...	7 731	9 615	21 844	11 742
Metal	...	...	10	11	2
Korea, Republic of					
Metal	102	97	75	107	94

Note(s):

(1) The compounds recorded in this table are bismuth carbonate and/or bismuth nitrate

(a) Re-exports

Imports of Bismuth

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	14	7	21	...	6
Czech Republic					
Metal	...	...	...	32	21
France					
Compounds	19	47	75	163	130
Metal	332	335	312	283	300
Germany					
Compounds	455	626	471	426	710
Metal	534	647	421	940	1 314
Irish Republic					
Metal	4	----	27	60	42
Italy					
Metal	147	166	96	165	150
Netherlands					
Compounds	157	256	...	393	597
Metal	73	44	170	188	263
Poland					
Metal	10	6	16	12	...
Russia					
Metal	...	...	11	13	6
Spain					
Metal	235	107	191	135	250
Sweden					
Metal	23	22	11	34	11
Switzerland					
Metal	11	15	10	10	13
United Kingdom					
Metal	450	451	795	1 256	1 378
Canada					
Metal	98	69	75	161	131
USA					
Metal	1 661	2 201	1 502	2 183	2 766
Brazil					
Metal	82	68	90	...	111
Hong Kong					
Metal	873	390	381	46	2
India					
Metal (a)	89	34	84	20	...
Indonesia					
Compounds	1	1	12	1 207	216
Japan					
Metal	281	190	181	380	373
Korea, Republic of					
Metal	26	18	52	...	8
Taiwan					
Metal	27	28	...	...	37
Australia					
Metal	18	13	7	7	15

Note(s) :-

(1) The compounds recorded in this table are bismuth carbonate and/or bismuth nitrate

(a) Years ended 31 March following that stated

Production of Bromine

Country	1994	1995	1996	1997	1998
France	2 190 000	2 260 000	2 020 000	1 980 000	*2 000 000
Italy	*300 000	*300 000	*300 000	*300 000	*300 000
Russia	270 000	120 000	70 000	*60 000	...
Spain	*200 000	*200 000	*100 000	*100 000	*100 000
Ukraine	2 300 000	1 743 000	1 642 000	956 000	1 866 000
United Kingdom	33 800 000	26 200 000	30 600 000	35 600 000	35 900 000
USA (a)	195 000 000	218 000 000	227 000 000	247 000 000	230 000 000
China	31 400 000	32 700 000	41 400 000	31 000 000	*40 000 000
India	2 248 250	1 800 240	2 524 430	2 509 190	1 477 000
Israel	141 000 000	151 000 000	154 000 000	184 000 000	185 000 000
Japan	*15 000 000	*15 000 000	*15 000 000	*20 000 000	*20 000 000
World Total	424 000 000	449 000 000	475 000 000	524 000 000	517 000 000

Note(s):

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

Exports of Bromine

kilograms

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg	442 000	881 000	1 784 000	1 663 800	...
Germany	125 400	4 500	3 700	12 300	38 400
Italy	25 600	...	...	4 532	1 000
Netherlands	791 000	...	...	...	...
Russia (a)	*41 200	*48 800	*59 400	...	...
Ukraine (a)	*68 000	*336 800	*535 900	...	...
United Kingdom	2 676 118	4 536 061	5 345 184	5 025 081	7 039 647
Yugoslavia, Federal	(a) *11 300	...	...	17 000	...
USA	6 564 811	3 236 285	2 924 481	2 465 395	1 666 235
China	-----	82 500	41 772	58 716	58 144
Israel (a)	*23 955 000	*15 051 000	...	...	...

Note(s):

(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

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

Imports of Bromine

Country	1994	1995	1996	1997	1998
Austria	...	76 200	97 600	104 900	164 200
Belgium-Luxembourg	2 602 900	1 896 000	1 234 000	1 162 100	...
Denmark	400	400	6 000	118	2 000
France	6 929 800	8 797 000	9 072 000	7 888 000	9 295 000
Germany	3 719 000	3 328 200	3 148 000	3 092 100	2 667 000
Hungary	12 400	...	...	...	...
Irish Republic	-----	-----	-----	33 992	51 000
Italy	805 800	...	...	239 468	241 000
Netherlands	19 168 000	10 984 000	354 000	22 000	14 000
Poland	71 000	61 000	28 000	80 000	...
Spain	...	119 000	...	194 767	150 000
United Kingdom	4 841 758	5 184 957	7 045 247	5 213 006	7 999 389
Canada	1 652 167	1 426 681	1 230 197	1 326 667	1 090 190
Mexico (c)	130 209	189 796	199 213	221 000	350 000
USA	330 296	2 221 619	421 580	1 648 027	1 196 316
Brazil	61 000	71 000	...	...	...
China	445 568	233 238	137 446	1 892 148	1 919 719
India (a)	756 200	2 553 629	1 755 579	1 460 040	...
Korea, Republic of	902 281	957 867	1 091 227	974 234	923 099
Pakistan (b)	9 000	...	1 300	7 838	-----
Taiwan	53 172	141 840	111 500	...	28 227

Note(s) :-

(1) This table does not purport to be comprehensive: trade in bromine is not separately distinguished from other halogens by many countries

- (a) Years ended 31 March following that stated
- (b) Years ended 30 June of that stated
- (c) May include some fluorine

Production of Cadmium

tonnes

Country	1994	1995	1996	1997	1998
Belgium	1 556	1 710	1 580	1 420	1 318
Bulgaria	286	280	*280	*280	*280
Finland	548	534	648	494	520
France	6	----	92	309	177
Germany (a)	1 145	1 145	1 145	1 140	1 020
Italy	475	308	296	287	470
Macedonia	73	70	12	*10	*10
Netherlands	*600	704	603	718	739
Norway	284	317	274	305	276
Poland	61	----	----	22	----
Romania	4	5	----	----	----
Russia	582	670	716	*750	*750
Spain	387	397	307	334	196
Turkey	22	36	42	89	69
Ukraine	10	*15	2	2	2
United Kingdom	469	549	537	455	440
Yugoslavia, Federal Republic of	----	11	79	45	17
Algeria	59	50	44	*40	*40
Namibia	19	15	7	2	----
Canada (a)	2 173	2 349	2 433	2 260	2 067
Mexico	646	689	784	1 223	1 275
USA (a)	1 011	1 266	1 525	2 059	1 878
Argentina	27	43	40	45	34
Brazil	162	144	132	*130	*130
Peru	510	423	405	359	405
China	1 282	1 533	1 567	1 982	2 125
India (b)	246	259	277	257	231
Japan	2 629	2 652	2 344	2 472	2 336
Kazakhstan	1 097	794	567	745	1 463
Korea, Dem. P.R. of	*200	*200	*200	*200	*200
Korea, Republic of	909	1 665	501	570	550
Thailand	643	365	385	238	238
Uzbekistan	*100	*100	*100	*100	*100
Australia	910	838	639	632	585
World Total	19 100	20 100	18 600	20 000	19 900

Note(s):

(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

Exports of Cadmium

Country	1994	1995	1996	1997	1998
Austria					
Metal	6	13	1	0	----
Belgium-Luxembourg					
Metal	1 585	2 206	1 591	1 816	2 172
Sulphide	53	44	31	14	22
Bulgaria					
Metal	(b) *10	277	(b) *50	248	(b) *200
Finland					
Metal	810	496	496	476	415
France					
Metal	159	4 155	879	1 493	1 155
Germany					
Metal	2 022	766	595	47	3
Italy					
Metal	583	220	221	301	212
Sulphide	104	...	...	29	35
Netherlands					
Metal	2 040	544	711	858	1 108
Norway					
Metal	346	169	172	321	454
Poland					
Metal	12	----	----	...	...
Russia					
Metal (b)	*50	*950	*850	*1 070	*800
Spain					
Metal	301	335	380	263	20
United Kingdom					
Metal	134	299	174	18	29
Namibia					
Metal	31	33	9	2	----
South Africa					
Metal	...	207	(b) *100	2	0
Canada					
Metal	1 904	2 463	1 694	2 539	2 050
Mexico					
Metal	617	693	661	1 284	1 215
USA					
Metal	1 468	1 094	204	558	606
Sulphide	205	506	797	399	29
Peru					
Metal	412	305	315	494	...
China					
Metal	3 479	1 449	241	372	225
Hong Kong					
Metal (a)	248	691	452	231	66
Japan					
Metal	15	19	31	98	17
Sulphide	2	8	14	9	11
Kazakhstan					
Metal	(b) *240	739	794	866	1 216
Korea, Republic of					
Metal	1 198	1 274	773	1 576	799
Thailand					
Metal	722	2 390	420	303	...
Uzbekistan					
Metal (b)	...	...	10	*170	*150
Australia					
Metal	861	750	782	449	700

Note(s):

(a) Re-exports

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

Imports of Cadmium

tonnes

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg					
Metal	2 973	5 009	4 169	3 289	7 802
Sulphide	51	33	119	----	----
Finland					
Metal	125	0	24	...	----
France					
Metal	1 290	1 312	820	823	990
Sulphide	32	342	296	2	5
Germany					
Metal	395	267	178	26	34
Sulphide	3	4	2	7	5
Italy					
Metal	62	63	51	43	20
Sulphide	9	...	...	1	8
Netherlands					
Metal	332	575	286	267	426
Poland					
Metal	25	26	20	128	...
Russia					
Metal	...	...	15	672	1 614
Spain					
Metal	127	105	13	129	91
Sweden					
Metal	345	393	263	265	248
Switzerland					
Metal	3	8	9	13	8
Turkey					
Metal	5	2	2	8	20
United Kingdom					
Metal	893	131	345	854	643
Canada					
Sulphide	110	299	667	412	...
USA					
Metal	1 104	817	843	790	620
Brazil					
Oxide	124	181	...	...	...
China					
Metal	465	607	1 151	1 323	854
Hong Kong					
Metal	997	433	624	234	38
India					
Metal (a)	404	418	2 214	1 766	...
Indonesia					
Sulphide	----	52	----	----	60
Japan					
Metal	3 844	6 046	4 442	4 772	3 562
Korea, Republic of					
Metal	47	35	11	47	6
Taiwan					
Oxide	314	325	343	323	376
Sulphide	6	16	11	5	14

Note(s) :-

(a) Years ended 31 March following that stated

Production of Chromium Ores and Concentrates

Country	1994	1995	1996	1997	1998
Albania	222 879	242 998	236 358	157 203	124 000
Finland (a)	572 747	597 674	573 909	588 856	498 075
Macedonia	*5 000	*5 000	*5 000	*5 000	----
Russia	143 000	165 000	112 000	77 900	...
Turkey (b)	790 000	1 932 000	1 250 000	*1 100 000	...
Madagascar	75 000	105 745	139 272	133 960	166 096
South Africa	3 599 472	5 086 053	4 970 945	5 740 997	6 479 582
Sudan	*25 000	44 988	*12 000	*30 500	*30 500
Zimbabwe	516 801	707 433	658 416	669 757	605 405
Cuba	*20 000	30 693	37 300	44 000	49 044
Brazil (b)	399 977	446 893	386 659	285 500	440 450
China	56 000	198 000	130 200	176 800	20 940
India (c)	1 137 886	1 699 534	1 455 849	1 515 286	1 403 957
Indonesia	----	10 000	13 300	2 156	4 700
Iran (a) (d)	354 163	363 610	322 367	*320 000	*320 000
Kazakhstan	2 020 000	2 871 000	1 190 000	1 798 300	1 602 700
Myanmar (c)	...	...	3 299	4 059	2 447
Oman	6 166	5 298	15 252	17 985	29 756
Pakistan (e)	12 410	9 560	26 961	23 763	8 885
Philippines (a)	76 015	102 684	118 622	98 115	38 872
United Arab Emirates	55 000	37 000	56 000	61 000	76 886
Vietnam	6 300	24 000	...	58 000	71 000
Australia	----	----	*5 500	18 756	72 496
World Total	10 100 000	14 700 000	11 700 000	12 900 000	13 200 000

Note(s):

(1) In addition to the countries listed, Bulgaria, Democratic P.R. of Korea and Thailand are believed to produce chromite

(a) Including foundry sand and/or lumpy ore

(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

Exports of Chromium

tonnes

Country	1994	1995	1996	1997	1998
Albania					
Ores & concentrates	95 600	89 600	89 200	55 600	52 058
Austria					
Ores & concentrates	63	----	500	203	526
Metal	14	130	180	1 057	2 956
Belgium-Luxembourg					
Ores & concentrates	18 715	21 694	22 155	17 266	6 046
Metal	204	87	104	702	233
Czech Republic					
Metal	3	131	189	102	49
Denmark					
Metal	185	3	256	390	468
Finland					
Ores & concentrates	694	951	1 005	675	255
Metal	54	1	----	36	408
France					
Ores & concentrates	1 101	768	671	2 060	2 467
Metal	2 944	3 083	3 101	4 128	4 783
Germany					
Ores & concentrates	9 543	8 041	7 130	9 372	16 478
Metal	634	652	499	1 878	1 037
Greece					
Ores & concentrates	1 000	18 872	3 920	----	----
Italy					
Ores & concentrates	1 824	2 083	2 330	16 551	2 228
Metal	49	17	51	25	260
Lithuania					
Metal	262	528	*500	22	3
Netherlands					
Ores & concentrates	24 206	35 087	37 520	47 461	65 029
Metal	848	592	382	847	1 365
Poland					
Ores & concentrates	1 074	9 382	14 900	5 700	...
Metal	328	348	437	...	...
Russia					
Ores & concentrates	27 800	5 800	8 074	4 508	3 019
Metal	4 065	4 192	5 098	7 774	5 251
Slovakia					
Metal	16	154	1 583	1 821	...
Spain					
Ores & concentrates	627	776	1 126	1 754	1 268
Metal	5	400	584	803	503
Switzerland					
Metal	9	52	21	41	34
Turkey					
Ores & concentrates	601 100	1 032 803	374 213	623 914	537 652
Metal	495	1	73	34	36
Ukraine					
Metal	*30	79	170	180	----
United Kingdom					
Ores & concentrates	5 710	947	881	886	646
Metal	3 261	2 859	3 204	5 732	5 826
Madagascar					
Ores & concentrates	74 200	128 543	65 255	117 760	147 700
South Africa					
Ores & concentrates	903 308	1 147 940	1 339 567	1 267 353	858 618
Sudan					
Ores & concentrates	43 000	27 000	----	...	...
Zimbabwe					
Ores & concentrates	90	5 410	32 862	38	11 406
USA					
Ores & concentrates	47 344	19 531	70 728	25 882	129 335
Metal	494	763	1 432	2 466	1 185
Brazil					
Ores & concentrates	156 373	33 121	103 680	87 029	154 52

Exports of Chromium

Country	1994	1995	1996	1997	1998
China					
Ores & concentrates	4 107	3 975	4 712	12 817	3 990
Metal	5 654	10 577	2 952	3 736	3 418
India					
Ores & concentrates (a)	490 212	347 705	565 825	438 948	...
Indonesia					
Ores & concentrates	681	1 118	6 074	5 500	399
Iran					
Ores & concentrates (b)	*244 300	*357 500	*147 900	*164 600	*125 400
Japan					
Ores & concentrates	323	...	390	8 649	116
Metal	1 484	912	544	327	173
Kazakhstan					
Ores & concentrates	450 400	1 029 601	262 709	579 647	388 448
Metal	...	195	117	120	----
Oman					
Ores & concentrates	3 287	6 900	4 125	7 787	...
Pakistan					
Ores & concentrates (d)	...	...	47 452	77 915	71 511
Philippines					
Ores & concentrates	83 881	98 992	73 589	131 130	...
Singapore					
Ores & concentrates (c)	902	737	366	114	144
Taiwan					
Ores & concentrates	1 034	2 254	1 417	1 264	953
Metal	90	186	329	390	398
United Arab Emirates					
Ores & concentrates	54 000	37 000	*35 000	20 000	140 000
Vietnam					
Ores & concentrates	6 300	24 000	...	58 000	71 000
Australia					
Ores & concentrates	321	----	----	15 753	71

Note(s):

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Years ended 31 March following that stated

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

(c) Re-exports

(d) Years ended 30 June of that stated

Imports of Chromium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Ores & concentrates	26 865	36 400	48 157	55 345	34 793
Metal	194	196	147	611	452
Belgium-Luxembourg					
Ores & concentrates	17 160	28 527	22 116	25 082	25 877
Metal	564	435	554	947	565
Croatia					
Ores & concentrates	...	27	14 796	69 168	32 010
Czech Republic					
Ores & concentrates	4 400	6 600	10 700	3 737	8 782
Metal	20	45	136	41	8
Denmark					
Ores & concentrates	269	724	506	666	904
Metal	23	160	31	46	46
Finland					
Ores & concentrates	24	436	2 631	3 224	5 174
Metal	44	51	12	22	110
France					
Ores & concentrates	22 742	29 701	29 538	27 620	29 023
Metal	1 209	1 240	586	917	923
Germany					
Ores & concentrates	172 534	159 793	177 909	180 312	201 728
Metal	1 852	1 819	1 479	1 950	1 888
Greece					
Ores & concentrates	78	58	1 638	3 007	2 170
Hungary					
Ores & concentrates	875	1 200	1 008	700	...
Metal	78	34	44	110	...
Irish Republic					
Metal	20	13	67	9	42
Italy					
Ores & concentrates	102 366	204 345	123 272	105 047	83 863
Metal	474	435	419	626	617
Lithuania					
Metal	46	529	158	----	...
Moldova					
Metal	10	53	----	----	----
Netherlands					
Ores & concentrates	32 858	47 695	69 338	57 589	61 785
Metal	1 306	584	1 039	1 318	2 230
Norway					
Ores & concentrates	457 000	347 000	308 000	371 000	340 165
Metal	88	53	54	115	102
Poland					
Ores & concentrates	26 807	84 138	55 200	31 900	...
Metal	24	17	10	32	...
Portugal					
Ores & concentrates	5 600	2 100	2 755	1 603	1 947
Romania					
Ores & concentrates	26 500	67 262	43 200	15 348	13 479
Metal	16	70	219	6	47
Russia					
Ores & concentrates	780 000	722 800	360 637	627 345	466 565
Metal	*500	*500	559	256	40
Slovakia					
Ores & concentrates	133 200	100 800	66 500	39 413	45 121
Metal	23	186	2	5	1
Slovenia					
Ores & concentrates	38 401	71 775	47 498	23 900	...
Metal	32	15	13	17	...
Spain					
Ores & concentrates	5 914	5 047	8 696	4 459	3 673
Metal	148	257	299	200	335
Sweden					
Ores & concentrates	374 426	294 600	*300 000	*300 000	...
Metal	462	575	486	557	629

Imports of Chromium

Country	1994	1995	1996	1997	1998
Switzerland					
Ores & concentrates	936	1 057	1 165	1 117	1 233
Metal	217	240	113	155	127
Turkey					
Ores & concentrates	546	6 380	5 080	819	19 497
United Kingdom					
Ores & concentrates	151 563	166 633	176 199	157 914	120 385
Metal	1 318	1 403	1 181	1 554	1 799
Yugoslavia, Federal Republic of					
Ores & concentrates	*2 000	*2 000	3 600	3 128	2 441
Metal	*5	*25	43	2	...
South Africa					
Metal	30	51	127	103	121
Canada					
Ores & concentrates	20 232	36 992	39 757	33 690	34 042
Metal	463	365	413	436	455
Mexico					
Ores & concentrates	5 749	6 357	7 700	6 691	5 526
USA					
Ores & concentrates	201 273	251 359	251 160	303 598	380 788
Metal	6 465	7 242	8 266	10 037	9 512
Argentina					
Ores & concentrates	14 723	43 730	37 695	39 392	42 409
Brazil					
Ores & concentrates	8 045	48 046	5 352	14 156	9 777
Chile					
Ores & concentrates	11 110	20 052	10 592	9 809	16 028
Peru					
Ores & concentrates	2 355	2 832	1 609	1 904	...
Venezuela					
Ores & concentrates	2 641	2 408	2 233	2 502	...
China					
Ores & concentrates	651 001	1 380 935	764 377	894 001	711 544
Metal	310	449	1 327	1 815	598
Hong Kong					
Metal	43	103	13	7	31
India					
Ores & concentrates (a)	16 631	7 271	820	1 724	...
Metal (a)	153	226	170	193	...
Indonesia					
Ores & concentrates	277	496	698	200	63
Japan					
Ores & concentrates	664 545	607 268	686 451	577 402	416 665
Metal	2 046	2 123	1 953	1 973	2 365
Korea, Republic of					
Ores & concentrates	537	478	539	385	209
Metal	487	517	675	748	948
Philippines					
Ores & concentrates	22	9 761	211	1 280	...
Singapore					
Ores & concentrates	1 036	1 245	508	494	294
Metal	18	60	18	23	40
Taiwan					
Ores & concentrates	6 991	9 993	8 179	8 852	9 809
Metal	93	126	258	166	172
Thailand					
Ores & concentrates	7 514	1 778	6 478	5 406	...
Metal	6	5	8	11	...
Australia					
Ores & concentrates	10 277	12 615	12 253	9 214	8 661
Metal	158	144	163	256	250

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Years ended 31 March following that stated

Production of Coal

tonnes

Country	1994	1995	1996	1997	1998
Albania					
Lignite	158 000	105 000	90 000	38 000	33 000
Armenia	...	25 000	6 000	5 000	----
Austria					
Brown coal & lignite	1 368 717	1 249 308	1 108 058	1 130 339	1 140 151
Bosnia & Herzegovina					
Brown coal & lignite	*2 500 000	*2 500 000	*2 000 000	*2 000 000	*2 000 000
Bulgaria					
Anthracite & bituminous	173 000	194 000	138 000	102 000	100 000
Brown coal & lignite	28 584 000	30 636 000	31 164 000	29 606 000	30 300 000
Croatia					
Bituminous	96 205	75 208	64 369	48 535	50 839
Czech Republic					
Bituminous	20 910 000	21 309 000	21 784 000	20 847 000	19 521 000
Lignite	913 000	775 000	902 000	747 000	652 000
Brown coal	59 811 000	57 954 000	59 539 000	57 395 000	51 283 000
France					
Anthracite & bituminous	7 458 000	7 014 000	7 312 000	5 779 000	4 864 000
Lignite	1 501 000	1 401 000	798 000	1 030 000	735 000
Georgia	44 500	42 600	22 500	4 600	10 000
Germany					
Anthracite & bituminous	52 407 727	53 563 599	48 196 515	46 789 987	41 642 000
Brown coal	207 095 866	192 758 592	187 246 858	177 159 541	166 000 000
Greece					
Lignite	57 532 515	56 553 231	54 732 680	58 939 419	60 910 433
Hungary					
Bituminous	1 021 115	843 747	961 925	923 914	877 028
Lignite	6 727 049	7 150 518	7 575 255	8 088 893	7 609 715
Brown coal	6 158 199	6 457 659	6 538 456	6 552 186	6 007 556
Italy					
Bituminous	109 000	----	41 000	...	...
Lignite	517 000	365 800	223 400	203 061	83 700
Macedonia					
Lignite	6 859 762	*7 000 000	*6 500 000	*6 500 000	*6 500 000
Norway					
Bituminous (a)	301 190	292 094	229 636	386 440	328 170
Poland					
Bituminous (b)	133 933 100	137 166 300	137 987 200	137 792 476	115 725 765
Lignite	66 770 200	63 547 100	63 845 400	63 169 437	62 820 314
Portugal					
Anthracite	147 154	----	----	----	...
Romania					
Anthracite & bituminous	6 307 000	6 356 000	6 965 000	5 642 000	*5 000 000
Brown coal & lignite	36 891 000	37 632 000	37 809 000	30 604 000	*30 600 000
Russia	272 000 000	262 000 000	254 800 000	245 000 000	232 200 000
Slovakia					
Brown coal	4 078 000	4 140 150	3 829 605	3 941 600	3 966 000
Slovenia					
Brown coal & lignite	4 884 000	4 874 000	4 778 000	4 954 000	*5 200 000
Spain					
Anthracite	6 756 295	6 274 965	6 498 980	6 666 820	6 393 000
Bituminous	7 234 558	7 387 139	7 195 634	7 200 513	6 004 000
Sub-bituminous	4 138 424	4 037 408	4 071 521	4 124 414	3 925 000
Lignite	11 361 535	10 775 614	9 585 773	8 462 519	9 750 000
Turkey					
Anthracite	4 210 780	3 377 334	3 581 788	3 645 896	3 336 021
Bituminous	108 364	147 154	126 751	117 310	157 334
Lignite	55 038 339	56 031 099	57 532 425	56 779 793	66 498 602
Ukraine					
Bituminous	94 600 000	87 841 000	75 719 000	76 947 000	77 206 000
Lignite	2 700 000	2 292 000	1 587 000	1 433 000	1 409 000
United Kingdom					
Bituminous (b)	48 971 000	53 037 000	50 197 000	48 495 000	41 428 000
Yugoslavia, Federal Republic of					
Bituminous	81 672	56 678	62 754	91 540	104 596
Lignite	37 740 199	39 939 297	37 827 576	42 312 896	43 577 410
Brown coal	529 105	559 778	538 759	512 228	389 996

Production of Coal

Country	1994	1995	1996	1997	1998
Botswana	900 298	898 383	763 240	776 917	928 100
Congo, Democratic Republic					
Bituminous	11 000	70 000	95 000	50 000	...
Egypt	...	...	350 000	350 000	200 000
Malawi (c)	60 217	18 169	64 037	60 749	*55 000
Morocco					
Anthracite	650 400	649 600	505 600	376 300	269 100
Niger	*150 000	170 971	182 022	162 840	181 213
Nigeria					
Sub-bituminous	13 153	19 505	27 116	39 000	...
South Africa					
Anthracite	2 280 446	2 137 368	2 465 611	1 997 314	2 101 376
Bituminous	193 524 994	204 104 596	203 803 459	216 620 006	222 283 273
Swaziland					
Bituminous	227 730	171 666	128 973	203 115	410 021
Tanzania					
Bituminous	45 027	43 200	52 000	28 448	...
Zambia					
Bituminous	162 899	...	128 063	164 443	150 000
Zimbabwe					
Bituminous	5 515 336	5 537 579	5 174 685	5 300 749	5 046 977
Canada					
Bituminous	36 644 455	38 605 686	40 026 879	41 216 344	38 304 118
Sub-bituminous	25 494 274	25 621 599	24 985 963	25 782 503	25 285 315
Lignite	10 684 628	10 739 710	10 838 575	11 652 553	11 790 106
Mexico					
Bituminous	11 432 222	11 800 258	13 746 817	12 707 443	12 378 788
USA					
Anthracite	4 215 000	4 274 000	4 325 000	4 257 000	...
Bituminous	580 834 000	556 798 000	572 199 000	593 143 000	(d) 1 014 353 000
Sub-bituminous	272 624 000	297 555 000	308 707 000	313 043 000	...
Lignite	79 906 000	78 471 000	79 883 000	78 327 000	...
Argentina					
Bituminous	348 000	304 485	328 762	250 136	288 000
Brazil					
Bituminous & lignite (e)	5 352 248	5 524 961	4 787 615	5 847 000	5 382 000
Chile					
Bituminous	480 825	361 554	233 600	134 435	116 611
Lignite	1 182 138	1 123 313	1 210 483	1 278 862	*1 300 000
Colombia					
Bituminous	22 600 000	25 869 000	29 695 000	32 797 000	33 751 000
Peru					
Anthracite	22 024	17 416	20 699	21 694	7 384
Bituminous	*45 000	*45 000	*45 000	*45 000	*45 000
Venezuela					
Bituminous	4 434 354	4 257 650	4 181 000	5 284 000	6 800 000
Afghanistan					
Bituminous	*200 000	140 000	200 000	220 000	230 000
Bhutan	63 912	71 112	68 000	*70 000	...
China					
Anthracite	249 910 900	304 486 800	314 766 800	293 608 300	228 650 000
Bituminous	931 138 300	996 584 200	1 015 383 900	1 003 636 000	953 090 000
Lignite	60 950 800	59 660 500	66 548 700	75 575 800	50 770 000
India					
Bituminous (c)	257 770 000	273 415 000	286 080 000	296 656 000	293 565 000
Lignite (c)	19 256 000	22 144 000	22 540 000	23 052 000	23 009 000
Indonesia					
Anthracite & bituminous	31 238 458	41 516 722	47 338 609	52 074 283	60 320 949
Iran					
Bituminous (f)	1 884 985	1 847 994	1 726 297	*1 750 000	*1 810 000
Japan					
Anthracite & bituminous	6 931 000	6 263 000	6 480 000	4 274 000	3 600 000
Lignite	60 886	...	66 140	----	----

Production of Coal

tonnes

Country	1994	1995	1996	1997	1998
Kazakhstan					
Bituminous	101 500 000	(g) 83 271 000	(g) 76 831 000	(g) 72 647 000	65 700 000
Lignite	2 500 000	...	...	...	3 000 000
Korea, Dem. P.R. of					
Anthracite	...	40 000 000	30 300 000	70 000 000	60 000 000
Lignite	...	...	13 000 000	21 000 000	15 000 000
Korea, Republic of					
Anthracite	7 438 349	5 719 637	4 950 780	4 514 000	4 361 000
Kyrgyzstan	848 000	463 200	409 900	521 500	445 700
Laos	3 280	35 490	75 214	108 013	86 081
Malaysia	173 749	114 100	73 747	105 231	349 849
Mongolia					
Anthracite & bituminous	1 430 000	1 445 000	1 256 700	303 300	291 900
Brown coal & lignite	3 550 000	3 558 000	3 853 900	4 620 700	4 406 100
Myanmar (c)	31 485	34 708	30 700	37 000	*24 000
Pakistan (g) (h)	3 195 001	2 894 056	3 253 903	3 133 393	3 164 216
Philippines					
Bituminous	1 345 562	1 265 726	955 631	1 078 654	1 157 204
Taiwan					
Bituminous	285 099	234 965	147 497	98 203	79 310
Tajikistan	100 000	30 000	20 000	10 000	10 000
Thailand					
Anthracite	11 900	5 000	3 000	----	...
Lignite	17 099 654	18 418 738	21 685 894	23 443 475	20 161 721
Uzbekistan	3 845 000	3 054 000	2 830 000	2 900 000	3 010 000
Vietnam					
Anthracite	6 100 000	7 200 000	9 823 000	11 444 000	13 000 000
Australia					
Bituminous (i)	182 723 000	193 534 000	198 638 000	216 690 000	222 020 000
Brown coal (h)	49 980 000	50 751 000	53 604 000	58 160 000	65 600 000
New Zealand					
Bituminous	1 265 328	1 570 220	1 671 730	1 500 145	1 626 000
Sub-bituminous	1 516 327	1 631 936	1 588 840	1 950 548	1 527 000
Lignite	251 541	242 882	248 764	213 341	166 000
World Total	4 518 000 000	4 646 000 000	4 697 000 000	4 770 000 000	4 598 000 000

Note(s):

(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 the former Soviet Union
- (b) Including anthracite
- (c) Years ended 31 March following that stated
- (d) Coal; all forms
- (e) Including beneficiated and directly shipped material
- (f) Years ended 20 March following that stated
- (g) Including lignite
- (h) Years ended 30 June of that stated
- (i) Including sub-bituminous

Exports of Coal

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg					
Anthracite	220 055	254 998	283 988	289 285	874 527
Other coal	1 165 871	1 271 207	1 304 851	1 652 469	1 372 040
Briquettes	28 400	28 139	28 024	31 303	14 350
Czech Republic					
Hard coal (b)	6 499 000	7 022 000	6 738 000	6 609 000	6 725 591
Lignite	5 282 000	6 903 000	6 173 000	4 664 842	3 687 730
Briquettes	...	...	...	366 442	242 501
Denmark (b)	48 577	59 572	115 130	106 416	139 321
Estonia (c)	*174 000	*157 000	...	...	...
France					
Anthracite	18 884	19 046	27 368	15 107	3 033
Other coal	561 128	424 847	262 423	204 038	64 546
Briquettes	21 093	13 956	32 049	43 570	20 048
Germany					
Hard coal (b)	2 190 765	1 736 383	1 037 327	513 327	322 353
Brown coal	723 794	674 751	544 460	339 407	251 869
Briquettes	190 745	157 713	132 804	427 260	232 346
Italy (b)	10 701	35 262	7 947	3 709	7 650
Latvia (b)	93 794	8 341	4 618	1 838	197
Netherlands					
Anthracite	64 324	71 206	86 315	112 565	143 879
Other coal	2 807 844	2 768 777	2 236 539	2 824 677	4 124 961
Briquettes	3 750	82 864	23 590	32 210	20 760
Norway (b)	178 624	180 276	156 071	...	...
Poland					
Anthracite	221 225	73 892	...	...	...
Other coal	27 473 866	31 794 304	(b) 28 925 379	(b) 29 500 000	(b) 27 600 000
Lignite	651 000	367 000	78 000	49 000	...
Russia					
Anthracite	...	...	3 597 167	2 128 855	1 751 578
Other coal	(b) 24 100 000	(b) 30 360 000	21 744 000	20 695 000	21 609 000
Lignite	(c) *299 000	1 911 031	2 007 429	813 206	309 131
Briquettes	...	...	51 041	29 778	11 838
Slovenia					
Lignite	24 743	...	2 725	1 974	1 398
Spain					
Anthracite	19 504	27	180	5 367	13 214
Sweden (b)	23 393	1 754	2 236	2 048	2 524
Ukraine	(c) *2 720 000	1 686 031	2 288 843	2 374 743	1 882 275
United Kingdom					
Anthracite	278 030	351 552	420 230	393 772	278 168
Other coal	958 407	572 411	553 789	666 119	665 820
Briquettes	105 285	123 502	117 070	97 803	55 609
South Africa					
Anthracite	2 043 000	2 016 844	2 203 555	1 648 594	1 387 319
Other coal	52 366 594	57 659 214	57 965 702	57 333 704	60 735 069
Zimbabwe (b)	74 272	63 537	30 775	45 740	42 609
Canada					
Hard coal (b)	31 228 345	34 068 703	34 748 142	35 613 722	32 907 404
Lignite	62 293	35 461	11 589	72 788	46 403
USA					
Anthracite	444 788	734 999	700 105	580 216	612 548
Other coal	64 480 289	79 680 628	82 076 000	75 667 653	69 626 919
Lignite	21 080	83 808	235 283	455 778	290 176
Briquettes	15 986	34 473	12 852	29 832	45 116
Colombia	18 437 000	18 274 000	24 780 000	27 580 000	30 061 000
Venezuela	4 088 315	3 802 598	3 604 000	4 700 000	...
China					
Anthracite	1 863 031	2 528 687	1 729 132	2 115 741	2 786 821
Other coal	22 436 550	26 087 483	27 267 751	28 606 785	29 503 933
India (a)	673 053	651 734	478 229	540 722	...

Exports of Coal

tonnes

Country	1994	1995	1996	1997	1998
Indonesia					
Anthracite	1 142 525	1 825 065	1 368 830	1 091 542	1 318 772
Other coal	24 221 450	29 745 435	30 586 265	41 038 390	46 931 707
Briquettes	406 271	382 104	78 500	168 000	94 750
Kazakhstan					
Hard coal	...	20 767 491	20 839 652	24 857 303	23 578 438
Lignite	...	202 290	232 381	219 849	110 474
Korea, Dem. P.R. of (c)	*474 000	*432 000	...	...	...
Kyrgyzstan					
Hard coal	...	170 600	100 400	78 000	23 000
Laos					
Lignite	-----	10 000	43 000	68 075	82 823
Malaysia	63 570	77 421	15 330	...	...
Vietnam	2 300 000	2 500 000	3 647 000	3 449 400	3 163 000
Australia					
Anthracite	271 327	333 450	349 957	485 664	703 037
Other coal	130 860 370	136 064 226	140 435 752	157 253 593	166 339 204
Lignite	144	68 689	53 110	31	13
Briquettes	88 263	-----	60 339	62 894	122
New Zealand (d)	1 000 429	1 125 970	1 440 253	1 305 664	1 190 264

Note(s):

(1) This table excludes bunker shipments

- (a) Years ended 31 March following that stated
- (b) Including anthracite
- (c) BGS estimates, based on known imports into certain countries
- (d) Years ended 30 June of that stated

Imports of Coal

Country	1994	1995	1996	1997	1998
Armenia	3 500	75 000	4 687	1 791	237
Austria					
Hard coal (c)	2 998 512	...	...	3 796 610	3 577 943
Brown coal	18 873	...	...	18 863	10 899
Briquettes	196 657	...	...	139 250	105 177
Belarus	...	1 241 500	997 100	786 400	...
Belgium-Luxembourg					
Anthracite	890 726	1 023 094	933 612	856 978	981 210
Other coal	12 392 380	12 036 234	11 103 000	11 862 591	11 358 312
Brown coal	112 321	177 159	149 215	158 490	213 354
Briquettes	143 847	96 524	42 690	38 967	26 611
Bulgaria					
Anthracite	1 046 700	630 900	2 026 300	1 873 300	...
Briquettes	876 300	1 231 600	1 368 000	1 420 100	...
Croatia					
Hard coal	350 570	89 387	61 407	62 452	167 867
Lignite	...	154 471	146 924	133 684	98 170
Czech Republic	1 721 000	2 676 000	3 211 000	2 274 356	1 578 070
Denmark					
Anthracite	91 006	37 841	31 860	71 644	78 571
Other coal	11 714 563	12 901 607	12 430 959	14 003 715	8 284 775
Finland					
Hard coal (c)	8 104 915	5 887 234	6 178 787	7 439 189	4 613 280
France					
Anthracite	2 013 315	1 687 257	1 390 400	1 904 691	1 655 772
Other coal	10 585 090	11 629 364	14 365 536	11 661 093	12 303 542
Lignite	58 928	53 125	41 251	37 919	31 437
Briquettes	160 422	95 041	111 050	139 330	112 082
Germany					
Anthracite	219 182	363 811	258 966	348 536	387 288
Other coal	15 264 156	14 710 286	16 089 372	19 511 920	21 801 982
Brown coal	3 023 604	2 642 506	2 558 933	2 150 892	1 943 544
Briquettes	76 182	63 636	111 376	530 856	370 663
Greece (c)	1 430 186	1 412 867	1 572 505	1 230 221	1 175 265
Hungary					
Hard coal (c)	1 961 051	1 761 496	1 893 219	1 742 672	...
Brown coal	622 434	386 006	549 196	456 029	265 559
Briquettes	54 544	26 779	18 847	14 725	10 449
Iceland	71 007	64 927	65 569	58 255	57 905
Irish Republic					
Anthracite	95 650	106 983	111 763	109 108	120 081
Other coal	*2 400 000	2 401 743	2 486 235	3 053 424	2 728 413
Briquettes	40 898	31 716	33 907	40 867	43 912
Italy					
Anthracite	448 692	351 196	391 852	658 500	197 665
Other coal	15 308 172	18 267 000	16 331 639	15 249 673	15 474 813
Briquettes	19 754	16 740	18 446	16 523	12 408
Latvia	465 554	159 560	207 251	143 194	123 669
Lithuania					
Hard coal (c)	353 500	234 600	387 454	323 538	269 298
Lignite	...	24 473	26 584	3 421	1 910
Malta	208 412	37 733	1 036	...	729
Moldova					
Anthracite	...	...	509 838	135 703	93 354
Other coal	(c) 2 444 000	(c) 1 314 799	559 974	236 489	410 031
Netherlands					
Anthracite	335 059	126 045	299 485	156 257	952 934
Other coal	16 791 802	17 437 949	17 528 000	18 998 000	20 352 039
Brown coal	32 616	42 893	43 698	43 828	19 477
Briquettes	47 979	17 703	12 419	42 113	45 423
Norway					
Anthracite (a)	93 097	106 412	83 151	106 361	152 694
Other coal (a)	673 841	788 440	706 033	725 246	766 142
Lignite (a)	27 563	32 845	40 755	28 809	48 049
Poland					
Hard coal (c)	1 069 272	1 498 131	1 976 700	3 200 000	...
Lignite	1 477	13 020	39 300	10 400	...

Imports of Coal

tonnes

Country	1994	1995	1996	1997	1998
Portugal					
Anthracite	667 648	...	322 221	447 943	336 726
Other coal	4 346 000	(c) 5 661 794	4 776 330	5 160 295	4 653 374
Romania	4 079 985	4 732 778	4 728 117	5 248 649	3 866 796
Russia					
Anthracite	...	...	2 396 401	5 376 810	4 465 260
Other coal	(c) (e) *25 900 000	(c) (e) *18 300 000	17 545 000	9 721 829	10 480 000
Brown coal	...	...	213 712	82 223	21 809
Slovakia					
Hard coal (c)	4 956 290	4 842 520	4 994 457	4 837 174	4 439 131
Lignite	3 460 896	3 695 506	3 391 000	2 195 000	1 418 000
Slovenia					
Hard coal (c)	15 552	...	20 377	32 907	231 472
Lignite	219 645	...	412 979	341 558	151 918
Spain					
Anthracite	289 499	199 141	282 449	159 315	281 363
Other coal	11 549 223	13 777 894	11 845 564	11 180 489	14 264 919
Sweden					
Anthracite	32 661	61 770	95 962	42 372	25 942
Other coal	3 013 709	3 437 536	3 139 894	2 972 087	3 012 878
Switzerland					
Anthracite	7 987	8 119	8 132	7 342	10 199
Other coal	123 462	206 039	122 822	73 154	58 467
Turkey					
Hard coal (c)	6 652 514	4 340 199	7 853 373	9 600 283	8 447 808
Ukraine					
Hard coal	...	...	10 818 084	8 368 976	8 390 047
Lignite	...	...	1 352 273	482 514	20 789
United Kingdom					
Anthracite	1 681 720	1 785 611	1 127 416	1 247 553	505 126
Other coal	13 406 765	14 135 749	16 512 925	18 581 823	20 728 142
Briquettes	84 599	55 665	56 279	25 119	9 821
Yugoslavia, Federal Republic	(e) *334 000	(e) *269 000	(e) *49 000	112 418	32 128
Algeria	425 326	710 364	318 097	380 362	...
Egypt	1 852 000	...	1 875 508	1 626 164	...
Kenya					
Anthracite	----	1 752	9 651	12 363	6 698
Other coal	32 632	84 251	66 100	31 975	33 083
Madagascar	...	...	...	13 688	7 686
Malawi	26 869	135 238	...	...	...
Mauritius	...	66 366	38 482	27 783	86 344
Morocco (c)	1 290 000	1 882 417	2 208 734	2 195 410	...
South Africa	556 968	805 160	1 218 664	1 159 917	1 674 622
Tunisia					
Anthracite	9 383	1 443	3 776	749	...
Zimbabwe	24 213	38 612	----	...	...
Canada					
Anthracite	343 961	427 044	527 520	523 133	713 282
Other coal	8 704 363	9 317 111	11 123 242	14 181 304	19 136 149
Cuba	153 000	157 000	...	...	...
Mexico					
Hard coal (c)	289 668	1 255 697	1 540 509	2 157 455	2 301 340
Lignite	1 034	1 654	1 721	1 830	1 816
Panama	61 861	66 766	66 968	98 183	39 534
USA					
Anthracite	341 517	34 974	107 954	25 194	5 121
Other coal	6 482 178	6 512 516	6 343 234	6 715 663	7 826 506
Lignite	62 384	35 505	11 625	72 788	46 403
Briquettes	27 246	443	28 212	----	2
Argentina	1 278 572	1 155 449	1 029 290	1 051 391	988 459
Brazil					
Anthracite	903 860	459 549	728 735	648 730	604 071
Other coal	11 475 229	12 082 413	12 117 960	11 650 363	10 050 963
Chile	2 343 242	2 871 638	4 673 570	4 638 125	4 605 359
Peru	354 702	287 007	360 236	486 441	386 993

Imports of Coal

Country	1994	1995	1996	1997	1998
Venezuela	31 534	29 114	20 532	...	...
China					
Anthracite	624 692	523 170	380 941	85 724	43 736
Other coal	584 485	1 085 376	2 823 516	1 912 883	1 538 397
Lignite	8 745	26 615	12 240	4 997	27
Cyprus	152 043	169 182	158 828	122 626	22 083
Hong Kong (c)	8 449 610	9 107 453	6 768 343	5 575 100	7 100 704
India (c) (d)	10 739 630	12 512 088	3 174 902	16 439 621	...
Indonesia (c)	300 805	644 321	411 046	384 852	59 475
Iran (b)	842 698	411 744	...	...	...
Israel	6 121 000	...	...	8 671 000	9 637 000
Japan					
Anthracite	2 444 482	2 780 788	3 233 592	3 474 785	3 261 130
Other coal	114 688 991	123 398 387	126 182 656	129 453 043	128 337 217
Lignite	20 782	19 943	20 371	13 382	14 483
Korea, Dem. P.R. of (e)	*1 552 000	*1 106 000	*324 000	*268 000	*186 000
Korea, Republic of					
Anthracite	699 176	722 839	874 640	721 918	788 973
Other coal	38 507 007	43 113 442	44 932 078	48 860 765	51 416 850
Kyrgyzstan	...	499 700	844 500	290 500	806 400
Malaysia					
Anthracite	17 126	14 541	39 400	...	...
Other coal	1 363 448	1 809 461	2 905 820	...	...
Lignite	268	95	...	...	...
Pakistan (f)	857 000	1 018 000	944 000	909 638	1 012 326
Philippines (c)	1 064 043	1 645 511	1 659 482	3 750 874	...
Taiwan					
Anthracite	53 248	78 253	59 645	50 605	50 516
Other coal	26 689 095	29 160 642	30 747 694	36 646 759	37 292 319
Briquettes	13 121	52 250	15 335	-----	-----
Thailand (c)	1 417 363	2 322 192	3 795 532	...	...
Australia					
Anthracite	17 101	32	7 262	10 065	247
Other coal	206 037	28 980	148 183	79 037	174 501
New Caledonia	206 030	184 914	227 995	258 341	298 736

Note(s) :-

- (a) Excludes coal imported from Spitzbergen
- (b) Years ended 20 March following that stated
- (c) Including anthracite
- (d) Years ended 31 March following that stated
- (e) BGS estimates, based on known exports from certain countries
- (f) Years ended 30 June of that stated

Mine Production of Cobalt

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Finland	121	-----	-----	-----	-----
Russia	*3 000	*3 500	*3 300	*3 300	*3 200
Botswana	225	271	406	334	335
Congo, Democratic Republic	3 274	3 967	4 041	3 153	3 944
Morocco	427	548	540	780	287
South Africa	246	190	244	318	296
Zambia (a)	3 600	5 908	6 959	6 043	*7 000
Zimbabwe	126	109	106	126	100
Canada	4 265	5 339	5 714	5 709	6 039
Cuba	1 141	1 854	2 300	2 500	2 700
Brazil	1 300	1 100	1 000	...	...
China	199	986	192	466	409
Indonesia	800	814	*800	*650	*650
Australia	1 394	1 433	1 423	*2 000	*2 100
New Caledonia	2 756	2 601	2 356	2 964	2 955
World Total	22 900	28 600	29 400	29 400	31 000

Note(s):

- (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, Canada and New Caledonia, the figures for which relate to cobalt in ore raised

(a) Years ended 31 March following that stated

Production of Cobalt Metal

Country	1994	1995	1996	1997	1998
Belgium	*1 200	*1 200	*1 200	*1 200	*1 200
Finland	1 443	1 709	2 110	...	...
Norway	2 824	2 804	3 097	3 417	3 850
Russia	4 340	4 036	3 916	3 805	3 261
Congo, Democratic Republic (a)	2 329	3 422	3 540	2 808	2 100
Morocco	----	----	80	226	242
South Africa (b)	246	189	244	318	296
Zambia	2 608	2 934	4 799	3 949	5 011
Canada (c)	2 971	3 259	3 601	3 792	4 357
Brazil	166	166	193	266	364
China	800	900	1 200	*1 200	*1 200
Japan	161	222	228	264	329
World Total	19 100	20 800	24 200	23 400	24 300

Note(s):

- (1) In addition to the production listed above, several countries, including the United Kingdom, Finland, France and USA, are known to produce substantial amounts of cobalt compounds
- (a) Excludes white alloy and matte which are believed to be further processed in Belgium and elsewhere
- (b) Includes metal and metal contained in sulphate
- (c) Including oxides

Exports of Cobalt

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	104	2 125	63	75	126
Belgium-Luxembourg					
Metal (a)	*1 900	*2 200	*2 200	*2 300	*2 300
Oxides (a)	*900	*1 900	*2 100	*3 000	*2 400
Estonia					
Oxides	*40	53	131	111	...
Finland					
Metal	1 352	1 558	1 776	2 074	1 633
Oxides	1 524	1 416	1 876	2 264	2 565
France					
Metal	742	607	468	573	786
Oxides	43	219	19	60	76
Germany					
Metal	1 789	1 543	1 255	1 387	1 103
Oxides	57	78	51	197	121
Irish Republic					
Oxides	205	193	173	104	136
Italy					
Metal	82	125	76	71	75
Oxides	59	78	30	56	77
Netherlands					
Metal	534	978	3 614	1 354	989
Oxides	47	119	137	85	148
Norway					
Metal	2 680	2 830	3 149	3 461	3 666
Poland					
Metal	83	11	1	1	...
Russia					
Ore	...	...	115	1 564	6 215
Metal	2 042	2 207	2 554	4 572	3 023
Oxides	(d) *200	277	142	261	267
Spain					
Metal	...	16	49	50	1
Sweden					
Metal	205	170	181	103	144
Oxides	660	898	396	251	314
Switzerland					
Metal	139	128	124	183	118
United Kingdom					
Metal	2 001	2 338	2 362	1 858	1 996
Oxides	2 151	2 163	1 233	1 229	1 320
Congo, Democratic Republic					
Metal	*2 300	*3 400	*3 500	*2 800	...
Morocco					
Ore	4 080	4 591	4 893	----	...
Metal	...	...	100	218	...
South Africa					
Metal (e)	179	152	194	256	266
Zambia					
Metal	*2 600	*2 900	*4 800	*3 900	...
Canada					
Metal	4 155	4 697	4 821	6 002	6 751
Oxides	209	----	632	549	476
Cuba					
Oxide, sinter & sulphide (b)	*1 200	*1 700	*2 300	*2 400	*2 800
USA					
Metal	1 820	1 624	2 028	1 902	2 024
Oxides	495	336	408	676	582
Brazil					
Metal	260	107	190	211	235
China					
Metal	767	135	171	216	222
Oxides	484	235	114	204	287

Exports of Cobalt

Country	1994	1995	1996	1997	1998
Hong Kong					
Metal (c)	1 034	910	850	1 154	704
Oxides (c)	522	1 010	1 989	1 819	216
Japan					
Metal	401	448	788	900	119
Oxides	41	73	65	88	134
Singapore					
Metal	81	201	313	454	678
of which, re-exports	76	200	292	453	627
Oxide	91	75	87	104	120
of which, re-exports	85	70	82	86	118
Taiwan					
Metal	118	29	202	445	445
Australia					
Metal	0	1	298	875	2 306
Oxides	14	57	132	289	32

Note(s):

- (a) Exports of cobalt are not separately recorded. Figures shown are BGS estimates based on known imports into certain countries
- (b) Co content
- (c) Re-exports
- (d) BGS estimates, based on known imports into certain countries
- (e) Includes metal and metal contained in sulphate

Imports of Cobalt

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	355	353	283	439	340
Belgium-Luxembourg					
Metal	(c) 1 080	(b) *1 000	(b) *1 000	(b) *1 500	(b) *1 900
Oxides	348	475	258	340	358
Czech Republic					
Metal	...	...	...	48	81
Denmark					
Metal	27	24	123	8	6
Finland					
Oxides	55	23	15	----	68
France					
Ore	...	49	30	76	1 639
Metal	1 453	1 643	1 256	2 023	1 768
Oxides	578	602	539	649	568
Germany					
Metal	2 220	2 360	2 508	2 127	2 481
Oxides	621	479	346	339	477
Greece					
Metal	30	32	39	...	57
Irish Republic					
Metal	249	140	149	191	265
Italy					
Metal	698	629	682	691	595
Oxides	655	734	669	735	914
Netherlands					
Metal	476	615	577	456	679
Oxides	212	257	244	452	337
Norway					
Metal	922	1 637	1 754	1 100	1 661
Oxides	912	1 018	696	408	631
Russia					
Metal	(b) *100	(b) *500	107	1	72
Oxide	...	...	16	56	27
Spain					
Metal	113	144	190	163	146
Oxides	135	437	540	783	901
Sweden					
Metal	741	1 085	816	669	1 004
Switzerland					
Metal	295	335	275	353	353
Turkey					
Metal	39	...	83	70	60
Oxides	34	39	46	80	53
United Kingdom					
Metal	3 501	3 458	3 875	3 980	3 953
Oxides	603	604	713	799	672
Nigeria					
Ore	...	...	5 005	...	...
South Africa					
Metal	1 202	580	195	629	840
Oxides	10	12	2	7	44
Canada					
Metal	950	1 246	856	1 224	1 325
Mexico					
Metal	53	36	52	97	158
Oxides	166	125	176	250	267
USA					
Metal	6 945	6 682	6 651	7 858	8 036
Oxide	768	808	892	1 149	1 205
Brazil					
Metal	418	358	*400	100	297
Oxide	74	94	246	243	208
Venezuela					
Oxides	55	104	*100	29	...

Imports of Cobalt

Country	1994	1995	1996	1997	1998
China					
Ore	2 142	4 691	4 913	494	2 787
Metal	435	1 052	428	572	600
Oxides	324	197	108	150	52
Hong Kong					
Metal	1 427	1 171	1 342	1 626	890
Oxide	771	309	153	333	161
India					
Metal (a)	322	330	361	408	...
Indonesia					
Metal	5	44	29	42	163
Oxides	54	48	69	3 628	79
Japan					
Metal	5 809	5 548	6 662	7 016	6 789
Oxide	620	808	1 119	1 753	1 752
Korea, Republic of					
Metal	717	796	573	626	561
Oxides	121	140	172	147	126
Malaysia					
Metal	1 689	300	200	*200	...
Oxides	67	64	40	*40	...
Saudi Arabia					
Oxides	19	537	142	192	74
Singapore					
Metal	542	257	355	619	780
Oxide	157	...	290	207	137
Taiwan					
Metal	474	517	790	879	1 010
Oxides	223	244	232	197	164
Thailand					
Metal	40	12	48	119	...
Oxide	35	48	52	55	...
Australia					
Metal	39	27	44	73	125
Oxide	77	71	75	96	79

Note(s) :-

- (a) Years ended 31 March following that stated
- (b) BGS estimates, based on known exports from certain countries
- (c) Excluding unwrought metal

Mine Production of Copper

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Albania	2 500	3 650	2 630	324	2 300
Armenia	*500	1 697	1 909	*1 500	*2 200
Bulgaria	75 500	77 400	84 800	75 500	*75 500
Finland	13 243	9 049	9 261	8 500	9 500
Georgia	2 300	5 800	6 900	*5 000	*5 000
Macedonia	*10 000	*10 000	8 484	*8 000	9 100
Norway	7 408	6 799	7 394	6 671	2 900
Poland	378 000	384 200	421 900	414 800	436 200
Portugal	130 255	129 726	107 774	106 580	114 537
Romania	26 034	24 520	24 434	22 638	18 871
Russia	573 300	525 900	523 000	505 000	*500 000
Spain	5 944	24 519	38 398	38 887	37 200
Sweden	79 384	83 603	71 659	86 610	73 685
Turkey	43 400	44 500	52 200	64 600	73 900
Yugoslavia, Federal Republic of	74 351	74 619	69 467	87 404	84 627
Botswana	22 780	20 461	23 299	19 820	22 124
Congo, Democratic Republic	40 642	34 958	40 165	39 651	34 994
Morocco	13 400	13 600	15 100	15 400	10 700
Namibia	26 555	22 530	14 904	17 879	6 500
South Africa	173 000	182 000	188 000	185 000	187 800
Zambia	384 400	341 900	339 700	331 200	*300 000
Zimbabwe	9 350	8 045	9 028	6 832	6 000
Canada	616 776	726 293	688 426	659 500	705 045
Cuba	*2 000	*2 000	*2 000	*1 000	*1 000
Honduras	*500	----	----	----	...
Mexico	305 487	339 347	327 978	338 933	344 756
USA	1 850 000	1 849 000	1 918 300	1 939 600	1 858 900
Argentina	...	...	...	30 421	170 273
Brazil	39 674	48 933	46 203	39 952	34 446
Chile	2 219 900	2 488 600	3 115 800	3 392 000	3 686 900
Colombia	2 581	2 747	2 222	1 145	*500
Peru	365 513	409 693	485 595	506 498	483 338
China	395 630	441 900	436 400	495 500	486 800
Cyprus	----	----	1 700	3 900	4 900
India	45 944	46 600	47 800	37 200	48 000
Indonesia	434 000	618 000	525 900	548 300	809 100
Iran	117 900	102 200	107 600	118 700	128 300
Japan	6 043	2 376	1 145	932	1 070
Kazakhstan	215 444	232 579	250 200	316 166	337 600
Korea, Dem. P.R. of	*12 000	*12 000	*12 000	*12 000	*12 000
Malaysia	25 267	20 751	20 219	18 821	17 900
Mongolia	120 160	121 900	121 000	130 000	128 500
Myanmar	5 025	5 282	*5 000	*6 000	3 200
Oman	4 300	----	----	----	----
Pakistan	...	4 400	*3 000	----	----
Philippines	112 075	102 637	62 297	48 637	48 124
Saudi Arabia	1 000	1 000	786	703	782
Uzbekistan	49 000	40 000	64 000	74 400	70 000
Australia	418 000	379 000	548 000	558 000	607 000
Papua New Guinea	206 329	212 737	186 665	111 515	151 556
World Total	9 700 000	10 200 000	11 000 000	11 400 000	12 200 000

Smelter Production of Copper

Country	1994	1995	1996	1997	1998
Belgium	147 600	151 900	157 300	142 500	138 400
Bulgaria	64 000	97 700	94 600	*95 000	*90 000
Finland	129 265	113 803	178 675	*180 000	...
Germany	292 200	308 100	385 400	349 100	338 600
Norway	39 516	31 146	31 248	32 900	31 700
Poland	377 800	389 700	393 900	432 000	422 700
Romania	23 449	23 355	32 565	25 024	18 708
Russia	514 300	525 000	549 600	*550 000	*540 000
Slovakia	10 000	9 600	14 000	*10 000	*10 000
Spain	157 900	139 900	248 500	288 900	*310 000
Sweden	81 159	83 289	92 600	94 922	90 793
Turkey	24 700	19 700	23 100	26 300	*25 000
Yugoslavia, Federal Republic of	74 600	72 800	106 600	105 500	121 900
Congo, Democratic Republic (a)	40 600	28 800	42 200	39 600	35 000
Namibia	29 781	29 799	20 705	23 802	8 739
South Africa	158 300	154 400	148 400	163 600	145 200
Zambia (a)	267 700	299 900	324 100	315 800	321 500
Zimbabwe	18 200	17 500	*18 000	*18 000	*10 000
Canada	515 088	522 761	529 346	529 525	553 133
Mexico	300 791	327 563	311 264	332 999	334 714
USA	1 311 108	1 250 000	1 300 000	1 440 000	1 490 000
Brazil	170 073	164 996	172 075	177 060	167 205
Chile	1 259 400	1 291 000	1 355 600	1 389 600	1 403 100
Peru	373 298	345 119	323 797	323 382	352 104
China	482 400	538 000	615 600	789 000	838 600
India	50 500	40 300	45 300	51 400	107 600
Iran (b)	100 440	92 613	102 038	*110 000	*110 000
Japan	1 029 700	1 043 275	1 122 571	1 214 172	1 171 657
Kazakhstan	276 100	262 800	250 195	315 960	351 300
Korea, Dem. P.R. of	*20 000	*20 000	*20 000	*20 000	*20 000
Korea, Republic of	135 200	153 900	157 400	151 300	280 800
Oman	31 800	34 200	23 300	22 800	24 400
Philippines	200 255	242 171	201 661	206 160	198 088
Uzbekistan	90 000	95 000	100 000	115 700	89 930
Australia	257 000	140 000	186 000	208 000	236 000
World Total	9 100 000	9 100 000	9 700 000	10 300 000	10 400 000

Note(s):

(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 20 March following that stated

Production of Refined Copper

tonnes

Country	1994	1995	1996	1997	1998
Austria	51 590	53 408	69 120	74 093	74 786
Belgium	375 200	376 000	386 000	373 000	368 000
Bulgaria	26 482	25 468	22 300	34 500	36 800
Finland	69 187	73 665	110 715	116 328	122 894
France	41 730	42 500	39 100	35 600	22 400
Germany	591 860	616 390	670 800	673 712	695 868
Italy	84 000	98 000	85 800	85 700	29 100
Norway	39 415	34 332	33 937	32 900	31 700
Poland	405 093	405 700	424 708	440 644	446 800
Romania	22 113	22 013	28 323	22 912	21 028
Russia	*500 000	*550 000	*600 000	*600 000	*600 000
Slovakia	23 000	21 400	28 100	30 300	24 100
Spain	188 307	164 213	263 989	292 000	304 300
Sweden	102 819	110 939	126 379	128 414	125 355
Turkey	82 700	100 300	100 712	114 600	91 800
United Kingdom	46 664	51 867	56 615	60 402	53 774
Yugoslavia, Federal Republic of	72 100	78 451	104 000	113 534	94 396
Congo, Democratic Republic	29 300	33 088	42 200	37 600	35 000
South Africa	129 600	131 700	116 000	126 500	123 100
Zambia	360 384	307 181	317 000	327 800	296 600
Zimbabwe	18 200	24 000	22 000	16 100	14 500
Canada	549 869	572 616	559 200	560 582	562 476
Mexico	228 500	258 200	240 500	280 500	336 800
USA	2 230 000	2 279 800	2 340 800	2 445 300	2 457 500
Argentina	*16 000	*16 000	*16 000	*16 000	*16 000
Brazil	170 073	164 996	172 075	177 060	167 205
Chile	1 277 400	1 491 500	1 748 200	2 116 600	2 334 900
Peru	265 413	295 143	338 061	384 085	407 346
China	736 106	1 079 700	1 120 500	1 179 400	1 211 300
India	49 034	39 569	39 303	65 900	134 000
Iran (a)	133 149	121 631	135 340	*140 000	*160 000
Japan	1 119 168	1 187 959	1 251 373	1 278 699	1 277 352
Kazakhstan	278 461	255 559	267 144	301 056	324 788
Korea, Dem. P.R. of	*30 000	*30 000	*30 000	*30 000	*30 000
Korea, Republic of	221 977	233 171	244 434	265 426	373 305
Oman	24 200	21 300	20 400	23 664	23 994
Philippines	154 713	158 109	155 800	146 600	152 400
Uzbekistan	90 000	95 000	100 000	115 000	75 000
Australia	356 000	286 000	331 000	292 000	*305 000
World Total	11 200 000	11 900 000	12 800 000	13 600 000	14 000 000

Note(s):

(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, Cyprus, Egypt and Myanmar produce refined copper

(a) Years ended 20 March following that stated

Exports of Copper

Country	1994	1995	1996	1997	1998
Albania					
Scrap (f)	...	*300	*1 700	*4 800	...
Armenia					
Scrap (f)	*600	*500	*500	*200	*1 100
Austria					
Unwrought	59 859	77 921	73 521	97 477	104 976
Unwrought alloys	5 134	5 464	6 312	2 330	1 746
Scrap	21 289	18 150	27 171	23 045	23 901
Belarus					
Unwrought (f)	*7 400	*2 000	*500	*500	----
Scrap (f)	*5 200	*2 700	*500	*3 100	*1 600
Belgium-Luxembourg					
Unwrought, unrefined	19 050	29 613	18 352	2 943	1 583
Unwrought, refined	151 677	171 864	129 320	146 106	144 764
Unwrought alloys	11 636	9 443	8 141	7 972	12 518
Scrap	56 609	56 744	60 157	92 842	69 907
Bosnia & Herzegovina					
Scrap (f)	...	*800	*4 000	*3 600	...
Bulgaria					
Ore	107 100	72 103	86 996	94 150	...
Unwrought	(f) *81 000	79 221	...	109 782	(f) *125 000
Scrap	6 100	781	2 047	1 838	(f) *3 100
Croatia					
Scrap	3 300	5 505	5 298	5 810	5 622
Czech Republic					
Unwrought	7 705	4 900	4 600	4 586	3 188
Scrap	25 600	29 200	26 600	26 574	28 055
Denmark					
Scrap	41 510	52 169	31 610	30 743	31 986
Estonia					
Unwrought	(f) *900	1 267	(f) *1 400	(f) 100	...
Scrap	(f) *3 100	5 227	4 436	4 869	(f) *4 000
Finland					
Unwrought, unrefined	27 182	13 458	35 102	39 275	32 951
Unwrought, refined	20 649	24 873	40 703	49 261	39 185
Unwrought alloys	405	678	960	1 388	1 004
Scrap	16 297	22 951	28 611	37 445	20 932
France					
Ore	2	2 194	1 429	1 673	223
Matte & cement	5 752	4 762	226	555	1 023
Unwrought, unrefined	2 237	3 216	505	97	31
Unwrought, refined	19 514	12 640	16 065	19 931	38 379
Unwrought alloys	8 707	11 222	7 283	10 169	12 754
Scrap	160 357	141 999	126 414	132 939	122 322
Georgia					
Scrap (f)	...	*500	*600	*1 700	*2 800
Germany					
Ore	67	22 031	14 898	24 727	11 896
Matte & cement	795	957	776	1 087	19
Unwrought, unrefined	1 105	556	532	4 171	236
Unwrought, refined	152 393	135 134	246 759	146 752	109 741
Unwrought alloys	22 344	23 410	21 905	25 952	26 457
Scrap	214 076	263 687	248 568	335 664	306 024
Greece					
Scrap	7 014	7 512	6 372	10 859	4 655
Hungary					
Unwrought	1 800	500	305	1 502	485
Scrap	17 834	22 125	13 305	13 268	14 183
Iceland					
Scrap	500	600	400	300	341
Irish Republic					
Scrap	10 101	9 795	9 202	11 043	9 715
Italy					
Matte & cement	131	2 073	1 794	59	1 114
Unwrought	7 571	12 668	9 676	5 215	3 438
Unwrought alloys	8 383	10 100	9 275	13 125	14 436
Scrap	34 664	43 829	46 468	57 488	50 519

Exports of Copper

tonnes

Country	1994	1995	1996	1997	1998
Latvia					
Scrap (c) (f)	*11 600	*18 000	*22 600	*17 200	*9 100
Lithuania					
Unwrought	(c) (f) *5 100	955	585	126	444
Scrap	(c) (f) *8 600	-----	18 177	12 301	9 741
Macedonia					
Unwrought (f)	*24 900	*14 600	*2 400	*1 000	*200
Moldova					
Scrap	(f) *4 700	11 515	2 575	1 820	2 381
Netherlands					
Matte & cement	1 314	668	399	...	2 142
Unwrought	13 722	15 344	12 938	11 173	9 757
Scrap	111 298	135 850	104 176	106 125	74 457
Norway					
Ore	32 413	32 970	35 024	32 485	14 825
Unwrought	40 002	33 567	33 261	33 273	30 642
Unwrought alloys	1 689	1 930	1 922	1 808	1 589
Scrap	8 800	12 535	10 998	13 034	9 229
Poland					
Ores & concentrates	1 455	3	8	15 808	...
Matte & cement	54	944	...	...	...
Unwrought	254 672	193 926	200 005	209 000	...
Unwrought alloys	9 760	7 763	7 978	11 452	...
Scrap	1 902	602	602	3 257	...
Portugal					
Ore	555 026	517 892	492 279	465 368	447 370
Scrap	11 500	9 300	9 222	9 044	9 892
Romania					
Matte & cement	...	...	...	2 434	2 015
Unwrought	5 685	6 504	13 254	15 141	8 394
Scrap	-----	16	107	206	17 856
Russia					
Ore	73 809	141 196	56 779	34 693	39 797
Matte & cement	(f) *2 800	...	2 000	4	...
Unwrought	455 406	471 061	562 772	571 451	550 900
Scrap	(f) *143 600	(f) *207 400	(f) *242 700	355 359	356 479
Slovakia					
Ores & concentrates	...	...	3 500	10 300	-----
Unwrought	8 400	5 700	1 700	900	1 180
Scrap	(f) *2 700	(f) *3 000	(f) *2 600	(f) *4 500	4 544
Spain					
Ore	17 574	43 185	81 981	54 205	59 880
Unwrought, unrefined	34 708	27 569	27 228	33 514	27 464
Unwrought, refined	34 876	15 484	86 371	106 791	103 469
Unwrought alloys	4 184	4 474	3 238	4 714	4 706
Scrap	32 691	37 148	39 750	46 328	31 089
Sweden					
Ore	68 271	58 040	42 150	60 147	15 783
Unwrought, unrefined	1 298	6 084	-----	-----	-----
Unwrought, refined	12 783	9 750	26 625	18 637	19 739
Unwrought alloys	5 187	4 910	5 951	11 375	8 841
Scrap	20 517	18 033	17 996	18 112	14 254
Switzerland					
Unwrought	5 442	4 492	4 846	6 242	6 556
Scrap	37 760	42 761	43 626	53 012	42 885
Turkey					
Ore	41 233	83 834	121 985	180 669	154 149
Unwrought	5 106	3 797	10 018	8 139	7 630
Ukraine					
Unwrought	(f) *9 700	(f) *5 200	7 778	5 271	11 140
Scrap	5 128	(f) *13 700	(f) *25 700	(f) *85 600	(f) *80 600
United Kingdom					
Ore & matte	416	726	1 072	10 163	8 559
Unwrought	20 363	5 848	6 767	5 852	9 912
Unwrought alloys	24 575	25 617	25 384	24 053	28 861
Scrap	120 566	113 567	115 731	111 722	108 481
Yugoslavia, Federal Republic of					
Unwrought	19 500	...	66 808	72 710	97 915

Exports of Copper

Country	1994	1995	1996	1997	1998
Algeria					
Scrap	1 900	*1 500	9 337	9 338	...
Botswana					
Matte & cement (b)	20 200	17 900	23 400	18 100	...
Congo, Democratic Republic					
Unwrought, unrefined (e)	*35 000	*20 000	*20 000	*31 000	...
Unwrought, refined	13 700	4 500	17 200	...	...
Morocco					
Ore	41 831	40 080	40 650	40 827	...
Matte & cement	1 819	1 561	1 894	2 744	...
Scrap	6 600	7 158	5 527	7 062	...
Namibia					
Unwrought	26 226	25 074	18 306	21 360	7 750
South Africa					
Ores & concentrates (b)	4 866	7 627	...	8 617	5 613
Unwrought	76 361	71 598	69 478	68 669	80 877
Scrap	(f) *24 800	(f) *26 400	(f) *42 400	26 398	47 645
Tunisia					
Scrap	3 847	4 013	2 168	3 919	...
Uganda					
Unwrought	1 546	1 286	----	140	220
Scrap	...	...	2 222	224	118
Zambia					
Unwrought, refined	360 657	291 869	276 079	303 784	...
Zimbabwe					
Unwrought	10 314	7 498	7 566	7 955	10 036
Canada					
Ores & concentrates (b)	218 347	260 977	386 200	492 534	347 636
Matte & cement (b)	19 205	13 480	18 315	17 181	19 505
Unwrought	388 843	471 897	466 096	457 437	440 497
Scrap	110 878	120 509	113 559	126 177	101 346
Cuba					
Concentrates (f)	...	...	*8 300	*12 500	*9 400
Scrap	(a) 1 864	(f) *4 400	(f) *4 900	(f) *3 200	(f) *4 500
Mexico					
Concentrates	8 083	31 653	49 685	44 534	68 722
Matte & cement	19 023	5 238	2 936	2 475	15 663
Unwrought	138 304	186 731	153 704	196 678	237 005
Scrap	47 665	82 363	73 756	96 387	58 423
USA					
Ores & concentrates (b)	250 456	228 092	185 219	124 186	36 497
Matte & cement	1 782	6 972	14 999	32 075	10 556
Unwrought, unrefined	13 311	29 521	22 973	31 643	28 812
Unwrought, refined	157 744	217 419	178 167	93 342	85 618
Unwrought alloys	18 013	16 246	19 017	24 725	20 064
Scrap	360 297	552 985	400 413	386 286	310 763
Brazil					
Unwrought, refined	55 906	58 423	41 819	35 987	7 003
Chile					
Ores & concentrates (b)	687 700	815 200	1 123 400	1 107 100	1 194 400
Unwrought, unrefined	198 100	178 200	226 900	158 400	157 400
Unwrought, refined	1 193 300	1 400 600	1 603 600	2 031 700	2 229 600
Scrap	2 400	1 600	...	...	...
Colombia					
Ore	3 003	5 355	13 762	9 786	16 671
Scrap	4 231	6 949	6 142	5 906	7 278
Peru					
Ore	(f) *195 700	187 477	201 684	295 679	250 747
Unwrought, unrefined	98 023	89 390	83 247	56 790	44 674
Unwrought, refined	218 260	251 857	320 102	361 477	347 575
Scrap	2 186	3 076	2 839	3 515	3 066
Venezuela					
Scrap	13 911	15 484	12 696	8 638	...

Exports of Copper

tonnes

Country	1994	1995	1996	1997	1998
China					
Unwrought	16 306	43 047	53 003	84 265	121 416
Unwrought, unrefined	801	3 746	11 600	5 661	12 972
Unwrought, refined	10 673	34 229	39 791	77 869	106 108
Unwrought alloys	4 832	5 072	1 612	735	2 336
Scrap	15 860	19 032	8 024	11 934	9 584
Cyprus					
Unwrought	-----	-----	1 491	4 048	4 938
Scrap	399 394	33 336	20 366	2 046	3 824
of which, re-exports	380 644	19 916	20 366	1 059	3 788
Hong Kong					
Unwrought	20 036	32 786	54 598	59 835	76 815
of which, re-exports	19 970	32 642	54 296	59 694	76 675
Scrap	167 528	306 390	293 945	313 847	211 752
of which, re-exports	89 626	205 673	200 620	242 233	145 158
India					
Ores & concentrates (g)	6 599	3 475	-----	-----	...
Indonesia					
Ores & concentrates	1 075 634	1 412 057	1 860 070	1 716 828	2 014 754
Unwrought	4 088	3 162	1 656	5 519	5 286
Scrap	256	1 573	2 504	4 329	9 772
Iran					
Ores & concentrates	(h) 42 408	(h) 11 200	(f) *100	(f) *1 000	(f) *15 000
Unwrought (f)	*18 900	*4 700	*4 000	*8 400	*23 200
Scrap	(f) *1 300	(h) 5 967	(f) *3 500	(f) *2 600	(f) *300
Israel					
Scrap	9 013	(f) *10 600	(f) *11 700	11 547	(f) *12 400
Japan					
Unwrought, unrefined	4 468	4 495	11 267	23 951	34 448
Unwrought, refined	114 436	158 727	164 606	157 696	292 907
Unwrought alloys	5 939	7 605	*9 000	11 413	18 215
Scrap	39 868	51 887	60 136	79 940	75 492
Jordan					
Scrap	2 157	2 906	3 440	2 804	...
Kazakhstan					
Ores & concentrates	...	2 391	20 339	11 097	0
Unwrought	122 489	216 603	266 626	306 033	...
Scrap (f)	...	*37 400	*33 200	*32 500	*28 700
Korea, Republic of					
Matte & cement	1 118	470	1 778	1 997	945
Unwrought	7 254	4 592	8 643	41 183	298 918
Scrap	8 005	14 369	13 210	27 761	24 905
Kyrgyzstan					
Unwrought (f)	*1 300	*5 600	*5 300	*5 500	*4 300
Scrap	(f) *15 400	17 485	9 262	11 200	5 500
Malaysia					
Ore	96 801	88 201	86 969	...	...
Scrap	50 780	38 696	35 000	...	...
Mongolia					
Ores & concentrates	...	446 200	473 600	479 700	461 900
Scrap	...	620	442	508	119
Oman					
Unwrought	23 064	26 000	39 700	23 100	...
Scrap	79 600	...	...	58 623	...
Pakistan					
Scrap (d)	35 341	...	1 544	23 192	2 028
Philippines					
Ores & concentrates	347 414	314 088	178 678	120 811	...
Unwrought	145 464	140 330	143 330	118 925	...
Scrap	9 734	16 076	21 766	32 782	...
Saudi Arabia					
Unwrought	840	2 200	980	...	...
Scrap	1 475	...	3 976	16 694	...
Singapore					
Unwrought	97 835	199 112	197 161	201 835	105 611
of which, re-exports	96 354	197 224	195 067	200 556	104 910
Scrap	47 892	59 111	65 453	64 963	70 668

Exports of Copper

Country	1994	1995	1996	1997	1998
Taiwan					
Matte & cement	1 720	4 734	...	2 261	2 005
Unwrought	6 942	6 870	5 137	5 494	5 073
Scrap	27 785	30 202	21 888	33 146	26 531
Thailand					
Scrap	3 731	7 959	5 669	18 688	...
Uzbekistan					
Unwrought (f)	*2 700	*6 000	*27 400	*25 000	...
Australia					
Ores & concentrates	435 300	390 606	788 040	979 965	1 234 500
Matte & cement	3 014	240	30	----	----
Unwrought, unrefined	4 711	17	40	54	225
Unwrought, refined	176 712	106 045	117 285	116 050	126 804
Unwrought alloys	1 922	1 490	977	834	1 493
Scrap	21 895	34 066	26 448	30 708	29 157
New Zealand					
Scrap (d)	1 402	2 482	2 415	2 165	1 581
Papua New Guinea					
Ores & concentrates (b)	206 368	227 856	170 216	86 791	187 249

Note(s):

- (1) In this table the term 'unwrought' copper corresponds to item 682.1 of the Standard International Trade Classification (Revision 3) and includes both unrefined (including blister) and refined copper
- (2) The term 'unwrought' as used here includes alloys unless these are separately specified. The term 'scrap' includes scrap alloys
- (a) Imports into the Netherlands
- (b) Cu content
- (c) Including re-exports
- (d) Years ended 30 June of that stated
- (e) Including leach cathodes
- (f) BGS estimates, based on known imports into certain countries
- (g) Years ended 31 March following that stated
- (h) Years ended 20 March following that stated

Imports of Copper

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Unwrought, unrefined	6 626	3 434	7 962	3 468	3 710
Unwrought, refined	31 862	34 275	34 438	39 497	35 536
Unwrought alloys	2 350	7 336	5 993	3 138	3 873
Scrap	62 053	66 519	55 765	90 668	82 586
Belgium-Luxembourg					
Ore	1 643	10 615	17 421	2 888	20
Unwrought, unrefined	147 603	130 563	123 023	101 160	94 045
Unwrought, refined	169 038	106 247	75 526	102 245	100 955
Unwrought alloys	6 266	7 070	6 330	4 690	5 979
Scrap	196 638	202 849	176 683	186 786	233 722
Bulgaria					
Ores & concentrates	79 800	83 884	92 674	86 580	...
Unwrought	3 100	2 000	3 800	4 000	...
Czech Republic					
Unwrought	10 003	13 500	19 200	12 142	14 352
Scrap	4 200	7 400	2 000	2 711	2 828
Denmark					
Unwrought	1 885	1 892	2 057	2 432	2 403
Scrap	13 363	10 351	8 243	6 509	14 707
Finland					
Ore	292 784	293 676	494 217	464 435	544 111
Unwrought, refined	34 262	39 497	20 503	21 206	14 223
Unwrought alloys	4 120	4 304	4 378	5 546	5 086
Scrap	9 790	20 228	28 461	34 309	15 046
France					
Matte & cement	1 530	2 974	1 101	2 755	1 119
Unwrought, unrefined	5 993	4 214	9 066	4 785	4 644
Unwrought, refined	462 694	494 447	455 948	527 980	585 477
Unwrought alloys	10 524	17 607	16 446	20 011	15 416
Scrap	77 228	90 991	90 091	87 556	100 868
Germany					
Ore	652 833	663 299	689 055	640 856	605 691
Matte & cement	12 728	9 571	12 002	20 230	7 915
Unwrought, unrefined	84 797	49 644	81 345	62 636	45 406
Unwrought, refined	523 105	546 899	450 441	526 854	578 913
Unwrought alloys	44 316	45 100	42 407	39 486	41 963
Scrap	411 367	442 442	427 249	568 738	610 197
Greece					
Unwrought	61 585	79 064	89 723	96 933	103 592
Unwrought alloys	746	894	464	815	1 691
Scrap	293	1 322	1 631	4 088	651
Hungary					
Unwrought	18 872	14 400	12 400	15 967	...
Scrap	2 049	4 001	2 871	2 754	3 743
Irish Republic					
Scrap	999	468	300	1 080	646
Italy					
Unwrought, unrefined	6 314	14 290	25 113	5 579	4 749
Unwrought, refined	396 630	405 950	437 613	450 196	564 851
Unwrought alloys	26 367	31 374	27 100	20 829	22 320
Scrap	237 565	205 979	228 079	259 546	254 408
Lithuania					
Scrap	*22 000	28 100	15 300	6 409	2 499
Moldova					
Scrap	767	2 843	1 318	1 298	1 605
Netherlands					
Unwrought	33 871	35 788	37 515	44 133	78 016
Unwrought alloys	843	1 318	1 547	3 028	3 245
Scrap	103 876	110 571	95 804	101 936	92 486
Norway					
Matte & cement	*32 400	*30 000	*23 000	*25 000	...
Unwrought	2 632	3 265	3 155	4 422	3 713
Scrap	5 838	4 743	5 777	5 892	5 234
Poland					
Ores & concentrates	10	14 790	10 807	...	...
Unwrought	1 222	3 151	1 686	2 251	...
Scrap	576	1 162	1 376	1 497	...

Imports of Copper

Country	1994	1995	1996	1997	1998
Portugal					
Unwrought	6 227	200	4 087	3 955	2 532
Scrap	400	100	710	902	2 282
Romania					
Ores & concentrates	----	18 885	35 902	22 584	10 964
Unwrought	281	2 101	4 628	754	...
Russia					
Ore	76 778	202 032	214 673	143 159	62 843
Unwrought	...	...	3 375	7 360	6 165
Scrap	*500	1 500	2 207	3 933	2 347
Slovakia					
Ores & concentrates	...	...	14 000	16 600	24 600
Unwrought, refined	6 235	5 188	4 788	7 769	...
Unwrought alloys	1 753	1 688	1 112	1 319	...
Spain					
Ore	520 196	442 689	736 576	888 487	935 942
Unwrought, unrefined	23 636	30 916	13 958	2 533	1 511
Unwrought, refined	19 290	26 535	21 226	12 431	29 069
Unwrought alloys	5 713	6 742	6 233	10 274	11 596
Scrap	43 201	58 104	59 273	67 737	72 145
Sweden					
Ore	38 109	72 264	85 258	67 018	53 966
Unwrought	53 140	66 143	45 300	49 101	70 682
Unwrought alloys	4 839	3 317	4 914	4 926	4 471
Scrap	31 769	33 879	29 025	32 096	41 339
Switzerland					
Unwrought	6 237	6 418	6 223	7 770	7 902
Unwrought alloys	1 753	2 066	1 112	1 319	1 482
Scrap	11 515	13 243	14 493	19 055	24 314
Turkey					
Ore	10	11 072	9 728	35 951	8 219
Unwrought	58 900	63 676	79 546	112 331	135 874
Scrap	1 630	7 539	20 536	17 443	7 358
United Kingdom					
Unwrought, unrefined	9 525	6 469	6 618	2 262	221
Unwrought, refined	259 132	268 310	328 106	365 895	348 708
Unwrought alloys	1 645	3 106	3 601	3 353	5 374
Scrap	27 039	40 943	47 366	54 856	53 047
Yugoslavia, Federal Republic of					
Ores & concentrates	...	...	189 580	184 399	138 527
Unwrought	*2 800	*2 600	10 200	6 459	4 627
Algeria					
Unwrought	1 217	1 300	2 055	55	...
Namibia					
Ores & concentrates (a)	4 516	3 903	1 029	9 628	3 199
Nigeria					
Matte & cement	...	...	6 073	...	...
South Africa					
Ores & concentrates	4 710	94	22 365	5 255	455
Matte & cement	3 018	----	68	...	...
Unwrought	1 191	4 237	2 281	1 570	2 470
Scrap	4 410	5 600	4 922	4 837	4 796
Tunisia					
Unwrought	1 551	2 054	3 062	2 265	...
Scrap	200	800	200	105	...
Zambia					
Ores & concentrates (a)	13 786	8 882	4 599	4 560	...
Canada					
Ores & concentrates (a)	180 882	148 638	134 825	134 121	123 650
Matte & cement	747	4 996	11 553	9 211	10 700
Unwrought	34 083	59 402	46 206	49 738	38 214
Unwrought alloys	2 770	8 556	5 364	6 892	7 624
Scrap	98 452	167 236	153 322	172 870	113 032

Imports of Copper

tonnes

Country	1994	1995	1996	1997	1998
Mexico					
Ores & concentrates	44 301	22 004	16 167	108 388	100 661
Unwrought	40 052	19 181	47 690	66 387	184 581
Scrap	6 147	15 253	15 157	16 100	22 331
USA					
Ores & concentrates (a)	82 612	129 663	62 718	45 829	217 936
Matte & cement (a)	79	907	754	1 111	1 036
Unwrought, unrefined	119 014	152 036	106 661	155 384	180 184
Unwrought, refined	467 187	436 305	621 903	646 058	720 383
Unwrought alloys	16 461	14 575	17 415	22 122	17 510
Scrap	194 413	221 617	212 370	211 621	166 100
Argentina					
Unwrought, refined	40 224	31 668	33 594	36 078	40 682
Brazil					
Ores & concentrates	433 968	394 034	379 668	413 411	412 383
Unwrought	67 223	91 329	102 710	116 777	136 583
Scrap	7 491	21 145	4 984	2 066	1 131
Colombia					
Unwrought	697	1 246	603	535	1 033
Venezuela					
Unwrought, refined	14 123	22 849	16 711	17 304	...
Unwrought alloys	169	333	464	277	...
China					
Ores & concentrates	248 708	484 280	824 810	937 776	1 182 867
Matte & cement	6 307	5 676	4 488	1 020	33
Unwrought, unrefined	42 742	79 778	133 010	111 070	95 858
Unwrought, refined	72 270	102 056	149 699	88 345	162 650
Unwrought alloys	6 395	5 671	8 232	11 410	9 892
Scrap	773 856	1 188 926	710 983	796 841	956 644
Hong Kong					
Unwrought, unrefined	----	----	1 317	8 218	3 337
Unwrought, refined	23 055	50 903	89 005	137 654	267 964
Unwrought alloys	211	360	1 224	948	1 573
Scrap	158 762	340 704	355 475	332 420	188 490
India					
Ore (b)	390	19 148	60 056	87 890	...
Unwrought (b)	84 761	83 663	157 914	138 025	...
Scrap (b)	85 070	110 931	137 263	145 197	...
Indonesia					
Unwrought	87 995	86 932	105 233	58 997	68 284
Unwrought alloys	2 923	2 026	2 152	1 795	2 744
Scrap	2 629	2 158	1 188	2 755	1 406
Japan					
Ores & concentrates	3 457 054	3 825 212	3 840 935	3 769 017	3 975 398
Matte & cement	1 945	3 294	7 065	12 283	1 736
Unwrought	402 723	410 620	366 103	358 711	275 378
Unwrought alloys	9 662	9 195	6 026	6 342	3 237
Scrap	156 367	153 102	145 783	193 549	162 798
Kazakhstan					
Ores & concentrates	...	170 729	60 774	12 313	15 024
Korea, Republic of					
Ore	426 421	468 714	347 994	518 112	973 450
Matte & cement	2 448	----	0	18	241
Unwrought, unrefined	87 118	79 748	84 064	108 823	62 649
Unwrought, refined	263 385	326 056	305 141	395 659	487 358
Unwrought alloys	1 280	1 004	1 576	804	811
Scrap	123 278	151 409	111 575	119 921	88 947
Kuwait					
Unwrought	10 673	9 223	14 651	13 221	...
Kyrgyzstan					
Scrap	*5 000	5 080	1 781	*2 000	...
Malaysia					
Unwrought	110 244	116 384	145 700	*163 000	...
Oman					
Ores & concentrates	103 673	94 909	...	177 795	...

Imports of Copper

Country	1994	1995	1996	1997	1998
Pakistan					
Unwrought	5 456	10 657	11 697	...	...
Scrap (c)	5 235	1 932	4 722	2 776	99
Philippines					
Concentrates	420 862	499 073	509 068	496 324	...
Unwrought	28 407	16 880	18 669	15 798	...
Scrap	----	77	479	549	...
Saudi Arabia					
Unwrought	88 749	85 072	67 597	38 679	77 766
Singapore					
Unwrought	93 805	261 525	196 244	213 115	199 662
Scrap	16 178	21 770	27 437	28 221	26 821
Taiwan					
Unwrought	548 822	567 233	546 140	589 980	585 810
Unwrought alloys	10 029	12 400	11 084	10 198	13 902
Scrap	15 424	26 150	35 052	37 498	41 447
Thailand					
Unwrought	177 013	154 091	161 159	157 363	...
Scrap	1 686	3 007	3 342	3 686	...
Australia					
Ores & concentrates	43 315	10 018	2	62	139
Matte & cement	1	104	21 955	3 196	3 691
Unwrought	12 186	29 370	17 010	7 687	524
Unwrought alloys	1 863	1 772	1 926	18 467	2 606
Scrap	4 359	18 909	2 918	4 022	4 318
New Zealand					
Unwrought (c)	6 090	10 924	...	9 749	8 223
Scrap (c)	2 797	4 627	...	2 318	2 906

Note(s) :-

- (1) In this table the term 'unwrought' copper corresponds to item 682.1 of the Standard International Trade Classification (Revision 3) and includes both unrefined (including blister) and refined copper
 - (2) The term 'unwrought' as used here includes alloys unless these are separately specified. The term 'scrap' includes scrap alloys
- (a) Cu content
(b) Years ended 31 March following that stated
(c) Years ended 30 June of that stated

Production of Diamond

carats

Country	1994	1995	1996	1997	1998
Russia	16 300 000	16 900 000	19 200 000	19 400 000	19 800 000
Angola	303 867	671 394	917 419	1 314 182	2 764 858
Botswana	15 550 000	16 802 438	17 707 000	20 111 000	19 772 000
Central African Republic	531 926	477 698	487 360	486 787	419 967
Congo, Democratic Republic	16 259 000	22 024 000	22 240 000	20 977 000	24 463 000
Ghana	722 800	622 700	714 300	829 524	805 742
Guinea (a)	381 464	364 841	200 664	205 000	*205 000
Ivory Coast	84 400	75 300	301 591	306 665	*307 000
Liberia	*100 000	*150 000	*150 000	*150 000	*150 000
Namibia	1 312 348	1 381 757	1 402 129	1 419 530	1 467 272
Sierra Leone	255 000	213 600	270 092	70 000	15 818
South Africa	10 853 653	9 682 744	9 954 668	10 041 380	10 755 765
Swaziland	76 100	75 000	75 000	-----	-----
Tanzania	15 668	49 538	115 438	122 522	...
Zimbabwe	173 588	204 416	437 266	421 307	28 732
Canada	-----	-----	-----	-----	278 431
Brazil	*300 000	676 269	*200 000	*100 000	*100 000
Guyana	37 957	55 498	49 000	35 612	33 481
Venezuela	582 522	296 116	172 016	248 208	*250 000
China	*1 080 000	*1 130 000	*1 130 000	*1 130 000	*1 130 000
India (b)	25 518	29 931	31 836	30 994	34 579
Indonesia	*28 000	*29 000	*29 000	*30 000	...
Australia	43 789 000	40 692 000	41 993 000	40 175 000	40 843 000
World Total	108 800 000	112 600 000	117 800 000	117 600 000	123 800 000

Note(s):

(1) This table does not show production of synthetic diamond

(a) Including artisanal production

(b) Years ended 31 March following that stated

Exports of Diamond

Country	1994	1995	1996	1997	1998
Austria					
Gem, cut	95 000	5 259	40 476	5 614	3 132
Industrial	275 000	2 097	1 543	2 229	1 308
Dust	520 000	2 765 000	1 100 000	815 000	746 960
Belgium-Luxembourg					
Unsorted	22 794	2 000	37 000	369 000	...
Gem, rough	792 270 070	99 135 000	115 919 000	132 880 000	...
Gem, cut	5 651 790	7 641 000	7 230 000	7 723 000	...
Industrial	7 682 865	10 677 000	13 915 000	28 104 000	19 000 000
Dust	23 813 690	35 000 000	51 615 000	67 265 000	...
France					
Gem, cut	35 828	26 288	41 232	54 494	...
Industrial	26 843	...	3 353	3 277	...
Dust	22 233 995	3 883 870	...	3 708 955	...
Germany					
Gem, rough	11 539	9 588	2 890	181	72
Gem, cut	118 080	231 181	147 309	108 063	263 058
Industrial	1 263 256	91 318	63 783	74 078	70 582
Dust	68 190 000	76 790 000	89 060 000	46 710 000	48 145 000
Irish Republic					
Industrial	16 175 000	5 010 000	11 775 000	59 785 000	23 745 000
Italy					
Gem, cut	£2 089 000	£2 344 000	£5 251 000	£4 946 000	...
Industrial	£392 000	£950 000	£448 000	£427 000	...
Dust	3 930 000	...	...	...	...
Netherlands					
Unsorted	£1 718 000	£2 895 000	£2 231 000	£2 555 000	£2 191 000
Gem, rough	£607 000	£122 000	£323 000	£6 000	£27 000
Gem, cut	£9 688 000	£6 514 000	£6 569 000	£6 361 000	£6 443 000
Industrial	£5 098 000	£1 884 000	£2 053 000	£1 273 000	£1 777 000
Poland					
Industrial	10 000	...	...	55 000	...
Portugal					
Gem, rough	£3 395 000	£2 344 000	£512 000	£16 487 000	£5 610 000
Gem, cut	£50 013 000	£38 708 000	£34 258 000	£34 744 000	£15 694 000
Romania	688 142	1 651 790	4 064 080	879 100	...
Russia	26 400 000	40 400 000	...	...	...
Spain					
Gem, cut	£202 000	£216 000	£708 000	£874 000	£1 032 000
Industrial	£15 000	£13 000	£425 000	£351 000	£777 000
Switzerland					
Unsorted	30 000	15 000	75 000	60 000	65 000
Gem, rough	4 575 000	3 570 000	3 555 000	2 440 000	1 005 000
Gem, cut	490 000	1 160 000	1 380 000	1 070 000	300 000
Industrial	1 345 000	185 000	13 000	375 000	1 415 000
Dust	39 265 000	44 750 000	60 770 000	72 285 000	76 720 000
United Kingdom					
Unsorted	4 270 735	4 963 053	13 236 583	11 117 190	5 792 934
Gem, rough	33 854 846	51 436 741	63 333 558	69 757 480	65 641 655
Gem, cut	1 703 400	212 168	1 441 476	2 667 551	1 741 618
Industrial	8 413 438	12 131 021	25 737 087	25 772 889	34 401 291
Dust	29 582 380	34 254 440	41 146 270	73 505 020	58 335 755
Angola	303 867	671 394	917 419	1 314 182	2 764 858
Botswana					
Unsorted	...	...	...	21 669 025	...
Gem, cut	...	...	...	7 435	...
Industrial	...	...	...	43 850	...
Central African Republic					
Gem	436 035	352 015	333 782	340 126	278 873
Industrial	95 957	125 683	153 578	146 661	141 094
Guinea	381 464	364 841	200 664	280 000	...
Mauritius					
Gem, rough	£196 000	£760 000	£192 000	£122 000	...
Gem, cut	£16 062 000	£15 584 000	£16 841 000	£16 792 000	...
Namibia	1 130 768	1 569 228	1 486 457	1 475 871	1 188 617
Sierra Leone	220 800	213 600	270 100	...	...

Exports of Diamond

carats

Country	1994	1995	1996	1997	1998
South Africa					
Unsorted, gem & industrial	...	...	...	£775 033 000	£735 383 000
Dust	...	...	...	£12 559 000	£15 396 000
Tanzania	...	...	£10 050 000	£10 160 000	£7 310 000
Tunisia					
Industrial	125 000	...	135 000	120 000	...
Canada					
Gem, cut	43 784	42 325	47 082	37 751	50 243
of which, re-exports	25 471	28 331	19 847	27 714	47 744
Industrial	62 115	41 896	82 104	51 164	21 262
of which, re-exports	42 732	18 437	21 834	43 183	18 068
Dust	1 032 864	545 341	144 333	214 006	105 948
of which, re-exports	835 589	374 217	36 842	130 296	12 097
USA					
Unsorted	299 897	190 805	161 880	392 257	235 438
of which, re-exports	223 698	141 369	92 190	324 721	185 942
Gem, rough	1 357 281	1 045 173	1 032 812	901 327	904 523
of which, re-exports	1 285 816	925 268	993 896	874 585	879 790
Gem, cut	1 317 499	2 140 525	1 929 108	2 562 779	1 933 546
of which, re-exports	1 087 150	1 982 098	1 853 409	2 475 724	1 775 996
Industrial	4 789 250	5 794 434	3 927 204	4 003 704	5 007 158
of which, re-exports	4 132 599	5 003 881	2 958 963	3 260 520	3 876 268
Dust	152 752 166	101 384 141	107 751 472	128 697 795	113 384 733
of which, re-exports	3 117 046	2 554 897	3 064 608	2 616 355	3 590 767
Brazil					
Gem, rough	30 479	47 431	...	...	...
Gem, cut	88 903	59 289	...	...	...
China					
Unsorted	50 305	25 000	5 395	34 445	20 140
Gem, rough	124 630	180 000	166 760	157 430	181 220
Gem, cut	260 270	320 000	433 395	712 770	741 365
Industrial	9 589 490	5 420 000	3 185 000	13 611 550	8 696 265
Dust	9 942 670	19 990 000	16 459 475	11 032 415	11 590 400
Hong Kong					
Unsorted (b)	981 598	1 104 799	1 223 601	2 189 423	681 469
Gem, rough (b)	1 063 405	2 063 682	1 689 051	1 679 345	2 209 337
Gem, cut	2 017 780	2 069 739	2 202 611	2 593 636	2 875 100
of which, re-exports	1 997 075	2 011 831	2 166 337	2 568 985	2 860 234
Industrial (b)	2 199 571	2 438 035	1 322 837	1 375 890	765 292
India					
Gem, rough (a) (b)	207 950	585 741	1 272 190	961 399	...
Gem, cut (a)	15 316 600	18 584 357	16 218 345	10 785 173	...
Dust (a)	£3 870 000	£6 292 000	£8 628 000	£2 288 000	...
Israel					
Gem, rough	£342 525 000	£493 000 000	£607 964 000	£640 967 000	...
Gem, cut	£2 851 372 000	£3 111 298 000	£3 363 652 000	£3 471 354 000	...
Industrial	£3 653 000	£4 029 000	£3 527 000	£5 653 000	...
Japan					
Industrial	2 144 122	1 646 253	1 932 442	2 018 739	2 519 134
Dust	8 504 300	10 886 046	12 007 423	15 066 371	16 529 190
Korea, Republic of					
Gem, cut	5 000	...	14 868	4 283	108 902
Industrial	45 000	...	570	59	28 905
Kuwait					
Gem	...	80 000	1 215 000	635 000	...
Malaysia					
Unsorted	£1 530 000	£2 407 000	£1 857 000	...	...
Gem, rough	...	£4 118 000	£1 025 000	...	...
Gem, cut	£55 532 000	£54 545 000	£53 852 000	...	...
Singapore					
Gem	£32 393 000	£70 073 000	£143 214 000	£140 313 000	£59 892 000
of which, re-exports	£31 732 000	£67 433 000	£136 831 000	£119 016 000	£2 790 000
Industrial	£46 187 000	£29 232 000	£19 061 000	£12 068 000	£2 571 000
of which, re-exports	£46 044 000	£25 350 000	£18 377 000	£7 626 000	£391 000

Exports of Diamond

Country	1994	1995	1996	1997	1998
Sri Lanka					
Gem, rough	176 371	174 898	207 749	197 132	...
Gem, cut	241 042	315 763	294 569	221 955	...
Industrial	18 886	17 835	421	3 554	...
Taiwan					
Gem, rough	50 000	655 000	-----	-----	-----
Gem, cut	115 000	135 000	10 000	...	...
Industrial	2 115 000	8 800 000	12 455 000	...	...
Dust	11 950 000	8 720 000	19 220 000	53 745 000	33 995 000
Thailand					
Unsorted	44 824	157 757	146 760	2 631 379	...
Gem, rough	366 119	244 624	237 316	141 394	...
Gem, cut	2 241 030	1 891 760	2 313 449	5 357 875	...
Industrial	36 629	39 856	10 321	107 630	...
Australia					
Unsorted	*31 602 000	*32 245 000	*36 869 000	*29 541 000	*52 218 000
Gem, rough	2 025 677	372	940	585	1 092
Gem, cut	996 626	29 215	27 000	32 053	30 777
Industrial	174 737	64 682	59 949	2 289	681
New Zealand					
Gem, cut (b) (c)	£199 000	£316 000	£308 000	£153 000	£521 000

Note(s):

- (1) Carats have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national currency figure has been converted to £ sterling
- (2) See explanatory notes at the front of the volume regarding currency conversion
- (3) In this table the term 'Dust' corresponds to item 7501 10 of the Harmonised System and includes both natural and synthetic diamond dust

- (a) Years ended 31 March following that stated
- (b) Re-exports
- (c) Years ended 30 June of that stated

Imports of Diamond

carats

Country	1994	1995	1996	1997	1998
Austria					
Unsorted	-----	5 935	25 602	4 199	6 554
Gem	185 000	53 811	32 082	17 639	23 076
Industrial	250 000	47 964	16 718	63 103	53 712
Dust	11 975 000	11 825 000	12 430 000	15 984 000	23 571 880
Belgium-Luxembourg					
Unsorted	12 547 551	18 637 000	13 551 000	8 020 000	4 000 000
Gem, rough	51 729 997	77 098 000	114 412 000	129 298 000	124 000 000
Gem, cut	5 282 850	5 922 000	6 759 000	6 418 000	6 000 000
Industrial	17 746 248	17 018 000	27 258 000	35 803 000	44 500 000
Dust	35 405 820	90 000 000	52 965 000	83 005 000	...
Czech Republic					
Unsorted	£131 000	£190 000	£192 000	£90 000	£234 000
Gem, cut	£196 000	£63 000	£128 000	£136 000	£168 000
Industrial	£196 000	£507 000	£320 000	£271 000	£214 000
Finland					
Gem, cut	10 000	10 564	10 580	...	20 000
Industrial	25 000	3 572	503	...	50 000
Dust	210 000	-----	-----	...	...
France					
Unsorted	23 970	...	...	207 370	...
Gem, cut	241 254	274 686	313 148	350 793	...
Industrial	119 955	...	213 447	388 951	...
Dust	14 090 090	38 245 430	10 468 125	13 560 155	10 500 000
Germany					
Gem, cut	462 829	534 506	522 690	494 351	504 940
Industrial	2 324 416	561 634	470 303	1 797 380	2 434 993
Dust	60 695 000	95 655 000	74 230 000	51 350 000	61 055 000
Greece					
Unsorted	£252 000	£587 000	£748 000	£503 000	£599 000
Gem, rough	£54 000	£32 000	£17 000	...	£155 000
Gem, cut	£1 412 000	£2 454 000	£2 280 000	£2 105 000	£2 435 000
Industrial	£534 000	£506 000	£711 000	£788 000	£1 049 000
Hungary					
Dust	...	...	...	1 671 575	1 010 600
Irish Republic					
Unsorted	2 455 000	985 000	690 000	4 940 000	855 000
Gem, rough	27 385 000	5 110 000	1 170 000	535 000	250 000
Gem, cut	29 760 000	3 435 000	7 655 000	8 705 000	5 220 000
Industrial	119 645 000	124 525 000	53 580 000	61 785 000	3 045 000
Italy					
Unsorted	£326 000	£507 000	£320 000	£486 000	£270 000
Gem, rough	£196 000	£190 000	£320 000	£476 000	...
Gem, cut	£94 607 000	£114 729 000	£163 796 000	£17 391 000	£12 330 000
Industrial	£2 873 000	£3 358 000	£3 266 000	£3 001 000	...
Dust	50 985 000	...	...	...	...
Malta					
Gem, rough	£89 000	£264 000	£118 000	£56 000	£88 000
Industrial	£2 093 000	£115 000	£15 000	£13 000	£1 000
Netherlands					
Unsorted	£7 893 000	£6 274 000	£7 566 000	£7 904 000	£7 431 000
Gem, rough	£47 000	£79 000	-----	£23 000	£156 000
Gem, cut	£21 587 000	£19 696 000	£20 294 000	£17 370 000	£14 976 000
Industrial	£2 567 000	£509 000	£471 000	£606 000	£385 000
Norway					
Gem	30 000	25 000	25 000	...	...
Industrial	205 000	400 000	10 000	...	...
Dust	150 000	210 000	375 000	...	...
Poland					
Gem	35 000	30 000	340 000	50 000	...
Industrial	235 000	55 000	100 000	275 000	...
Portugal					
Unsorted	£457 000	£253 000	£192 000	£79 000	£114 000
Gem, rough	£48 446 000	£30 852 000	£34 962 000	£49 170 000	£27 441 000
Gem, cut	£6 007 000	£3 231 000	£3 522 000	£3 832 000	£3 890 000
Industrial	£522 000	£1 394 000	£1 217 000	£1 014 000	£1 335 000

Imports of Diamond

Country	1994	1995	1996	1997	1998
Romania					
Gem, cut	928 247	296 021	199 393	166 776	...
Industrial	1 241 000	950 000	512 000	...	...
Spain					
Unsorted	£449 000	£409 000	£346 000	£1 141 000	£1 557 000
Gem, cut	£6 874 000	£12 535 000	£14 466 000	£19 806 000	£21 351 000
Industrial	£1 059 000	£934 000	£1 454 000	£1 789 000	£2 049 000
Sweden					
Unsorted	£116 000	£238 000	£43 000	£272 000	£546 000
Gem, cut	£2 784 000	£2 639 000	£2 800 000	£2 715 000	£2 478 000
Industrial	£374 000	£58 000	£57 000	£27 000	£77 000
Dust	£4 135 000	...	...	...	£4 263 000
Switzerland					
Unsorted	15 000	----	365 000	445 000	10 000
Gem, rough	4 630 000	2 970 000	4 270 000	...	4 535 000
Gem, cut	615 000	425 000	420 000	375 000	420 000
Industrial	580 000	690 000	475 000	575 000	365 000
Dust	55 705 000	65 190 000	67 550 000	107 225 000	94 210 000
Turkey					
Gem	920 000	3 795 000	3 068 452	7 627 692	833 102
Industrial	35 000	95 000	111 921	1 111 596	28 783
Dust	2 595 000	5 645 000	9 030 000	7 244 305	...
United Kingdom					
Unsorted	£535 894 000	£484 273 000	£496 369 000	£707 324 000	£385 101 000
Gem, rough	£1 818 261 000	£2 037 922 000	£2 358 426 000	£2 142 900 000	£2 215 670 000
Gem, cut	£276 281 000	£293 303 000	£393 167 000	£535 275 000	£526 209 000
Industrial	£14 425 000	£11 846 000	£13 521 000	£23 714 000	£80 849 000
Dust	£15 521 000	£13 454 000	£11 837 000	£13 441 000	£14 985 000
Botswana					
Unsorted	...	...	...	35 250	...
Gem	...	...	...	262 690	...
Industrial	...	...	...	299 430	...
Mauritius					
Gem, rough	£13 385 000	£12 860 000	£8 772 000	£8 200 000	...
Gem, cut	£2 416 000	£2 281 000	£2 689 000	£5 400 000	...
Industrial	£65 000	£1 457 000	£6 787 000	£6 900 000	...
South Africa					
Unsorted	128 610	44 373	41 138	55 280	68 677
Gem, rough	582 220	417 632	814 417	601 542	397 265
Gem, cut	6 370	5 595	6 936	72 135	70 734
Industrial	965 335	678 343	917 470	1 473 889	1 272 212
Dust	...	3 498 365	4 712 936	3 617 197	3 519 364
Tunisia					
Unsorted	120 000	...	150 000	140 000	...
Gem, cut	20 000	...	35 000	...	...
Industrial	20 000	...	100 000	5 185 000	...
Canada					
Unsorted	£21 562 000	£14 485 000	£16 990 000	£14 547 000	£17 012 000
Gem, cut	231 605	211 272	190 926	221 239	249 969
Industrial	1 516 829	1 494 537	2 266 981	1 733 188	822 194
Dust	3 628 414	4 153 747	4 063 259	5 082 213	2 343 870
Costa Rica					
Industrial	350 000	715 000	...	...	...
Mexico					
Industrial	569 475	637 345	636 125	...	...
Dust	1 725 120	457 095	1 427 255	...	...
Panama					
Gem	570 000	40 000	50 000	...	...
USA					
Unsorted	14 383	25 500	77 114	14 529	29 325
Gem, rough	1 435 605	1 711 671	1 451 423	1 936 591	1 439 349
Gem, cut	10 718 063	11 875 425	12 256 625	13 448 617	16 401 998
Industrial	3 865 650	5 302 414	4 616 345	4 432 122	6 101 071
Dust	167 225 406	180 391 432	218 200 260	254 596 244	222 232 369

Imports of Diamond

carats

Country	1994	1995	1996	1997	1998
Chile					
Industrial	234 825	162 145	...	...	...
Dust	230 665	312 985	636 835	704 690	261 230
Venezuela					
Gem, cut	100 000	135 000	...	...	...
Industrial	...	3 235 000	1 425 000	...	...
Abu Dhabi					
Gem	...	660 000	665 000	255 000	740 000
Dust	...	10 000	85 000	...	100 000
China					
Unsorted	79 440	135 000	156 365	90 220	80 960
Gem, rough	762 450	975 000	1 275 425	1 488 295	1 620 820
Gem, cut	302 910	340 000	332 065	638 575	860 265
Industrial	866 650	1 870 000	1 465 900	2 332 965	91 300
Dust	1 651 260	1 185 000	8 493 900	11 838 030	2 210 882
Cyprus					
Unsorted	£1 281 000	£941 000	£1 051 000	£792 000	£666 000
Gem, cut	£6 069 000	£2 995 000	£4 309 000	£4 852 000	£2 257 000
Industrial	£1 511 000	£18 000	£5 000	£837 000	£175 000
Hong Kong					
Unsorted	298 620	145 123	1 008 611	1 409 419	701 796
Gem, rough	948 858	1 429 791	1 172 490	1 219 496	1 794 802
Gem, cut	5 765 215	6 531 860	6 639 758	7 261 058	6 729 602
Industrial	2 846 977	2 994 650	448 374	1 023 602	770 004
India					
Gem, rough (a)	38 553 427	55 992 457	81 234 294	102 819 567	...
Gem, cut (a)	660 273	699 893	884 496	861 207	...
Dust (a)	£133 000	£4 846 000	£5 380 000	£4 822 000	...
Israel					
Gem, rough	£2 275 464 000	£2 491 479 000	£2 708 907 000	£2 529 449 000	£1 858 253 000
Gem, cut	£417 663 000	£458 397 000	...	£565 394 000	£664 209 000
Industrial	£12 672 000	£19 439 000	£11 590 000	£17 821 000	£11 913 000
Dust	£5 986 000	...	...	£6 353 000	£6 673 000
Japan					
Gem, rough	41 934	35 880	37 297	31 940	22 289
Gem, cut	3 672 521	4 178 153	3 610 982	2 659 711	2 479 136
Industrial	500 976	591 898	969 731	1 976 261	2 150 393
Dust	1 838 027	2 295 965	2 418 571	2 725 505	78 121 591
Korea, Republic of					
Gem, cut	10 000	140 000	309 954	...	59 744
Industrial	100 000	900 000	304 777	...	93 837
Dust	40 000	60 000	75 511	...	222 352
Malaysia					
Unsorted	£53 293 000	£42 635 000	£48 281 000	£48 849 000	...
Gem, rough	£32 000	£1 964 000	...	...	...
Gem, cut	£45 756 000	£41 368 000	£43 286 000	£42 743 000	...
Industrial	£6 003 000	£7 666 000	£2 369 000	£2 442 000	...
Philippines					
Industrial	91 698	94 367	...	63 704	...
Singapore					
Unsorted	£42 000	£554 000	£25 000	£1 047 000	£2 259 000
Gem, cut	£156 528 000	£269 328 000	£341 338 000	£298 971 000	£115 371 000
Industrial	£37 700 000	£12 303 000	£6 727 000	£8 917 000	£5 349 000
Sri Lanka					
Unsorted	36 001	48 446	37 771	24 443	...
Gem, rough	1 583 235	1 234 621	806 991	777 967	...
Gem, cut	27 317	36 628	70 197	73 387	...
Industrial	129 631	103 311	113 573	139 628	...
Dust	253 753	299 209	784 768	306 909	...
Taiwan					
Unsorted	175 000	15 000	85 000	25 000	60 000
Gem, rough	10 000	590 000	----	5 000	10 000
Gem, cut	285 000	305 000	385 000	560 000	580 000
Industrial	235 000	140 000	955 000	3 030 000	1 730 000
Dust	23 805 000	30 940 000	36 600 000	33 830 000	31 680 000

Imports of Diamond

Country	1994	1995	1996	1997	1998
Thailand					
Unsorted	2 915 613	3 463 164	1 440 188	...	...
Gem, rough	1 734 352	2 219 681	1 055 215	8 274 281	...
Gem, cut	12 880 564	4 265 502	4 366 744	...	...
Industrial	492 384	155 666	272 902	323 867	...
Dust	14 452 695	12 133 662	5 639 409	...	...
Australia					
Unsorted	9 024	6 796	24 014	13 584	3 489
Gem, rough	65 724	43 551	68 871	613 222	309 037
Gem, cut	112 045	140 819	144 244	143 706	133 069
Industrial	1 388 175	1 521 421	1 684 309	1 164 113	889 903
Dust	1 131 043	1 000 434	767 611	1 560 960	1 427 285
New Zealand					
Unsorted (b)	£251 000	£7 000	...	£15 000	£13 000
Gem, rough (b)	...	£17 000	...	£272 000	£139 000
Gem, cut (b)	£5 413 000	£6 301 000	...	£7 343 000	£6 218 000
Industrial (b)	£55 000	£55 000	...	£43 000	£174 000

Note(s) :-

- (1) Carats have been used as the unit in this table except where the only obtainable figure is the value. In these cases the national figure has been converted to £ sterling
- (2) See explanatory notes at the front of the volume regarding currency conversion
- (3) In this table the term 'Dust' corresponds to item 7501 10 of the Harmonised System and includes both natural and synthetic diamond dust

- (a) Years ended 31 March following that stated
- (b) Years ended 30 June of that stated

Production of Diatomite

tonnes

Country	1994	1995	1996	1997	1998
Czech Republic	40 000	29 000	35 000	42 000	35 000
Denmark					
Diatomite (a)	*1 000	*1 000	*1 000	*1 000	...
Moler (b)	143 000	156 000	152 000	207 000	268 000
France	*90 000	*90 000	*80 000	*80 000	*80 000
Germany	42 646	43 021	47 728	50 475	...
Iceland	25 197	28 142	25 607	27 482	25 734
Italy	*25 000	*25 000	*25 000	*25 000	*25 000
Macedonia	*5 000	*5 000	*5 000	*5 000	*5 000
Poland	2 700	2 200	1 700	1 200	...
Portugal	2 150	1 780	1 550	1 540	1 345
Romania	34 858	49 790	57 000	24 000	*30 000
Soviet Union (c)	*120 000	*110 000	*100 000	*90 000	*80 000
Spain (d)	34 248	44 623	39 115	*40 000	*40 000
Algeria	2 845	3 294	3 173	2 332	2 133
Kenya	592	577	415	297	468
Canada	*1 000	*1 000	*1 000	*1 000	*1 000
Costa Rica	500	500	900	500	200
Mexico	52 100	50 200	52 200	59 463	66 812
USA (e)	646 000	722 000	729 000	773 000	725 000
Argentina	6 260	4 938	8 647	7 387	7 500
Brazil (f)	21 809	17 074	15 189	11 228	10 162
Chile	10 129	11 451	11 592	11 825	14 868
Colombia	*4 000	*4 000	*4 000	*4 000	*4 000
Peru	*35 100	*35 100	*35 100	*35 100	*35 100
China	*230 000	*250 000	*300 000	*320 000	*350 000
Japan	183 779	176 956	194 115	*194 000	*190 000
Korea, Republic of	82 738	81 303	69 543	53 538	37 649
Thailand	5 874	5 591	1 576	91	...
Australia (g)	*11 000	12 473	12 144	12 643	14 433
World Total	1 860 000	1 960 000	2 010 000	2 080 000	2 100 000

Note(s):

(1) In addition to the countries listed, Egypt, Hungary, Iran and Turkey are believed to produce diatomite

(a) Sales

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

(c) Dissolved in December 1991. Diatomite is produced in Armenia, Georgia and Russia but information is not available to provide estimates individual countries

(d) Including tripoli

(e) Sold or used by producers

(f) Including beneficiated and directly shipped material

(g) Years ended 30 June of that stated

Exports of Diatomite

Country	1994	1995	1996	1997	1998
Austria	7 215	...	...	7 852	7 187
Belgium-Luxembourg	4 831	3 177	2 420	2 417	4 061
Czech Republic	6 591	7 714	7 359	6 563	5 989
Denmark	80 246	*80 000	*80 000	*100 000	*150 000
France	30 323	34 036	34 684	31 561	31 441
Germany	13 317	6 788	5 727	7 408	10 430
Iceland	24 560	27 740	26 358	29 935	25 410
Italy	1 113	1 249	1 106	1 260	1 129
Netherlands	804	462	262	347	229
Poland	6 028	6 842	11 691	11 300	...
Russia	...	...	2 533	635	181
Spain	1 166	1 345	2 122	1 577	2 301
Sweden	543	1 187	1 343	1 223	1 266
United Kingdom	690	1 038	2 620	486	698
Algeria	...	...	1 123	693	353
Mexico	8 924	9 626	9 442	10 831	10 344
USA	157 178	143 803	145 340	140 965	138 706
Chile	3 739	4 867	4 566	5 581	6 357
China	85 109	134 330	132 872	138 309	125 529
Hong Kong (a)	6 288	3 844	3 327	2 641	2 463
Indonesia	269	734	2 585	656	2 805
Japan	2 760	1 840	2 068	1 715	2 669
Singapore (a)	608	417	640	502	549
Taiwan	159	1 584	4 448	4 921	3 693
Australia	626	326	340	402	141

Note(s):

(a) Re-exports

Imports of Diatomite

tonnes

Country	1994	1995	1996	1997	1998
Austria	16 785	...	...	19 156	16 869
Belgium-Luxembourg	10 970	8 857	5 721	6 635	5 255
Bulgaria	(b) *900	900	472	701	...
Croatia	...	1 183	772	799	751
Czech Republic	2 090	2 718	5 602	6 301	2 318
Denmark	5 202	4 825	9 897	7 867	7 906
Finland	3 457	3 115	3 486	3 146	2 462
France	11 716	11 612	13 733	13 116	18 092
Germany	45 988	49 764	47 509	46 530	52 079
Greece	1 354	1 856	2 325	962	867
Hungary	2 604	...	...	2 290	2 989
Irish Republic	345	247	445	483	667
Italy	6 890	7 755	7 244	7 186	9 722
Netherlands	9 840	9 567	14 214	22 359	10 909
Norway	1 396	1 079	1 472	1 889	2 254
Poland	6 062	6 215	5 812	6 500	...
Portugal	...	...	1 186	1 243	1 667
Romania	1 422	2 027	1 893	2 144	2 592
Russia	...	...	2 894	3 462	4 220
Slovakia	...	...	1 568	2 055	1 913
Spain	4 020	4 620	4 218	5 258	5 563
Sweden	3 595	5 889	5 130	4 885	5 138
Switzerland	4 838	3 930	4 084	3 669	3 764
Turkey	703	1 109	1 308	893	880
United Kingdom	13 944	15 974	16 276	20 595	42 053
Yugoslavia, Federal Republic	...	*100	...	1 269	1 240
Cameroon	352	...	...	...	...
Morocco	...	2 324	984	739	...
South Africa	3 873	3 439	2 009	4 506	4 175
Tunisia	1 089	1 172	980	833	...
Canada	23 954	22 283	23 079	25 002	23 032
Costa Rica	1 159	66	182	186	...
El Salvador	631	630	634	1 676	762
Guatemala	1 595	838	819	1 004	980
Honduras	464	607	588	546	739
Mexico	1 311	830	971	2 117	3 561
Panama	479	613	650	534	552
USA	379	259	1 551	2 040	802
Argentina	...	...	4 665	5 382	5 793
Brazil	1 408	2 123	2 375	3 309	2 913
Colombia	2 157	3 039	3 063	2 734	2 800
Ecuador	223	329	312	268	329
Peru	1 398	2 690	1 941	2 123	...
Venezuela	3 749	2 683	732	1 336	...
China	2 579	3 796	3 149	5 848	9 306
Cyprus	190	190	195	126	100
Hong Kong	3 407	4 354	4 539	3 191	2 903
India (d)	1 055	1 357	2 504	2 596	...
Indonesia	3 693	4 871	3 533	4 231	2 477
Iran (c)	553	176	...	231	...
Israel (b)	*1 000	*700	...	...	...
Japan	5 864	6 442	8 130	8 668	7 735
Korea, Republic of	1 761	99	90	83	429
Malaysia	2 678	...	...	...	...
Pakistan	737	100	326	...	...
Philippines	1 387	888	3 722	2 513	...
Saudi Arabia	876	938	585	10 954	1 001
Singapore	2 180	1 803	2 191	1 773	1 804
Taiwan	15 371	15 040	11 028	11 020	10 287
Thailand	207	295	...	256	...
Australia	7 971	7 793	7 867	9 663	9 181
New Zealand (a)	1 571	1 686	...	1 470	1 385

Note(s) :-

(a) Years ended 30 June of that stated

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

(c) Years ended 20 March following that stated

(d) Years ended 31 March following that stated

Production of Feldspar

Country	1994	1995	1996	1997	1998
Austria	4 883	-----	-----	-----	-----
Czech Republic	170 000	183 000	211 000	243 000	266 000
Finland	43 483	41 801	40 265	40 000	42 000
France	390 000	632 000	546 000	621 000	...
Germany	379 427	432 624	359 665	455 969	*450 000
Greece	35 000	27 000	60 000	68 000	71 000
Italy	1 806 935	2 199 315	2 287 086	2 118 117	2 748 000
Macedonia	3 282	*5 000	*5 000	*5 000	*5 000
Norway	62 905	75 397	*75 000	*75 000	*75 000
Poland	41 400	44 100	58 300	75 700	*77 000
Portugal	87 196	106 559	96 955	81 597	80 000
Romania	31 123	30 920	34 975	25 962	*30 000
Russia	53 090	40 470	29 330	*29 000	*25 000
Spain	312 907	379 284	415 189	400 156	430 000
Sweden	44 520	47 226	43 167	42 308	*45 000
Turkey	502 608	760 250	912 204	1 011 542	1 089 483
United Kingdom (a)	8 400	8 900	8 211	8 108	3 278
Yugoslavia, Federal Republic of	3 238	5 441	4 801	4 880	4 280
Algeria	6 939	*7 000	*7 000	*7 000	*7 000
Egypt (b)	39 745	40 621	40 000	*40 000	*40 000
Morocco	...	17 233	12 659	15 110	5 615
Nigeria	*1 000	3 722	800	*1 000	*500
South Africa	37 156	47 962	53 644	59 688	56 761
Zimbabwe	1 617	3 920	3 248	2 254	2 241
Guatemala	8 886	7 673	11 060	11 400	17 249
Mexico	133 441	121 779	139 972	155 760	197 866
USA	765 000	880 000	890 000	*900 000	*820 000
Argentina	42 516	37 095	72 539	79 988	80 000
Brazil (c)	205 000	200 116	191 462	*150 000	*150 000
Chile	9 967	7 293	3 702	3 808	1 460
Colombia	76 188	58 100	78 093	66 845	*55 000
Ecuador	5 692	10 297	10 321	60 328	69 319
Peru	14 808	9 099	5 918	2 502	3 984
Uruguay	2 870	5 099	2 006	3 229	2 240
Venezuela	136 507	170 404	204 735	171 145	*170 000
India (d)	92 219	106 896	101 697	112 238	106 811
Indonesia	40 483	49 415	*50 000	24 399	53 068
Iran (e)	109 005	132 457	122 343	125 000	...
Japan (f)	1 193 000	1 169 000	1 163 000	*1 050 000	*870 000
Jordan	-----	7 341	*7 000	-----	4 008
Korea, Republic of	319 658	367 578	319 112	341 018	248 493
Malaysia	25 000	27 850	13 983	9 779	...
Myanmar (d)	5 605	8 749	*9 000	*10 000	*8 000
Pakistan (b)	15 335	21 163	32 572	25 169	...
Philippines	93 178	30 783	44 392	12 717	886
Sri Lanka	18 064	22 620	23 970	25 676	25 274
Taiwan	778	-----	20	-----	-----
Thailand	554 227	677 852	684 983	611 790	*600 000
Uzbekistan	*4 000	*4 000	*4 000	*4 000	*4 000
Australia (b)	22 167	53 989	65 840	68 796	39 756
World Total	7 980 000	9 330 000	9 560 000	9 460 000	9 860 000

Note(s):

(1) In addition to the countries listed, China and Namibia are believed to produce feldspar

- (a) China stone
- (b) Years ended 30 June of that stated
- (c) Including beneficiated and directly shipped material
- (d) Years ended 31 March following that stated
- (e) Years ended 20 March following that stated
- (f) Revised to include weathered granite feldspar

Exports of Feldspar

tonnes

Country	1994	1995	1996	1997	1998
Austria	...	24 915	22 180	20 668	22 547
Czech Republic	66 583	74 181	67 515	54 474	57 546
Finland	28 693	27 264	25 972	23 048	25 953
France	53 560	67 169	92 883	122 119	126 350
Germany	128 745	81 210	61 033	60 999	35 317
Greece	22 543	19 065	25 789	...	10 576
Italy	22 593	30 727	37 349	42 687	89 042
Netherlands	1 786	1 567	23 276	2 990	3 680
Norway	61 648	67 340	69 578	67 741	83 943
Portugal	...	...	1 850	2 069	2 060
Russia	47 906	35 094	70 315	8 417	9 627
Spain	14 202	25 476	29 809	22 653	29 512
Sweden	30 625	25 448	24 731	16 385	14 531
Turkey (a)	469 371	651 800	738 156	950 140	1 283 211
United Kingdom	470	317	237	853	155
South Africa	2 394	1 700	3 454	2 468	1 439
Guatemala	5 006	4 400	3 648	5 044	4 760
Mexico	7 115	8 502	8 323	11 379	8 809
USA	17 255	15 058	10 169	7 224	13 193
Brazil	1 102	374	59	3 025	49
China	831 000	703 315	567 741	591 265	608 501
Hong Kong (a) (c)	220 867	201 362	139 415	164 965	134 751
India (b)	49 307	84 622	94 716	77 644	...
Japan	27 630	30 176	33 324	13 062	8 533
Korea, Republic of	15 817	14 027	37 509	34 248	14 080
Philippines	45 600	23 205	----	----	...
Thailand	233 784	300 517	284 768	241 431	...
Australia	36 911	61 851	47 052	42 980	27 095

Note(s):

(a) May include some leucite, nepheline and nepheline syenite

(b) Years ended 31 March following that stated

(c) Re-exports

Imports of Feldspar

Country	1994	1995	1996	1997	1998
Austria	4 813	5 387	4 010	4 377	3 238
Belgium-Luxembourg	35 850	20 696	73 309	24 836	24 363
Croatia	...	2 237	2 883	2 521	2 610
Czech Republic	431	620	3 923	5 685	5 474
Denmark	3 073	4 208	3 373	3 300	4 576
France	20 765	31 169	27 069	46 110	47 367
Germany	70 493	68 591	66 209	41 670	48 165
Greece	5 885	8 834	8 049	1 302	492
Hungary	20 636	...	...	...	...
Irish Republic	(a) 1 374	(a) 191	(a) 1 577	121	130
Italy	359 608	537 518	602 980	714 234	1 023 919
Lithuania	...	4 521	5 479	11 625	4 155
Netherlands	10 386	19 879	50 098	14 118	12 732
Norway	523	839	889	841	466
Poland	24 916	30 762	34 800	35 600	...
Portugal	...	(a) (c) 29 709	20 357	34 456	31 026
Romania	...	...	...	8 752	9 838
Russia	...	...	1 262	532	1 204
Spain	119 485	168 658	215 198	229 481	315 236
Sweden	5 041	7 092	10 017	6 820	7 643
Switzerland	13 714	11 543	9 101	6 248	5 696
Turkey (a)	135	10 133	10 107	7 546	18 100
Ukraine	(b) *28 500	...	3 792	2 283	4 231
United Kingdom	38 209	36 537	28 314	24 051	18 463
Algeria	...	...	3 680	5 001	...
Egypt	...	...	23 149	28 014	...
Tunisia	2 723	2 190	4 719	7 956	...
Canada	1 630	1 803	1 291	1 612	2 297
Costa Rica	4 292	5 426	5 175	5 287	...
Mexico	20 765	17 048	5 789	3 485	1 195
USA	7 355	8 978	7 154	8 578	6 556
Chile	1 274	1 051	2 913	2 202	2 694
Venezuela	990	514	440	499	...
China	810	537	3 919	11 121	20 256
Hong Kong	(a) 209 312	(a) 105 036	(a) 59 094	31 140	21 217
Indonesia	47 684	59 210	85 469	80 514	92 374
Israel (a) (b)	*4 000	*4 000	...	...	...
Japan	6 705	9 280	10 864	13 004	6 613
Jordan	185	142	533	160	...
Korea, Republic of	4 288	8 024	1 288	1 024	854
Malaysia	127 947	177 338	...	...	...
Philippines	6 220	5 761	10 884	9 986	...
Saudi Arabia	1 141	1 671	877	-----	-----
Singapore	(a) 27 929	(a) 21 655	(a) 30 806	10 979	5 925
Syria (a) (c)	2 255	1 041	2 230	2 730	...
Taiwan	1 175 321	965 531	745 009	755 071	762 588
Thailand	12 624	15 978	23 062	10 306	...
Australia	49	69	51	138	80
New Zealand (d)	617	200	...	336	443

Note(s) :-

- (a) May include some leucite, nepheline and nepheline syenite
- (b) BGS estimates, based on known exports from certain countries
- (c) Including some fluorspar
- (d) Years ended 30 June of that stated

Production of Fluorspar

tonnes

Country	1994	1995	1996	1997	1998
Czech Republic	10 000	-----	-----	-----	-----
France	130 300	130 000	110 800	106 600	110 000
Germany	35 641	39 081	32 448	23 868	*25 000
Italy	77 946	124 749	126 671	105 794	107 000
Romania	*15 000	*15 000	*15 000	*15 000	*15 000
Russia	120 000	140 000	75 000	*80 000	*75 000
Spain	113 588	118 411	116 526	124 987	124 000
Turkey	6 671	8 873	4 828	3 903	5 034
United Kingdom	*58 000	*55 000	*65 000	*64 000	*65 000
Egypt (a)	514	551	*700	*700	*700
Kenya	89 155	74 230	83 000	68 700	60 854
Morocco	85 000	105 800	95 900	103 800	105 000
Namibia	52 226	33 559	31 457	23 160	40 683
South Africa	174 258	195 794	201 928	206 765	228 640
Tunisia	400	1 856	720	1 426	1 188
Mexico	327 378	522 658	523 971	552 840	598 043
USA (b)	*49 000	*51 000	*8 200	-----	-----
Argentina	3 585	5 105	5 666	12 172	12 000
Brazil (c)	91 658	89 258	97 749	78 032	72 082
China	*1 950 000	*1 850 000	*1 900 000	*2 000 000	*2 100 000
India (d)	24 788	22 944	19 926	11 338	48
Iran (e)	22 204	20 163	18 929	*20 000	*20 000
Korea, Dem. P.R. of	*40 000	*40 000	*39 000	*39 000	*30 000
Korea, Republic of	*50	*50	-----	617	-----
Kyrgyzstan	5 000	3 000	2 767	4 176	3 200
Mongolia	105 000	133 300	165 000	174 200	168 400
Pakistan (a)	13 351	2 573	363	1 050	2 647
Tajikistan	10 000	5 000	3 000	*3 000	*3 000
Thailand	23 705	24 114	17 247	7 826	23 788
Uzbekistan	20 000	5 000	3 000	-----	-----
World Total	3 700 000	3 800 000	3 800 000	3 800 000	4 000 000

Note(s):

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

(a) Years ended 30 June of that stated

(b) In addition, the USA produced the following amounts of fluorspar equivalent in fluorosilicic acid derived from processing phosphate rock ('000 t): 1994: 97; 1995: 98; 1996: 119; 1997: 121; 1998: 118

(c) Including beneficiated and directly shipped material

(d) Years ended 31 March following that stated

(e) Years ended 20 March following that stated

Exports of Fluorspar

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg	255	147	1 270	821	1 131
Czech Republic	20 667	26 011	17 200	22 688	24 827
France	15 763	26 190	31 408	35 748	24 342
Germany	16 678	26 667	15 631	20 206	15 892
Italy	518	96	2 114	557	1 471
Netherlands	1 352	100	806	2 404	187
Russia	-----	1 604	4 357	324	2 056
Spain	21 182	33 853	19 897	24 998	986
Sweden	1 687	991	2 320	2 102	4 400
United Kingdom	5 796	6 935	7 129	5 215	4 194
Kenya	62 202	56 202	59 175	72 300	45 618
Morocco	102 365	107 846	94 156	114 419	...
Namibia	49 852	27 400	32 624	18 307	37 771
South Africa	244 190	166 864	165 453	182 716	153 031
Canada	50	1 750	363	530	189
Mexico	147 502	291 905	252 809	317 341	335 236
USA	24 261	47 120	83 482	64 870	46 150
China	1 218 645	1 229 145	1 124 685	1 293 672	1 315 972
Hong Kong (a)	76	58	1 255	1 050	1 965
Japan	904	748	1 173	1 013	867
Mongolia	*170 000	129 000	158 900	147 900	113 100
Thailand	18 428	19 315	17 432	10 760	...
Uzbekistan	*10 000	*11 000	*13 000	*15 000	...

Note(s):

(a) Re-exports

Imports of Fluorspar

tonnes

Country	1994	1995	1996	1997	1998
Austria	5 213	6 565	7 114	7 529	5 704
Belgium-Luxembourg	8 401	11 910	4 696	9 774	10 690
Croatia	111	68	187	275	275
Czech Republic	26 642	67 720	42 437	51 532	41 943
Denmark	11 066	341	568	4 926	7 152
Finland	12 388	12 577	12 564	11 317	11 246
France	7 427	6 971	4 629	6 267	5 902
Germany	268 974	221 860	238 905	263 201	290 687
Greece	4 719	7 969	13 608	14 313	15 298
Hungary	5 177	3 900	1 700	4 500	...
Irish Republic	54	90	185	200	158
Italy	91 428	94 803	95 823	111 666	106 304
Netherlands	19 234	6 810	10 965	12 561	4 883
Norway	44 865	46 231	43 358	...	...
Poland	7 236	8 324	9 800	6 100	...
Portugal	1 300	1 300	1 057	971	1 380
Romania	10 852	15 106	22 970	19 271	11 831
Russia	174 300	167 200	238 024	227 161	227 373
Slovakia	7 900	8 900	7 300	8 730	...
Spain	9 495	13 056	8 762	11 347	16 394
Sweden	11 733	7 977	16 082	7 968	15 972
Switzerland	351	73	222	325	554
Turkey	1 515	6 772	7 025	12 219	8 141
Ukraine	(b) *100	(b) *9 500	23 551	40 871	40 092
United Kingdom (b)	*18 000	*41 000	*34 000	*35 000	...
Yugoslavia, Federal Republic	...	...	...	4 016	4 786
Algeria	200	100	250	117	...
Egypt	500	500	1 654	1 021	...
Tunisia	47 253	35 921	47 737	50 182	...
Canada	87 370	108 968	142 632	157 661	186 351
Mexico	31 457	32 867	95 418	13 683	37 168
USA	439 147	575 817	384 889	822 211	498 204
Brazil	11	18 767	7 864	15 510	34 482
Chile	391	524	479	1 103	525
Peru	1 128	483	366	486	...
Venezuela	704	1 311	756	724	...
Hong Kong	----	----	600	1 025	2 400
India (a)	61 781	53 627	54 666	39 136	...
Indonesia	1 006	959	973	706	493
Japan	544 943	593 723	549 239	573 738	545 726
Jordan	63	162	151	200	...
Korea, Republic of	93 198	107 551	82 804	87 918	77 928
Malaysia	2 694	4 700	6 600	...	...
Pakistan	2 300	1 750	3 000	----	...
Philippines	1 737	3 137	1 435	1 071	...
Singapore	*600	700	100	864	826
Taiwan	47 447	52 614	41 151	46 999	54 574
Thailand	22	5 457	8 124	3 830	...
Australia	43 386	9 202	7 692	5 636	3 620

Note(s) :-

(a) Years ended 31 March following that stated

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

Mine Production of Gold

kilograms (metal content)

Country	1994	1995	1996	1997	1998
Armenia	*500	514	244	*500	*350
Bulgaria	299	1 307	1 776	1 713	*1 700
Czech Republic	75	-----	-----	-----	-----
Finland	963	1 050	1 670	1 900	2 370
France	5 102	5 931	5 651	4 953	3 793
Georgia	*100	*100	*100	*100	*100
Hungary	*200	-----	-----	-----	-----
Poland	628	510	598	435	*500
Romania	*4 000	*4 000	*4 000	*4 000	*4 000
Russia	136 818	127 838	119 856	123 937	105 197
Slovakia	372	518	492	458	340
Spain	7 813	4 131	4 241	3 343	...
Sweden	6 364	6 528	6 145	6 777	5 944
Turkey	996	*1 200	*1 200	*1 000	*1 000
Yugoslavia, Federal Republic of (a)	2 437	2 856	3 250	3 014	2 684
Botswana	234	86	5	28	1
Burkina Faso	537	444	419	58	41
Burundi	*1 000	*2 000	*2 200	*1 500	*1 500
Cameroon	*10	560	*600	*500	*500
Central African Republic	138	98	39	36	24
Congo, Democratic Republic	780	1 180	1 252	394	134
Eritrea	78	59	98	612	573
Ethiopia (b)	2 450	1 183	199	755	36
Gabon	72	70	*70	*70	*70
Ghana	43 348	51 330	48 271	53 548	74 315
Guinea	5 617	7 862	6 838	7 000	*7 000
Ivory Coast	1 860	1 940	1 883	2 419	*1 500
Kenya	155	170	*300	440	388
Liberia	-----	-----	-----	*100	*100
Mali	5 700	6 300	7 000	16 300	*25 000
Mauritania	1 738	1 196	189	-----	-----
Morocco	565	580	482	*50	*50
Mozambique	336	236	67	6	17
Namibia	2 394	2 099	2 145	2 417	1 882
Niger	*1 000	*1 000	*1 000	*1 000	*1 000
Rwanda	*100	-----	4	13	-----
Sierra Leone	111	4	16	...	1
South Africa	579 909	523 815	498 250	491 680	464 216
Sudan	2 500	*3 700	*4 500	*5 000	*5 000
Tanzania	2 549	44	301	201	*1 500
Uganda (c)	216	3 094	5 067	6 819	*5 000
Zambia (d)	165	79	106	184	*200
Zimbabwe	20 512	23 959	24 699	24 225	25 175
Canada	146 891	152 032	166 378	171 376	165 911
Costa Rica	370	464	713	733	636
Dominican Republic	1 538	3 288	3 659	2 349	1 265
Honduras	106	111	142	*150	*150
Mexico	14 642	20 902	24 083	26 031	25 982
Nicaragua	1 045	1 518	2 006	2 560	3 788
Panama	272	283	834	1 202	1 517
USA	326 553	316 913	326 187	362 295	366 411
Argentina	937	837	723	2 289	19 459
Bolivia	12 790	14 405	12 634	13 292	14 444
Brazil	70 535	62 424	55 041	52 335	46 031
Chile	38 786	44 585	53 174	49 459	44 980
Colombia	20 760	21 165	22 073	18 811	18 813
Ecuador	1 182	7 410	7 208	3 069	1 474
French Guiana	2 267	2 470	2 949	3 183	2 662
Guyana	11 683	9 005	12 007	13 577	14 605
Peru	47 800	57 743	64 885	77 940	94 214
Venezuela	10 094	7 259	11 719	19 661	6 793

Mine Production of Gold

kilograms (metal content)

Country	1994	1995	1996	1997	1998
China	*160 000	127 611	145 333	181 360	172 845
India (e)	2 373	2 036	2 710	2 636	2 463
Indonesia	45 597	62 818	83 564	89 979	124 019
Iran	723	370	242	281	360
Japan	9 551	9 185	8 627	8 384	8 601
Kazakhstan	14 483	10 921	10 300	9 659	9 800
Korea, Dem. P.R. of	*5 000	*5 000	*5 000	*5 000	*5 000
Korea, Republic of	1 374	1 265	1 061	611	4
Kyrgyzstan	2 100	4 100	4 100	17 400	21 311
Malaysia	4 085	3 162	2 829	4 487	3 394
Mongolia	1 742	4 504	6 976	8 451	9 531
Myanmar (e)	164	97	172	150	*150
Oman	122	611	595	584	579
Philippines	27 307	27 026	30 180	32 199	34 226
Saudi Arabia	7 630	8 080	7 530	7 260	5 099
Tajikistan	*500	300	1 450	2 550	3 200
Uzbekistan	64 400	63 600	78 300	81 700	81 000
Australia	254 874	253 084	289 519	313 230	309 600
Fiji	3 536	3 495	4 550	4 671	3 758
New Zealand	10 118	12 132	11 571	11 359	7 700
Papua New Guinea	58 654	51 701	51 573	48 482	60 293
Solomon Islands	17	16	4	...	1 000
World Total	2 220 000	2 160 000	2 270 000	2 420 000	2 440 000

Note(s):

- (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, Laos and Madagascar produce less than 100 kg gold per year according to official statistics
- (3) Greece, Norway and Thailand are believed to produce gold

- (a) Metal production
- (b) Years ended 6 July of that stated
- (c) Exports
- (d) Contained in blister copper, refinery muds and electrolytic copper
- (e) Years ended 31 March following that stated

Exports of Gold

Country	1994	1995	1996	1997	1998
Armenia					
Metal	(c) *390	...	202	79	1 123
Waste & scrap	(c) *930	(c) *1 600	...	2 527	201
Austria					
Metal	1 227	1 748	3 111	1 900	2 700
Waste & scrap	747	200	56 000	6 000	600
Belarus					
Waste & scrap	(c) *3 100	...	...	...	...
Belgium-Luxembourg					
Metal	22 006	25 188	27 892	29 500	32 100
Waste & scrap	£35 000	£344 000	£1 647 000	£2 124 000	£1 019 000
Bulgaria					
Waste & scrap (c)	*50	*1 300	*4 800	...	...
Croatia					
Metal	...	1 000	...	24	13
Czech Republic					
Metal	1 671	2 329	4 693	2 489	2 806
Waste & scrap	...	...	...	4 287	8 680
Denmark					
Metal	410	893	1 332	2 861	982
Waste & scrap	4 111	8 442	5 851	2 690	2 602
Estonia					
Waste & scrap	(c) *15 700	226	...	(c) *6 700	(c) *13 100
Finland					
Metal	808	2 000	3 834	4 947	...
Waste & scrap	153	41 000	106 000	51 273	636
France					
Metal	37 578	39 858	50 812	42 600	24 600
Waste & scrap	1 262 100	146 892	148 831	66 900	56 300
Georgia					
Metal (c)	...	...	...	*100	*1 000
Germany					
Metal	74 341	89 575	94 451	73 400	67 400
Waste & scrap	1 210	23 603	29 214	228 700	160 500
Hungary					
Metal	...	...	441	740	805
Irish Republic					
Metal	£532 000	£14 000	£3 000	£4 000	...
Waste & scrap	£12 000	£6 000	£2 000	£196 000	£984 000
Italy					
Metal	12 672	13 032	27 432	13 734	23 276
Latvia					
Waste & scrap	148	159	1 597	504	172
Lithuania					
Waste & scrap	(c) (g) *2 200	----	...	...	1
Netherlands					
Metal	11 479	12 972	15 286	...	7 759
Waste & scrap	29 000	56 000	193 370	...	104 500
Norway					
Metal	1 599	2 151	1 643	1 714	1 823
Waste & scrap	328	966	2 083	1 280	938
Poland					
Metal	249	330	132	1 451	...
Portugal					
Metal	...	...	...	1 207	851
Waste & scrap	...	...	16	1 329	127
Russia					
Metal	(c) *36 400	73 900	3 600	(c) *7 100	51 619
Waste & scrap (c)	*7 500	*33 400	*6 500	...	...
Slovakia					
Ore	...	...	1 458 000	1 261 000	...
Spain					
Metal	14 401	15 888	15 201	36 177	103 927
Sweden					
Metal	8 000	...	12 724	4 000	1 000
Waste & scrap	28 000	108 989	3 519	1 000	...

Exports of Gold

kilograms

Country	1994	1995	1996	1997	1998
Switzerland					
Metal	909 456	1 193 530	1 191 879	1 677 130	...
Waste & scrap	8 080	16 758	52 375	44 849	63 818
Ukraine					
Waste & scrap (c)	*9 900	...	*1 500	*20 500	*27 600
United Kingdom					
Metal	436 674	702 386	595 097	1 151 116	623 956
Waste & scrap	1 450	11 533	79 727	54 013	97 013
Yugoslavia, Federal Republic of					
Metal	...	...	...	1 000	2 254
Burkina Faso					
Metal	1 624	1 664	1 312	*1 200	...
Central African Republic					
Metal	78	62	23	19	12
Guinea					
Metal	5 600	7 863	6 838	...	...
Mozambique					
Metal	262	228	53	----	----
Namibia					
Metal	2 319	2 056	2 177	2 452	1 919
Sierra Leone					
Metal	111	4	...	16	...
South Africa					
Metal	£4 591 000 000	£4 010 000 000	£3 944 000 000	£3 266 000 000	£2 632 000 000
Tanzania					
Metal	...	...	£1 780 000	£1 220 000	£2 020 000
Uganda					
Metal	216	3 094	5 067	6 819	*5 000
Zimbabwe					
Metal	18 908	20 880	...	...	...
Canada					
Ores & concentrates (d)	3 511	7 066	5 465	6 010	5 654
Metal	210 597	170 975	197 287	218 346	225 273
Cuba					
Waste & scrap (c)	...	...	*1 300	*1 400	*1 600
Dominican Republic					
Metal	1 538	3 288	3 659	2 349	1 265
Nicaragua					
Metal	300	700	1 700	900	3 200
USA					
Metal, unrefined	60 415	69 990	71 073	87 550	91 598
Metal, refined	337 514	278 492	405 332	390 528	436 376
Metal, other	12 909	9 372	6 803	10 561	18 705
Waste & scrap	81 407	81 430	91 297	62 019	58 555
Bolivia					
Metal	9 633	10 593	9 561	10 288	11 998
Brazil					
Metal	16 459	34 777	46 970	48 236	44 234
Chile					
Metal	22 502	29 032	32 203	54 989	30 050
Colombia					
Ore	594 268	551 970	518 427	462 656	397 788
Guyana					
Metal	11 161	8 563	9 020	11 076	12 970
Peru					
Metal	27 549	37 223	45 978	46 271	97 649
China					
Metal (c)	*1 300	*600	*1 600	*1 700	*5 000
Hong Kong					
Metal	4 493	6 729	9 980	6 890	50 038
of which, re-exports	4 493	6 729	9 980	6 890	24 363
Waste & scrap	2 966	3 968	5 545	8 043	44 504
of which, re-exports	2 966	3 968	5 545	8 043	43 067

Exports of Gold

Country	1994	1995	1996	1997	1998
Indonesia					
Metal	11 577	3 825	806	10 020	49 834
Japan					
Metal	23 949	36 490	39 087	51 881	71 605
Waste & scrap	1 418	1 277	2 311	11 254	4 442
Jordan					
Metal (a)	1 579	0	242	----	...
Kazakhstan					
Metal	...	----	----	8 489	16 121
Korea, Dem. P.R. of					
Metal (c)	*600	*900	*2 900	...	*1 300
Korea, Republic of					
Ores & concentrates	1 881 600	...	----	----	----
Metal	48 350	197 668	427 533	577 064	695 861
Waste & scrap	525	1 494	265	108	59 197
Kyrgyzstan					
Metal (c)	...	...	...	*2 500	*20 400
Malaysia					
Metal	3 927	8 214	...	...	...
Waste & scrap	221	767	365	...	...
Oman					
Metal	...	1 578	1 088	577	...
Philippines					
Ores & concentrates (b)	6 659	6 382	7 636	5 652	...
Metal	76 328	63 646	60 163	...	...
Singapore					
Metal	12 191	14 305	23 700	42 243	140 989
of which, re-exports	1 323	2 097	13 031	26 994	118 614
Waste & scrap	777	1 312	4 044	8 481	6 103
Taiwan					
Metal	898	2 409	3 258	3 056	2 678
Waste & scrap	70 730	908	1 385	6 113	12 592
Thailand					
Metal	64 821	6 579	44 277	42 828	...
Waste & scrap	99 907	36 856	6 493	5 930	...
Uzbekistan					
Metal (c)	*14 000	*15 300	*10 400	*5 800	*6 000
Australia					
Ores & concentrates (b)	*1 600	*2 500	*1 700	*2 200	...
Metal	275 442	314 956	325 783	340 785	504 508
Waste & scrap	£86 000	£1 596 000	£1 215 000	£1 285 000	£3 276 000
Fiji					
Metal	3 501	3 410	4 687	4 671	3 885
New Zealand					
Metal (e)	36 588	37 624	44 377	38 702	33 487
Papua New Guinea					
Metal (f)	117 809	53 861	51 119	45 418	64 106

Note(s):

(1) In this table the term 'metal' includes both unwrought and partly worked gold and alloys but excludes gold coin

- (a) Re-exports
- (b) Au content
- (c) BGS estimates, based on known imports into certain countries
- (d) Au content of all ores and concentrates
- (e) Years ended 30 June of that stated
- (f) Au content of concentrates and unrefined metal
- (g) Is likely to include re-exports

Imports of Gold

kilograms

Country	1994	1995	1996	1997	1998
Armenia					
Metal	(d) *300	(d) *700	196	154	100
Austria					
Metal	2 680	53 559	18 365	41 500	53 200
Belarus					
Metal (d)	*300	*100	*300	*300	*100
Belgium-Luxembourg					
Metal	13 815	17 102	8 830	10 700	13 000
Waste & scrap	£3 339 109	£623 000	£22 584 000	£21 216 000	£14 616 000
Czech Republic					
Metal	2 312	2 463	3 388	2 346	2 415
Denmark					
Metal	1 362	1 518	1 664	17 933	4 429
Waste & scrap	1 384	802	470	321	1 017
Finland					
Metal	896	13 000	828	1 060	1 577
France					
Metal	89 999	139 599	84 814	54 200	49 700
Waste & scrap	427 300	306 256	35 199	16 600	2 800
Germany					
Metal	96 141	102 149	96 541	91 500	141 200
Waste & scrap	203 012	118 332	178 025	202 000	449 300
Greece					
Metal	11 671	14 349	14 947	1 883	14 827
Hungary					
Metal	...	...	227	259	243
Irish Republic					
Metal	£7 312 000	£9 600 000	£8 558 000	£7 360 000	£7 921 000
Italy					
Metal	337 324	346 071	331 746	407 273	440 713
Waste & scrap	2 300	2 612	1 027	408	424
Lithuania					
Metal	...	£6 000	£12 000	£103 000	£187 000
Malta					
Metal	1 903	1 022	2 222	...	...
Netherlands					
Metal	19 017	19 503	16 990	...	15 542
Waste & scrap	3 000	...	...	...	1 600
Norway					
Metal	1 183	1 358	1 418	1 750	2 183
Waste & scrap	489	707	416	525	301
Poland					
Metal	23	5	279	440	...
Portugal					
Metal	127 560	...	1 001	9 736	6 442
Slovakia					
Metal	(d) *4 300	(d) *3 000	(d) *800	(d) *600	3 376
Slovenia					
Metal	2 981	...	(d) *100	(d) *200	1 000
Spain					
Metal	20 893	29 837	28 213	139 445	84 963
Sweden					
Metal	£12 310 000	£11 384 000	£10 503 000	£6 525 000	£4 407 000
Waste & scrap	£39 000	£94 000	£22 000	£30 000	£1 000
Switzerland					
Metal	1 042 987	1 205 818	1 285 661	1 592 971	...
Waste & scrap	48 594	56 883	101 740	117 973	182 026
Turkey					
Metal	171	60	517	9	15
Ukraine					
Metal (d)	*400	*100	*200	*900	*600
United Kingdom					
Ores & concentrates	79 815	3 451	...	...	...
Metal	437 225	404 356	744 997	506 211	1 190 975
Waste & scrap	114 466	232 584	205 740	152 707	208 828
South Africa					
Metal	460	...	1 432	240	361
Tunisia					
Metal	1 166	1 406	1 560	1 527	...

Imports of Gold

kilograms

Country	1994	1995	1996	1997	1998
Canada					
Ores & concentrates (e)	1 897	2 648	3 137	3 336	4 436
Metal	36 487	23 773	54 237	83 373	113 913
USA					
Ore (c)	4 045	6 148	4 989	3 445	3 441
Metal, unrefined	15 088	9 877	11 760	13 730	17 260
Metal, refined	96 360	111 163	143 263	192 299	256 490
Metal, other	37 677	45 874	59 650	70 310	107 460
Waste & scrap	21 818	14 432	12 995	14 055	16 727
Brazil					
Metal	2 931	147	58	379	174
China					
Metal (d)	*2 400	*1 800	*1 700	*2 000	*8 200
Cyprus					
Metal	2 696	2 430	3 381	4 169	2 031
Hong Kong					
Metal	326 104	265 657	217 535	432 931	231 139
Waste & scrap	1 055	2 907	2 701	4 678	11 808
India					
Metal (a)	39 037	45 677	52 425	265 457	...
Israel					
Metal	£92 962 000	£97 624 000	£97 400 000	£80 131 000	£75 195 000
Waste & scrap	...	...	...	£1 113 000	£1 143 000
Japan					
Metal	197 349	263 216	135 667	119 473	86 017
Waste & scrap	3 815	6 798	137 245	138 396	150 992
Jordan					
Metal	1 174	2 550	2 143	5 675	...
Korea, Republic of					
Metal	58 336	217 102	424 381	604 881	459 244
Macao					
Metal	1 117	420	...	...	...
Malaysia					
Metal	121 857	159 826	...	...	...
Oman					
Metal	11 229	...	...	36 941	...
Pakistan					
Metal	188	12 843	28 450	...	...
Philippines					
Metal	11 862	7 524	879	3 167	...
Saudi Arabia					
Metal	59 426	151 905	88 626	194 416	167 310
Singapore					
Metal	23 199	26 401	31 380	71 860	28 201
Waste & scrap	257	296	625	2 394	6 509
Sri Lanka					
Metal	1 387	971	17 988	27 394	...
Taiwan					
Metal	123 233	108 316	93 139	103 053	64 929
Thailand					
Metal	...	1 305 866	47 911	203 057	...
Australia					
Metal	£368 550 000	£341 417 000	£320 814 000	£361 214 000	£1 200 405 000
Waste & scrap	£817 000	£2 240 000	£1 381 000	£34 000	£5 569 000
New Zealand					
Metal (b)	638	584	...	1 234	1 262

Note(s) :-

(1) In this table the term 'metal' includes both unwrought and partly worked gold but excludes gold coin

(a) Years ended 31 March following that stated

(b) Years ended 30 June of that stated

(c) Au content

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

(e) Au content of all ores and concentrates

Production of Graphite

tonnes

Country	1994	1995	1996	1997	1998
Austria (a)	12 324	12 019	33 122	12 582	10 738
Czech Republic	25 000	27 000	30 000	25 000	28 000
Germany	4 369	5 214	2 603	1 030	...
Norway	5 566	2 558	7 100	7 700	8 300
Romania	2 335	2 179	2 931	*2 500	*2 500
Russia	11 700	13 700	13 928	14 275	...
Turkey	*20 000	*20 000	*20 000	*15 000	*15 000
Ukraine	6 000	8 757	5 367	4 289	4 451
Madagascar	14 593	16 119	11 295	15 397	13 748
Mozambique	430	3 019	3 283	5 125	5 889
Tanzania	-----	100	6 776	*11 000	-----
Zimbabwe	7 890	11 381	7 691	12 779	13 806
Canada	*23 000	*25 000	*25 000	*25 000	...
Mexico	30 863	34 388	40 412	47 982	43 461
Brazil (b)	41 003	33 590	40 466	*40 000	*60 000
China	943 200	2 215 100	1 950 000	1 680 400	...
India (c)	103 053	136 263	117 761	111 518	131 822
Korea, Dem. P.R. of	*38 000	*40 000	*40 000	*40 000	*35 000
Korea, Republic of	4 300	1 938	1 113	83	62
Sri Lanka	2 974	4 825	5 645	5 400	5 910
World Total	1 300 000	2 610 000	2 360 000	2 080 000	2 100 000

Note(s):

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

(2) In addition to the countries listed, Egypt, Namibia, Sweden and the USA are believed to produce graphite

(a) Crude

(b) Including beneficiated and directly shipped material

(c) Years ended 31 March following that stated

Exports of Graphite

Country	1994	1995	1996	1997	1998
Austria	5 103	5 094	5 344	4 063	3 902
Czech Republic	2 294	2 691	2 722	2 831	2 670
France	735	4 286	977	801	349
Germany	8 471	11 191	9 494	9 108	8 843
Italy	164	302	210	129	234
Netherlands	1 128	476	574	536	889
Norway	35	29 440	29 340	...	...
Russia	730	986	1 111	742	613
Spain	775	478	126	59	36
Sweden	3 234	1 421	103	515	2 311
Ukraine	4 223	3 756	4 663	2 328	1 905
United Kingdom	2 455	1 693	2 152	1 871	2 618
Madagascar	12 715	16 522	14 600	13 975	13 087
Mozambique	337	2 818	2 447	4 730	5 558
South Africa (a)	*400	*1 300	*1 900	*1 700	*1 100
Zimbabwe	9 077	49 204	10 943	10 997	12 125
Canada	21 755	...	20 823	26 148	20 617
Mexico	15 916	15 108	14 992	16 651	16 974
USA	20 853	38 217	27 158	41 404	28 769
Brazil	9 668	11 899	11 478	12 614	13 521
China	181 767	193 648	158 368	170 022	180 752
Hong Kong (c)	930	175	219	108	151
India (b)	674	659	248	265	...
Japan	3 052	3 436	3 055	3 027	1 949
Korea, Dem. P.R. of (a)	*6 300	*3 100	*3 000	*5 900	*4 400
Korea, Republic of	5 623	3 551	2 371	2 019	1 255
Sri Lanka	4 089	4 816	503	6 094	...
Australia	782	77	92	18	148

Note(s):

(1) This table excludes synthetic graphite

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

(b) Years ended 31 March following that stated

(c) Re-exports

Imports of Graphite

tonnes

Country	1994	1995	1996	1997	1998
Austria	5 524	7 486	7 038	9 616	9 223
Belgium-Luxembourg	3 229	1 582	1 826	2 428	5 167
Czech Republic	737	977	1 176	634	839
Denmark	602	432	405	452	381
Finland	345	389	360	344	543
France	19 370	3 221	3 934	3 756	1 702
Germany	28 671	36 110	41 345	39 272	39 190
Greece	87	499	521	674	564
Hungary	520	721	813	544	612
Irish Republic	55	240	215	705	221
Italy	10 626	10 261	10 029	9 606	11 407
Netherlands	3 457	21 269	8 604	6 566	4 296
Norway	340	831	212	54	77
Poland	1 433	1 948	2 360	2 187	...
Portugal	400	400	400	229	378
Russia	...	...	1 076	1 561	948
Slovakia	2 200	1 900	2 446	2 756	2 580
Spain	5 833	8 137	4 728	7 005	8 016
Sweden	1 052	595	496	578	489
Switzerland	370	476	440	674	523
Turkey	6 869	5 712	5 093	4 709	4 206
United Kingdom	27 983	30 244	25 349	23 740	27 799
Yugoslavia, Federal Republic	*500	*500	500	639	477
Egypt	700	200	912	787	...
South Africa	4 123	2 963	2 364	2 155	2 055
Canada	6 426	6 691	6 836	8 489	13 496
Mexico	2 142	3 022	2 922	4 333	4 031
USA	53 133	61 520	53 394	58 111	61 578
Argentina	1 420	747	1 155	864	829
Venezuela	1 058	1 056	1 118	930	...
China	322	763	368	801	1 557
Hong Kong	732	449	298	117	43
India (c)	959	773	824	1 081	...
Indonesia	1 101	2 206	1 851	1 832	1 875
Iran (a)	2 133	1 171	...	528	...
Japan	84 797	96 366	87 029	85 249	76 205
Korea, Republic of	37 676	27 732	65 959	46 887	30 722
Malaysia	1 004	2 100	2 300	*2 300	...
Pakistan (b)	1 936	2 225	2 392	2 942	2 030
Philippines	406	269	233	176	...
Saudi Arabia	800	1 346	943	1 410	660
Singapore	943	1 132	594	1 358	765
Taiwan	6 998	11 538	11 648	8 744	9 225
Thailand	1 350	1 160	*1 200	1 524	...
Australia	1 397	1 158	1 128	1 059	745

Note(s) :-

(1) This table excludes synthetic graphite

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

(c) Years ended 31 March following that stated

Production of Gypsum

Country	1994	1995	1996	1997	1998
Armenia	25 000	35 000	15 000	*10 000	...
Austria					
Gypsum	970 170	873 404	887 730	894 398	872 468
Anhydrite	100 139	85 026	97 167	79 528	88 932
Azerbaijan	30 000	10 000	5 000	2 000	3 300
Bosnia & Herzegovina	*30 000	*30 000	*30 000	*30 000	*30 000
Bulgaria	161 000	163 000	168 900	156 000	183 900
Croatia	...	96 590	86 060	102 470	107 800
Czech Republic	591 000	542 000	443 000	241 000	222 000
France	*5 000 000	4 800 000	4 550 000	4 500 000	*4 500 000
Georgia	5 000	1 000	1 000	1 000	...
Germany (a)	2 830 000	2 662 000	2 315 000	2 548 000	2 455 000
Greece	453 722	485 353	546 344	662 646	554 998
Hungary (a)	*150 000	198 000	*190 000	*190 000	*180 000
Irish Republic	367 300	406 000	422 800	477 000	*500 000
Italy	1 370 281	1 492 594	1 274 672	1 211 532	*1 200 000
Latvia	61 026	78 800	63 888	116 916	119 096
Macedonia	33 449	*30 000	*30 000	*30 000	*30 000
Moldova	14 600	13 600	12 700	14 400	19 100
Poland					
Gypsum	944 100	866 300	879 800	899 958	862 820
Anhydrite	111 400	156 900	148 400	135 000	166 100
Portugal	521 384	537 621	520 722	566 517	*550 000
Romania	123 575	110 758	91 000	79 000	75 000
Russia	790 000	697 000	1 534 000	559 200	593 200
Slovakia (a)	122 000	131 000	121 000	116 000	128 000
Spain	8 800 000	9 000 000	8 500 000	*9 000 000	*9 000 000
Switzerland	298 000	*300 000	*300 000	*300 000	*300 000
Turkey	486 704	670 208	754 277	413 802	351 557
Ukraine	245 000	130 000	175 000	*170 000	...
United Kingdom	*2 000 000	*2 000 000	*2 000 000	*2 000 000	*2 000 000
Yugoslavia, Federal Republic of	40 411	40 342	44 257	32 124	27 778
Algeria	*230 000	*250 000	*250 000	*275 000	*275 000
Egypt (b)	1 481 000	2 361 000	575 908	784 836	741 192
Ethiopia (c)	17 431	35 179	33 024	40 072	37 325
Kenya	*30 000	*28 000	*28 000	*25 000	*25 000
Libya	*180 000	*180 000	*180 000	*180 000	*180 000
Mauritania	4 230	10 100	12 500	*10 000	*10 000
Morocco	*450 000	*450 000	*450 000	*450 000	*450 000
Niger	*1 700	*1 800	*1 800	*1 800	*2 000
Nigeria	...	150 000	383 250	*300 000	*300 000
Somalia	*2 000	*2 000	*1 000	*1 000	*2 000
South Africa	304 377	288 178	340 688	365 279	485 749
Sudan	*10 000	*10 000	*5 000	*5 000	*5 000
Tanzania	7 536	1 052	4 629	5	...
Tunisia	*100 000	*100 000	*100 000	*100 000	*100 000
Zambia	*11 000	*11 000	*11 000	*11 000	*11 000
Canada					
Gypsum	9 010 000	8 253 000	8 289 000	8 937 000	8 035 000
Anhydrite	174 800	210 300	188 000	180 100	139 800
Cuba	*125 000	*130 000	*130 000	*130 000	*130 000
Dominican Republic	93 000	95 000	86 000	113 000	81 000
El Salvador	*5 000	*5 300	*5 400	*5 500	*6 000
Guatemala	42 019	...	27 761	30 000	52 216
Honduras	*26 000	*26 000	*26 000	*26 000	*30 000
Jamaica	203 700	208 017	338 875	263 662	154 451
Mexico	5 040 400	4 854 339	6 064 682	5 869 175	5 660 000
Nicaragua	27 800	30 000	20 200	15 820	20 400
USA	17 200 000	16 600 000	17 500 000	18 600 000	19 000 000

Production of Gypsum

tonnes

Country	1994	1995	1996	1997	1998
Argentina	549 759	590 055	633 121	712 935	750 000
Brazil	(d) 792 174	(d) 817 290	(d) 1 003 150	(e) 1 395 664	(e) 1 631 957
Chile	551 821	464 060	520 089	398 354	780 676
Colombia	*450 000	*450 000	522 236	564 681	*570 000
Ecuador	108 200	2 430	2 038	1 510	1 672
Paraguay	*4 500	*4 500	*4 500	*4 000	*5 000
Peru	15 161	25 340	65 446	64 863	71 018
Uruguay	90 367	...	...	...	...
Venezuela	134 787	135 000	56 537	97 457	*80 000
Afghanistan	*3 000	*3 000	*3 000	*3 000	*3 000
Bhutan	45 097	52 102	55 000	*50 000	53 000
China	*6 820 000	*7 340 000	*7 780 000	*9 100 000	*9 000 000
Cyprus	90 000	152 800	94 100	222 000	270 000
India (f)	1 646 385	2 195 111	2 209 937	2 195 423	2 326 876
Iran (g)	7 948 387	8 085 263	7 696 252	*8 000 000	*8 800 000
Iraq	*300 000	*300 000	*300 000	*300 000	*300 000
Israel	73 000	141 000	161 000	121 000	56 000
Jordan	193 000	*190 000	*190 000	193 527	175 807
Kazakhstan	20 000	115 000	-----	-----	-----
Laos	103 000	110 000	113 000	144 306	130 250
Lebanon	*2 000	*2 000	*3 000	*3 000	*3 000
Mongolia	*25 000	*25 000	*25 000	*25 000	*25 000
Myanmar (f)	35 475	37 011	37 500	40 642	*35 000
Oman	121 446	104 490	130 930	113 600	165 000
Pakistan (b)	636 872	474 162	434 438	464 942	305 388
Saudi Arabia	338 147	332 483	356 378	*360 000	*360 000
Syria	304 000	335 683	325 000	*325 000	*325 000
Taiwan	2 876	3 135	2 603	2 613	...
Tajikistan	170 000	170 000	1 000	1 000	...
Thailand					
Gypsum	8 139 817	8 533 225	8 934 492	8 557 584	4 333 804
Anhydrite	-----	-----	317 088	292 441	...
Turkmenistan	*150 000	216 427	169 577	85 000	*100 000
Uzbekistan	105 000	65 000	80 000	80 000	...
Yemen, Republic of	99 000	100 000	97 000	99 000	*100 000
Australia (b)	*1 800 000	1 818 500	2 000 000	2 000 000	*3 000 000
World Total	93 600 000	94 400 000	95 700 000	98 400 000	95 500 000

Note(s):

(1) Some countries produce large quantities of synthetic gypsum. Where possible, this output is excluded from the table.

(a) Including anhydrite

(b) Years ended 30 June of that stated

(c) Years ended 7 July of that stated

(d) Including beneficiated and directly shipped material

(e) Crude

(f) Years ended 31 March following that stated

(g) Years ended 20 March following that stated

Exports of Gypsum

Country	1994	1995	1996	1997	1998
Austria					
Crude	69 861	...	...	57 692	55 761
Calcined	131 354	...	...	90 321	88 194
Belgium-Luxembourg					
Crude	22 951	59 370	24 144	43 879	73 097
Calcined	213 409	3 157	3 048	6 751	3 567
Croatia					
Crude & calcined	...	18 608	854	...	5 542
Czech Republic					
Crude	122 847	101 016	86 176	59 769	68 351
Calcined	...	...	...	5 855	5 570
Denmark					
Crude	33 707	7 095	40 328	60 411	58 092
Calcined	16 813	8 168	19 050	141 826	75 410
Finland					
Crude & calcined	8 810	8 178	1 408	3 492	3 721
France					
Crude	524 429	472 467	441 695	459 164	453 699
Calcined	336 091	491 318	407 573	422 105	405 544
Germany					
Crude	244 740	241 464	222 957	172 589	169 238
Calcined	798 789	806 568	888 118	680 859	828 936
Greece	21 749	22 958	22 062	23 565	28 914
Hungary					
Crude & calcined	...	...	373	535	758
Irish Republic					
Crude	80 359	508	546	528	510
Calcined	39 494	36 129	25 620	38 925	30 307
Italy					
Crude	38 821	47 114	63 190	60 425	73 382
Calcined	28 442	25 812	26 609	23 548	49 598
Latvia	49 045	64 090	40 052	103 751	79 505
Netherlands					
Crude	158 277	56 772	38 187	29 677	20 580
Calcined	10 494	5 994	2 955	2 363	3 339
Poland					
Crude & calcined	20 000	30 100	41 600	87 600	...
Romania	2 610	8 780	6 738	6 565	5 638
Russia					
Crude & calcined	4 238	3 117	2 133	1 044	1 325
Slovakia					
Crude & calcined	...	...	20 500	28 400	29 100
Spain					
Crude	2 121 212	2 589 985	2 265 735	2 920 179	3 515 903
Calcined	12 058	153 541	203 801	309 283	295 504
Sweden					
Crude & calcined	445	684	376	563	885
Switzerland					
Crude	13 770	13 356	17 998	16 816	14 930
Calcined	1 639	1 081	1 844	2 081	4 301
Turkey					
Crude & calcined	11 109	13 036	18 090	32 755	36 608
United Kingdom					
Crude	4 289	2 884	2 059	10 239	8 560
Calcined	19 260	23 362	22 113	25 113	23 820
Egypt					
Crude & calcined	48 000	40 800	23 000	57 865	...
Morocco					
Crude	...	268 600	216 613	225 089	...
Calcined	...	977	14 794	2 794	...
Tunisia					
Crude & calcined	6 508	8 355	15 069	19 829	...
Canada					
Crude	5 972 862	5 579 127	5 604 532	6 053 283	5 660 091
Calcined	2 041	2 871	2 910	1 350	1 530
Guatemala	20 949	22 038	14 387	15 474	33 001

Exports of Gypsum

tonnes

Country	1994	1995	1996	1997	1998
Jamaica	246 036	191 417	192 178	160 972	166 038
Mexico	3 286 416	3 491 049	3 615 400	3 675 870	3 463 116
USA					
Crude	167 536	109 726	233 443	251 780	176 471
Calcined	153 870	161 535	142 593	237 885	211 499
Argentina	21 061	41 231	32 098	34 869	29 189
Colombia	...	11 426	6 347	3 208	...
Venezuela	28 602	16 106	4 553	4 542	...
China					
Crude	41 790	66 568	70 692	120 608	114 068
Calcined	6 385	13 718	8 626	7 898	10 850
Cyprus					
Crude & calcined	130 103	126 448	196 622	215 634	270 271
Hong Kong (c)	230 214	458 066	213 163	47 654	18 051
India					
Crude & calcined (b)	28 428	43 770	67 105	20 198	...
Indonesia					
Crude	5 500	0	1	----	373
Iran (a)	32 115	96 740	...	263 338	...
Japan					
Crude	2 601	1 844	1 712	1 727	1 212
Calcined	6 413	5 160	4 679	3 794	3 432
Korea, Republic of					
Crude	687	43	39	1 353	90
Calcined	5 237	5 890	6 560	6 083	7 006
Laos	97 860	124 000	110 740	146 230	120 819
Philippines					
Crude	52 253	14 959	21 034	25 812	...
Calcined	...	20 128	10 201	29 322	...
Saudi Arabia					
Crude & calcined	43 250	...	50 625	62 762	...
Singapore					
Crude & calcined	11 930	11 558	20 355	12 740	17 727
of which, re-exports	6 807	5 321	2 881	2 475	800
Syria	44 071	53 893	40 836	18 823	...
Taiwan	24 824	18 688	12 480	10 388	7 071
Thailand					
Crude	6 492 562	6 511 788	6 425 567	6 772 085	...
Calcined	63 201	73 450	80 942	100 004	...
Australia					
Crude	227 488	131 107	136 209	303 417	764 832
Calcined	8 844	10 402	11 673	15 136	11 315

Note(s):

(1) In this table the term 'crude' may include some anhydrite

(a) Years ended 20 March following that stated

(b) Years ended 31 March following that stated

(c) Re-exports

Imports of Gypsum

Country	1994	1995	1996	1997	1998
Austria					
Crude	14 923	...	...	22 130	20 698
Calcined	21 391	...	...	48 817	43 945
Belgium-Luxembourg					
Crude	665 494	644 976	610 516	588 067	575 917
Calcined	336 546	396 698	356 036	365 400	381 601
Croatia					
Crude & calcined	...	18 287	25 918	35 642	37 026
Czech Republic					
Crude	1 813	7 622	22 088	27 283	34 531
Calcined	...	...	...	25 795	29 939
Denmark					
Crude	242 511	350 172	339 249	241 900	269 006
Calcined	17 591	27 285	6 787	6 567	10 061
Finland					
Crude	145 131	117 377	145 974	210 869	263 557
Calcined	5 349	6 133	6 614	7 898	6 344
France					
Crude	200 473	190 787	198 820	177 004	245 432
Calcined	47 012	18 695	26 220	29 439	35 933
Germany					
Crude	285 461	190 479	177 105	159 545	180 628
Calcined	238 835	142 560	99 327	73 950	71 634
Greece					
Crude	86	5 729	2 958	10 033	1 229
Calcined	1 396	2 506	2 089	1 736	1 963
Hungary					
Crude	56 822	50 700	48 792	62 476	66 295
Iceland	4 558	4 617	4 033	6 155	8 042
Irish Republic					
Crude	1 201	2 820	1 307	6 892	6 814
Calcined	3 258	4 263	3 793	3 886	1 678
Italy					
Crude	5 763	7 196	5 636	546	715
Calcined	19 386	19 470	18 992	19 402	18 731
Lithuania	...	43 400	13 750	40 939	30 365
Netherlands					
Crude	199 304	222 976	284 693	230 907	182 423
Calcined	109 948	317 815	344 334	328 365	335 844
Norway					
Crude	88 788	66 096	43 157	29 482	28 015
Calcined	208 560	244 012	262 186	332 441	375 899
Poland					
Crude	4 080	7 127	4 700	5 900	...
Calcined	18 201	19 148	...	...	...
Portugal					
Crude	...	...	25 784	39 636	42 798
Calcined	(d) 129 224	(d) 143 378	134 296	169 780	233 205
Romania	2 000	3 200	3 400	4 573	4 982
Russia	63 286	58 135	42 177	58 877	33 317
Slovakia					
Crude & calcined	...	...	109 608	108 726	88 800
Slovenia	(a) *46 000	(a) *36 000	68 146	69 099	73 684
Spain					
Crude	490	117	2 273	...	6 021
Calcined	16 388	30 134	24 968	46 213	48 781
Sweden					
Crude	277 190	192 763	213 335	185 952	321 316
Calcined	6 165	20 962	109 118	92 476	57 108
Switzerland					
Crude	46 986	48 151	46 420	57 448	65 623
Calcined	73 616	66 464	62 421	67 896	71 705
Turkey	5 935	47 859	8 059	39 120	30 198
United Kingdom					
Crude	412 538	*800 000	586 999	521 455	331 785
Calcined	42 960	55 364	43 466	42 859	30 479

Imports of Gypsum

tonnes

Country	1994	1995	1996	1997	1998
Burkina Faso	...	4 000	4 278	8 121	9 876
Egypt					
Crude & calcined	5 600	2 500	3 353	6 494	...
South Africa					
Crude & calcined	7 762	8 276	9 468	8 767	9 056
Tunisia					
Crude & calcined	673	1 076	1 015	1 305	...
Canada					
Crude	292 156	177 326	237 158	207 538	96 590
Calcined	37 185	35 375	33 077	31 775	38 463
Costa Rica					
Crude & calcined	39 434	18 879	59 576	36 482	...
El Salvador					
Crude & calcined	49 373	28 475	17 327	16 381	33 439
Guadeloupe	...	7 980	13 103	10 272	12 622
Martinique	...	4 370	7 454	10 143	6 394
Mexico					
Crude	890	1 469	3 376	4 942	4 694
Calcined	21 487	21 134	20 791	21 467	23 695
Panama	37 585	21 124	14 505	16 388	11 301
Trinidad & Tobago					
Crude & calcined	50 675	12 843	...	...	...
USA					
Crude	8 469 787	8 158 996	8 050 996	8 414 117	8 678 644
Ground & calcined	4 112	8 486	10 766	9 523	11 384
Colombia	103 554	154 714	119 818	219 546	217 046
Ecuador	35 210	44 852	33 079	71 176	116 229
Paraguay					
Crude & calcined	10 923	15 131	24 299	11 801	...
Uruguay					
Crude & ground	13 229	24 847	20 607	49 422	51 768
Venezuela	156 934	247 377	207 775	194 853	...
Abu Dhabi	24 606	29 530	52 272	45 311	25 661
Bahrain	20 338	9 205	20 242	6 651	5 710
China					
Crude	4 517	3 978	3 870	4 416	4 398
Calcined	10 507	15 542	15 561	16 299	15 085
Hong Kong					
Crude	102 838	74 532	57 019	70 968	10 969
Calcined	21 950	20 852	22 050	19 536	16 116
India					
Crude & calcined (c)	13 132	23 185	10 145	16 253	...
Indonesia	283 423	230 302	366 076	543 832	602 581
Israel (a)	*4 100	*6 500	...	...	...
Japan					
Crude	4 120 149	3 982 086	4 090 538	4 814 767	2 928 552
Calcined	7 076	3 337	3 400	8 195	6 151
Jordan	10 234	9 649	9 248	8 097	...
Korea, Dem. P.R. of (a)	*42 500	*23 200	...	...	...
Korea, Republic of					
Crude	644 527	775 411	827 230	930 201	515 582
Calcined	2 237	8 361	7 669	3 721	2 644
Kuwait					
Crude	151 461	217 856	186 903	189 795	...
Kyrgyzstan					
Crude & calcined	*17 000	19 100	28 898	*29 000	...
Macao	34 831	36 016	21 739	27 237	...
Malaysia					
Crude & calcined	476 708	550 430	770 000	...	...
Philippines					
Crude	144 975	198 723	211 206	280 900	...
Calcined	13 217	12 298	10 201	12 063	...
Qatar	...	1 555	300	2 635	...
Saudi Arabia					
Crude & calcined	20 190	35 721	36 214	39 002	31 885

Imports of Gypsum

Country	1994	1995	1996	1997	1998
Singapore					
Crude & calcined	125 306	137 797	175 992	110 256	128 390
Sri Lanka	36 435	45 529	46 080	52 318	...
Taiwan					
Crude	735 191	783 557	684 889	810 556	600 068
Calcined	6 010	6 162	4 199	6 606	4 029
Thailand					
Crude	238	660	2 126	79 150	...
Calcined	7 953	6 883	4 414	3 100	...
Australia					
Crude	28 810	42 759	1 351	11 928	2 877
Calcined	19 645	1 313	3 136	2 153	2 471
New Caledonia					
Crude & calcined	5 873	6 410	5 361	6 246	5 268
New Zealand					
Crude & calcined (b)	126 817	164 011	...	132 783	317 824

Note(s) :-

(1) In this table the term 'crude' may include some anhydrite

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

(b) Years ended 30 June of that stated

(c) Years ended 31 March following that stated

(d) Including 'crude'

Iodine

Production of Iodine

kilograms

Country	1994	1995	1996	1997	1998
Azerbaijan	55 000	30 000	15 000	5 000	...
Russia	40 000	20 000	9 000	73 000	...
USA	1 628 000	1 220 000	1 270 000	1 320 000	1 490 000
Chile (a)	4 883 225	6 400 616	6 332 255	8 832 344	9 851 673
China	*500 000	*500 000	*500 000	*500 000	*500 000
Indonesia	89 098	76 824	*75 000	83 000	66 000
Japan	5 592 000	5 492 000	6 178 000	6 036 000	*6 000 000
Turkmenistan	210 000	136 700	35 000	30 000	...
World Total	13 000 000	13 900 000	14 400 000	16 900 000	18 000 000

Note(s):

(a) Exports

Exports of Iodine

Country	1994	1995	1996	1997	1998
Azerbaijan	48 000	19 000	9 000	7 000	...
Belgium-Luxembourg	478 600	112 000	1 000 000	1 558 600	1 597 700
France	35 700	53 000	74 000	73 900	43 700
Germany	521 800	584 400	432 700	324 200	539 600
Irish Republic	...	...	...	2 000	13 613
Italy	2 900	...	...	45 884	17 201
Lithuania	...	...	...	2 000	2 000
Russia	11 000	-----	27 000	21 000	69 000
Spain	4 000	8 000	...	19 037	41 526
United Kingdom	167 212	314 960	224 034	184 176	103 615
Canada	17 396	47 167	36 755	56 717	54 940
USA	1 191 438	1 666 488	2 576 096	3 257 253	3 196 101
Brazil	18 325	10 657	67 250	34 555	25 000
Chile	4 883 225	6 400 616	6 332 255	8 832 344	9 851 673
China	8 030	3 203	3 101	19 500	26 070
Indonesia	71 000	75 000	58 000	33 459	19 000
Japan	6 225 195	5 337 758	5 572 130	5 602 646	4 994 110
Singapore	...	...	...	10 525	4 378
of which, re-exports	...	...	...	10 320	3 361
Australia	250	150	302	200	250

Imports of Iodine

kilograms

Country	1994	1995	1996	1997	1998
Austria	12 700	17 500	42 000	87 100	97 900
Belgium-Luxembourg	21 000	27 000	44 000	1 427 000	1 745 600
Czech Republic	...	...	...	21 000	8 000
Denmark	3 500	26 200	20 300	24 219	26 008
Finland	...	53 000	15 000	2 496	3 610
France	1 489 100	1 397 000	1 739 000	1 880 600	1 838 900
Germany	943 900	1 217 200	1 232 500	1 229 900	1 282 900
Greece	...	...	...	23 000	13 000
Hungary	6 400	...	...	...	...
Irish Republic	...	...	...	254 601	90 707
Italy	656 800	...	...	944 562	841 025
Lithuania	...	...	...	3 000	3 000
Netherlands	954 000	952 000	...	1 373 000	1 845 000
Norway	539 000	591 000	439 000	549 692	351 791
Poland	67 000	44 000	33 000	31 000	...
Portugal	...	...	15 600	86 325	24 990
Romania	...	...	...	1 000	6 000
Russia	...	...	...	84 000	62 000
Spain	140 000	674 000	...	589 862	608 324
Sweden	2 000	...	...	2 000	10 000
Switzerland	84 383	74 981	65 784	62 428	8 784
Ukraine	...	14 752	1 613	12 486	6 960
United Kingdom	1 654 445	1 854 757	3 350 534	1 353 469	1 696 524
Yugoslavia, Federal Republic	...	...	...	24 000	8 000
South Africa	...	10 968	16 098	15 684	13 346
Tunisia	266	...	1 553	799	...
Canada	343 094	393 931	426 522	641 446	529 337
Mexico	1 108 598	1 685 447	1 490 841	...	...
USA	4 218 987	3 840 470	4 649 705	6 016 775	5 727 186
Brazil	409 000	411 000	...	298 000	418 000
Uruguay	1 700	1 500	...	1 600	2 000
Venezuela	2 956	17 049	2 622	13 000	...
China	20 727	143 292	41 258	346 284	575 456
Cyprus	6 122	6 412	6 004	17 693	16 073
Hong Kong	...	...	...	265 224	184 009
India (a)	819 232	601 579	483 150	477 125	...
Indonesia	...	...	8 241	170 905	18 193
Japan	229 100	334 400	142 800	205 206	349 110
Korea, Republic of	21 102	31 520	24 191	35 465	49 193
Pakistan (b)	19 670	...	14 433	21 338	27 976
Philippines	5 468	...	9 639	6 331	...
Singapore	...	...	...	3 576	8 856
Sri Lanka	44	741	1 136	422	...
Taiwan	23 815	34 112	32 720	28 709	28 227
Thailand	11 879	11 497	7 259	8 216	...
Australia	31 538	35 040	34 029	37 663	56 538
New Zealand (b)	26 221	28 257	...	35 699	29 481

Note(s) :-

(a) Years ended 31 March following that stated

(b) Years ended 30 June of that stated

Production of Iron Ore

Country	1994	1995	1996	1997	1998
Austria	1 644 000	2 107 000	1 860 300	1 794 129	1 792 000
Bosnia & Herzegovina	*200 000	*150 000	*100 000	...	...
Bulgaria	466 000	468 600	1 000 000	858 000	895 000
Finland	11 000	-----	-----	-----	...
France	2 418 000	1 497 000	1 460 000	528 000	*300 000
Germany (a)	145 760	68 720	104 280	200 940	*200 000
Macedonia	*20 000	*20 000	*20 000	*20 000	*20 000
Norway	2 459 955	2 168 381	1 554 599	710 000	621 000
Portugal (a)	14 330	14 535	18 620	18 905	20 200
Romania	950 800	865 000	860 000	756 000	...
Russia	73 300 000	78 300 000	72 100 000	70 900 000	72 300 000
Slovakia	1 021 000	405 000	436 000	452 800	479 200
Spain	2 082 276	2 028 798	1 263 318	57 930	52 000
Sweden	19 909 000	21 662 000	21 288 000	21 893 000	20 930 000
Turkey	5 772 046	4 931 176	6 279 951	5 986 900	5 885 429
Ukraine	109 800 000	111 700 000	104 000 000	116 100 000	110 800 000
United Kingdom	1 271	1 051	1 190	1 210	1 207
Yugoslavia, Federal Republic of	9 320	5 520	5 200	7 230	5 125
Algeria	2 014 000	2 192 000	2 244 000	1 637 000	1 783 000
Egypt (b)	2 703 000	2 433 000	2 429 901	2 662 447	2 941 798
Mauritania	11 400 000	11 300 000	11 400 000	11 700 000	*11 400 000
Morocco	65 233	47 192	11 842	12 011	5 685
Nigeria	-----	-----	31 912	...	...
South Africa (c)	32 321 215	31 945 511	30 829 900	33 225 130	32 965 235
Tunisia	288 000	226 000	238 800	264 400	221 800
Zimbabwe	3 500	311 352	323 942	479 032	371 589
Canada (d)	36 566 000	37 288 000	35 689 000	37 277 000	38 875 000
Mexico	8 358 000	8 523 000	9 257 000	9 515 000	9 597 000
USA	58 454 000	62 501 000	62 083 000	62 971 000	62 931 000
Argentina	67 000	1 000	...	...	...
Brazil (e)	177 366 940	184 540 460	174 190 720	186 700 000	199 500 000
Chile	8 340 505	8 431 647	9 081 661	8 738 191	9 112 055
Colombia	609 915	734 000	605 716	754 772	525 825
Peru	6 943 437	5 975 967	4 369 383	4 746 070	4 880 409
Venezuela	18 318 464	18 954 920	18 454 912	18 359 509	16 784 217
China	250 560 000	262 099 600	252 282 700	268 612 000	246 891 000
India (f)	64 507 000	67 418 000	68 173 000	75 723 000	70 683 000
Indonesia	334 895	348 371	425 101	487 354	560 524
Iran (g)	6 244 735	6 463 440	7 426 606	*10 000 000	*10 000 000
Japan	3 058	2 959	3 563	3 595	1 720
Kazakhstan	20 093 800	29 108 400	25 954 400	26 309 400	*18 000 000
Korea, Dem. P.R. of	*9 000 000	*8 000 000	*2 000 000	*2 000 000	...
Korea, Republic of	191 313	184 443	221 163	295 960	238 252
Malaysia (d)	243 182	202 322	325 114	269 087	376 009
Thailand	142 795	34 480	85 880	43 840	90 700
Australia	128 493 000	142 936 000	152 000 000	157 766 000	153 243 000
New Zealand	2 080 115	2 362 197	2 333 715	2 477 728	2 200 000
World Total	1 066 000 000	1 121 000 000	1 085 000 000	1 143 000 000	1 111 000 000

Note(s):

(1) In addition to the countries listed, Vietnam is believed to produce iron ore

- (a) Including manganiferous iron ore
- (b) Years ended 30 June of that stated
- (c) Including by-product magnetite
- (d) Including by-product iron ore
- (e) Including beneficiated and direct shipping ore
- (f) Years ended 31 March following that stated
- (g) Years ended 20 March following that stated

Exports of Iron Ore

tonnes

Country	1994	1995	1996	1997	1998
Belarus (d) (e)	*2 900	...	*12 000	*79 200	...
Belgium-Luxembourg					
Iron ore	64 866	35 404	67 208	12 616	13 880
Burnt pyrites	1 572	----	----	----	18 190
France	2 441 929	1 639 443	1 293 802	584 665	37 351
Georgia (d)	...	...	*5 000	*52 600	*48 500
Germany					
Iron ore	85 756	65 232	34 034	14 176	4 461
Burnt pyrites	35 919	16 165	12 886	94 633	13 678
Italy					
Burnt pyrites	50 628	8 511	18 957	17 296	48 802
Netherlands					
Iron ore	29 837	163 982	292 784	107 663	29 344
Burnt pyrites	...	2 031	16 196	63 895	44 352
Norway					
Iron ore	2 092 396	1 018 254	610 787	270 815	50 829
Burnt pyrites	172 612	153 439	155 982	87 562	64 053
Poland	54 435	130 480	30 396	2 000	...
Russia	9 800 000	11 256 800	13 833 500	11 700 000	13 800 000
Slovakia	58 000	80 000	95 000	79 500	...
Spain					
Iron ore	1 516 162	1 479 841	975 353	43 224	55 173
Burnt pyrites	137 508	139 156	198 896	138 015	55 052
Sweden	15 394 000	16 917 210	15 172 628	17 571 842	14 631 068
Ukraine	21 100 000	19 138 510	19 108 682	20 083 455	17 703 014
United Kingdom	1 847	838	688	397	438
Yugoslavia, Federal Republic of					
Burnt pyrites	...	...	...	17 219	16 157
Liberia	----	180 000	----	100 000	...
Mauritania	10 342 000	11 514 000	11 158 000	11 700 000	...
Morocco					
Iron ore	2 761	1 531	----	...	...
Burnt pyrites	29 500	26 891	13 140	5 300	...
South Africa	19 605 138	21 847 012	19 328 139	20 729 659	22 093 000
Tunisia	8 228	11 337	14 658	9 025	...
Canada	29 993 393	28 840 291	28 880 500	33 142 058	30 691 746
USA (b)	4 930 993	5 227 162	6 244 606	6 392 675	6 065 078
Bolivia	2 500	----	----	----	----
Brazil	123 062 432	130 178 346	128 989 790	134 092 571	150 128 576
Chile	6 938 960	6 161 316	6 982 429	6 726 425	7 071 147
Peru	6 063 064	6 100 000	4 100 000	3 800 000	4 600 000
Venezuela	10 711 000	10 612 000	9 579 320	9 321 862	8 603 412
India (c)	24 004 646	31 719 565	17 627 888	19 498 132	...
Kazakhstan	...	...	...	8 622 565	7 353 001
Korea, Dem. P.R. of (d)	*300 000	*231 000	*177 400	*167 700	*82 800
Malaysia	1 707	2 973	12 012	...	...
Philippines	4 708 759	4 744 000	4 546 000	4 500 000	...
Australia					
Iron ore	119 093 070	130 367 019	128 273 927	146 757 247	136 396 291
Burnt pyrites	54 293	----	----	----	----
New Zealand (a)	1 232 504	1 231 527	1 229 742	891 786	642 022

Note(s):

- (a) Years ended 30 June of that stated
(b) Including burnt pyrites
(c) Years ended 31 March following that stated
(d) BGS estimates, based on known imports into certain countries
(e) Re-exports

Imports of Iron Ore

Country	1994	1995	1996	1997	1998
Austria					
Iron ore	3 921 881	4 636 000	4 335 000	5 101 249	5 237 875
Burnt pyrites	18 257	2 427	1 065	1 487	2 076
Belgium-Luxembourg (a)	17 010 881	15 330 723	12 862 678	11 161 287	13 493 908
Bulgaria	819 500	1 484 326	1 143 871	1 992 564	...
Czech Republic	7 283 000	9 146 000	8 255 000	7 383 349	7 396 085
Denmark					
Iron ore	33 586	11 406	4 565	5 570	2 829
Burnt pyrites	37 825	56 850	48 625	21 828	66 946
Finland	3 617 463	2 964 991	3 305 768	3 731 829	3 922 531
France					
Iron ore	20 098 179	20 204 325	18 244 000	20 212 123	19 746 303
Burnt pyrites	8 604	17 196	17 819	13 329	8 337
Germany					
Iron ore	42 693 538	43 219 670	39 303 336	41 686 890	53 595 582
Burnt pyrites	79 313	96 560	71 484	94 633	86 364
Greece					
Burnt pyrites	45 405	65 276	91 592	61 204	39 557
Hungary	2 179 368	2 090 682	2 315 584	1 467 892	2 063 600
Iceland	17 000	20 000	22 736	24 560	22 768
Italy (a)	16 402 741	18 306 000	16 047 940	16 663 374	15 717 985
Lithuania					
Burnt pyrites	7 654	6 755	4 367	1 951	5 541
Netherlands					
Iron ore	8 550 182	8 742 225	8 332 365	8 595 877	8 827 125
Burnt pyrites	12 474	6 482	51 781	57 481	27 794
Norway	6 836	68 461	470 188	561 474	529 789
Poland					
Iron ore	8 413 598	10 529 085	(a) 9 803 503	(a) 10 583 000	...
Burnt pyrites	3 413	346 360	...	...	...
Portugal	593 827	689 164	454 811	558 546	590 086
Romania	5 452 091	6 278 469	5 843 451	6 625 253	6 569 462
Russia					
Iron ore	2 057 000	4 325 000	4 372 017	5 392 492	6 562 256
Burnt pyrites	...	...	7 109	3 552	8 805
Slovakia	4 865 000	4 888 000	4 180 000	4 307 000	3 975 500
Spain	7 584 042	7 190 450	6 105 975	5 858 327	6 583 581
Sweden					
Iron ore	382 000	183 000	144 669	102 638	69 083
Burnt pyrites	...	784	5 651	10 694	22 613
Switzerland (a)	23 030	21 341	18 579	14 720	14 373
Turkey	1 951 329	3 221 358	2 991 253	2 900 453	3 857 735
Ukraine	578 000	3 003 000	2 308 136	1 881 478	3 369 816
United Kingdom					
Iron ore	19 466 890	20 705 671	20 304 347	21 032 971	20 762 574
Burnt pyrites	5	8 188	3 555	18 409	25 787
Yugoslavia, Federal Republic	400 000	250 000	987 662	1 067 222	52 515
Egypt	988 000	1 039 000	881 266	877 995	...
Libya	1 300 000	1 300 000	1 500 000	1 400 000	...
Nigeria	100 000	80 000	50 000	50 000	...
Tunisia	81 399	34 894	73 231	111 483	...
Canada	5 235 832	5 968 843	6 873 506	7 081 265	7 200 963
Mexico	34 573	824 207	1 310 474	2 885 308	3 954 913
Trinidad & Tobago	1 450 526	1 531 650	1 183 178	1 052 433	...
USA (a)	17 649 717	17 395 498	18 396 735	18 595 659	16 973 180
Argentina	3 819 661	4 361 701	4 947 040	5 054 185	5 558 631
Paraguay					
Iron ore	47 403	97 148	43 147	48 990	...
Burnt pyrites	47 008	6 615	...	...	...
Abu Dhabi	39 881	66 652	33	40 428	21 020
China					
Iron ore	37 231 349	41 057 844	43 873 023	55 067 487	51 594 678
Burnt pyrites	111 557	96 011	937	38 346	176 040
India (d)	1 522 903	879 131	851 790	371 390	...

Imports of Iron Ore

tonnes

Country	1994	1995	1996	1997	1998
Indonesia					
Iron ore	373 679	495 225	464 874	1 472 099	1 310 494
Burnt pyrites	1 232 721	2 011 921	2 047 762	398 536	98
Iran					
Iron ore	(b) *2 752 000	2 360 104	2 600 000	1 717 999	...
Burnt pyrites (e)	60 030	1 737 793	...	...	...
Japan	116 089 531	120 434 681	119 204 779	126 600 755	120 618 050
Korea, Republic of					
Iron ore	34 200 227	35 046 110	22 568 274	38 592 030	33 611 499
Burnt pyrites	49 767	29 181	----	----	----
Malaysia	1 247 012	1 757 773	1 769 231	2 100 000	...
Pakistan (c)	4 562 000	1 632 000	1 935 459	1 228 993	1 928 368
Philippines	4 500 000	5 000 000	4 800 000	4 800 000	...
Qatar	896 000	940 167	909 584	725 578	...
Saudi Arabia	3 268 188	2 863 970	2 552 569	2 360 040	2 790 798
Taiwan	8 341 715	9 192 402	10 074 552	14 042 963	14 042 341
Thailand	103 380	2 238	1	66 323	...
Australia	3 999 983	4 196 787	4 081 167	5 558 851	4 926 790

Note(s) :-

- (a) Including burnt pyrites
- (b) BGS estimates, based on known exports from certain countries
- (c) Years ended 30 June of that stated
- (d) Years ended 31 March following that stated
- (e) Years ended 20 March following that stated

Production of Pig Iron

Country	1994	1995	1996	1997	1998
Austria	3 319 884	3 878 212	3 429 208	3 965 864	4 034 229
Belgium	8 979 387	9 198 831	8 626 651	8 076 475	8 618 000
Bosnia & Herzegovina	*100 000	*100 000	*100 000	*100 000	*100 000
Bulgaria	1 441 000	1 606 700	1 513 000	1 643 000	1 400 000
Czech Republic	5 280 000	5 274 000	4 898 000	5 195 000	4 982 000
Finland	2 597 000	2 241 875	2 456 932	2 786 126	2 920 000
France	12 917 087	12 760 233	11 999 457	13 315 344	*13 500 000
Germany	30 203 000	30 238 000	30 382 000	31 319 000	30 575 000
Hungary	1 589 910	1 514 597	1 496 370	1 139 934	1 258 851
Italy	11 159 000	11 663 000	10 320 000	11 304 000	10 770 000
Luxembourg	1 926 890	1 028 230	829 010	438 030	...
Netherlands	5 443 400	5 530 100	5 543 900	5 805 000	5 562 000
Poland	6 865 600	7 373 300	6 540 100	7 295 637	6 128 484
Portugal	415 000	415 000	423 000	431 000	365 000
Romania	3 495 600	4 203 100	4 024 600	4 556 000	4 500 000
Russia	36 500 000	39 800 000	37 148 200	37 327 600	34 826 700
Slovakia	3 330 000	3 207 000	2 928 000	3 072 000	2 756 000
Spain	5 447 000	5 106 000	4 127 000	3 927 000	4 278 000
Sweden	3 037 000	3 020 000	3 130 000	3 060 000	3 149 000
Switzerland	88 000	97 000	*100 000	*100 000	*100 000
Turkey	4 604 000	4 403 000	5 253 000	5 565 000	5 286 000
Ukraine	20 200 000	18 000 000	17 800 000	20 600 000	20 900 000
United Kingdom	11 942 800	12 235 800	12 830 200	13 054 500	12 746 100
Yugoslavia, Federal Republic of	16 763	107 836	535 213	906 704	825 916
Algeria	918 700	962 200	850 500	526 000	500 000
Egypt	1 933 000	1 914 000	2 054 000	2 437 000	3 400 000
Libya	852 000	963 000	862 000	1 007 000	*1 000 000
Morocco	*15 000	*15 000	*15 000	*15 000	*15 000
Nigeria	40 000	36 000	12 000	----	----
South Africa	7 022 000	7 173 000	6 911 000	7 307 000	6 800 000
Tunisia	144 500	151 700	145 100	150 000	122 900
Zimbabwe	150 000	205 000	219 000	216 000	217 000
Canada	8 106 006	8 464 191	8 638 007	8 669 788	8 936 802
Mexico	6 717 163	7 842 100	8 023 369	8 889 365	10 116 000
Trinidad & Tobago	946 700	1 039 900	954 500	1 133 800	1 023 100
USA	49 900 000	51 400 000	49 900 000	50 100 000	49 900 000
Argentina	2 658 223	2 896 058	3 388 003	3 576 039	3 660 000
Brazil	25 310 000	25 309 000	24 313 000	25 336 000	25 447 000
Chile	885 900	854 563	995 920	941 465	992 000
Colombia	244 518	312 841	286 275	323 701	257 000
Paraguay	90 018	103 130	103 562	78 615	66 000
Peru	217 348	250 239	294 840	367 795	344 000
Venezuela	4 802 745	5 099 302	5 731 614	5 636 623	5 048 000
China	97 410 000	105 292 700	107 225 000	115 114 100	118 521 000
India (a)	17 733 000	18 749 000	19 558 000	19 560 000	18 259 000
Indonesia	1 618 000	1 709 000	1 723 000	1 535 000	1 640 000
Iran	4 744 000	4 832 000	5 629 000	6 481 000	5 600 000
Japan	73 776 217	74 904 502	74 596 833	78 519 469	74 981 000
Kazakhstan	2 432 000	2 489 000	2 536 000	3 089 000	2 594 000
Korea, Dem. P.R. of	*1 500 000	*500 000	*500 000	*500 000	*250 000
Korea, Republic of	21 169 261	22 343 857	23 009 717	22 712 406	23 299 189
Malaysia	1 149 000	1 228 000	1 172 000	1 486 000	910 000
Myanmar	13 000	20 000	40 000	40 000	*40 000
Pakistan	1 044 710	1 100 000	1 500 000	1 400 000	*1 500 000
Qatar	600 000	622 000	635 000	564 000	710 000
Saudi Arabia	2 111 000	2 129 000	2 296 000	2 107 000	2 270 000
Taiwan	5 968 000	6 056 000	6 050 000	8 870 000	*8 800 000
Australia	7 855 000	7 861 000	7 381 000	7 884 000	7 724 000
New Zealand	563 000	626 000	619 000	534 000	*500 000
World Total	531 500 000	548 500 000	544 600 000	572 000 000	565 000 000

Note(s):

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

(a) Years ended 31 March following that stated

Production of Crude Steel

tonnes

Country	1994	1995	1996	1997	1998
Albania	19 000	22 000	23 000	24 000	*24 000
Austria	4 398 887	4 919 840	4 442 000	5 181 000	5 282 000
Azerbaijan	40 000	20 000	18 000	24 600	8 300
Belarus	880 000	744 000	795 000	1 110 000	1 300 000
Belgium	11 265 234	11 539 883	10 751 711	10 717 603	11 404 000
Bosnia & Herzegovina	*115 000	*115 000	68 000	72 000	85 000
Bulgaria	2 491 000	2 723 500	2 457 000	2 638 190	2 241 700
Croatia	63 352	45 373	45 752	70 660	100 535
Czech Republic	7 085 000	6 746 000	6 257 000	6 495 000	6 253 000
Denmark	723 000	648 000	739 000	787 000	800 000
Estonia	3 000	3 000	3 000	4 000	...
Finland	3 420 000	3 175 671	3 301 436	3 734 299	3 952 000
France	18 030 510	18 100 061	17 632 984	19 767 457	20 124 000
Georgia	121 218	88 400	82 681	103 152	120 000
Germany	40 837 000	42 051 000	39 793 000	45 007 000	*44 000 000
Greece	847 612	939 170	846 885	1 016 000	1 113 000
Hungary	1 937 000	1 864 657	2 059 942	1 818 523	1 939 784
Irish Republic	316 000	309 900	340 510	336 361	354 780
Italy	26 151 000	27 766 000	23 911 000	25 841 000	25 678 000
Latvia	331 955	279 326	293 166	464 529	470 835
Lithuania	1 000	700	400	...	...
Luxembourg	3 073 268	2 613 137	2 501 487	2 580 219	2 476 909
Macedonia	92 000	33 000	2 000	...	...
Moldova	633 000	663 000	646 000	754 000	726 000
Netherlands	6 171 200	6 409 100	6 326 000	6 641 000	*6 424 000
Norway	455 922	503 278	510 850	578 000	644 000
Poland	11 113 300	11 890 400	10 432 300	11 585 100	9 915 125
Portugal	749 000	828 000	852 000	911 000	897 000
Romania	5 800 000	6 556 900	6 083 000	6 675 000	6 381 500
Russia	48 800 000	51 600 000	49 253 000	48 502 000	43 800 000
Slovakia	3 974 000	3 958 000	3 458 000	3 484 000	3 177 800
Slovenia	424 000	407 000	328 000	372 690	405 210
Spain	13 445 000	13 802 000	12 161 000	13 770 000	14 854 000
Sweden	4 967 000	4 953 000	4 910 000	5 148 000	5 168 000
Switzerland	1 098 000	739 000	700 000	789 000	...
Turkey	12 624 000	13 183 000	13 382 221	13 644 093	13 351 079
Ukraine	23 500 000	21 856 800	21 948 800	25 285 700	24 105 000
United Kingdom	17 285 800	17 603 600	17 991 700	18 500 500	17 315 000
Yugoslavia, Federal Republic of	137 000	180 000	678 749	978 960	949 314
Algeria	771 700	780 500	590 400	399 000	235 000
Angola	*10 000	----	...	...	...
Congo, Democratic Republic	*30 000	*30 000	*30 000	*30 000	*30 000
Egypt	2 622 000	2 642 000	2 618 000	2 717 000	2 852 000
Ghana	20 000	25 000	26 000	*25 000	...
Kenya	20 000	20 000	20 000	*20 000	*25 000
Libya	874 000	909 000	863 000	897 000	838 000
Mauritania	7 000	5 000	5 000	*5 000	*5 000
Morocco	7 000	5 000	5 000	*5 000	*5 000
Nigeria	58 000	36 000	12 000	----	----
South Africa	8 525 000	8 741 000	7 999 000	8 230 000	7 678 000
Tunisia	182 800	200 700	187 000	195 000	174 000
Uganda	*30 000	*30 000	*30 000	*30 000	*30 000
Zimbabwe	154 000	220 000	212 000	214 000	221 000
Canada	13 896 953	13 996 155	14 637 476	15 458 635	15 832 839
Cuba	130 912	207 259	230 988	342 000	291 000
Dominican Republic	...	...	42 261	82 479	36 000
Mexico	10 260 109	12 147 446	13 171 832	14 218 339	14 213 000
Trinidad & Tobago	630 300	676 100	643 600	747 000	776 900
USA	91 244 000	95 191 000	95 535 000	98 485 000	98 658 000

tonnes

Production of Crude Steel

Country	1994	1995	1996	1997	1998
Argentina	3 289 000	3 568 800	4 075 000	4 168 500	4 216 000
Brazil	25 746 800	25 076 400	25 237 000	26 152 900	25 759 900
Chile	1 039 658	1 014 116	1 178 266	1 167 492	1 171 000
Colombia	693 498	713 648	694 741	733 951	662 000
Paraguay	87 055	94 927	95 543	65 542	56 000
Peru	509 145	511 789	578 382	607 391	630 000
Uruguay	36 110	39 857	33 555	39 070	51 000
Venezuela	3 524 153	3 567 520	3 956 432	3 986 549	3 679 000
Bangladesh (a)	6 054	25 346	20 594	16 271	10 775
China	92 620 000	95 359 900	101 240 600	108 941 700	114 588 400
Hong Kong	*150 000	*150 000	*100 000	...	...
India	19 282 000	22 003 000	23 753 000	24 579 000	23 863 000
Indonesia	3 220 000	4 130 000	4 109 000	3 816 000	...
Iran (b)	4 746 755	4 639 873	5 895 965	*6 300 000	*5 600 000
Israel	180 000	220 000	265 000	*270 000	...
Japan	98 294 563	101 639 573	98 800 671	104 554 086	93 547 990
Kazakhstan	2 968 544	3 026 592	3 216 596	3 880 248	3 082 000
Korea, Dem. P.R. of	1 600 000	600 000	600 000	*600 000	...
Korea, Republic of	34 370 181	37 500 138	39 642 629	42 554 151	39 895 839
Malaysia	2 046 000	2 450 000	3 216 000	2 962 000	1 850 000
Mongolia	...	...	...	22 500	*24 000
Myanmar (c)	16 500	23 500	25 000	*25 000	*24 000
Pakistan	344 000	409 000	416 000	479 002	494 000
Philippines	473 000	923 000	920 000	980 000	...
Qatar	572 000	606 000	616 000	608 000	637 000
Saudi Arabia	2 411 000	2 451 000	2 683 000	2 539 000	2 356 000
Singapore	530 000	521 000	531 000	383 000	...
Sri Lanka	*30 000	*30 000	*30 000	*30 000	*30 000
Syria	*70 000	*70 000	*70 000	*70 000	*70 000
Taiwan	11 590 000	11 605 000	12 655 000	15 478 000	16 922 000
Thailand	1 461 000	2 134 000	2 143 000	2 101 000	*2 100 000
United Arab Emirates	45 000	60 000	90 000	*90 000	...
Uzbekistan	364 300	367 200	444 000	365 000	343 800
Vietnam	301 000	271 000	311 000	314 000	*320 000
Australia (d)	8 455 000	8 447 000	8 400 000	8 769 000	8 888 000
New Zealand	772 296	865 155	774 736	768 631	*750 000
World Total	725 000 000	751 000 000	749 000 000	796 000 000	776 000 000

Note(s):

(1) The figures in this table refer to crude steel and cast semi-manufactures are not included

(a) Years ended 30 June of that stated

(b) Years ended 20 March following that stated

(c) Years ended 31 March following that stated

(d) Including recovery from scrap

Production of Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Albania					
Ferro-chrome	33 764	42 986	31 189	31 445	29 300
Austria					
Ferro-molybdenum	5 600	5 600	4 300	4 600	4 900
Ferro-nickel	5 000	4 300	3 900	3 700	3 300
Ferro-vanadium	5 300	5 400	5 600	5 900	5 900
Belgium					
Ferro-manganese	8 000	8 500	16 500	13 000	14 000
Ferro-silico-manganese	...	7 000	15 000	8 000	6 000
Ferro-molybdenum	10 000	11 500	11 000	8 000	9 000
Ferro-vanadium	3 600	4 300	2 200	2 400	2 200
Bosnia & Herzegovina					
Ferro-silicon	*1 000	*1 000	*1 000	*1 000	*1 000
Silicon metal	*200	*200	*200	*200	*200
Bulgaria					
Ferro-silicon	8 000	7 550	8 300	*8 000	*8 000
Other ferro-alloys	2 000	2 000	2 000	*2 000	*2 000
Croatia					
Ferro-chrome	31 704	26 081	10 559	24 231	11 861
Ferro-manganese	562	----	----	----	----
Ferro-silico-manganese	22 071	----	----	----	----
Finland					
Ferro-chrome & ferro-silico-chrome	253 450	243 845	225 155	236 652	230 906
France					
Ferro-manganese & spiegeleisen	384 105	393 968	402 170	402 377	*400 000
Ferro-silico-manganese	66 230	71 300	61 000	63 000	*65 000
Ferro-silicon	111 590	108 000	103 000	109 000	*110 000
Other ferro-alloys	19 500	55 000	72 000	101 000	...
Silicon metal	66 208	71 447	73 857	72 286	70 082
Georgia					
Ferro-manganese	5 797	12 564	7 612	3 991	...
Ferro-silico-manganese	10 958	7 588	6 995	16 616	...
Other ferro-alloys	2 444	64	1 014	39	...
Germany					
Ferro-chrome	17 283	21 665	25 303	25 856	20 879
Ferro-manganese	*10 000	*10 000	*10 000	...	...
Other ferro-alloys	*30 000	*30 000	*30 000	*30 000	*30 000
Silicon metal	17 416	21 130	22 232	20 599	18 463
Greece					
Ferro-nickel	64 728	68 620	71 204	72 934	62 673
Hungary					
Ferro-alloys	...	...	50 461	51 474	49 180
Iceland					
Ferro-silicon	65 054	70 316	70 520	70 286	62 466
Italy					
Ferro-chrome	22 650	51 017	29 915	11 295	11 487
Ferro-manganese	45 085	40 848	42 727	...	...
Ferro-silico-manganese	79 068	103 961	100 353	*100 000	*100 000
Ferro-silicon	2 347	----	11 741	...	...
Silicon metal	10 000	15 000	14 433	12 619	8 094
Macedonia					
Ferro-chrome	3 164	3 765	3 780	460	----
Ferro-nickel	10 500	9 200	7 900	*7 900	*9 200
Ferro-silicon	58 740	57 200	57 220	*55 000	*55 000
Silicon metal	*1 000	*1 000	*1 000	*1 000	*1 000
Norway					
Ferro-chrome	120 000	148 000	108 900	145 124	174 678
Ferro-manganese	248 648	213 000	215 000	*235 000	*235 000
Ferro-silico-manganese	197 328	*210 000	*210 000	*230 000	*230 000
Ferro-silicon	452 984	474 875	463 423	*420 000	*450 000
Other ferro-alloys	14 000	*15 000	*15 000	*15 000	*15 000
Silicon metal	91 714	100 467	*110 000	*110 000	*140 000
Poland					
Ferro-chrome	8 700	18 300	1 100	6 249	4 212
Ferro-manganese	66 300	46 300	59 900	47 500	50 152
Ferro-silico-manganese	31 800	20 500	25 000	20 000	(a) ...
Ferro-silicon	54 200	70 400	71 800	77 258	74 991
Other ferro-alloys	2 700	3 000	5 800	8 500	28 384

Production of Ferro-Alloys

Country	1994	1995	1996	1997	1998
Romania					
Ferro-chrome	3 885	15 053	9 650	950	850
Ferro-manganese	31 295	28 410	20 150	11 505	*11 000
Ferro-silico-manganese	35 800	57 149	78 590	62 570	*60 000
Ferro-silicon	28 385	19 320	23 827	9 620	*9 500
Silicon metal	*300	*300	*300	*300	*300
Russia					
Spiegeleisen	*7 000	*7 000	*7 000	*7 000	*7 000
Ferro-chrome	265 525	291 058	135 495	248 000	203 199
Ferro-silico-chrome	*40 000	*30 000	...	57 222	29 482
Ferro-manganese	*80 000	82 500	67 000	47 100	45 000
Ferro-nickel	*59 000	*77 000	75 000	*40 000	*30 000
Ferro-phosphorus	2 000	...	2 300	3 600	*3 500
Ferro-silicon	*350 000	*350 000	496 000	498 000	496 000
Other ferro-alloys	*40 000	*40 000	*40 000	*40 000	*40 000
Silicon metal	*40 000	*40 000	*40 000	*40 000	*40 000
Slovakia					
Ferro-chrome	48 555	65 260	19 900	11 394	11 715
Ferro-silico-manganese	...	...	...	45 159	46 627
Ferro-silicon	...	...	...	50 133	49 963
Other ferro-alloys	...	...	...	29 308	54 672
Slovenia					
Ferro-chrome	13 412	23 247	22 819	9 232	10 621
Ferro-silicon	*12 000	*12 000	*10 000	*8 000	*8 000
Spain					
Ferro-chrome	2 300	1 320	805	490	1 145
Ferro-manganese	10 180	10 759	15 701	22 788	18 360
Ferro-silico-manganese	67 309	83 671	101 840	122 199	107 952
Ferro-silicon	29 100	33 249	35 890	38 340	39 115
Silicon metal	12 945	17 780	16 936	19 220	18 424
Sweden					
Ferro-chrome	134 076	130 170	138 110	101 195	123 958
Ferro-silicon	18 584	21 970	21 287	22 410	20 356
Turkey					
Ferro-chrome	97 540	88 561	101 450	108 320	110 175
Ferro-silico-chrome	...	...	...	6 953	6 530
Ferro-silicon	4 930	11 900	4 460	4 730	4 810
Ukraine					
Spiegeleisen	7 000	2 500	800	----	----
Ferro-manganese	250 000	279 300	263 500	307 700	291 500
Ferro-silico-manganese	700 000	624 700	601 400	559 700	485 500
Ferro-nickel	38 800	----	----	----	----
Ferro-silicon	277 400	321 200	254 400	288 200	222 500
Yugoslavia, Federal Republic of					
Ferro-nickel	1 763	2 414	6 501	6 209	1 215
Egypt					
Ferro-silicon (b)	6 955	4 284	17 430	54 080	56 703
Other ferro-alloys (b)	44 393	45 024	26 630	26 220	17 800
South Africa					
Ferro-chrome (c)	1 103 612	1 435 514	1 383 135	1 890 339	2 184 974
Ferro-manganese	590 535	507 173	548 458	498 759	*525 000
Ferro-silico-manganese	290 355	277 625	294 034	326 238	*290 000
Ferro-silicon	94 547	92 667	115 518	102 152	*100 000
Other ferro-alloys	*1 000	*1 000	*1 000	*1 000	*1 000
Silicon metal	36 169	30 082	28 495	34 001	*34 000
Zimbabwe					
Ferro-chrome	182 852	254 142	261 918	233 386	246 782
Ferro-silico-chrome	36 351	46 667	33 175	16 614	21 385
Canada					
Ferro-niobium	96	3 300	3 400	3 400	3 400
Ferro-silicon	*80 000	*80 000	*80 000	*80 000	*70 000
Silicon metal	*30 000	*30 000	*30 000	*30 000	*30 000
Dominican Republic					
Ferro-nickel	80 193	80 710	78 488	85 450	66 000

Production of Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Mexico					
Ferro-manganese	117 062	108 903	126 494	132 481	153 513
Ferro-silico-manganese	72 094	76 948	105 114	116 636	114 566
USA					
Ferro-chrome (c) (d)	67 361	72 469	36 789	60 700	30 000
Ferro-nickel	-----	16 800	30 500	32 100	8 590
Ferro-silicon	359 000	358 000	362 000	359 000	334 000
Other ferro-alloys	200 000	188 000	194 000	...	...
Silicon metal	158 000	158 000	171 000	183 000	188 000
Argentina					
Ferro-manganese	8 117	6 500	7 115	7 672	5 000
Ferro-silico-manganese	29 358	33 507	33 000	25 000	25 000
Ferro-silicon	12 653	9 830	19 000	19 265	11 000
Other ferro-alloys	11 817	11 971	21 858	20 400	23 000
Silicon metal	*5 000	...	...	...	7 000
Brazil					
Ferro-calcium-silicon	23 976	27 192	...	...	...
Ferro-chrome	77 163	95 840	72 609	67 429	65 683
Ferro-silico-chrome	7 735	5 129	4 622	7 056	6 824
Ferro-silico-magnesium	8 412	12 894	13 399	14 076	7 717
Ferro-manganese	199 667	130 207	215 260	152 530	121 633
Ferro-silico-manganese	248 158	167 162	232 218	175 919	124 458
Ferro-nickel	34 157	30 591	29 582	32 015	26 389
Ferro-niobium	17 901	23 185	21 522	25 475	30 973
Ferro-phosphorus	707	695	-----	-----	-----
Ferro-silicon	198 505	243 824	236 838	212 183	166 278
Other ferro-alloys	1 341	669	-----	1 046	1 170
Silicon metal	90 017	115 756	150 054	136 884	126 744
Chile					
Ferro-chrome	1 579	2 730	2 079	*2 000	*2 000
Ferro-manganese	9 620	7 987	8 498	5 608	5 122
Ferro-silico-manganese	997	1 618	1 831	3 175	3 921
Ferro-molybdenum	3 082	3 241	4 222	3 157	*3 000
Ferro-silicon	5 504	4 279	4 650	1 294	*1 000
Colombia					
Ferro-nickel	49 372	56 972	53 549	58 500	65 400
Venezuela					
Ferro-silico-manganese	46 841	52 007	53 034	64 200	*60 000
Ferro-silicon	41 032	50 389	63 131	58 000	*60 000
Bhutan					
Ferro-silicon	*2 000	*12 000	*13 000	*15 000	*18 000
China					
Ferro-chrome	*370 000	600 000	358 000	358 700	423 825
Ferro-silico-chrome	...	...	...	59 900	69 050
Ferro-manganese	*917 000	*1 005 000	*1 150 000	*1 180 000	*1 050 000
Ferro-silico-manganese	*657 000	*830 000	*840 000	*770 000	*700 000
Ferro-silicon	*1 100 000	*1 210 000	*1 490 000	*1 250 000	*1 100 000
Other ferro-alloys	*320 000	*290 000	*277 000	*425 000	*220 000
India					
Ferro-chrome (e)	245 000	352 000	245 000	344 000	*300 000
Ferro-silico-chrome (e)	4 074	880	6 427	311	-----
Ferro-manganese (e)	203 000	180 000	188 000	161 000	*120 000
Ferro-silico-manganese (e)	172 000	188 000	175 000	200 000	*200 000
Ferro-silicon (e)	92 000	74 000	78 330	80 000	*60 000
Other ferro-alloys (e)	*2 500	*2 000	*5 000	*5 000	*5 000
Indonesia					
Ferro-manganese	*10 000	*14 000	*14 000	*15 000	*15 000
Ferro-nickel	28 725	53 675	47 800	*50 000	42 260
Iran					
Ferro-chrome	7 150	11 900	10 500	11 450	13 745
Ferro-silicon	-----	*10 000	*20 000	*20 000	*20 000

tonnes

Production of Ferro-Alloys

Country	1994	1995	1996	1997	1998
Japan					
Ferro-chrome	204 181	221 425	200 365	191 005	142 931
Ferro-manganese	345 153	346 977	343 104	376 663	334 081
Ferro-silico-manganese	69 183	64 870	75 802	78 323	70 886
Ferro-molybdenum	3 930	4 109	4 420	4 328	3 443
Ferro-nickel	242 447	351 337	328 699	352 840	345 772
Ferro-niobium	868	37	-----	-----	(a) ...
Ferro-silicon	12 208	3 650	3 075	3 426	961
Ferro-tungsten	68	120	64	62	61
Ferro-vanadium	3 418	3 618	3 902	4 232	4 073
Other ferro-alloys	6 363	4 669	4 820	9 594	1 101
Kazakhstan					
Ferro-chrome	326 228	494 277	345 857	605 125	432 221
Ferro-silico-chrome	26 900	21 300	*20 000	21 969	14 056
Ferro-silico-manganese	*40 000	*20 000	*50 000	*55 000	57 000
Ferro-silicon	207 700	256 000	119 000	133 000	92 000
Other ferro-alloys	*10 000	*10 000	*10 000	*9 000	*8 000
Korea, Dem. P.R. of					
Ferro-alloys	*34 000	*31 000	*29 000	*29 000	*29 000
Korea, Republic of					
Ferro-manganese	120 020	118 798	126 135	158 755	158 418
Ferro-silico-manganese	89 023	97 785	83 375	77 078	106 997
Other ferro-alloys	3 084	3 264	4 687	2 174	2 785
Philippines					
Ferro-chrome	16 186	50 450	6 736	-----	-----
Ferro-manganese	*5 000	*5 000	-----	-----	-----
Ferro-silicon	*10 000	*10 000	-----	-----	-----
Taiwan					
Ferro-manganese	1 179	13 136	14 059	12 130	*12 500
Ferro-silicon	646	288	2 481	3 391	*4 000
Australia					
Ferro-manganese	(f) 109 500	(f) 91 600	(f) 109 500	(f) 100 000	(g) 121 400
Ferro-silico-manganese	(f) 90 000	(f) 104 400	(f) 93 200	(f) 94 200	(g) 115 000
Silicon metal	*30 000	30 000	*30 000	31 000	*30 000
New Caledonia					
Ferro-nickel	136 053	152 068	150 375	159 019	157 959

Note(s):

- (a) Included with 'other ferro-alloys'
- (b) Years ended 30 June of that stated
- (c) Including ferro-silico -chrome
- (d) Including other chromium alloys and chromium metal
- (e) Years ended 31 March following that stated
- (f) Years ended 31 May following that stated
- (g) Years ended 30 June following that stated

Exports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Albania					
Ferro-chrome	34 700	(a) *50 000	(a) *32 400	(a) *22 700	...
Armenia					
Scrap (a)	...	...	*2 000	*5 100	*4 600
Austria					
Pig iron	181	52	1 980	679	185
Ferro-alloys	19 080	30 457	20 802	5 889	7 595
Ingots, blooms, billets	97 357	263 011	163 078	236 630	219 382
Scrap	467 015	489 390	582 403	653 254	573 400
Azerbaijan					
Scrap	11 000	12 000	12 000	15 000	...
Belarus					
Ingots, blooms, billets	(a) *69 800	...	341 203	450 346	592 800
Scrap	190 000	...	177 776	190 330	145 400
Belgium-Luxembourg					
Pig iron	178 319	90 389	87 928	91 244	130 812
Sponge & powder	1 334	1 784	1 688	1 760	2 262
Ferro-chrome	6 862	15 963	16 647	21 109	42 781
Ferro-manganese	12 855	22 606	17 788	26 424	19 238
Ferro-silico-manganese	7 657	15 201	12 493	11 175	17 715
Ferro-nickel	980	326	584	199	----
Ferro-silicon	4 849	16 365	12 166	9 238	37 804
Ferro-titanium & Fe-Si-Ti	284	168	69	389	450
Other ferro-alloys	1 165	661	471	623	10 251
Ingots, blooms, billets	1 199 758	1 009 540	1 117 542	955 607	804 377
Scrap	1 588 046	1 976 236	1 741 314	1 673 084	1 408 715
Bosnia & Herzegovina					
Scrap (a)	...	*700	*4 900	*25 100	*12 000
Bulgaria					
Pig iron	1 000	4 156	775	1 571	...
Ferro-alloys	(a) *3 300	3 215	3 205	2 902	(a) *4 500
Ingots, blooms, billets	283 000	250 405	213 000	246 000	...
Scrap	(a) *19 500	12 271	43 888	156 678	...
Croatia					
Ferro-chrome	24 300	25 242	12 605	23 943	12 173
Ferro-silico-manganese	...	2 413	...	63	26
Scrap	59 584	100 219	106 092	124 561	102 443
Czech Republic					
Pig iron	198 000	206 000	168 000	230 102	161 308
Ferro-chrome	(a) *3 600	(a) *1 500	(a) *4 000	2 523	1 247
Other ferro-alloys	...	...	...	7 517	6 164
Ingots, blooms, billets	624 000	302 000	324 000	431 037	245 511
Scrap	986 000	789 000	905 000	977 588	873 412
Denmark					
Ingots, blooms, billets	17 168	23 490	36 042	71 590	58 023
Scrap	330 389	437 205	470 670	580 347	479 924
Estonia					
Pig iron (a) (b)	*37 100	*48 240	*35 800	*128 900	*239 000
Ferro-chrome (a) (b)	*4 800	*68 100	*29 000	*15 900	*700
Scrap	191 000	253 963	220 740	411 098	(a) *438 000
Finland					
Ferro-chrome & ferro-silico-chrome	125 538	111 977	106 675	105 472	64 251
Ingots, blooms, billets	166 542	171 793	259 768	280 214	230 115
Scrap	108 295	179 782	228 366	365 761	269 999
France					
Pig iron	1 810	15 571	4 421	48 199	7 830
Sponge & powder	1 207	3 169	1 833	3 593	5 026
Ferro-chrome	315	2 208	538	702	455
Ferro-silico-magnesium	9 716	9 714	8 811	9 615	8 377
Ferro-manganese	58 461	42 043	35 561	54 584	46 927
Ferro-silico-manganese	71 915	58 750	41 422	61 372	56 855
Ferro-molybdenum	158	103	92	101	92
Ferro-nickel	38	32	25 407	25 813	14 256
Ferro-niobium	331	439	387	628	704
Ferro-silicon	26 867	29 328	30 433	33 873	41 049
Ferro-titanium & Fe-Si-Ti	1 171	1 408	1 379	1 082	1 535
Ferro-vanadium	53	151	7	32	18
Other ferro-alloys	29 036	29 903	29 336	33 062	40 983
Ingots, blooms, billets	1 561 706	1 284 831	1 328 288	1 692 045	1 804 004
Scrap	3 772 256	3 661 579	3 682 041	3 640 248	3 484 599

Exports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Georgia					
Pig iron	10 469	397	976	3 943	...
Ferro-alloys	66 272	67 869	35 109	26 923	(a) *40 300
Ingots, blooms, billets	18 674	43 809	14 423	59 407	(a) *32 500
Scrap	25 561	55 127	(a) *5 300	(a) *38 100	(a) *65 800
Germany					
Pig iron	161 619	118 391	91 977	127 095	65 445
Sponge & powder	19 348	27 923	20 831	29 485	21 011
Ferro-chrome	45 115	50 458	45 426	51 436	59 663
Ferro-silico-chrome	599	1 997	3 719	3 512	1 019
Ferro-silico-magnesium	5 732	6 036	5 543	6 470	6 875
Ferro-manganese	15 370	9 338	12 434	12 236	17 755
Ferro-silico-manganese	6 630	12 438	9 892	7 853	11 255
Ferro-molybdenum	623	1 330	1 309	855	681
Ferro-nickel	1 672	577	1 001	174	909
Ferro-niobium	832	272	925	590	312
Ferro-phosphorus	1 455	2 943	2 394	1 567	1 532
Ferro-silicon	40 966	38 637	31 849	35 707	44 943
Ferro-titanium & Fe-Si-Ti	3 493	4 318	2 476	2 106	2 304
Ferro-tungsten & Fe-Si-W	46	192	83	76	120
Ferro-vanadium	1 120	1 148	420	459	332
Other ferro-alloys	13 426	13 535	13 696	16 921	24 078
Silicon metal	7 609	8 787	8 796	9 477	7 943
Ingots, blooms, billets	1 678 697	1 860 775	2 254 291	2 240 378	1 734 789
Scrap	8 718 742	8 148 071	6 684 361	6 930 512	7 027 029
Greece					
Ferro-chrome	1 276	7 917	1 759	544	387
Ferro-nickel	8 616	8 500	----	----	----
Ingots, blooms, billets	14 780	19 993	60 036	6 145	92
Hungary					
Ferro-alloys	5 081	2 995	4 358	1 555	2 217
Ingots, blooms, billets	15 717	15 016	26 991	14 775	42 902
Scrap	652 817	774 095	614 916	646 064	552 051
Iceland					
Ferro-silicon	70 798	71 453	68 192	74 993	67 237
Scrap	22 689	17 538	11 263	25 832	20 834
Irish Republic					
Scrap	66 976	32 842	19 036	35 084	25 356
Italy					
Pig iron	2 658	4 617	8 353	34 762	31 739
Sponge & powder	13 737	13 952	15 343	17 802	20 647
Ferro-chrome	1 922	2 011	2 005	4 781	1 781
Ferro-silico-chrome	1	11	7	547	57
Ferro-silico-magnesium	----	...	...	103	107
Ferro-manganese	8 234	4 015	7 256	8 184	13 465
Ferro-silico-manganese	2 978	7 119	2 881	10 789	5 361
Ferro-molybdenum	5	...	...	324	303
Ferro-silicon	2 044	1 965	7 956	1 930	2 427
Ferro-vanadium	8	...	...	44	269
Other ferro-alloys	1 999	545	735	531	479
Silicon metal	34 687	2 133	2 850	5 225	2 918
Ingots, blooms, billets	636 138	825 367	656 997	231 924	184 330
Scrap	12 795	33 048	20 012	35 682	36 590
Latvia					
Pig iron (a) (b)	*111 200	*2 000	138 200	*154 500	*203 300
Ferro-chrome (a) (b)	*14 200	*82 400	*13 100	*25 800	*30 100
Other ferro-alloys (a) (b)	*4 100	*4 200	*4 700	*2 500	*8 700
Ingots, blooms, billets (b)	*55 900	*7 600	*12 800	*19 800	*26 200
Scrap	19 172	35 663	56 513	157 731	94 051
Lithuania					
Scrap	505 000	586 100	449 516	467 659	414 586
Macedonia					
Ferro-silicon	46 941	(a) *29 500	(a) *38 100	(a) *47 400	(a) *36 900
Other ferro-alloys	62 000	...	(a) *25 000	(a) *16 000	(a) *41 800
Silicon metal	(a) *6 800	(a) *5 200	...	...	...
Malta					
Scrap	5 000	99 267	10 780	*11 000	...

Exports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Moldova					
Ingots, blooms, billets	2 000	1 782	151	136	28
Scrap	(a) *7 500	9 843	2 987	1 372	5 811
Netherlands					
Pig iron	39 039	22 160	19 260	11 658	51 881
Ferro-chrome	56 037	73 516	61 689	75 798	53 185
Ferro-silico-chrome	1 699	1 931	1 460	566	2 379
Ferro-manganese	17 694	8 902	5 716	11 512	4 729
Ferro-silico-manganese	29 431	37 717	27 780	17 215	14 678
Ferro-molybdenum	2 093	2 260	...	4 579	4 268
Ferro-nickel	2 644	2 088	459	-----	5 871
Ferro-silicon	27 916	15 574	13 538	13 270	3 501
Ferro-titanium & Fe-Si-Ti	455	605	...	1 695	...
Ferro-tungsten & Fe-Si-W	115	272	...	238	170
Ferro-vanadium	227	1 397	...	3 133	3 440
Other ferro-alloys	2 383	862	8 141	7 013	4 630
Silicon metal	15 871	7 237	4 963	4 984	5 892
Ingots, blooms, billets	1 504 908	1 208 725	1 511 682	1 343 578	454 945
Scrap	3 812 657	3 999 131	3 047 287	3 363 946	2 655 404
Norway					
Pig iron	83 000	77 000	91 000	...	...
Ferro-chrome (a)	*52 000	*127 700	*119 100	*150 000	*161 000
Ferro-manganese (a)	*170 000	*125 000	*208 000	*196 000	*200 000
Ferro-silico-manganese	165 544	176 406	187 244	206 103	223 406
Ferro-silicon	404 071	404 497	400 900	412 873	423 154
Other ferro-alloys	23 574	29 051	50 097	34 247	40 026
Silicon metal	91 793	98 323	97 136	109 435	119 560
Ingots, blooms, billets	39 140	191	155 184	131 337	143 442
Scrap	63 189	96 875	145 241	156 118	134 216
Poland					
Pig iron	85 063	115 270	74 000	157 900	...
Ferro-chrome	6 297	14 788	2 263	4 800	...
Ferro-manganese & Fe-Si-Mn	739	4 769	...	1 815	...
Ferro-silicon	17 935	31 077	41 872	46 438	...
Other ferro-alloys	396	545	954	762	...
Ingots, blooms, billets	1 492 000	688 000	1 076 000	1 198 000	...
Scrap	448 498	438 188	415 600	517 900	...
Portugal					
Ingots, blooms, billets	335	...	162 710	91 029	88 366
Scrap	114 000	62 000	56 384	127 179	122 069
Romania					
Pig iron	18 000	51 000	62 000	71 141	39 154
Sponge & powder	...	...	...	6 221	8 544
Ferro-alloys	25 000	61 000	87 000	56 162	47 625
Ingots, blooms, billets	1 217	294	192	4 354	148 306
Scrap	4 656	8 087	29 584	237 991	759 347
Russia					
Pig iron	3 344 000	2 106 400	2 888 200	2 419 873	2 466 100
Sponge & powder	...	...	322 671	393 548	421 164
Ferro-chrome	(c) ...	(c) ...	(c) ...	146 946	130 387
Ferro-silico-chrome	(c) ...	(c) ...	(c) ...	8 193	23 930
Ferro-manganese	(c) ...	(c) ...	(c) ...	3 809	6 226
Ferro-silico-manganese	(c) ...	(c) ...	(c) ...	78	4 620
Ferro-molybdenum	(c) ...	(c) ...	(c) ...	735	889
Ferro-nickel	(c) ...	(c) ...	(c) ...	9 690	4 549
Ferro-silicon	(c) ...	(c) ...	(c) ...	148 793	145 442
Ferro-titanium & Fe-Si-Ti	(c) ...	(c) ...	(c) ...	16 335	12 794
Ferro-tungsten & Fe-Si-W	(c) ...	(c) ...	(c) ...	2 722	1 759
Ferro-vanadium	(c) ...	(c) ...	(c) ...	2 314	3 134
Other ferro-alloys	548 259	494 017	357 260	2 844	1 349
Silicon metal	77 900	75 727	64 754	73 924	36 214
Ingots, blooms, billets	9 534 000	9 997 000	11 058 335	11 409 000	8 048 553
Scrap	1 316 000	1 742 000	2 735 206	5 250 351	7 260 386
Slovakia					
Pig iron	167 000	...	11 000	20 000	23 125
Ferro-silicon	48 653	35 679	66 475	(a) *61 600	(c) ...
Other ferro-alloys	120 287	103 382	46 696	(a) *85 100	149 358
Ingots, blooms, billets	259 000	340 000	128 000	120 000	(a) *114 000
Scrap	262 600	197 836	212 688	213 000	...

Exports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Slovenia					
Scrap	34 143	49 000	55 125	102 973	86 802
Spain					
Pig iron	608	127	1 124	1 098	1 389
Ferro-chrome	186	230	717	1 028	906
Ferro-manganese	21 505	28 068	22 174	36 711	61 866
Ferro-silico-manganese	29 312	38 048	54 685	59 398	51 124
Ferro-silicon	3 008	2 815	3 278	5 711	6 814
Other ferro-alloys	264	420	603	561	945
Silicon metal	2 929	6 647	10 781	11 118	8 517
Ingots, blooms, billets	110 249	104 918	245 137	316 018	384 502
Scrap	16 206	19 134	21 381	43 285	16 745
Sweden					
Pig iron	30 250	12 965	64 296	29 850	14 528
Sponge & powder	151 537	3 323	1 432	14 626	15 196
Ferro-chrome	99 937	80 000	32 000	...	...
Ferro-silico-magnesium	(c) ...	(c) ...	(c) ...	281	786
Ferro-manganese	2 737	2 120	2 013	2 165	1 730
Ferro-silico-manganese	154	2 143	272	60	176
Ferro-molybdenum	106	(c) ...	(c) ...	103	134
Ferro-niobium	26	(c) ...	(c) ...	7	9
Ferro-phosphorus	359	(c) ...	(c) ...	579	474
Ferro-silicon	15 191	(c) ...	1 914	1 602	2 756
Ferro-titanium & Fe-Si-Ti	220	(c) ...	(c) ...	24	1
Ferro-vanadium	149	(c) ...	(c) ...	157	115
Other ferro-alloys	530	2 288	1 486	362	1 805
Silicon metal	(a) *100	(a) *200	...	...	...
Ingots, blooms, billets	158 499	89 354	105 434	149 382	267 585
Scrap	349 850	280 364	283 990	323 068	357 589
Switzerland					
Ferro-alloys	614	5 088	81	243	268
Silicon metal	1	1	1 114	14 206	10 533
Ingots, blooms, billets	10 632	2 265	1 677	1 572	1 895
Scrap	86 515	312 184	341 784	432 876	377 433
Turkey					
Pig iron	92 249	...	89 767	148 786	18 259
Ferro-chrome	102 678	72 112	93 852	94 360	86 457
Other ferro-alloys	51	1 461	849	436	825
Ingots, blooms, billets	2 144 591	1 746 491	1 094 825	1 332 505	796 778
Scrap	36 226	13 448	21 048	22 309	28 144
Ukraine					
Pig iron	1 924 000	991 000	775 777	722 723	2 082 673
Ferro-manganese	...	...	(a) *101 800	(a) *169 200	172 112
Ferro-silico-manganese	(a) *150 900	397 222	379 185	446 991	353 747
Ferro-nickel	...	9 142	14 303	2 396	2 154
Other ferro-alloys	(a) *116 000	14 586	11 202	16 322	121 852
Ingots, blooms, billets	(a) *2 647 000	3 016 119	2 843 280	4 196 639	4 937 336
Scrap	403 000	370 000	700 000	(a) *1 478 000	(a) *1 686 000
United Kingdom					
Pig iron	1 974	6 913	4 616	4 411	1 654
Sponge & powder	3 109	1 954	2 745	1 584	1 353
Ferro-chrome & ferro-silico-chrome	6 135	1 703	2 950	2 641	1 563
Ferro-manganese	1 451	433	2 796	1 578	2 537
Ferro-silico-manganese	73	1 484	230	532	1 249
Ferro-molybdenum	6 396	8 253	9 888	9 029	10 585
Ferro-nickel	0	1	218	4 363	3 394
Ferro-niobium	30	21	22	32	33
Ferro-phosphorus	2 447	76	248	126	120
Ferro-silicon	6 764	5 825	4 615	4 026	2 203
Ferro-titanium & Fe-Si-Ti	13 132	13 596	13 467	18 823	19 931
Ferro-vanadium	47	25	61	201	99
Other ferro-alloys	5 951	5 280	6 634	5 917	5 156
Ingots, blooms, billets	1 246 913	1 155 488	1 193 795	954 817	561 333
Scrap	3 587 513	3 446 618	3 435 328	3 561 352	3 186 418
Yugoslavia, Federal Republic of					
Ferro-alloys	...	...	7 000	7 182	1 723
Scrap	*10 000	*5 000	3 000	3 370	8 566

Exports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Algeria					
Pig iron	105 474	...	298 285	206 913	...
Scrap	15 159	36 200	60 178	69 668	...
Egypt					
Ferro-alloys	30 532	42 000	32 898	32 512	...
Mauritius					
Scrap	8 300	11 900	13 800	20 800	...
Morocco					
Scrap	108 104	120 747	52 753	168 209	...
South Africa					
Pig iron	(a) *192 200	(a) *271 000	(a) *394 100	516 684	512 253
Ferro-chrome	947 637	1 257 849	1 321 713	1 747 258	...
Ferro-manganese	610 444	567 543	450 086	453 597	...
Ferro-silico-manganese	328 990	277 007	211 404	266 313	...
Ferro-silicon	44 600	50 500	30 308	47 469	...
Silicon metal	37 788	25 663	24 503	31 898	34 258
Ingots, blooms, billets	(a) *416 000	(a) *408 000	(a) *622 100	461 540	491 156
Scrap	(a) *156 900	(a) *226 000	(a) *397 800	585 441	541 472
Tunisia					
Scrap	321	2 464	2 110	3 913	...
Zimbabwe					
Ferro-chrome	196 535	258 638	247 563	277 915	268 650
Ferro-silico-chrome	13 365	20 698	25 117	24 334	21 767
Ingots, blooms, billets	27 965	22 799	26 074	23 806	12 896
Scrap	77 960	61 716	...	92 291	43 641
Canada					
Pig iron	64 125	129 001	111 419	137 651	165 393
Sponge & powder	71 057	72 803	77 721	93 024	166 558
Ferro-chrome	768	986	1 011	860	53
Ferro-manganese	274	1 440	578	100	1 770
Ferro-silico-manganese	385	127	18	561	305
Ferro-niobium	4	1 234	2 062	2 387	2 060
Ferro-silicon	32 975	28 880	24 471	15 933	20 891
Other ferro-alloys	1 349	2 430	1 619	2 080	1 648
Silicon metal	24 600	25 250	29 408	38 840	37 722
Ingots, blooms, billets	298 051	419 412	355 645	376 157	324 632
Scrap	1 634 788	2 128 784	2 113 897	2 330 983	2 244 744
Cuba					
Ingots, blooms, billets (a)	...	...	*53 300	*92 000	*33 800
Dominican Republic					
Ferro-nickel	81 675	73 777	77 250	84 388	74 262
Mexico					
Ferro-manganese	36 772	27 641	28 406	36 864	34 329
Ferro-silico-manganese	18 508	25 586	26 299	44 578	47 802
Other ferro-alloys	159	195	553	717	486
Ingots, blooms, billets	1 263 857	2 004 358	2 019 755	2 271 512	2 488 820
Scrap	180 204	248 711	198 137	232 083	155 618
Nicaragua					
Scrap	24 613	17 599	26 168	19 575	...
Trinidad & Tobago					
Sponge	232 395	325 163	163 508	362 948	...
Ingots, blooms, billets	12 600	18 964	8 200	12 700	...
USA					
Pig iron	64 618	57 782	72 427	100 199	97 140
Sponge & powder	48 833	48 179	40 088	60 954	69 071
Ferro-chrome & ferro-silico-chrome	18 662	20 193	27 454	16 809	15 464
Ferro-manganese	14 243	13 597	14 063	19 428	21 591
Ferro-silico-manganese	10 678	11 790	9 327	10 879	12 969
Ferro-molybdenum	916	1 450	1 199	1 573	1 582
Ferro-nickel	69	2 179	5 652	12 110	1 747
Ferro-niobium	246	565	365	59	25
Ferro-phosphorus	29 340	7 063	4 950	3 208	2 543
Ferro-silicon	40 400	52 255	59 070	56 685	52 362
Ferro-vanadium	541	476	648	619	868
Other ferro-alloys	4 395	4 992	4 721	5 625	4 590
Silicon metal	13 007	27 214	18 999	24 878	24 767
Ingots, blooms, billets	170 274	435 606	274 006	246 190	241 434
Scrap	8 909 254	10 459 116	8 431 156	8 942 513	5 925 682

Exports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Argentina					
Pig iron	...	33 455	174 762	145 344	185 902
Ferro-silico-manganese	4 514	12 451	5 306	4 854	17 364
Ferro-silicon	5 512	9 579	12 700	10 154	2 176
Other ferro-alloys	4 039	11 038	14 624	14 463	14 693
Ingots, blooms, billets	300	502	6 682	25 770	21 724
Brazil					
Pig iron	2 631 114	2 670 405	2 538 099	2 563 147	3 212 137
Ferro-chrome	7 133	24 343	11 102	16 374	3 790
Ferro-manganese	79 611	30 192	105 184	70 068	33 026
Ferro-nickel	12 969	12 696	15 205	18 483	8 515
Ferro-niobium	17 606	19 514	17 602	23 823	27 542
Fe-silico-spiegeleisen & Si-Mn	81 977	38 953	73 729	76 608	36 600
Ferro-silicon	183 907	181 093	185 793	159 796	134 664
Other ferro-alloys	27 640	32 315	33 168	37 469	37 121
Silicon metal	85 158	115 287	121 011	127 014	102 737
Ingots, blooms, billets	4 827 147	5 130 334	5 684 461	5 523 451	5 426 200
Chile					
Ferro-alloys	6 045	6 797	6 988	4 912	3 232
Ingots, blooms, billets	27 545	25 203	24 945	...	...
Scrap	27 160	1 390	2 578	13 494	16 365
Colombia					
Ferro-nickel	51 455	56 497	55 374	52 482	56 490
Ecuador					
Scrap	28 475	32 045	25 129	34 814	13 108
Venezuela					
Sponge & powder	1 032 767	1 187 489	1 053 899	1 143 657	...
Ferro-silico-manganese	15 237	30 805	24 786	37 293	...
Ferro-silicon	36 325	48 695	35 058	69 078	...
Ingots, blooms, billets	1 025 547	763 849	1 067 911	957 372	...
Scrap	98 745	98 506	99 097	138 122	...
Bahrain					
Scrap	44 057	43 488	33 168	51 482	45 793
China					
Pig iron	1 541 334	5 388 683	3 553 051	5 535 634	2 424 656
Sponge & powder	5 041	6 887	9 428	13 217	15 813
Ferro-chrome	127 001	320 950	130 847	98 069	102 083
Ferro-silico-chrome	30 752	46 610	31 079	31 296	40 725
Ferro-manganese	99 268	177 093	171 907	145 847	130 658
Ferro-silico-manganese	292 326	447 222	363 007	428 956	297 669
Ferro-molybdenum	18 031	12 650	12 188	24 458	31 739
Ferro-silicon	302 808	391 952	254 619	208 067	265 981
Ferro-titanium & Fe-Si-Ti	135	193	393	421	859
Ferro-tungsten & Fe-Si-W	4 333	2 079	666	2 210	3 617
Ferro-vanadium	218	1 909	1 446	1 949	2 308
Other ferro-alloys	47 845	74 772	65 129	121 614	84 319
Silicon metal	3 261	274 731	276 365	290 586	275 823
Ingots, blooms, billets	698 251	4 607 491	2 767 342	4 146 220	2 172 881
Scrap	22 084	97 814	54 711	68 251	24 922
Cyprus					
Scrap (b)	22 165	25 902	34 373	21 344	15 944
Hong Kong					
Pig iron (b)	921	5 678	1 027	628	136
Ferro-manganese (b)	9 857	1 690	7 633	1 821	629
Ferro-silico-manganese (b)	17 849	6 490	4 284	3 371	604
Ferro-silicon (b)	21 307	23 700	28 333	18 816	6 479
Other ferro-alloys (b)	1 766	2 324	1 243	861	1 232
Ingots, blooms, billets (b)	10 363	6 923	227	40 630	20 708
Scrap	640 834	711 492	587 052	700 173	754 109
of which, re-exports	157 697	218 273	196 506	181 877	249 253

Exports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
India					
Pig iron (d)	601 811	511 849	345 481	500 622	...
Sponge & powder (d)	66 471	174 885	42 328	45 702	...
Ferro-chrome (d)	149 016	152 551	146 890	190 563	...
Ferro-manganese (d)	4 306	4 645	2 856	358	...
Ferro-silico-manganese (d)	35 281	54 042	28 405	34 606	...
Other ferro-alloys (d)	4 808	11 278	4 193	15 353	...
Silicon metal (d)	...	611	5 992	3 894	...
Ingots, blooms, billets (d)	160 646	231 992	285 334	298 049	...
Scrap (d)	757	398	41 948	32 747	...
Indonesia					
Sponge & powder	27 838	62 327	75 065	92 631	25 515
Ferro-nickel	25 219	48 672	48 639	41 222	41 342
Ingots, blooms, billets	19 239	22 932	3 409	82 988	97 364
Scrap	12 609	14 985	11 604	10 729	10 325
Iran					
Ferro-chrome (a)	...	*7 000	*7 400	*6 900	*10 300
Ferro-silicon (a)	...	*2 000	*8 500	*6 600	*50 200
Other ferro-alloys (a)	...	...	*1 000	*1 300	*800
Ingots, blooms, billets (a)	*551 300	*524 000	*286 200	*282 500	*250 000
Scrap (a)	*110 800	*55 700	*200 400	*54 300	...
Israel					
Scrap (a)	...	...	...	*23 800	*28 900
Japan					
Pig iron	1 201 402	499 752	953 841	250 256	2 310 635
Sponge & powder	18 291	23 200	22 196	22 973	24 345
Ferro-chrome	1 168	1 347	1 191	915	700
Ferro-manganese	23 634	45 375	37 503	45 557	26 814
Ferro-silico-manganese	110	230	163	122	217
Ferro-nickel	1 448	9 938	35 505	69 663	74 018
Ferro-silicon	7 754	9 589	9 619	5 305	4 065
Other ferro-alloys	4 366	3 997	4 186	3 418	2 762
Silicon metal	1 651	1 757	1 855	2 284	2 447
Ingots, blooms, billets	1 559 436	633 476	428 106	574 508	1 196 176
Scrap	967 160	915 217	1 992 562	2 313 259	3 821 597
Jordan					
Scrap	2 800	10 500	*11 000	16 065	...
Kazakhstan					
Ferro-chrome	...	417 269	282 229	444 072	443 035
Ferro-silico-chrome	...	14 954	51 733	27 451	14 119
Ferro-manganese	...	3 646	119	1 040	----
Ferro-silico-manganese	...	6 535	47 239	49 394	47 577
Ferro-phosphorus	(a) *2 900	(a) *2 900	...	1 408	1 140
Ferro-silicon	(a) *31 100	158 328	84 856	78 487	66 107
Ingots, blooms, billets (a)	*4 100	*800	*1 200	*117 700	*51 600
Scrap	...	...	...	267 426	515 053
Korea, Dem. P.R. of					
Pig iron (a)	*71 000	*48 900	*41 000	*60 100	*65 600
Ferro-alloys (a)	*4 000	*2 000	*5 200	*8 900	*3 600
Ingots, blooms, billets (a)	*31 900	*28 500	*24 800	*68 300	*54 800
Scrap (a)	*63 800	*126 300	*58 400	*163 100	*33 200
Korea, Republic of					
Ferro-silico-manganese	----	970	5 117	19 802	15 573
Other ferro-alloys	157	1 680	4 394	10 465	23 781
Ingots, blooms, billets	185 539	461 305	434 240	714 951	636 250
Scrap	10 780	22 289	12 159	38 734	41 819
Kuwait					
Scrap	291 483	213 158	184 434	34 072	...
Kyrgyzstan					
Scrap	61 000	22 300	25 606	*26 000	...
Macao					
Scrap	9 139	9 364	8 495	5 563	...
Malaysia					
Sponge & powder	801 000	952 000	1 057 000	825 000	...
Ingots, blooms, billets	48 644	22 951	23 000	36 000	...
Scrap	81 433	10 400	7 500	...	...

Exports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Mongolia					
Ingots, blooms, billets	...	19 300	16 000	14 500	9 700
Scrap	*50 000	*70 000	71 913	72 000	...
Oman					
Scrap	54 900	62 900	60 300	39 241	...
Philippines					
Ferro-chrome	23 487	24 819	16 725	5 985	...
Other ferro-alloys	2	3 620	-----	-----	...
Scrap	24 983	13 674	8 372	32 724	...
Saudi Arabia					
Scrap	4 440	6 200	*6 000	3 898	...
Singapore					
Pig iron	1 849	1 462	331	325	222
of which, re-exports	1 846	1 415	330	325	222
Ferro-alloys	3 913	2 726	2 896	1 919	1 205
of which, re-exports	3 729	2 666	2 819	1 797	1 029
Ingots, blooms, billets	3 190	5 998	3 425	1 996	3 065
of which, re-exports	1 189	1 710	1 121	374	2 604
Scrap	248 089	259 269	245 019	331 733	474 047
Sri Lanka					
Scrap	47 857	47 426	47 370	52 141	...
Taiwan					
Pig iron	6 502	3 106	1 313	1 776	1 943
Ferro-silicon	2 331	1 677	1 380	1 155	1 147
Other ferro-alloys	1 342	1 181	939	1 272	1 620
Ingots, blooms, billets	10 982	9 951	13 808	15 255	32 598
Scrap	89 087	175 730	92 318	123 154	94 857
Thailand					
Scrap	45 625	50 999	33 357	*48 000	...
Turkmenistan					
Scrap (a)	...	...	...	*5 700	*4 800
Australia					
Sponge & powder	520	831	520	4 440	591
Ferro-manganese	75 769	72 579	59 076	41 087	57 316
Ferro-silico-manganese	82 511	99 414	92 713	86 129	81 313
Other ferro-alloys	221	715	222	1 009	17 895
Silicon metal	27 917	26 186	26 977	26 742	28 244
Ingots, blooms, billets	1 412 876	1 147 529	1 245 214	1 458 304	1 826 387
Scrap	398 654	305 982	678 186	764 775	576 772
New Caledonia					
Ferro-nickel	*140 000	148 649	151 612	158 200	...
New Zealand					
Scrap (e)	28 676	28 646	21 487	23 395	24 578

Note(s):

(1) In this table the term 'ingots, blooms, billets' corresponds to items 672.4,6,7 and 8 of the Standard International Trade Classification (Revision 3) which includes those of alloy and high carbon steel

- (a) BGS estimates, based on known imports into certain countries
- (b) Re-exports
- (c) Included with 'other ferro-alloys'
- (d) Years ended 31 March following that stated
- (e) Years ended 30 June of that stated

Imports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Pig iron	24 045	24 764	18 614	17 428	24 618
Sponge & powder	7 421	6 487	8 001	10 066	10 648
Ferro-chrome	22 695	19 760	22 895	26 550	24 032
Ferro-silico-chrome	421	479	639	748	1 012
Ferro-silico-magnesium	-----	706	860	968	1 248
Ferro-manganese	19 260	14 753	15 596	20 357	21 744
Ferro-silico-manganese	13 493	10 318	16 051	16 505	17 155
Ferro-molybdenum	610	705	1 000	1 068	942
Ferro-nickel	85	103	230	-----	11
Ferro-niobium & ferro-niobium-tantalum	197	229	305	369	620
Ferro-phosphorus	6	728	952	817	964
Ferro-silicon	26 859	11 942	12 317	16 575	21 433
Ferro-titanium & Fe-Si-Ti	478	237	492	684	1 156
Ferro-tungsten & Fe Si-W	528	583	443	422	589
Ferro-vanadium	372	438	536	612	1 025
Other ferro-alloys	2 665	1 444	1 110	1 187	3 493
Silicon metal	13 271	2 878	6 771	16 749	6 728
Ingots, blooms, billets	123 303	183 140	121 689	110 803	272 943
Scrap	408 011	529 245	400 628	682 250	685 810
Belarus					
Scrap	11 000	262 000	400 804	724 923	767 300
Belgium-Luxembourg					
Pig iron	250 676	101 121	70 264	91 304	203 699
Sponge & powder	65 496	59 795	3 951	30 765	4 778
Ferro-chrome	115 712	126 545	89 675	113 044	146 391
Ferro-silico-chrome	1 646	3 280	2 306	3 335	4 032
Ferro-manganese	54 021	65 080	46 796	43 122	47 039
Ferro-silico-manganese	47 909	53 724	51 538	36 909	57 422
Ferro-molybdenum	1 991	2 215	(d) ...	2 264	3 248
Ferro-nickel	33 151	22 507	17 142	24 508	32 099
Ferro-niobium	13 978	601	(d) ...	656	719
Ferro-phosphorus	19 636	526	(d) ...	246	613
Ferro-silicon	36 302	54 053	46 615	44 760	69 163
Ferro-titanium & Fe-Si-Ti	606	697	(d) ...	1 019	1 323
Ferro-vanadium	738	493	(d) ...	236	310
Other ferro-alloys	2 304	2 199	6 939	2 208	11 788
Silicon metal	3 017	3 254	2 545	1 985	13 901
Ingots, blooms, billets	1 485 125	1 688 815	1 688 927	2 881 218	2 809 762
Scrap	2 992 215	3 744 666	3 811 162	4 024 388	3 938 147
Bulgaria					
Pig iron	10 300	14 420	16 016	16 577	...
Ferro-manganese	1 100	2 530	3 596	5 744	...
Other ferro-alloys	13 600	12 024	8 708	10 916	...
Ingots, blooms, billets	88 700	63 398	7 693	65 045	...
Scrap	...	1 415	18 564	66 152	...
Croatia					
Pig iron	125 000	13 332	13 306	13 371	10 696
Ferro-alloys	...	97 401	26 329	2 935	3 077
Ingots, blooms, billets	65 800	51 757	29 979	20 128	27 390
Scrap	1 000	1 635	2 102	5 554	16 531
Czech Republic					
Pig iron	162 000	...	...	30 632	42 248
Ferro-alloys	98 404	117 000	105 000	108 957	116 199
Silicon metal	...	...	...	4 098	4 510
Ingots, blooms, billets	...	...	...	206 223	313 838
Scrap	158 019	89 000	84 000	39 923	114 108
Denmark					
Pig iron	90 163	85 193	100 754	97 192	133 126
Sponge & powder	2 871	2 145	1 994	3 942	2 594
Ferro-chrome & ferro-silico-chrome	111	222	174	129	197
Ferro-manganese	3 766	2 028	2 420	3 117	3 889
Ferro-silico-manganese	4 781	3 910	4 475	5 177	6 879
Ferro-silicon	2 880	2 962	2 593	3 520	3 010
Other ferro-alloys	1 592	1 685	1 478	1 791	3 913
Ingots, blooms, billets	20 080	112 835	22 380	43 609	83 489
Scrap	140 683	168 942	330 509	357 694	273 910

Imports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Finland					
Pig iron	29 495	74 625	67 924	31 744	30 498
Sponge & powder	176	935	2 624	14 003	18 644
Ferro-chrome & ferro-silico-chrome	5 404	3 072	4 838	5 055	9 685
Ferro-manganese	9 920	10 398	8 875	10 837	12 377
Ferro-silico-manganese	23 937	25 953	26 929	26 197	34 270
Ferro-molybdenum	1 373	1 184	1 539	1 581	1 646
Ferro-nickel	64 429	70 338	53 096	53 783	44 569
Ferro-silicon	22 294	13 833	17 537	18 024	15 113
Ferro-titanium & Fe-Si-Ti	562	530	671	536	852
Ferro-vanadium	241	244	263	141	207
Other ferro-alloys	2 088	3 110	3 390	3 925	6 942
Silicon metal	2 778	1 610	2 055	2 411	2 942
Ingots, blooms, billets	227 998	561 763	461 912	224 157	209 121
Scrap	338 483	297 460	226 200	348 080	449 640
France					
Pig iron	186 339	200 945	185 124	189 127	213 188
Sponge & powder	13 838	13 719	15 325	18 734	25 713
Ferro-chrome	236 227	260 050	206 897	266 349	283 292
Ferro-silico-chrome	354	148	182	143	108
Ferro-silico-magnesium	2 848	2 526	2 817	3 084	2 702
Ferro-manganese	38 803	42 817	51 833	49 156	59 532
Ferro-silico-manganese	33 717	45 074	46 725	57 786	59 597
Ferro-molybdenum	4 228	4 871	4 595	5 098	4 835
Ferro-nickel	36 972	42 696	63 162	57 202	41 604
Ferro-niobium	1 291	1 356	1 586	1 745	1 983
Ferro-phosphorus	2 321	3 101	2 801	2 431	3 437
Ferro-silicon	60 893	55 536	49 630	47 952	60 877
Ferro-titanium & Fe-Si-Ti	4 810	4 759	4 925	4 459	5 478
Ferro-tungsten & Fe-Si-W	217	672	411	568	769
Ferro-vanadium	1 134	993	858	909	1 154
Other ferro-alloys	7 389	8 088	8 653	10 133	22 355
Silicon metal	14 778	15 670	18 894	20 136	20 336
Ingots, blooms, billets	929 868	1 041 393	801 104	890 109	1 404 233
Scrap	1 395 930	1 705 635	1 632 170	2 402 691	2 748 147
Germany					
Pig iron	387 261	414 887	242 049	296 685	339 177
Sponge & powder	36 089	54 970	46 172	58 410	57 330
Ferro-chrome	354 662	444 412	339 641	396 657	449 711
Ferro-silico-chrome	19 245	28 616	18 711	22 121	19 592
Ferro-silico-magnesium	3 574	4 687	4 600	4 066	3 831
Ferro-manganese	163 597	198 334	152 092	175 233	180 041
Ferro-silico-manganese	133 487	135 336	121 775	144 301	101 243
Ferro-molybdenum	7 493	7 842	6 757	8 449	9 828
Ferro-nickel	118 902	11 954	77 681	88 858	56 098
Ferro-niobium	2 478	2 221	3 395	3 664	3 359
Ferro-phosphorus	24 306	26 550	7 266	5 540	4 612
Ferro-silicon	160 868	184 678	179 525	173 056	175 323
Ferro-titanium & Fe-Si-Ti	10 138	8 357	7 586	7 056	8 380
Ferro-tungsten & Fe-Si-W	517	901	529	455	645
Ferro-vanadium	5 915	3 895	3 861	5 423	5 506
Other ferro-alloys	12 723	18 276	21 224	20 138	27 124
Silicon metal	94 388	100 688	95 897	121 559	117 776
Ingots, blooms, billets	1 377 426	1 767 641	998 882	1 141 721	1 593 375
Scrap	1 017 302	1 253 512	1 334 691	1 862 205	2 678 292
Greece					
Pig iron	35 098	16 864	14 439	13 132	11 561
Ferro-manganese	3 478	4 083	2 667	2 349	*1 800
Ferro-silico-manganese	2 546	4 945	8 503	8 738	7 607
Ferro-silicon	4 407	2 193	2 427	5 754	3 048
Other ferro-alloys	480	381	353	489	800
Ingots, blooms, billets	549 866	626 795	455 454	464 809	145 225
Scrap	346 957	460 576	543 799	762 235	491 145

Imports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Hungary					
Pig iron	21 481	24 535	31 737	32 281	45 615
Ferro-chrome	2 279	(d) ...	(d) ...	(d) ...	(d) ...
Ferro-manganese	8 058	8 575	7 262	9 316	10 369
Ferro-silicon	6 516	7 716	6 710	6 570	6 415
Other ferro-alloys	4 051	7 822	7 882	5 230	4 556
Ingots, blooms, billets	147 869	327 726	166 791	233 838	282 161
Scrap	5 739	9 325	1 829	13 575	57 710
Irish Republic					
Pig iron	629	10 257	320	2 964	3 804
Ferro-alloys	2 598	1 654	2 256	1 117	2 325
Ingots, blooms, billets	8 025	6 755	3 315	1 775	1 558
Scrap	166 585	153 246	51 870	5 000	12 661
Italy					
Pig iron	1 202 212	1 636 859	1 351 649	1 310 196	1 711 795
Sponge & powder	186 373	21 717	18 581	48 362	161 618
Ferro-chrome	185 648	225 766	184 552	230 009	259 357
Ferro-silico-chrome	214	165	293	532	172
Ferro-silico-magnesium	----	(d) ...	(d) ...	5 537	5 855
Ferro-manganese	68 252	69 017	55 184	68 961	68 274
Ferro-silico-manganese	89 874	75 494	70 452	71 842	81 050
Ferro-molybdenum	4 505	(d) ...	(d) ...	4 397	5 735
Ferro-nickel	25 824	20 852	37 603	39 560	40 062
Ferro-niobium	1 135	(d) ...	(d) ...	1 407	1 395
Ferro-phosphorus	1 946	(d) ...	(d) ...	1 219	1 492
Ferro-silicon	93 639	112 967	100 594	112 822	112 673
Ferro-titanium & Fe-Si-Ti	3 418	(d) ...	(d) ...	3 651	3 296
Ferro-tungsten & Fe-Si-W	202	(d) ...	(d) ...	168	146
Ferro-vanadium	1 721	(d) ...	(d) ...	1 493	1 296
Other ferro-alloys	8 362	28 086	23 803	8 819	16 523
Silicon metal	48 902	17 599	19 889	32 053	33 896
Ingots, blooms, billets	1 338 121	2 036 702	1 155 267	1 649 167	2 111 264
Scrap	6 389 402	6 337 321	4 935 364	4 303 774	5 112 063
Latvia					
Pig iron	29 840	4 784	680	2 837	2 665
Scrap	6 532	6 241	65 650	280 169	216 098
Lithuania					
Scrap	1 500	32 000	49 217	82 817	63 050
Netherlands					
Pig iron	198 425	199 003	156 013	176 940	196 800
Sponge & powder	7 790	8 141	1 722	2 280	2 956
Ferro-chrome	64 126	200 212	194 728	150 790	176 092
Ferro-silico-chrome	3 884	2 753	148	5 408	2 731
Ferro-silico-magnesium	1 484	1 823	(d) ...	(d) ...	1 891
Ferro-manganese	16 691	34 042	23 416	39 020	55 750
Ferro-silico-manganese	61 566	46 497	50 575	37 709	39 946
Ferro-molybdenum	2 795	2 633	(d) ...	6 971	4 735
Ferro-nickel	15 456	8 370	3 428	2 977	23 309
Ferro-niobium	176	681	(d) ...	466	4 263
Ferro-phosphorus	6 580	759	(d) ...	(d) ...	2 165
Ferro-silicon	10 581	42 428	38 326	63 684	75 765
Ferro-titanium & Fe-Si-Ti	551	1 287	(d) ...	3 217	1 380
Ferro-tungsten & Fe-Si-W	132	606	(d) ...	711	750
Ferro-vanadium	202	725	(d) ...	2 380	1 266
Other ferro-alloys	1 157	1 671	13 144	5 377	2 256
Silicon metal	12 687	13 532	13 410	23 258	26 156
Ingots, blooms, billets	65 280	56 957	32 245	71 199	123 650
Scrap	2 938 297	3 281 654	2 816 539	2 073 111	1 396 827
Norway					
Pig iron	8 323	10 405	9 227	8 179	10 216
Sponge & powder	9 161	4 049	967	37 973	900
Ferro-chrome	655	864	660	688	712
Ferro-manganese	7 323	15 449	6 079	15 181	22 231
Ferro-silico-manganese	562	5 645	49	3 933	294
Ferro-silicon	7 512	6 152	5 207	9 161	7 825
Other ferro-alloys	509	4 613	728	975	844
Silicon metal	8 962	8 704	5 360	13 203	8 235
Ingots, blooms, billets	166 937	196 095	124 334	166 505	178 746
Scrap	200 118	230 461	215 747	290 278	346 976

Imports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Poland					
Pig iron	68 388	44 537	39 500	30 700	...
Sponge & powder	2 070	2 513	...	...	...
Ferro-chrome	5 062	11 961	9 362	8 300	...
Ferro-silico-magnesium	994	1 897	(d) ...	(d) ...	...
Ferro-manganese	5 708	9 013	4 546	12 323	...
Ferro-silico-manganese	5 354	7 682	16 181	14 673	...
Ferro-molybdenum	438	744	584	610	...
Ferro-phosphorus	1 088	980	(d) ...	(d) ...	...
Ferro-silicon	13 227	8 837	11 568	13 047	...
Ferro-vanadium	318	405	280	259	...
Other ferro-alloys	399	968	4 179	12 873	...
Silicon metal	4 098	4 070	4 583	5 150	...
Ingots, blooms, billets	150 008	53 000	146 000	133 000	...
Scrap	185	238	400	14 400	...
Portugal					
Pig iron	14 442	...	20 671	23 285	27 032
Ferro-manganese	1 724	(d) ...	1 239	1 108	1 304
Ferro-silico-manganese	(d) ...	(d) ...	7 177	7 553	6 310
Ferro-silicon	(d) ...	(d) ...	4 087	4 658	4 360
Other ferro-alloys	11 502	13 000	1 619	2 626	4 576
Ingots, blooms, billets	27 077	...	3 277	14 126	22 860
Scrap	35 490	62 000	34 555	39 749	173 559
Romania					
Pig iron	3 441	6 594	6 673	2	42
Ferro-alloys	54 728	61 531	47 740	80 566	85 521
Ingots, blooms, billets	18 991	88 410	97 269	70 097	346 160
Russia					
Pig iron	...	...	161 789	53 894	24 127
Sponge & powder	...	...	3 907 416	584 588	55 495
Ferro-chrome	25 200	19 100	20 008	8 247	8 734
Ferro-silico-chrome	...	...	1 026	-----	-----
Ferro-manganese	113 300	155 200	125 778	144 674	150 344
Ferro-silico-manganese	...	...	210 725	154 570	114 641
Ferro-molybdenum	...	...	(d) ...	311	1 124
Ferro-niobium	...	...	(d) ...	139	362
Ferro-silicon	...	...	54 950	40 534	15 249
Ferro-titanium & Fe-Si-Ti	...	...	(d) ...	120	1 437
Ferro-vanadium	...	...	(d) ...	104	219
Other ferro-alloys	...	...	4 549	882	1 465
Silicon metal	...	...	2 170	1 824	2 245
Ingots, blooms, billets	...	...	235 835	19 912	17 731
Scrap	143 900	91 000	124 952	92 841	77 093
Slovakia					
Pig iron	22 000	21 000	27 000	18 000	24 341
Sponge & powder	(b) *8 400	(b) *600	...	425	2 095
Ferro-alloys	33 000	21 000	13 000	13 000	15 508
Ingots, blooms, billets	20 000	11 000	11 000	13 081	...
Scrap	133 000	236 000	158 000	160 000	188 586
Slovenia					
Pig iron	9 243	11 000	14 615	9 847	8 387
Ferro-alloys	11 186	15 000	13 671	22 176	25 332
Ingots, blooms, billets	9 848	3 000	2 103	2 533	3 166
Scrap	278 290	260 000	142 673	203 099	261 088

Imports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Spain					
Pig iron	232 426	321 804	373 164	255 342	350 118
Sponge & powder	221 970	229 007	225 759	342 934	567 763
Ferro-chrome	151 321	150 798	146 344	188 775	192 914
Ferro-silico-chrome	5 543	5 258	5 718	5 949	5 351
Ferro-silico-magnesium	3 657	4 893	(d) ...	4 065	3 527
Ferro-manganese	29 244	28 929	18 364	13 967	13 514
Ferro-silico-manganese	36 414	29 012	21 563	24 976	25 312
Ferro-molybdenum	2 175	2 396	(d) ...	3 260	2 266
Ferro-nickel	29 345	25 027	28 043	25 806	32 235
Ferro-niobium	302	265	(d) ...	368	387
Ferro-phosphorus	1 741	1 291	(d) ...	1 968	1 990
Ferro-silicon	33 593	21 439	33 346	42 561	43 300
Ferro-titanium & Fe-Si-Ti	304	242	(d) ...	488	561
Ferro-tungsten & Fe-Si-W	17	31	(d) ...	57	50
Ferro-vanadium	634	583	(d) ...	531	343
Other ferro-alloys	2 133	3 669	12 661	3 897	11 667
Silicon metal	3 766	3 126	3 649	3 655	4 953
Ingots, blooms, billets	65 078	335 428	412 996	474 682	438 176
Scrap	4 534 213	4 799 745	4 479 581	5 249 904	5 998 402
Sweden					
Pig iron	47 068	42 187	39 062	31 011	59 364
Sponge & powder	4 847	4 393	4 239	5 357	7 650
Ferro-chrome	66 757	79 408	64 878	71 078	76 916
Ferro-silico-chrome	2 152	2 568	2 397	2 334	3 458
Ferro-silico-magnesium	-----	(d) ...	(d) ...	1 270	1 919
Ferro-manganese	24 235	29 828	24 501	22 952	28 899
Ferro-silico-manganese	17 313	21 328	18 163	16 127	19 347
Ferro-molybdenum	3 803	(d) ...	(d) ...	2 508	4 013
Ferro-nickel	21 398	20 440	16 657	17 979	15 090
Ferro-niobium	454	(d) ...	(d) ...	376	611
Ferro-phosphorus	993	(d) ...	(d) ...	991	969
Ferro-silicon	33 460	25 080	30 978	31 064	36 840
Ferro-titanium & Fe-Si-Ti	2 119	(d) ...	(d) ...	1 813	2 264
Ferro-tungsten & Fe-Si-W	1 684	(d) ...	(d) ...	722	601
Ferro-vanadium	1 909	(d) ...	(d) ...	1 070	1 575
Other ferro-alloys	2 369	11 480	9 555	1 415	4 947
Silicon metal	2 641	1 795	2 487	2 101	2 413
Ingots, blooms, billets	340 318	247 078	335 334	393 046	305 002
Scrap	663 765	362 905	333 059	492 324	612 175
Switzerland					
Pig iron	25 825	44 518	30 921	22 268	36 101
Sponge & powder	4 964	5 549	4 855	6 381	8 038
Ferro-aluminium	999	1 055	1 860	333	28
Ferro-chrome	692	805	522	732	1 012
Ferro-manganese	1 989	2 757	3 617	5 518	3 824
Ferro-silico-manganese	8 204	4 396	3 830	4 413	5 615
Ferro-silicon	5 090	5 171	4 702	5 850	6 042
Other ferro-alloys	772	748	947	1 185	1 276
Silicon metal	1 505	1 589	1 397	16 579	12 023
Ingots, blooms, billets	172 287	132 120	59 664	93 321	90 596
Scrap	110 249	90 186	76 086	165 862	217 924
Turkey					
Pig iron	563 512	580 624	393 343	244 247	194 160
Sponge & powder	1 106	1 962	2 363	3 221	14 088
Ferro-manganese	37 455	24 600	33 940	32 459	24 323
Ferro-silico-manganese	89 472	103 832	93 835	102 756	91 245
Ferro-silicon	33 107	...	45 023	41 466	48 971
Other ferro-alloys	3 509	3 594	4 715	5 232	6 554
Ingots, blooms, billets	1 620 437	1 009 767	1 311 824	1 219 268	1 484 361
Scrap	5 917 326	6 613 223	7 085 308	7 747 674	6 550 614
Ukraine					
Scrap	113 400	181 000	89 836	90 061	26 250

Imports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
United Kingdom					
Pig iron	228 259	234 061	240 886	210 112	225 191
Sponge & powder	18 992	20 487	21 414	25 691	34 127
Ferro-chrome & ferro-silico-chrome	128 507	135 108	133 540	118 915	114 213
Ferro-silico-magnesium	9 080	10 961	11 508	11 374	9 690
Ferro-manganese	119 463	135 494	131 528	135 902	111 509
Ferro-silico-manganese	31 897	40 453	35 098	38 261	49 475
Ferro-molybdenum	1 103	1 375	392	773	542
Ferro-nickel	40 540	39 115	35 416	20 251	11 982
Ferro-niobium	852	767	921	856	1 085
Ferro-phosphorus	2 791	3 021	3 227	3 025	2 915
Ferro-silicon	80 254	92 069	96 025	96 005	82 476
Ferro-titanium & Fe-Si-Ti	7 419	7 761	7 591	5 161	4 838
Ferro-tungsten & Fe-Si-W	59	98	44	112	56
Ferro-vanadium	500	450	291	378	379
Other ferro-alloys	2 391	3 448	1 806	3 108	4 475
Silicon metal	42 294	44 041	45 831	46 675	45 148
Ingots, blooms, billets	282 652	794 305	373 414	458 875	546 020
Scrap	88 913	177 248	242 588	211 827	173 872
Yugoslavia, Federal Republic of					
Ferro-chrome	*1 000	*1 000	1 900	2 100	779
Other ferro-alloys	...	...	...	11 351	6 626
Ingots, blooms, billets	...	...	92 000	124 152	34 804
Scrap	*50 000	*50 000	78 000	37 577	42 372
Algeria					
Ferro-manganese	1 992	1 000	402	1 931	...
Other ferro-alloys	2 089	...	262	1 758	...
Egypt					
Pig iron	204 495	...	881 266	94 208	...
Ferro-alloys	18 635	...	25 792	22 300	...
Ingots, blooms, billets	338 445	282 518	642 562	1 209 431	...
Scrap	105 666	97 400	121 382	54 909	...
Kenya					
Ingots, blooms, billets	3 232	1 000	2 810	495	----
Mauritius					
Pig iron & ingots	...	39 430	31 116	34 587	37 331
Morocco					
Pig iron	3 564	3 409	2 600	1 448	...
Ferro-alloys	386	403	339	373	...
Ingots, blooms, billets	411 442	536 555	523 064	587 408	...
Scrap	600	3	1 524	2 313	...
South Africa					
Ferro-chrome	2 090	1 371	626	465	628
Ferro-silico-magnesium	977	1 477	814	220	457
Ferro-silico-manganese	72	243	253	196	5 338
Ferro-molybdenum	949	1 048	1 104	1 258	1 040
Ferro-nickel	1 804	1 866	5 251	2 263	4 508
Ferro-niobium	101	172	91	87	223
Ferro-phosphorus	826	1 067	...	1 882	168
Ferro-silicon	2 821	38 217	16 617	3 100	2 844
Ferro-titanium & Fe-Si-Ti	359	709	925	417	537
Other ferro-alloys	296	700	1 137	222	1 428
Silicon metal	747	422	1 658	2 895	9 609
Scrap	80 423	155 300	67 077	50 048	43 066
Tunisia					
Pig iron	1 422	1 939	1 589	680	...
Ferro-alloys	2 305	1 631	2 564	2 808	...
Ingots, blooms, billets	80 281	29 421	68 343	108 477	...
Scrap	379	737	900	1 304	...
Zimbabwe					
Ferro-manganese	1 532	1 710	10 091	1 100	772
Ferro-silicon	1 626	1 269	49 475	45 341	3 201

Imports of Iron, Steel and Ferro-Alloys

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Country	1994	1995	1996	1997	1998
Canada					
Pig iron	59 368	18 533	32 245	130 002	124 430
Sponge & powder	10 443	76 822	32 498	52 411	35 831
Ferro-calcium-silicon	1 900	2 111	1 785	2 042	1 903
Ferro-chrome	55 144	62 706	64 545	58 333	50 502
Ferro-silico-chrome	1 473	885	665	594	487
Ferro-manganese	67 500	52 877	83 002	70 568	70 021
Ferro-silico-manganese	34 005	41 494	54 426	43 979	52 200
Ferro-molybdenum	886	1 414	1 283	1 664	1 846
Ferro-nickel	9	631	64	----	4
Ferro-niobium	1 594	1 646	1 266	1 683	1 885
Ferro-phosphorus	1 151	1 394	1 067	1 247	1 270
Ferro-silicon	25 264	26 699	42 477	43 877	50 924
Ferro-titanium & Fe-Si-Ti	855	759	902	1 134	1 465
Ferro-vanadium	631	598	576	793	1 018
Other ferro-alloys	1 963	1 776	1 869	2 536	2 215
Silicon metal	12 429	17 451	25 465	20 106	19 522
Ingots, blooms, billets	1 064 085	1 481 839	1 053 550	821 685	834 911
Scrap	1 725 588	1 632 583	1 264 712	1 531 652	1 482 266
Costa Rica					
Ingots, blooms, billets	75 676	50 944	53 313	80 212	...
El Salvador					
Ingots, blooms, billets	31 975	9 449	17 101	38 595	69 711
Scrap	42 152	18 827	47 725	17 774	24 184
Guatemala					
Ingots, blooms, billets	71 238	37 058	40 677	43 341	182 242
Mexico					
Pig iron	49 767	77 964	306 638	493 510	514 741
Sponge & powder	1 055 256	1 399 089	1 233 530	...	...
Ferro-chrome	4 344	5 863	7 519	9 301	8 154
Ferro-manganese	16 116	17 372	23 164	16 313	15 151
Ferro-silico-manganese	15 008	8 504	14 849	15 539	25 967
Ferro-silicon	22 920	18 449	23 104	27 717	31 062
Other ferro-alloys	2 805	3 921	4 291	6 797	8 811
Ingots, blooms, billets	241 881	137 371	389 983	399 660	773 613
Scrap	832 667	874 406	1 294 771	1 895 475	1 280 083
Panama					
Ingots, blooms, billets	36 713	34 584	27 008	42 567	29 000
USA					
Pig iron	2 503 709	2 383 358	2 657 503	3 153 082	5 145 121
Sponge & powder	1 099 175	1 323 901	1 181 377	1 223 391	1 170 294
Ferro-chrome	320 045	499 236	419 647	388 858	418 492
Ferro-silico-chrome	15 068	49 667	49 396	36 502	24 946
Ferro-manganese	335 779	321 744	375 368	302 996	336 097
Ferro-silico-manganese	276 648	304 706	324 957	303 109	345 033
Ferro-molybdenum	6 583	6 721	7 929	5 891	7 720
Ferro-nickel	42 350	45 890	43 405	38 218	35 918
Ferro-niobium	4 004	5 685	4 801	6 957	8 076
Ferro-phosphorus	15 244	7 592	10 556	11 457	13 651
Ferro-silicon	203 876	220 645	210 937	195 209	203 804
Ferro-titanium & Fe-Si-Ti	6 337	5 646	7 758	6 233	7 335
Ferro-tungsten & Fe-Si-W	687	874	702	1 087	825
Ferro-vanadium	3 101	3 026	2 481	2 535	2 455
Other ferro-alloys	23 489	31 442	37 778	40 090	39 356
Silicon metal	103 307	97 310	83 936	125 087	106 929
Ingots, blooms, billets	7 207 916	4 695 297	6 848 093	5 771 636	6 220 275
Scrap	1 766 740	2 021 268	2 560 814	2 833 522	3 024 556
Argentina					
Pig iron	9 036	2 650	2 900	1 322	1 580
Ferro-chrome	2 872	3 026	3 339	3 164	3 715
Ferro-manganese	3 344	5 448	5 571	6 289	8 649
Ferro-silico-manganese	21	371	7 064	21 550	4 344
Ferro-silicon	1 977	2 356	161	974	3 174
Other ferro-alloys	964	1 166	1 357	1 632	2 226
Ingots, blooms, billets	499 392	396 876	270 655	528 367	413 903
Scrap	4 590	6 491	12 831	7 743	9 827

Imports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Brazil					
Sponge & powder	3 928	9 760	10 345	8 491	5 430
Ferro-chrome	15 568	6 096	6 890	6 842	5 676
Ferro-manganese	3 881	13 984	8 683	9 346	10 131
Other ferro-alloys	2 572	4 229	8 817	7 428	7 277
Scrap	148 666	...	...	...	...
Colombia					
Ferro-chrome	758	533	623	290	331
Ferro-manganese	5 699	5 621	4 515	5 857	5 382
Ferro-silico-manganese	2 530	4 035	3 104	4 494	2 447
Ferro-silicon	3 130	2 554	2 627	3 040	2 233
Other ferro-alloys	943	1 020	687	928	853
Ingots, blooms, billets	213 737	147 588	115 889	173 515	171 523
Scrap	197 076	220 266	116 036	142 511	119 033
Ecuador					
Ingots, blooms, billets	95 991	206 414	191 701	160 715	166 177
Peru					
Sponge	69 232	73 881	62 830	...	...
Ferro-chrome	478	697	438	971	...
Ferro-manganese	3 004	3 160	2 156	2 162	...
Ferro-silico-manganese	3 991	4 237	4 262	7 030	...
Ferro-silicon	1 583	1 165	1 776	1 280	...
Scrap	40 718	...	...	19 581	...
Uruguay					
Ferro-alloys	850	746	1 107	778	666
Ingots, blooms, billets	3 021	243	509	200	3 004
Venezuela					
Sponge & powder	3 519	21 739	3 363	3 025	...
Ferro-chrome	76	263	281	358	...
Ferro-manganese	26 209	23 256	15 794	20 180	...
Other ferro-alloys	680	1 477	1 480	1 686	...
Silicon metal	1 055	2 350	1 031	2 119	...
Ingots, blooms, billets	2 453	68 947	4 670	24 967	...
Scrap	144 868	173 612	250 110	66 254	...
Abu Dhabi					
Scrap	12 937	...	7 046	3 366	1 274
Bangladesh					
Pig iron (a)	...	...	43 934	15 493	...
Ferro-alloys (a)	...	...	3 400	103 635	...
Scrap (a)	...	...	405	13 127	...
China					
Pig iron	311 938	80 084	42 491	24 013	23 972
Sponge & powder	32 564	48 751	6 989	31 181	12 811
Ferro-alloys	31 339	6 901	6 234	28 999	6 975
Ingots, blooms, billets	2 633 002	645 232	398 005	394 774	690 829
Scrap	2 121 759	1 334 519	1 283 322	1 828 759	2 018 655
Hong Kong					
Ferro-manganese	9 935	2 737	9 073	2 353	643
Ferro-silico-manganese	15 587	3 821	2 008	5 034	406
Ferro-silicon	18 112	22 208	21 445	12 566	2 682
Other ferro-alloys	1 484	3 586	4 941	633	731
Silicon metal	10 848	8 856	7 145	3 856	1 008
Ingots, blooms, billets	245 467	273 909	319 684	143 730	237 749
Scrap	202 770	257 917	243 392	255 113	249 397
India					
Pig iron (e)	48 571	29 798	17 809	2 666	...
Sponge & powder (e)	2 997	3 583	3 258	2 903	...
Ferro-chrome & ferro-silico-chrome (e)	5 835	13 456	8 131	14 185	...
Ferro-manganese & Fe-Si-Mn (e)	755	2 738	20 546	14 993	...
Ferro-molybdenum (e)	336	358	217	245	...
Ferro-nickel (e)	16 661	12 193	8 635	9 469	...
Ferro-silicon (e)	9 828	22 510	17 901	14 112	...
Other ferro-alloys (e)	1 264	1 650	2 879	4 689	...
Silicon metal (e)	11 347	10 951	15 195	13 823	...
Ingots, blooms, billets (e)	237 189	324 176	392 234	414 223	...
Scrap (e)	2 212 536	1 964 571	1 975 667	1 658 894	...

Imports of Iron, Steel and Ferro-Alloys

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Country	1994	1995	1996	1997	1998
Indonesia					
Pig iron	339 928	557 878	372 572	220 848	75 138
Sponge & powder	214 019	495 842	203 761	228 625	57 543
Ferro-manganese	5 311	22 336	11 964	36 009	7 482
Ferro-silico-manganese	24 625	35 405	30 103	32 545	16 085
Ferro-silicon	8 315	11 768	9 800	9 158	8 480
Other ferro-alloys	1 724	2 164	1 507	2 407	996
Ingots, blooms, billets	925 233	1 388 605	1 376 411	1 718 583	268 109
Scrap	1 024 178	1 462 333	788 561	869 730	399 964
Iran					
Ingots, blooms, billets (c)	31 454	27 894	...	...	...
Israel					
Ingots, blooms, billets	111 000	170 000	211 000	...	...
Japan					
Pig iron	1 600 992	2 613 359	791 976	1 052 218	184 396
Sponge & powder	197 327	154 732	156 601	227 821	113 446
Ferro-chrome	610 163	825 718	718 567	811 555	628 345
Ferro-silico-chrome	11 165	13 208	10 142	4 729	3 414
Ferro-manganese	85 703	123 917	110 917	95 240	109 853
Ferro-silico-manganese	204 342	240 510	233 277	257 536	201 284
Ferro-molybdenum	2 298	2 122	2 585	3 167	2 214
Ferro-nickel	48 394	66 772	58 460	49 752	41 069
Ferro-niobium	3 642	5 051	4 758	4 977	6 516
Ferro-phosphorus	6 709	12 947	5 881	7 639	7 324
Ferro-silicon	484 591	557 155	517 618	556 735	401 939
Ferro-titanium & Fe-Si-Ti	5 487	5 620	3 122	6 276	4 792
Ferro-tungsten & Fe-Si-W	750	672	415	775	974
Ferro-vanadium	1 021	1 336	1 281	1 770	1 915
Other ferro-alloys	10 121	14 448	10 409	14 099	11 065
Silicon metal	151 956	181 696	191 494	166 312	163 202
Ingots, blooms, billets	310 368	567 734	299 397	274 082	45 554
Scrap	1 067 871	1 208 644	375 078	414 555	176 907
Jordan					
Ingots, blooms, billets	168 837	210 762	350 369	252 480	...
Korea, Dem. P.R. of					
Ferro-manganese (b)	*4 900	*6 600	*2 700	*1 800	*2 300
Other ferro-alloys (b)	*4 600	*4 300	*7 200	*16 400	...
Korea, Republic of					
Pig iron	1 764 211	2 141 583	2 426 685	3 691 551	2 481 263
Sponge & powder	562 002	690 492	850 124	911 933	607 926
Ferro-chrome	175 056	187 302	204 707	299 313	287 466
Ferro-silico-chrome	10 305	16 108	15 198	12 311	17 063
Ferro-manganese	23 747	37 962	43 650	41 085	36 445
Ferro-silico-manganese	60 511	76 301	99 513	120 438	89 959
Ferro-molybdenum	1 328	1 592	1 018	1 785	1 423
Ferro-nickel	41 701	41 680	62 551	85 172	86 594
Ferro-niobium	470	355	396	634	779
Ferro-phosphorus	3 791	5 184	3 340	3 392	3 681
Ferro-silicon	105 908	125 369	118 423	128 241	118 983
Ferro-titanium & Fe-Si-Ti	114	242	491	764	462
Ferro-tungsten & Fe-Si-W	112	92	184	74	90
Ferro-vanadium	905	1 519	863	728	762
Other ferro-alloys	3 181	2 605	2 605	----	6 465
Silicon metal	15 365	16 775	19 516	19 325	12 592
Ingots, blooms, billets	3 032 724	3 246 945	4 176 046	3 631 133	1 579 493
Scrap	4 970 144	5 003 359	5 054 668	6 532 716	5 566 790
Kyrgyzstan					
Scrap	28 000	*10 000	461	*500	...
Malaysia					
Pig iron	134 258	182 097	169 910	...	...
Spiegeleisen	12 311	...	...	...	...
Sponge & powder	8 843	...	...	...	...
Ferro-manganese	7 256	16 000	22 000	...	...
Ferro-silico-manganese	6 374	...	...	...	...
Ferro-silicon	13 228	...	...	...	...
Ferro-vanadium	512	...	...	...	...
Other ferro-alloys	3 343	...	...	...	...
Ingots, blooms, billets	717 087	580 958	944 411	...	...
Scrap	869 896	1 064 500	1 089 543	991 000	...

Imports of Iron, Steel and Ferro-Alloys

Country	1994	1995	1996	1997	1998
Pakistan					
Pig iron (a)	2 900	2 820	36	6 109	8 457
Ferro-chrome	643	1 659	1 125	...	...
Ferro-manganese	12 410	9 995	18 323	...	...
Ferro-silico-manganese	5 003	85	78	...	...
Ferro-silicon	7 796	7 245	12 702	...	...
Other ferro-alloys	375	1 093	211	...	...
Ingots, blooms, billets (a)	...	...	48 340	48 336	32 504
Scrap (a)	251 386	...	90 576	121 263	65 790
Philippines					
Pig iron	91 124	59 112	69 145	24 536	...
Ferro-manganese	2 697	3 080	5 190	2 857	...
Ferro-silico-manganese	1 281	2 077	1 234	540	...
Ferro-silicon	3 864	5 431	4 908	3 670	...
Other ferro-alloys	370	485	265	296	...
Ingots, blooms, billets	1 618 352	2 234 573	1 951 019	1 799 813	...
Scrap	27 923	53 281	109 516	60 488	...
Qatar					
Scrap	100	20	788	128	...
Saudi Arabia					
Pig iron	39 290	27 626	44 848	11 893	46 486
Ferro-alloys	3 881	4 102	4 282	6 324	2 636
Ingots, blooms, billets	178 860	289 889	196 330	149 110	321 040
Scrap	37 055	...	...	37 004	23 754
Singapore					
Pig iron	87 009	78 599	75 870	21 500	26 510
Sponge & powder	260	21	29	1 714	1 507
Ferro-manganese	513	763	962	904	682
Ferro-silico-manganese	...	...	...	4 204	4 204
Ferro-silicon	5 353	7 788	12 439	1 901	1 420
Other ferro-alloys	496	...	1 704	3 568	406
Ingots, blooms, billets	333 535	226 880	275 172	422 065	116 968
Scrap	123 609	158 143	83 557	63 521	68 633
Sri Lanka					
Ingots, blooms, billets	87 370	69 203	99 609	121 798	...
Syria					
Ingots, blooms, billets	21 385	26 329	25 296	22 350	...
Scrap	12 900	11 748	9 119	1 789	...
Taiwan					
Pig iron	1 197 794	1 090 114	850 315	1 112 462	955 323
Sponge & powder	38 979	55 824	24 373	24 957	22 969
Ferro-chrome	93 548	192 574	196 389	285 664	309 496
Ferro-manganese	37 306	39 274	38 225	51 793	42 990
Ferro-silico-manganese	43 564	64 962	51 311	77 702	79 780
Ferro-molybdenum	750	1 096	1 920	2 234	2 974
Ferro-nickel	2 989	16 820	56 118	81 818	90 978
Ferro-niobium	187	203	245	164	345
Ferro-silicon	46 028	62 098	58 713	63 313	64 723
Ferro-tungsten & Fe-Si-W	58	161	...	122	230
Ferro-vanadium	523	16 610	453	490	468
Other ferro-alloys	2 069	2 489	3 205	6 558	6 421
Silicon metal	17 809	21 673	20 163	25 275	19 434
Ingots, blooms, billets	7 680 156	7 426 257	5 941 500	7 013 973	7 528 921
Scrap	1 069 912	673 190	1 048 932	1 960 652	2 398 392
Thailand					
Pig iron	182 447	281 689	227 771	219 603	...
Sponge & powder	10 300	6 506	1 557	1 325	...
Ferro-chrome	1 286	2 607	3 117	3 095	...
Ferro-manganese	14 079	13 972	8 457	7 744	...
Ferro-silico-manganese	5 506	16 912	29 218	21 947	...
Ferro-silicon	27 741	19 016	16 751	15 645	...
Other ferro-alloys	5 875	615	915	775	...
Silicon metal	1 992	2 291	2 614	3 536	...
Ingots, blooms, billets	3 209 335	3 428 112	3 995 668	3 256 499	...
Scrap	1 158 764	1 035 693	899 238	728 218	...

Imports of Iron, Steel and Ferro-Alloys

tonnes

Country	1994	1995	1996	1997	1998
Australia					
Pig iron	13 169	51 949	5 579	26 729	97 178
Sponge & powder	37 550	72 202	4 095	13 388	9 257
Ferro-chrome	9 486	11 703	7 616	11 707	8 438
Ferro-manganese & Fe-Si-Mn	10 880	10 948	15 084	8 075	11 933
Ferro-molybdenum	316	320	262	334	294
Ferro-niobium	170	94	364	150	20 109
Ferro-silicon	34 294	37 565	49 999	35 825	33 952
Ferro-titanium & Fe-Si-Ti	440	327	363	356	361
Ferro-vanadium	132	77	31	4 710	232
Other ferro-alloys	1 532	1 454	1 441	1 934	1 629
Silicon metal	3 131	3 316	4 804	2 948	3 771
Ingots, blooms, billets	96 959	19 158	34 423	124 113	37 217
Scrap	48 960	2 657	28 094	2 216	10 363
New Zealand					
Ferro-manganese (a)	2 330	1 999	...	2 446	1 611
Ferro-silicon (a)	2 295	2 330	...	2 820	1 821
Other ferro-alloys (a)	2 989	2 522	...	1 577	3 315
Silicon metal (a)	1 736	2 774	...	2 296	1 888

Note(s) :-

(1) In this table the term 'ingots, blooms, billets' corresponds to items 672.4,6,7 and 8 of the Standard International Trade Classification (Revision 3) which includes those of alloy and high carbon steel

- (a) Years ended 30 June of that stated
- (b) BGS estimates, based on known exports from certain countries
- (c) Years ended 20 March following that stated
- (d) Included with 'other ferro-alloys'
- (e) Years ended 31 March following that stated

Production of Kaolin

Country	1994	1995	1996	1997	1998
Austria	65 837	56 789	31 833	42 654	39 666
Belgium	*300 000	*300 000	*300 000	*300 000	*300 000
Bosnia & Herzegovina	*3 000	*3 000	*3 000	*3 000	*3 000
Bulgaria	115 000	*115 000	*115 000	*115 000	*110 000
Czech Republic (a)	651 790	757 949	724 053	822 394	879 446
Finland	8 165	12 392	14 204	...	...
France	330 000	345 000	326 000	332 000	*330 000
Germany (b)	600 000	570 000	700 000	721 000	736 000
Greece	117 254	66 682	60 453	56 459	46 388
Hungary (c)	12 000	5 000	*5 000	*5 000	*5 000
Italy	74 608	87 920	126 000	180 570	...
Poland	52 600	52 965	71 665	83 638	82 480
Portugal	181 933	212 065	177 423	216 075	*200 000
Romania	47 566	49 024	45 199	29 169	*30 000
Russia	60 000	60 000	40 000	48 400	...
Slovakia	24 100	13 300	23 240	22 720	14 500
Slovenia	*10 000	*10 000	*10 000	*10 000	*10 000
Spain (d)	330 939	316 074	317 918	296 015	310 000
Turkey	179 775	489 635	449 559	472 646	403 733
Ukraine	282 000	286 900	249 300	237 900	201 670
United Kingdom (e) (f)	2 530 277	2 585 881	2 281 438	2 359 676	2 391 595
Yugoslavia, Federal Republic of	69 927	56 926	68 460	65 724	75 092
Algeria	16 900	24 068	23 332	18 533	13 640
Burundi	2 331	4 766	*4 500	...	...
Egypt (g)	54 175	70 597	115 409	112 657	138 184
Eritrea	5 231	*3 200	2 620	*2 500	*1 000
Ethiopia (o)	185	701	1 428	3 512	378
Madagascar	*1 200	1 545	*1 500	*1 500	*1 500
Nigeria	242	11 950	102 078	*100 000	*100 000
South Africa	131 863	146 857	150 597	120 148	90 883
Tanzania	541	596	1 332	...	...
Mexico	193 034	221 685	253 602	235 278	339 013
USA (h)	8 770 000	9 480 000	9 180 000	9 280 000	9 450 000
Argentina	50 471	39 860	64 241	47 365	50 000
Brazil (i)	1 323 443	1 269 468	1 251 603	*1 500 000	*1 600 000
Chile	73 081	10 845	13 452	14 238	11 530
Ecuador	6 623	45 054	86 541	7 345	9 685
Paraguay	*74 000	66 300	*66 500	*66 700	*66 700
Peru	7 908	8 445	14 295	7 875	4 968
Venezuela	10 345	3 000	7 542	8 225	*8 000
Bangladesh (g)	2 753	6 597	6 855	8 849	7 731
China	850 000	900 000	950 000	950 000	1 000 000
India (j) (k)	180 350	160 689	183 072	166 453	169 081
Indonesia	53 236	14 373	*15 000	1 956	24 536
Iran (l)	227 650	265 591	364 506	*510 000	*500 000
Israel	45 000	15 000	14 000	16 000	27 000
Japan	138 412	182 122	141 230	110 915	83 257
Jordan	*47 200	65 998	...	57 255	78 000
Kazakhstan	30 000	20 000	20 000	*20 000	...
Korea, Republic of (m)	887 752	897 360	852 457	898 347	627 360
Malaysia	312 628	404 336	324 578	221 769	...
Pakistan (g)	47 503	33 039	45 446	66 235	64 023
Sri Lanka	7 300	16 000	19 473	20 126	11 110
Taiwan	102 822	20 406	25 083	27 491	72 588
Thailand (a)	425 567	471 485	576 334	325 423	*270 000
Uzbekistan	*600 000	*600 000	600 000	*600 000	*600 000

Production of Kaolin

Country	1994	1995	1996	1997	1998
Australia (n)	*280 000	*220 000	*210 000	*150 000	*180 000
New Zealand	40 720	13 662	26 325	21 874	*26 000
World Total	21 000 000	22 200 000	21 900 000	22 100 000	22 300 000

Note(s):

(1) In addition to the countries listed, Colombia, Denmark, Dem. P. R. of Korea, Lebanon and Vietnam are believed to produce kaolin

- (a) Beneficiated
- (b) Washed and dried
- (c) Including beneficiated material
- (d) Washed
- (e) Sales
- (f) Dry weight
- (g) Years ended 30 June of that stated
- (h) Sold or used by producers
- (i) Including beneficiated and directly shipped material
- (j) Beneficiated; excludes directly used natural kaolin
- (k) Years ended 31 March following that stated
- (l) Years ended 20 March following that stated
- (m) Revised series includes kaolin and halloysite. Lower quality kaolinite was also included previously
- (n) Excluding New South Wales
- (o) Years ended 6 July of that stated

Exports of Kaolin

Country	1994	1995	1996	1997	1998
Albania (a)	...	*6 000	*16 100	...	...
Austria	9 353	*10 800	4 900	5 037	2 965
Belgium-Luxembourg	100 191	197 923	250 146	308 573	324 359
Bulgaria	(a) *40 000	76 132	97 024	110 954	...
Czech Republic	345 423	383 498	361 858	397 720	418 948
Denmark	421	598	517	912	1 436
Finland	780	1 892	1 829	2 333	3 572
France	273 975	281 358	260 426	260 812	330 616
Germany	496 760	354 103	196 066	178 366	194 610
Greece	21 095	12 941	26 464	15 733	8 952
Hungary	4 059	5 529	4 403	1 866	1 814
Italy	37 567	34 831	30 811	42 537	56 878
Netherlands	227 888	157 631	102 372	85 534	138 731
Poland	10 300	11 000	100	200	...
Portugal	100	100	1 008	4 951	2 741
Russia	...	62	3 003	574	302
Slovakia	100	100	1 694	819	-----
Slovenia	1 900	1 000	1 160	198	295
Spain	117 571	138 647	137 994	144 343	104 342
Sweden	4 088	10 600	13 753	25 476	35 697
Switzerland	7 089	143	286	190	87
Turkey	189 425	256 907	190 761	158 642	185 431
Ukraine	263 000	206 402	236 053	291 161	230 888
United Kingdom (d)	2 173 888	2 222 316	1 957 761	2 052 914	2 093 460
Egypt	500	600	3 250	64 456	...
USA	3 189 995	3 246 515	3 246 749	3 395 222	3 585 990
Argentina	2 879	2 614	4 513	8 242	9 620
Brazil	524 877	579 810	602 150	764 743	964 268
China	485 721	439 439	882 146	820 520	882 169
Hong Kong (e)	479 702	457 193	261 578	396 008	284 962
India (b)	8 658	6 242	10 469	10 138	...
Indonesia	157 866	192 983	148 380	126 462	90 976
Israel (a)	*5 200	...	*7 500	*16 100	...
Japan	12 769	10 860	8 108	9 139	12 475
Jordan	1 078	793	744	1 155	...
Kazakhstan	21 000	15 000	12 000	10 000	(a) *9 200
Korea, Dem. P.R. of (a)	*1 900	*3 800	*2 600	*6 000	*7 500
Korea, Republic of	123 510	108 337	53 579	23 623	24 504
Malaysia	110 784	98 874	98 949	...	...
Singapore	8 800	1 400	2 300	927	539
of which, re-exports	...	...	...	918	525
Taiwan	6 997	7 486	12 044	21 344	19 262
Thailand	26 793	27 281	20 624	12 184	...
Australia	146 356	131 928	154 326	25 141	24 796
New Zealand (c)	19 306	17 787	15 047	18 147	15 109

Note(s):

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

(b) Years ended 31 March following that stated

(c) Years ended 30 June of that stated

(d) Dry weight

(e) Re-exports

Imports of Kaolin

tonnes

Country	1994	1995	1996	1997	1998
Austria	222 474	240 200	227 000	227 663	216 307
Belgium-Luxembourg	714 738	644 275	646 593	690 593	596 714
Croatia	9 400	16 213	14 193	21 410	4 849
Czech Republic	3 963	3 825	5 846	10 087	16 028
Denmark	9 987	14 587	16 037	28 862	20 210
Finland	1 328 205	1 378 081	1 198 212	1 402 209	1 357 735
France	438 057	444 127	396 785	439 674	368 970
Germany	741 120	717 388	633 467	729 379	739 660
Greece	32 681	57 137	73 542	57 688	44 061
Hungary	22 554	26 145	34 027	38 726	37 509
Irish Republic	10 689	14 837	13 978	11 774	11 627
Italy	855 168	886 062	868 006	834 122	930 913
Macedonia	7 500	*8 000	*8 000	*8 000	...
Netherlands	596 674	523 965	509 753	360 327	393 780
Norway	180 269	252 658	224 811	241 707	250 210
Poland	91 997	91 409	45 400	45 800	...
Portugal	54 935	76 766	95 805	109 909	121 639
Romania	47 699	41 602	54 330	58 851	49 338
Russia	*120 000	*150 000	159 884	131 238	101 940
Slovakia	50 300	60 100	52 500	60 800	74 800
Slovenia	21 900	19 600	20 800	22 300	24 816
Spain	368 212	453 490	434 099	470 225	585 468
Sweden	340 208	400 921	342 964	386 758	371 589
Switzerland	75 601	78 243	74 682	56 975	59 144
Turkey	61 194	84 717	85 789	116 727	139 326
United Kingdom	21 693	17 377	39 194	88 946	45 110
Yugoslavia, Federal Republic	*10 000	*8 000	8 000	7 702	9 075
Algeria	10 800	8 200	6 073	5 813	...
Egypt	58 000	48 900	55 829	85 127	...
Morocco	15 200	18 588	14 700	16 005	...
South Africa	36 985	35 081	17 360	22 054	24 753
Tunisia	46 590	44 860	51 575	50 058	...
Zimbabwe	568	926	24 166	1 747	1 528
Canada	626 718	621 166	599 842	717 103	860 450
Guatemala	5 642	6 227	6 175	4 378	2 682
Mexico	172 002	151 604	221 292	300 139	338 176
USA	10 786	12 017	13 728	30 384	52 943
Argentina	24 992	30 924	26 528	21 548	25 684
Brazil	2 044	2 372	7 001	4 305	4 941
Chile	15 462	22 152	16 463	24 196	16 002
Colombia	11 944	7 899	10 486	11 402	8 967
Ecuador	7 729	7 946	3 447	13 166	13 911
Peru	2 234	2 369	2 998	1 509	...
Uruguay	6 436	5 492	7 331	10 334	13 333
Venezuela	27 240	32 873	31 729	27 772	...
Bangladesh (b)	*10 000	17 700	7 148	65 102	...
China	25 639	30 805	37 211	54 295	64 326
Cyprus	16 126	8 393	16 361	421	4 020
Hong Kong	548 899	405 245	175 803	172 105	139 015
Indonesia	75 597	132 108	125 343	144 964	134 903
Iran (a)	19 214	10 899	...	11 195	...
Israel	*14 100	*14 500	*15 000	*15 000	...
Japan	1 283 769	1 265 419	1 399 224	1 333 036	1 393 293
Jordan	4 253	5 582	4 337	4 276	...
Korea, Republic of	249 641	274 433	264 587	274 430	211 674
Malaysia	34 455	44 231	42 000	*42 000	...
Pakistan (b)	5 362	6 540	8 940	8 252	10 138
Philippines	33 804	34 307	45 854	50 050	...
Saudi Arabia	9 749	6 908	5 563	5 571	4 790
Singapore	40 400	22 500	22 000	10 451	9 613
Taiwan	1 722 616	1 468 705	1 141 070	1 146 106	988 891
Thailand	41 751	45 990	65 400	64 141	...

Imports of Kaolin

Country	1994	1995	1996	1997	1998
Australia	16 227	18 342	14 595	20 753	16 578
New Zealand (b)	8 657	10 360	...	6 641	6 636

Note(s) :-

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

Mine Production of Lead

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Bosnia & Herzegovina	*200	*200	*200	*200	*200
Bulgaria	32 000	32 500	28 500	32 000	22 000
Finland	-----	-----	1 200	2 200	1 800
Georgia	*400	*300	*200	*200	*200
Greece	19 740	14 283	8 383	19 335	22 632
Irish Republic	53 700	46 100	45 300	45 000	35 900
Italy	13 902	15 400	13 900	11 800	6 800
Macedonia	28 600	24 700	26 900	35 100	*33 000
Norway	3 160	1 452	2 083	1 900	...
Poland	51 600	58 100	58 700	54 729	59 600
Romania	23 838	23 194	21 356	19 447	15 144
Russia	25 000	22 800	23 000	16 000	13 000
Spain	23 978	30 077	23 732	19 925	19 000
Sweden	112 787	100 070	98 812	108 624	114 430
Turkey	9 800	10 376	11 736	13 113	14 600
United Kingdom	2 000	*1 600	*1 800	*1 600	*1 600
Yugoslavia, Federal Republic of	2 667	3 342	15 000	14 000	17 300
Algeria	700	900	600	800	700
Kenya	350	4	-----	-----	-----
Morocco	73 160	68 870	75 253	78 228	79 100
Namibia	21 100	22 100	20 300	18 300	13 500
South Africa	95 824	88 501	88 613	83 114	84 128
Tunisia	2 900	6 600	4 765	1 424	4 274
Zambia	600	-----	-----	-----	-----
Canada	170 909	210 286	257 253	186 234	189 297
Honduras	2 777	2 461	4 669	5 930	4 329
Mexico	163 836	179 772	167 115	180 350	171 610
USA	370 200	393 600	435 945	458 500	491 200
Argentina	9 981	10 521	11 272	13 760	15 004
Bolivia	19 678	20 387	16 538	18 608	13 848
Brazil	806	5 689	7 894	8 729	7 567
Chile	1 008	944	1 374	1 264	337
Peru	235 042	237 597	248 929	262 466	257 713
China	461 900	514 200	643 400	711 900	580 500
India	23 900	34 000	35 000	32 900	37 700
Iran (a)	18 300	15 900	15 700	18 200	13 300
Japan	9 946	9 659	7 753	5 227	6 198
Kazakhstan	69 000	53 324	28 804	30 346	30 100
Korea, Dem. P.R. of	*55 000	*50 000	*40 000	*35 000	*30 000
Korea, Republic of	2 173	4 064	5 131	3 632	3 559
Myanmar	2 300	4 800	2 400	2 300	2 000
Tajikistan	*1 200	*1 000	*2 500	*2 000	*2 000
Thailand	7 500	9 100	19 700	5 000	6 100
Uzbekistan	*19 000	*15 000	*10 000	*1 800	*1 000
Australia	505 000	455 000	527 000	531 000	618 000
World Total	2 800 000	2 800 000	3 100 000	3 100 000	3 000 000

Note(s):

(a) Years ended 20 March following that stated

Production of Refined Lead

tonnes

Country	1994	1995	1996	1997	1998
Austria	17 583	21 919	22 188	21 941	23 248
Belgium (a)	148 247	144 069	142 178	142 901	...
Bulgaria	64 012	60 149	74 700	72 600	76 800
Czech Republic	25 000	22 000	21 800	21 800	24 300
France	260 500	297 100	295 900	283 400	290 200
Germany	331 720	313 910	238 100	329 203	352 885
Greece	-----	3 800	*5 000	*6 000	*6 000
Irish Republic	10 000	11 200	11 900	12 600	13 000
Italy	222 600	189 400	209 800	211 600	199 300
Macedonia	20 965	22 500	23 700	26 046	26 500
Netherlands	24 500	21 500	22 000	19 500	17 200
Poland	61 100	66 421	65 983	64 732	64 300
Portugal	13 000	7 700	5 900	*6 000	*6 000
Romania	20 307	23 020	19 370	17 686	19 806
Russia	34 300	30 300	30 000	52 000	37 000
Slovenia	15 000	14 000	13 700	15 000	*15 000
Spain	70 400	81 500	90 960	88 000	90 000
Sweden	81 909	83 088	84 494	89 350	91 631
Switzerland	6 100	7 000	7 600	9 900	*10 000
Turkey	10 000	4 000	12 000	9 000	8 800
Ukraine	9 000	14 000	21 000	11 000	9 000
United Kingdom	352 466	320 704	351 351	384 112	349 704
Yugoslavia, Federal Republic of	4 458	11 468	30 317	23 632	23 756
Algeria	6 000	7 500	7 500	8 000	7 000
Kenya	1 600	2 000	*2 200	*1 000	*1 000
Morocco	63 800	65 200	65 200	64 202	65 200
Namibia	23 813	26 752	18 845	1 530	236
Nigeria	3 900	*7 500	*5 000	*5 000	*5 000
South Africa	31 600	32 100	32 200	41 500	49 700
Zambia	500	500	400	*500	*500
Zimbabwe	*3 000	*3 000	3 400	*2 000	*2 000
Canada	251 640	281 391	310 791	271 395	265 026
Mexico	226 700	232 900	216 400	255 200	250 200
Trinidad & Tobago	*1 600	*1 500	*2 000	*1 000	*1 000
USA (b)	1 249 000	1 357 900	1 372 000	1 417 100	1 390 600
Argentina	*25 400	28 728	28 101	32 116	30 357
Brazil (c)	84 000	79 000	45 000	44 500	48 000
Colombia	*7 000	*8 000	*10 000	*10 000	*12 000
Peru	87 440	89 577	94 324	86 015	109 494
Venezuela	18 000	23 000	25 000	25 000	25 000
China	467 900	607 900	715 500	707 500	756 900
India	60 300	66 000	67 000	59 900	63 700
Indonesia	30 000	*30 000	*30 000	*30 000	22 000
Iran	*31 000	*30 000	*30 000	*30 000	*35 000
Israel	8 000	8 200	8 000	*8 000	*8 000
Japan	292 219	287 578	287 373	296 759	302 064
Kazakhstan	150 300	47 024	67 259	81 975	118 632
Korea, Dem. P.R. of	*50 000	*45 000	*40 000	*30 000	*25 000
Korea, Republic of	129 800	180 700	140 800	182 000	180 100
Malaysia	33 200	33 600	36 000	35 900	29 000
Myanmar (d)	2 068	2 074	1 986	1 585	*1 700
Pakistan	*3 000	*3 000	*3 000	*3 000	*3 000
Philippines	17 200	23 000	25 000	25 000	22 000
Saudi Arabia	-----	6 000	15 500	17 000	*18 000
Sri Lanka	1 000	1 000	-----	-----	-----
Taiwan	15 000	36 000	40 500	*40 000	*40 000
Thailand	16 904	19 070	17 711	19 080	22 100
United Arab Emirates	4 100	*4 000	4 100	2 200	2 000

Lead

Production of Refined Lead

Country	1994	1995	1996	1997	1998
Australia	237 000	241 000	228 000	238 000	202 000
New Zealand	6 000	6 000	6 000	6 000	6 000
World Total	5 400 000	5 700 000	5 800 000	6 000 000	6 000 000

Note(s):

(1) Figures relate to both primary and secondary refined lead and include the lead content of antimonial lead. Metal recovered from materials by remelting alone is excluded

- (a) Including alloys
- (b) Excluding Pb content of primary antimonial lead
- (c) Including scrap for direct use
- (d) Years ended 31 March following that stated

Exports of Lead

tonnes

Country	1994	1995	1996	1997	1998
Albania					
Scrap (f)	...	*100	*100	*500	*500
Austria					
Unwrought (a)	4 609	4 597	5 999	5 434	6 380
Scrap	278	260	49	12	43
Belgium-Luxembourg					
Ore	12 211	37 048	8 164	81 019	106 868
Unwrought	85 192	71 364	71 416	75 154	58 571
Unwrought alloys	17 480	18 100	33 919	22 434	28 269
Scrap	38 380	44 241	10 284	7 127	5 100
Bulgaria					
Unwrought (a)	(f) *14 100	59 537	60 324	(f) *62 800	(f) *60 000
Scrap (f)	*2 000	*2 300	*200	*300	*900
Croatia					
Unwrought	100	87	380	1 200	1 341
Scrap	...	9 381	4 420	315	485
Czech Republic					
Unwrought (a)	6 260	7 400	10 600	4 858	2 784
Scrap	...	...	100	1 585	3 039
Denmark					
Unwrought (a)	1 138	439	1 203	658	645
Scrap	18 316	19 691	2 612	2 009	5 987
Estonia					
Scrap (f)	...	*1 400	*5 200	*1 700	*300
Finland					
Unwrought	15	4	499	2 707	425
Scrap	11 357	8 939	11 485	5 735	1 160
France					
Unwrought	61 247	58 341	74 256	58 592	60 833
Unwrought alloys	21 869	29 236	31 479	28 907	28 650
Scrap	5 536	5 437	12 392	6 357	3 024
Germany					
Unwrought	61 375	39 278	31 059	43 068	52 691
Unwrought alloys	25 428	23 007	22 726	29 750	36 231
Scrap	26 809	27 221	13 598	13 866	14 910
Greece					
Unwrought (a)	233	1 554	4 761	2 924	2 594
Hungary					
Scrap	15 774	21 130	18 742	2 215	2 509
Irish Republic					
Ores & concentrates	150 239	93 141	73 440	50 561	36 158
Scrap	2 639	1 709	1 404	123	61
Italy					
Ore	4 784	11 014	11 856	9 000	4 850
Unwrought	30 559	10 458	12 768	55 597	17 278
Unwrought alloys	4 703	1 848	3 126	2 737	3 854
Scrap	9 877	3 232	2 268	191	1 423
Latvia					
Scrap	691	1 286	585	45	58
Lithuania					
Scrap	200	1 600	2 400	2 676	417
Macedonia					
Unwrought (a) (f)	*2 600	*3 200	*10 000	*7 800	*6 000
Netherlands					
Unwrought	6 098	6 091	10 087	10 708	1 966
Unwrought alloys	629	592	934	62	...
Scrap	17 914	28 061	14 621	21 557	21 856
Norway					
Ore	1 500	----	2 140	6 400	----
Scrap	13 207	12 140	10 075	8 122	10 660
Poland					
Ores & concentrates	96 629	47 556	61 305	59 436	59 992
Unwrought (a)	19 989	20 393	28 333	27 700	...
Scrap	403	382	222	333	...
Portugal					
Unwrought (a)	...	1 100	2 936	1 279	5
Scrap	3 300	2 700	1 692	714	1 541

Exports of Lead

tonnes

Country	1994	1995	1996	1997	1998
Romania					
Unwrought, refined	907	2 803	5 849	3 598	3 348
Russia					
Ores & concentrates	23 895	31 447	23 613	32 598	21 754
Unwrought (a) (f)	*5 400	*44 100	*41 800	*31 900	*19 200
Scrap	...	...	27 032	16 355	14 796
Slovakia					
Unwrought (a) (f)	*300	...	*600	*3 500	*3 600
Scrap (f)	...	*700	*2 200	*1 100	*500
Slovenia					
Unwrought (a)	7 805	6 400	6 706	9 200	6 095
Spain					
Ore	40 589	57 871	41 501	24 727	41 230
Unwrought (a)	5 105	4 489	5 055	767	2 073
Scrap	2 273	3 577	1 734	823	1 465
Sweden					
Ore	107 759	75 946	79 738	75 552	114 854
Unwrought	46 019	40 790	43 932	45 002	48 786
Unwrought alloys	9 291	8 876	7 960	6 225	9 079
Scrap	1 632	184	420	151	680
Switzerland					
Unwrought (a)	3 217	3 860	5 344	6 100	3 155
Scrap	18 586	16 756	9 400	7 002	6 607
Turkey					
Ore (e)	5 317	891	7 220	9 856	10 135
Ukraine					
Unwrought (a) (f)	...	...	*10 400	*5 400	*3 000
Scrap (f)	...	...	...	*1 400	*2 300
United Kingdom					
Unwrought	96 557	90 685	65 697	85 007	104 357
Unwrought alloys	34 249	43 642	36 958	31 909	33 115
Scrap	11 153	10 878	10 068	10 618	6 262
Yugoslavia, Federal Republic of					
Unwrought (a)	5 400	(f) *3 300	25 600	18 646	5 335
Algeria					
Unwrought	100	200	1 539	1 682	...
Scrap	...	200	1 362	3 023	...
Morocco					
Ore	55 423	36 905	45 720	47 500	...
Unwrought	56 779	49 787	54 057	50 758	...
Namibia					
Unwrought	26 431	22 177	24 416	1 354	283
South Africa					
Concentrates (b)	93 716	86 125	86 642	85 836	77 029
Unwrought	-----	-----	(f) *600	2 355	2 701
Tunisia					
Ore	2 070	9 928	8 674	5 917	...
Scrap	499	1 107	2 954	1 023	...
Canada					
Ores & concentrates (b) (g)	52 514	90 024	179 433	111 703	52 250
Unwrought	177 894	208 977	214 356	208 319	206 103
Scrap	6 361	7 871	9 692	12 973	7 632
Honduras					
Ores & concentrates (b)	2 777	2 461	4 669	5 930	4 329
Mexico					
Ores & concentrates	-----	17 985	16 430	10 836	12 238
Unwrought	61 435	105 320	82 384	102 678	71 834
Scrap	113	2 440	3 560	2 290	1 292
USA					
Ores & concentrates (b)	37 437	88 544	129 789	82 190	87 938
of which, re-exports	-----	28 779	69 780	39 721	15 516
Unwrought	45 747	48 540	82 265	70 429	70 417
Unwrought alloys	2 539	2 297	5 647	5 635	6 642
Scrap	81 806	104 352	85 376	89 417	101 667

Exports of Lead

tonnes

Country	1994	1995	1996	1997	1998
Argentina					
Ores & concentrates	7 676	8 468	13 420	15 413	18 976
Bolivia					
Ore	38 220	35 076	31 255	33 388	28 797
Peru					
Ores & concentrates	203 325	232 398	210 149	218 882	200 695
Unwrought (a)	75 700	79 762	84 138	91 286	96 721
China					
Ore	62 910	53 629	14 572	25 681	34 371
Unwrought (a)	191 175	185 284	260 515	184 569	250 940
Scrap	1 511	589	152	61	1 751
Cyprus					
Scrap	-----	-----	300	1 255	1 211
Hong Kong					
Unwrought (a)	4 487	6 855	7 799	10 848	13 039
of which, re-exports	4 307	6 715	7 415	10 626	12 860
Scrap	706	762	285	93	429
India					
Unwrought (a) (i)	3 664	1 425	3 312	2 034	...
Indonesia					
Unwrought	(a) 14 400	2 060	1 729	4 832	6 255
Unwrought alloys	...	7 200	13 405	3 340	9 103
Scrap	-----	42	49	109	3 791
Iran					
Ore (c)	153 069	134 050	...	10 850	...
Israel					
Unwrought (a) (f)	*1 000	*600	*500	*1 900	*2 900
Scrap (f)	*1 200	*1 000	*1 300	*800	*400
Japan					
Unwrought (a)	1 423	3 492	7 279	5 980	6 416
Scrap	304	1 195	9 562	15 614	8 575
Jordan					
Scrap	1 449	1 259	682	1 670	...
Kazakhstan					
Unwrought	...	58 326	60 979	77 823	85 170
Scrap	...	115	1 650	852	...
Korea, Dem. P.R. of					
Unwrought (a) (f)	*6 100	*6 800	*9 000	*8 100	*2 600
Korea, Republic of					
Unwrought (a)	17 013	20 494	10 018	25 563	45 217
Malaysia					
Unwrought (a)	4 858	6 900	2 300	...	...
Scrap	2 565	900	700	...	...
Oman					
Unwrought	300	2 300	3 800	3 894	...
Saudi Arabia					
Unwrought (a)	200	4 200	12 400	*15 000	...
Scrap	4 325	11 900	1 889	4 085	...
Singapore					
Unwrought (a)	29 968	15 305	13 913	23 610	30 946
of which, re-exports	29 738	15 137	13 794	23 610	30 469
Scrap	10 562	10 479	3 787	2 234	4 161
of which, re-exports	598	1 743	151	2 234	891
Taiwan					
Unwrought	646	224	1 913	783	6 161
Unwrought alloys	2 710	7 803	13 600	11 832	5 335
Thailand					
Ore	8 751	17 270	10 000	14 500	...

Exports of Lead

tonnes

Country	1994	1995	1996	1997	1998
Australia					
Ores & concentrates	151 852	146 708	165 029	194 456	350 755
Unwrought , base bullion (h)	179 166	167 169	168 225	171 511	134 897
Unwrought, refined (a)	179 152	199 780	186 089	199 864	170 416
Scrap	10 873	20 155	13 015	4 472	2 438
New Zealand					
Unwrought (d)	1 721	7 070	8 937	9 550	11 388
Scrap (d)	63	861	456	217	70

Note(s):

(1) In this table the term 'unwrought' lead corresponds to item 685.1 of the Standard International Trade Classification (Revision 3) and comprises base bullion, pigs, unwrought bars, etc.

- (a) Including alloys
- (b) Pb content
- (c) Years ended 20 March following that stated
- (d) Years ended 30 June of that stated
- (e) Complex lead-zinc ore
- (f) BGS estimates, based on known imports into certain countries
- (g) Including Pb content of zinc concentrates
- (h) Includes a substantial precious metal content, mainly silver
- (i) Years ended 31 March following that stated

Imports of Lead

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Unwrought (a)	46 791	46 271	40 425	44 295	50 910
Scrap	1 073	7 462	6 395	4 469	2 314
Belgium-Luxembourg					
Ore	114 705	86 998	100 448	62 349	95 581
Unwrought	17 592	20 066	8 803	34 272	30 980
Unwrought alloys	8 463	11 605	20 488	10 669	21 679
Scrap	60 841	53 974	30 432	20 882	19 611
Bulgaria					
Ore	...	56 462	56 404	60 739	...
Croatia					
Unwrought (a)	1 500	2 817	3 391	4 054	2 949
Czech Republic					
Unwrought (a)	11 200	15 700	14 100	18 821	28 816
Denmark					
Unwrought	2 368	2 946	3 218	2 692	1 753
Unwrought alloys	4 008	1 270	2 924	2 541	2 123
Scrap	2 748	1 743	1 148	2 620	1 611
Estonia					
Ore	(f) *5 100	...	...	...	...
Finland					
Unwrought	4 169	2 012	1 008	1 286	1 260
Unwrought alloys	1 161	1 570	348	765	570
Scrap	428	502	790	821	542
France					
Ore	154 303	195 812	205 016	205 411	201 999
Unwrought	48 736	42 102	47 987	40 095	35 964
Unwrought alloys	5 148	7 295	9 117	11 990	14 429
Scrap	87 501	90 042	35 139	37 609	43 194
Germany					
Ore	123 467	103 231	48 673	60 804	135 270
Unwrought	115 235	133 920	106 964	103 565	88 922
Unwrought alloys	16 799	14 347	19 618	15 482	33 734
Scrap	21 868	14 356	8 707	14 500	13 735
Greece					
Unwrought (a)	6 305	6 669	5 426	6 214	2 982
Scrap	1 928	2 855	1 931	8 100	10 861
Hungary					
Unwrought (a)	12 839	12 261	13 799	13 876	12 387
Irish Republic					
Unwrought (a)	17 410	17 859	25 502	21 325	27 329
Scrap	9 240	7 978	9 977	6 684	5 066
Italy					
Ore	65 317	66 128	104 483	92 300	97 969
Unwrought	46 103	78 282	75 146	83 682	63 422
Unwrought alloys	16 987	26 884	28 980	21 775	18 686
Scrap	955	4 467	8 449	7 369	2 843
Netherlands					
Unwrought	34 704	46 536	39 990	44 108	31 942
Unwrought alloys	6 447	10 321	8 253	5 659	...
Scrap	13 345	13 251	10 095	10 302	9 787
Norway					
Unwrought (a)	4 569	5 087	4 304	3 146	2 322
Poland					
Unwrought (a)	9 627	5 501	5 900	10 400	...
Portugal					
Unwrought (a)	21 465	20 300	18 596	22 934	28 072
Romania					
Unwrought (a)	200	500	200	293	2 355
Russia					
Ore	(f) *20 300	...	17 490	...	...
Unwrought	68 100	62 100	45 071	30 054	19 536
Scrap	*500	*500	1 358	820	247
Slovakia					
Unwrought (a)	(f) *1 600	(f) *2 000	(f) *800	(f) *800	1 053
Slovenia					
Unwrought (a)	8 107	6 300	8 300	9 200	...
Scrap	11 900	17 500	2 700	----	49

Imports of Lead

tonnes

Country	1994	1995	1996	1997	1998
Spain					
Unwrought	36 078	43 820	(a) 63 436	67 745	80 785
Unwrought alloys	1 995	985	...	13 315	15 198
Scrap	3 768	5 072	3 532	9 635	12 394
Sweden					
Unwrought	4 862	1 060	7 522	686	1 957
Unwrought alloys	593	1 327	1 846	1 747	3 945
Scrap	33 800	28 209	11 153	4 717	1 857
Switzerland					
Unwrought (a)	5 895	6 077	5 726	6 966	4 468
Turkey					
Unwrought (a)	26 183	35 834	39 058	41 324	50 713
Scrap	523	956	----	18	----
United Kingdom					
Ores & concentrates (b)	31 297	45 503	44 654	40 569	34 278
Unwrought	183 631	164 680	183 408	210 837	197 931
Unwrought alloys	2 497	2 218	2 893	1 448	2 658
Scrap	26 889	19 720	8 882	5 120	5 500
Algeria					
Unwrought	6 379	4 000	7 235	4 290	...
Egypt					
Unwrought	6 202	5 800	8 318	16 548	...
Scrap	1 500	2 600	243	14 380	...
Morocco					
Ore	16 369	23 665	29 476	14 403	...
Unwrought alloys	1 030	1 740	133	532	...
Namibia					
Concentrates (b)	5 588	6 872	7 662	----	5
South Africa					
Unwrought (a)	4 585	8 330	10 397	20 581	16 914
Scrap	...	878	1 901	4 688	7 126
Tunisia					
Unwrought (a)	4 113	4 441	5 094	4 767	...
Uganda					
Unwrought (a)	...	...	271	735	503
Canada					
Ores & concentrates (b) (d)	40 449	66 996	89 498	53 194	31 290
Unwrought	6 377	4 869	28 151	36 424	34 140
Scrap	67 931	95 705	76 992	85 293	93 476
Cuba					
Unwrought	*2 700	*2 200	*2 000	*2 000	...
Mexico					
Ores & concentrates	20 783	22 922	29 164	16 478	26 615
USA					
Ores & concentrates (b)	14 702	124 032	369 179	130 667	90 018
Unwrought	208 512	233 026	238 389	237 107	234 350
Unwrought alloys	24 996	33 234	30 217	29 305	34 339
Scrap	7 391	10 343	17 543	16 453	12 184
Brazil					
Ore	26 784	9 498	...	...	...
Unwrought (a)	45 033	47 707	33 346	60 633	59 956
Scrap	3 925	*5 000	5 034	*5 000	...
Chile					
Unwrought (a)	3 189	7 289	6 119	8 666	3 995
Colombia					
Unwrought (a)	4 521	3 481	2 993	6 938	9 800
Scrap	1 025	1 651	403	96	170
Uruguay					
Unwrought	361	262	269	120	117
Venezuela					
Unwrought (a)	7 990	8 778	5 935	6 354	...
Scrap	16	1 883	2 031	1 860	...

Imports of Lead

tonnes

Country	1994	1995	1996	1997	1998
China					
Ores & concentrates	7 990	31 817	69 958	118 330	236 034
Unwrought (a)	5 503	4 583	7 038	6 985	15 413
Scrap	5 793	5 690	820	204	7
Cyprus					
Unwrought (a)	1 145	1 587	2 463	3 002	2 888
Hong Kong					
Unwrought (a)	6 710	8 284	8 459	8 287	20 502
Scrap	172	822	727	77	13
India					
Ore (c)	32 269	14 625	52 428	40 287	...
Unwrought (c)	28 963	20 837	31 831	41 243	...
Unwrought alloys (c)	3 096	1 132	1 711	6 547	...
Scrap (c)	48 874	40 882	9 654	16 346	...
Indonesia					
Unwrought	46 010	54 857	59 602	87 847	30 940
Unwrought alloys	16 420	16 100	14 427	3 606	1 879
Scrap	19 975	989	2 507	968	0
Israel					
Unwrought	(f) *1 000	(f) *1 400	(f) *1 600	(f) *1 600	1 383
Japan					
Ore	234 085	164 819	151 797	154 470	183 272
Unwrought	55 709	79 563	40 066	44 236	28 774
Unwrought alloys	17 219	12 189	11 753	9 210	6 919
Kazakhstan					
Ore	...	7 861	6 053	31 976	57 382
Korea, Republic of					
Ores & concentrates	121 078	140 653	96 026	104 468	164 829
Unwrought	105 843	84 001	151 348	137 411	77 420
Unwrought alloys	30 132	64 139	25 952	32 945	41 115
Scrap	1 047	3 194	4 779	4 168	972
Malaysia					
Unwrought (a)	45 678	56 900	60 000	39 000	...
Scrap	2 238	800	200	*200	...
Oman					
Unwrought	300	2 300	3 800	3 430	...
Pakistan					
Unwrought (a) (e)	8 631	...	6 985	5 747	6 594
Philippines					
Unwrought (a)	9 494	2 256	...	8 166	...
Saudi Arabia					
Unwrought (a)	...	...	260	1 000	1 389
Singapore					
Unwrought	25 434	16 616	44 063	27 291	35 457
Scrap	4 778	7 865	3 041	2 047	2 281
Taiwan					
Unwrought	90 493	110 511	105 354	105 778	107 734
Unwrought alloys	6 578	3 393	4 215	8 399	3 384
Thailand					
Unwrought	28 901	30 464	42 961	28 643	(a) 15 200
Unwrought alloys	16 087	13 320	19 015	9 867	...
Scrap	551	680	628	97	...
Australia					
Ores & concentrates	15 632	31 680	49 573	50 014	...
Unwrought (a)	1 474	8 814	7 462	6 771	11 251
New Zealand					
Unwrought (a) (e)	1 640	1 734	...	2 092	944

Note(s) :-

(1) In this table the term 'unwrought' lead corresponds to item 685.1 of the Standard International Trade Classification (Revision 3) and comprises base bullion, pigs, unwrought bars, etc.

- (a) Including alloys
- (b) Pb content
- (c) Years ended 31 March following that stated
- (d) Including Pb content of zinc concentrates
- (e) Years ended 30 June of that stated
- (f) BGS estimates, based on known exports from certain countries

Production of Lithium Minerals

tonnes

Country	1994	1995	1996	1997	1998
Portugal					
Lepidolite	11 352	8 740	7 626	6 838	7 800
Namibia	1 362	2 611	1 971	632	...
Zimbabwe	25 279	33 498	30 929	49 833	28 055
Canada	*20 000	*21 000	*22 000	*22 500	*22 500
USA (a) (b)	*3 500	*3 500	*4 000	*4 000	...
Argentina	*400	*400	----	(c) (d) 1 876	(c) (d) 16 760
Brazil					
Amblygonite	12	29	41	24	----
Petalite	70	137	30	386	260
Spodumene	7 315	7 005	6 500	6 523	9 225
Chile (c)	10 439	12 943	14 180	24 246	28 377
China	41 511	49 897	40 640	66 909	43 122
Australia					
Spodumene	61 708	80 135	139 287	56 567	42 337
World Total (Li content)	*6 300	*6 800	*7 700	*8 000	*7 700

Note(s):

(1) In addition to the countries listed, Russia also produces lithium minerals

- (a) Li content
- (b) Mostly spodumene
- (c) Carbonate
- (d) Chloride

Exports of Lithium

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg					
Oxides	40	94	...	161	282
Carbonate	16	9	...	161	...
France					
Oxides	35	148	108	93	131
Carbonate	6	532	1 772	2 163	2 528
Germany					
Oxides	384	554	802	819	644
Carbonate	1 464	2 278	2 978	1 439	989
Netherlands					
Oxides	240	351	...	493	299
Carbonate	705	572	...	634	156
Russia					
Oxides	(a) *800	1 471	710	914	868
Carbonate	(a) *1 800	317	76	17	2
Spain					
Lithium minerals	32 024	-----	...	...	...
Carbonate	4 755	18	...	231	14
United Kingdom					
Oxides	188	202	171	103	143
Carbonate	361	536	638	342	394
Namibia					
Lithium minerals	1 269	599	323	381	...
Zimbabwe					
Lithium minerals	6 458	17 867	30 315	11 223	8 872
USA					
Oxides	3 599	4 105	4 432	5 739	4 365
Carbonate	5 279	6 567	7 883	5 119	3 295
Chile					
Carbonate	10 755	13 089	13 694	21 597	24 699
China					
Oxides	1 474	3 251	1 131	992	1 913
Carbonate	2 193	3 613	3 102	937	932
Australia					
Lithium minerals	54 266	71 242	46 770	...	...

Note(s):

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

Imports of Lithium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Carbonate	45	59	46	61	280
Belgium-Luxembourg					
Oxides	199	332	154	325	603
Carbonate	519	554	860	2 241	3 500
France					
Oxides	376	830	512	346	429
Carbonate	978	1 069	1 050	1 026	1 203
Germany					
Oxides	2 334	3 931	4 051	4 975	4 563
Carbonate	6 342	5 120	5 891	7 286	2 429
Italy					
Oxides	185	...	...	167	278
Carbonate	1 062	...	...	1 720	1 937
Netherlands					
Oxides	255	430	...	171	298
Carbonate	923	1 314	...	711	673
Russia					
Carbonate	...	...	...	297	1 647
Spain					
Oxides	146	183	...	188	238
Carbonate	491	568	...	546	421
Sweden					
Oxides	135	...	...	54	156
Carbonate	98	...	...	280	103
United Kingdom					
Oxides	852	645	763	602	580
Carbonate	1 410	1 328	1 963	2 070	1 930
South Africa					
Oxides	6 363	6 875	6 094	228	152
Canada					
Carbonate	1 201	1 050	1 419	1 109	1 151
USA					
Carbonate	4 499	5 969	4 587	5 090	14 005
Venezuela					
Carbonate	640	510	...	413	...
China					
Oxides	----	35	86	----	300
Carbonate	0	----	68	1 397	2 956
Hong Kong					
Oxides	...	...	...	123	302
India					
Oxides (a)	438	678	672	1 230	...
Carbonate (a)	122	202	192	262	...
Indonesia					
Oxides	13	222	82	90	63
Japan					
Oxides	1 133	1 183	1 538	1 360	1 343
Carbonate	4 466	4 598	5 584	5 927	4 768
Korea, Republic of					
Oxides	331	276	376	288	249
Carbonate	805	1 044	1 232	1 031	713
Taiwan					
Carbonate	106	119	129	127	437
Thailand					
Oxides	133	162	167	165	...
Australia					
Oxides	205	181	213	245	230
Carbonate	154	138	104	164	162

Note(s) :-

(a) Years ended 31 March following that stated

Production of Magnesite

Country	1994	1995	1996	1997	1998
Austria	681 335	783 479	710 620	790 297	722 876
Bosnia & Herzegovina	*2 000	*2 000	*2 000	...	...
Greece	575 472	565 720	682 346	623 030	698 049
Poland	16 400	21 523	19 257	6 403	5 745
Russia	3 300 000	3 687 000	3 181 000	2 700 000	2 200 000
Slovakia	616 900	814 000	824 800	863 600	877 840
Spain	424 085	607 048	591 745	*500 000	*500 000
Turkey	1 365 527	1 928 064	2 341 922	2 063 975	2 703 720
Yugoslavia, Federal Republic of	67 635	75 000	88 696	98 384	80 923
Egypt (a)	282	11 258	12 627	7 536	2 806
South Africa	71 726	84 639	71 358	76 699	*80 000
Zimbabwe	1 588	5 597	10 659	13 050	4 321
Canada (b)	*165 000	*165 000	*165 000	*165 000	*165 000
Brazil (c)	293 678	334 000	326 538	294 629	308 300
Colombia	10 747	*10 500	12 634	*10 500	*10 500
China	*8 000 000	*8 000 000	*8 000 000	*8 000 000	*8 500 000
India (d)	334 487	345 077	377 510	373 520	350 755
Iran (e)	46 782	78 654	110 554	*120 000	*135 000
Korea, Dem. P.R. of	*1 600 000	*1 600 000	*1 600 000	*1 600 000	*800 000
Pakistan (a)	6 005	4 733	13 876	4 057	3 157
Philippines	*700	*700	*700	*700	*700
Australia	288 501	262 932	237 707	245 192	360 113
World Total	17 900 000	19 400 000	19 400 000	18 600 000	18 500 000

Note(s):

(1) In addition to the countries listed, Bulgaria, Kenya, New Caledonia and USA are believed to produce magnesite

- (a) Years ended 30 June of that stated
- (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

Exports of Magnesite and Magnesias

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Magnesite	287	*300	100	89	80
Magnesia	101 319	105 596	94 754	132 283	95 145
Belgium-Luxembourg					
Magnesite	585	472	486	212	384
Magnesia	40 361	40 026	41 797	64 508	82 040
Czech Republic (a)	*3 200	*2 000	*4 000	*2 400	*3 400
Denmark	208	442	447	1 058	1 427
France					
Magnesia	16 991	14 964	22 316	20 926	16 809
Germany					
Magnesite	2 172	2 049	3 391	1 211	602
Magnesia	58 996	73 859	69 347	70 206	71 504
Greece					
Magnesite	18 718	19 241	21 023	13 728	16 205
Magnesia	177 422	186 731	158 423	168 398	149 459
Irish Republic	26 011	722	584	3 696	554
Italy					
Magnesite	3 442	3 757	4 836	12 653	7 393
Magnesia	58 661	87 003	71 531	37 841	54 927
Netherlands					
Magnesite	744	4 779	10 980	10 413	476
Magnesia	51 801	79 542	80 215	319 723	95 637
Norway	3 380	4 276	3 504	3 500	...
Russia	278 000	322 408	267 275	299 395	204 662
Slovakia	158 300	250 200	249 100	236 700	310 400
Spain					
Magnesite	2 705	36 600	1 385	1 400	397
Magnesia	110 793	133 644	132 013	136 560	139 567
Sweden	257	4 190	332	159	370
Turkey					
Magnesite	53 460	75 748	37 206	27 115	39 135
Magnesia	138 838	144 083	124 944	165 794	173 115
United Kingdom					
Magnesite	119	311	340	175	176
Magnesia	42 923	63 083	64 564	58 774	45 007
Yugoslavia, Federal Republic of					
Magnesia	*5 000	*7 000	9 600	6 428	4 338
South Africa	(a) *300	140	411	280	...
Zimbabwe	605	7 816	6 389	501	2 189
Canada					
Magnesia	56 714	61 586	54 250	54 167	57 102
Mexico					
Magnesia	53 655	49 683	39 422	47 607	30 872
USA					
Magnesite	9 259	31 901	33 192	51 797	54 398
Magnesia	78 831	96 769	111 038	102 628	94 948
Brazil					
Magnesia	93 041	141 515	93 781	92 062	87 714
China					
Magnesite	123 042	124 173	206 576	166 536	108 535
Magnesia	1 935 301	2 185 767	1 724 195	2 122 125	1 945 208
Hong Kong (c)	10 212	15 444	13 076	8 495	9 284
India					
Magnesite (b)	460	201	830	80	...
Magnesia (b)	2 342	665	1 397	535	...
Israel					
Magnesia	26 594	*11 000	(a) *14 300	...	...
Japan					
Magnesite	397	358	393	418	285
Magnesia	60 069	64 366	59 725	55 350	37 054
Korea, Dem. P.R. of (a)	*90 300	*106 000	*94 500	*86 100	*31 500

tonnes

Exports of Magnesite and Magnesias

Country	1994	1995	1996	1997	1998
Singapore	2 516	873	655	987	1 259
of which, re-exports	271	219	130	183	104
Taiwan					
Magnesia	1 270	2 215	2 600	2 553	327
Australia					
Magnesite	266	665	155	604	811
Magnesia	74 609	94 911	73 540	89 737	139 568

Note(s):

(1) The term 'magnesias', as used here, includes dead-burned, sintered and caustic-burned (caustic calcined) material

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

(b) Years ended 31 March following that stated

(c) Re-exports

Imports of Magnesite and Magnesias

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Magnesite	686	199 100	132 700	176 566	136 780
Magnesia	174 538	41 300	29 900	49 691	53 684
Belgium-Luxembourg					
Magnesite	6 368	1 557	1 111	1 274	1 585
Magnesia	84 886	68 293	74 701	68 013	82 172
Bulgaria	...	9 332	11 313	8 753	...
Croatia	*1 000	802	688	677	836
Czech Republic					
Magnesite	8 500	7 500	2 300	972	885
Magnesia	47 700	48 500	40 200	41 237	40 207
Denmark					
Magnesite	5 807	4 101	1 074	1 143	1 077
Magnesia	11 022	7 842	4 809	7 045	5 178
Finland					
Magnesite	4 255	71	12	18	9
Magnesia	4 966	3 973	12 653	8 032	12 834
France					
Magnesite	3 121	2 671	4 080	7 544	9 615
Magnesia	193 556	217 764	192 423	186 512	199 802
Germany					
Magnesite	10 434	16 838	26 105	10 547	8 371
Magnesia	519 967	568 632	523 866	496 025	471 106
Greece					
Magnesite	32 473	18 529	11 032	1 508	9 851
Magnesia	1 284	273	1 420	381	541
Hungary	19 300	18 600	20 200	12 849	12 163
Irish Republic					
Magnesite	226	240	337	232	252
Magnesia	37 335	44 762	47 152	42 419	45 694
Italy					
Magnesite	23 128	28 933	27 136	21 130	31 542
Magnesia	105 643	121 808	103 752	121 772	111 329
Lithuania					
Magnesite	----	----	1 300	1 393	1 182
Macedonia					
Magnesia (b)	*7 300	*1 600	...	...	...
Netherlands					
Magnesite	2 732	2 890	5 136	1 823	2 890
Magnesia	61 452	67 811	129 955	67 510	210 890
Norway					
Magnesite	678	1 700	243	187	5 302
Magnesia	6 710	3 815	4 833	5 833	386
Poland					
Magnesia	89 700	103 200	95 100	110 100	...
Portugal					
Magnesite	1 500	1 800	1 590	2 530	1 762
Magnesia	3 000	3 500	2 850	2 699	2 597
Romania	20 069	29 264	37 842	28 322	27 905
Russia	(b) *48 300	15 300	20 422	76 993	32 524
Slovakia	22 000	15 600	20 500	24 300	18 600
Spain					
Magnesite	960	1 974	3 098	7 683	5 548
Magnesia	203 489	96 302	82 845	89 628	103 699
Sweden					
Magnesite	18 907	394	145	52	52
Magnesia	20 242	36 013	32 622	24 478	37 095
Switzerland					
Magnesite	682	346	619	289	1 114
Magnesia	4 922	4 762	3 606	4 001	3 867
Turkey					
Magnesia	11 965	21 984	15 654	19 627	15 164
Ukraine	...	...	343 745	509 873	357 850
United Kingdom					
Magnesite	38 364	21 849	17 600	11 190	12 211
Magnesia	146 001	155 566	155 458	153 388	146 873

Imports of Magnesite and Magnesia

Country	1994	1995	1996	1997	1998
Yugoslavia, Federal Republic of					
Magnesite	*3 000	*4 000	6 500	5 468	5 617
Magnesia	*1 000	*1 000	5 300	2 400	...
Egypt	45 800	29 700	27 774	16 706	...
South Africa					
Magnesite	2 546	6 800	6 737	1 917	3 965
Magnesia	130 819	125 853	85 974	70 144	69 005
Canada					
Magnesite	80 202	158 313	220 375	190 355	120 294
Magnesia	95 180	102 553	130 375	84 378	103 898
Mexico					
Magnesite	1 547	712	1 177	1 113	1 023
Magnesia	30 917	33 600	50 613	40 631	38 693
USA					
Magnesite	326	13 605	9 185	10 863	4 645
Magnesia	474 976	543 971	397 203	446 748	568 382
Argentina					
Magnesia	27 606	25 141	21 015	23 286	22 385
Brazil					
Magnesia	16 550	7 048	12 766	...	...
Chile					
Magnesia	12 979	11 481	15 235	13 201	18 688
Colombia	10 701	6 675	7 032	10 024	11 960
Peru					
Magnesia	4 522	4 633	4 181	2 148	...
Venezuela					
Magnesite	28 445	26 617	18 525	20 537	...
Magnesia	30 524	30 284	26 717	44 289	...
China	3 341	3 825	7 863	5 983	7 420
Hong Kong	21 747	9 807	7 092	3 329	3 296
India					
Magnesite (c)	6 199	2 876	2 070	2 284	...
Magnesia (c)	189 786	115 097	64 883	54 906	...
Indonesia					
Magnesite	3 642	312	567	313	217
Magnesia	33 354	52 491	34 138	30 012	27 163
Israel	*2 200	*2 200	*1 900	*3 000	...
Japan					
Magnesite	12 400	14 469	6 129	2 738	1 828
Magnesia	532 354	593 617	506 740	577 942	499 443
Korea, Republic of					
Magnesite	312	1 900	466	5 088	1 240
Magnesia	147 354	174 478	182 780	186 167	175 726
Malaysia					
Magnesite	12 279	12 300	12 000	*12 000	...
Philippines					
Magnesite	5 733	10 721	6 033	4 936	...
Magnesia	8 400	4 288	8 583	12 119	...
Singapore	14 442	13 068	12 006	13 649	9 286
Taiwan					
Magnesite	363	681	6 584	703	2 209
Magnesia	96 048	158 116	146 904	194 721	195 145
Thailand					
Magnesite	21 763	32 140	24 156	26 923	...
Magnesia	5 843	6 601	5 175	4 993	...

Imports of Magnesite and Magnesite

tonnes

Country	1994	1995	1996	1997	1998
Australia					
Magnesite	4 565	2 576	1 151	776	2 428
Magnesia	3 943	3 867	8 503	8 755	4 469
New Zealand					
Magnesite (a)	1 049	1 265	...	2 089	3 062
Magnesia (a)	26 244	28 168	...	25 928	20 767

Note(s) :-

(1) The term 'magnesite', as used here, includes dead-burned, sintered and caustic-burned (caustic calcined) material

(a) Years ended 30 June of that stated

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

(c) Years ended 31 March following that stated

Production of Manganese Ore

Country	1994	1995	1996	1997	1998
Austria (a)	31 288	42 463	26 000	*25 000	...
Bosnia & Herzegovina	*2 000	*2 000	*2 000	...	...
Bulgaria	*11 500	19 000	44 270	47 430	55 600
Georgia (b)	29 300	41 900	101 900	14 200	...
Greece	1 960	2 130	2 572	2 542	1 898
Hungary	67 230	56 360	65 016	57 000	*57 000
Italy	7 472	6 448	6 523	2 128	...
Romania	137 000	130 000	*150 000	...	...
Turkey	34 500	37 000	37 500	31 160	53 283
Ukraine	7 800 000	7 473 800	7 442 800	7 431 900	5 716 900
Gabon	1 435 000	1 930 000	1 983 000	1 904 000	2 092 000
Ghana	269 200	205 200	447 900	333 400	384 173
Morocco	31 452	31 263	29 466	30 806	28 332
Namibia	30 000	100 000	92 647	39 671	----
South Africa					
Metallurgical	2 825 082	3 150 688	3 240 069	3 087 775	3 012 827
Chemical	50 216	47 881	(c) ...	32 886	31 294
Mexico	240 200	370 200	456 300	507 400	492 400
Brazil (d)	2 440 991	2 613 477	2 735 746	*2 300 000	*2 000 000
Chile	62 870	70 449	62 887	63 673	48 931
China	5 787 000	8 010 700	7 663 300	5 975 600	5 283 000
India (e) (f)	1 680 975	1 836 705	1 870 783	1 641 963	1 525 805
Indonesia	*14 000	*19 000	*19 000	*20 000	...
Iran (g)	96 115	99 332	82 694	*135 000	*190 000
Kazakhstan	452 000	492 000	472 900	426 100	561 000
Malaysia	----	27 000	13 000	...	...
Thailand	6 452	3 478	3 095	499	52
Australia	1 985 000	2 177 000	2 109 000	2 136 000	1 500 000
World Total	25 500 000	29 000 000	29 200 000	26 400 000	23 300 000

Note(s):

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

(a) Mn content of domestic iron ore

(b) Marketable

(c) Included with metallurgical grade ore

(d) Including beneficiated and direct shipping ore

(e) Including ore grading 54% to less than 35% Mn

(f) Years ended 31 March following that stated

(g) Years ended 20 March following that stated

Exports of Manganese

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	8	37	752	311	58
Belgium-Luxembourg					
Ore	8 304	14 298	20 196	20 899	16 648
Metal	2 372	2 075	2 217	2 489	2 247
Bulgaria					
Ore	...	35 306	39 508	29 034	...
France					
Ore (a)	138 497	133 661	160 742	107 499	116 556
Metal	1 773	1 159	777	811	610
Germany					
Ore (a)	12 587	202	430	738	162
Metal	5 666	8 488	6 798	8 859	8 243
Italy					
Ore	3 592	211	3 109	4 043	1 627
Metal	63	56	506	166	103
Netherlands					
Ore	28 901	14 455	19 065	14 660	14 075
Metal	7 842	8 906	5 543	3 560	5 160
Norway					
Metal	653	949	116	68	35
Russia					
Metal (e)	*1 400	*600	*1 600	*1 700	*5 200
Spain					
Ore	161	1 220	2 854	1 459	1 414
Metal	31	339	1 563	2 347	2 334
Sweden					
Metal	304	237	...	145	115
Ukraine					
Ore	(e) *122 700	183 956	201 621	232 767	284 237
Metal (e)	*3 400	*6 800	*5 800	*4 900	*26 200
United Kingdom					
Metal	*2 300	*2 500	*2 400	*3 400	*4 900
Gabon					
Ore	1 690 000	1 852 000	1 977 000	1 789 900	...
Ghana					
Ore	245 256	193 096	266 440	...	...
Morocco					
Ore	30 433	27 916	28 770	31 063	...
Namibia					
Ore	----	83 913	92 647	34 400	----
South Africa					
Ore	1 290 870	1 589 226	1 648 053	1 772 801	1 679 975
Metal	(e) *18 700	(e) *34 900	(e) *23 300	36 234	35 362
Canada					
Metal	165	344	274	260	484
Mexico					
Ore	31 580	144 361	57 629	89 307	48 713
USA					
Ore	13 862	17 808	32 324	84 294	8 406
Metal	5 024	5 805	5 843	8 005	5 837
Brazil					
Ore	906 503	1 245 054	987 877	981 810	1 089 946
China					
Ore	3 801	3 292	4 191	579	1 616
Metal	54 461	57 293	49 934	63 471	73 214
Hong Kong					
Metal (c)	967	339	279	121	38
India					
Ore (b) (d)	276 598	236 529	309 846	259 194	...
Indonesia					
Ore (a)	0	----	13 043	8 500	10 000
Japan					
Metal	148	176	532	485	391

Exports of Manganese

Country	1994	1995	1996	1997	1998
Singapore					
Ore	13 100	13 863	6 422	17 218	19 825
of which, re-exports	2 084	3 856	4 972	3 952	3 781
Australia					
Ore	*1 550 000	*1 704 000	*1 740 000	*1 541 000	*1 066 000
Metal	51	226	39 335	1 098	49

Note(s):

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

- (a) Including manganiferous iron ore
- (b) Including ferruginous manganese ore
- (c) Re-exports
- (d) Years ended 31 March following that stated
- (e) BGS estimates, based on known imports into certain countries

Imports of Manganese

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	841	1 395	1 706	1 882	2 143
Belgium-Luxembourg					
Ore	138 836	94 326	164 657	139 130	127 521
Metal	3 065	3 896	4 014	4 076	3 728
Bulgaria					
Ore	...	1 055	967	1 918	...
Croatia					
Metal	...	65	72	54	51
Czech Republic					
Ore	13 000	47 000	19 000	18 231	3 507
Metal	200	200	200	198	207
Denmark					
Ore	168	132	218	500	207
Metal	107	61	55	31	29
Finland					
Ore	19 603	15 873	9 424	24 339	22 184
Metal	146	157	98	140	1 375
France					
Ore (b)	946 617	1 274 390	1 111 060	998 570	1 204 454
Metal	6 764	6 712	5 897	6 352	8 251
Germany					
Ore (b)	10 926	11 355	12 717	26 234	23 108
Metal	16 764	24 898	18 666	18 324	42 939
Greece					
Ore	11 085	23 720	12 720	27 130	22 396
Metal	2 224	378	392	399	500
Hungary					
Metal	----	----	200	328	357
Irish Republic					
Ore (b)	31 206	25 443	39 259	47 339	37 408
Metal	5	19	25	16	64
Italy					
Ore (b)	202 210	327 145	201 200	166 266	283 914
Metal	3 202	3 941	3 445	2 665	2 791
Macedonia					
Ore	45 000	*45 000	*45 000	...	...
Netherlands					
Ore	17 729	29 708	25 792	18 057	24 485
Metal	9 115	10 693	9 232	6 128	8 270
Norway					
Ore	674 952	734 973	676 573	730 758	721 529
Metal	1 363	1 949	1 540	1 648	2 224
Poland					
Ore	267 556	166 359	200 200	155 600	...
Metal	215	359	408	319	...
Portugal					
Ore (c)	647	500	345	768	524
Metal	...	...	...	14	29
Romania					
Ore	126 370	189 671	197 862	98 943	46 763
Russia					
Ore	513 000	295 000	270 777	177 539	479 117
Metal	*300	*300	310	64	1 320
Slovakia					
Ore	195 929	80 197	120 870	113 852	148 434
Spain					
Ore	347 650	318 091	402 092	275 957	486 951
Metal	1 848	1 932	2 054	4 101	5 147
Sweden					
Ore	1 267	4 459	172	93	1 735
Metal	2 883	2 305	2 299	2 669	3 257
Switzerland					
Metal	466	539	633	627	483
Turkey					
Metal	97	289	175	106	78

Imports of Manganese

Country	1994	1995	1996	1997	1998
United Kingdom					
Ore (b)	8 037	91 991	40 306	71 233	28 300
Metal	5 730	6 365	7 477	7 225	8 963
Cameroon					
Ore	*900	1 500	1 900	*2 000	...
Egypt					
Ore	817	1 000	12 617	953	...
Kenya					
Ore (b)	1 651	2 709	414	1 660	2 236
South Africa					
Ore	6 780	5 900	5 180	14 797	4 023
Canada					
Ore (a)	6 285	9 603	6 736	3 974	24 967
Metal	5 889	4 932	4 853	5 087	5 580
Mexico					
Ore	47 555	76 727	62 773	109 022	78 176
USA					
Ore	330 527	394 048	461 525	356 903	345 645
Metal	20 339	11 048	11 750	15 062	16 026
Argentina					
Ore	67 352	77 225	63 615	74 093	64 419
Brazil					
Metal	2 864	3 008	2 658	...	2 247
Colombia					
Ore	10 161	1 683	12 492	13 134	18 036
Venezuela					
Ore	87 719	112 520	109 000	104 011	...
China					
Ore	962 215	1 289 870	1 585 287	1 316 784	1 179 052
Metal	63	337	278	532	122
Hong Kong					
Metal	1 004	514	399	319	254
India					
Ore (e)	3 607	3 689	2 760	5 065	...
Metal (e)	2 119	1 380	1 333	1 298	...
Indonesia					
Ore (b)	14 756	31 752	13 052	15 488	24 724
Metal	44	181	149	100	37
Israel					
Ore (d)	*1 400	*1 300	...	...	...
Japan					
Ore (b)	1 199 398	1 272 977	1 261 623	1 363 516	1 207 907
Metal	28 012	33 827	36 846	40 565	39 197
Korea, Dem. P.R. of					
Ore (d)	*700	*400	...	...	...
Korea, Republic of					
Ore	457 636	500 999	392 179	482 797	494 333
Metal	1 929	3 243	2 650	3 337	5 539
Malaysia					
Ore	861	900	700	...	...
Pakistan					
Ore	22 331	21 996	28 390	...	...
Philippines					
Ore (b)	5 029	4 617	15 362	13 559	...
Saudi Arabia					
Ore	24 139	25 955	48 586	8 459	93 219
Singapore					
Ore	53 823	50 676	37 861	38 600	-----
Metal	200	200	100	111	134
Taiwan					
Ore	52 734	72 570	62 305	65 971	57 714
Metal	591	548	440	590	886

Imports of Manganese

tonnes

Country	1994	1995	1996	1997	1998
Australia					
Ore	8	22	130	26	2 034
Metal	1 871	2 366	1 206	1 783	2 121

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

- (a) Mn content
- (b) Including manganiferous iron ore
- (c) Including ferruginous manganese ore
- (d) BGS estimates, based on known exports from certain countries
- (e) Years ended 31 March following that stated

Production of Mercury

Country	1994	1995	1996	1997	1998
Finland	83 065	90 245	88 120	63 000	54 000
Slovenia	500	4 000	-----	-----	-----
Spain	391 575	1 503 648	861 825	389 229	672 000
Ukraine	*50 000	*40 000	*30 000	-----	-----
Algeria	448 569	295 148	368 081	447 258	224 077
Mexico	11 000	*15 000	*15 000	*15 000	*15 000
USA	*15 000	*15 000	*15 000	*15 000	*15 000
Chile (a) (b)	70 000	9 000	5 000	4 000	5 000
China	467 000	779 000	508 000	835 000	225 000
Kyrgyzstan	379 000	380 000	584 000	611 000	629 000
Tajikistan	*55 000	*50 000	*45 000	*40 000	*35 000
World Total	2 000 000	3 200 000	2 500 000	2 400 000	1 900 000

Note(s):

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

(a) From copper solvent extraction and electrowinning processes

(b) Exports

Exports of Mercury

kilograms

Country	1994	1995	1996	1997	1998
Austria	1 400	800	1 000	8 400	67 100
Belgium-Luxembourg	9 400	13 000	34 000	10 400	22 300
Czech Republic	...	...	...	8 000	3 000
Denmark	200	4 700	100	4 414	399
Finland	171 000	141 000	85 000	138 780	115 238
France	19 800	11 000	114 000	15 900	34 000
Germany	133 500	116 300	99 500	95 600	136 400
Italy	29 400	29 000	58 000	43 773	12 011
Netherlands	69 000	256 000	250 000	580 000	199 700
Norway	2 000	...	...	52 647	32 008
Poland	...	8 000	4 000	...	...
Russia (a)	*163 900	*926 000	*345 900	*133 000	*70 000
Slovenia	...	...	6 289	673	16 097
Spain	531 000	677 000	549 000	594 295	312 578
Sweden	26 000	1 000	1 000	...	2 000
Switzerland	15 096	18 783	3 507	6 908	21 679
Ukraine	(a) *41 400	(a) *23 000	40	28 290	5 028
United Kingdom	246 069	224 168	109 770	16 628	34 529
Algeria	...	...	245 000	394 715	376 913
Canada	5 162	107 394	137 065	4 264	8 037
USA	354 702	178 905	64 097	133 794	63 155
Chile	70 077	9 075	4 761	4 244	5 382
China	47 690	32 889	16 579	15 749	88 442
Hong Kong (b)	1 012 158	1 577 054	389 353	710 230	352 114
Japan	18 576	1 638	44 606	6 213	4 924
Kyrgyzstan	(a) *105 900	261 000	628 000	700 000	600 000
Singapore (b)	3 471	2 467	1 147	1 752	3 872
Taiwan	36 858	18 231	9 599	36 381	1 728
Australia	9 263	760	1 453	848	14 946

Note(s):

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

(b) Re-exports

Imports of Mercury

Country	1994	1995	1996	1997	1998
Austria	2 400	3 000	1 100	9 900	900
Belgium-Luxembourg	74 600	37 000	52 000	70 000	72 600
Czech Republic	...	...	...	5 000	4 000
Denmark	5 100	1 900	1 100	1 405	856
Finland	...	...	...	4 730	9 070
France	53 400	96 000	65 000	23 100	36 000
Germany	73 400	133 500	90 000	77 700	41 400
Greece	3 000	3 000	4 000	5 000	4 000
Hungary	7 000	4 000	5 000	...	...
Irish Republic	30 800	5 300	1 600	122	429
Italy	6 400	52 000	19 000	29 194	11 268
Netherlands	381 000	465 000	1 041 000	495 000	424 300
Norway	3 000	7 000	3 000	304	585
Poland	...	12 000	4 000	16 000	...
Portugal	...	...	----	8 126	933
Romania	121 000	147 000	98 000	1 000	...
Russia	...	...	...	30 000	46 000
Slovakia	...	...	...	3 000	...
Spain	249 000	11 000	299 000	148 980	224 706
Sweden	5 000	5 000	26 000	38 000	15 000
Switzerland	8 366	19 810	13 185	28 231	11 333
Turkey	22 105	15 764	31 638	41 853	40 830
United Kingdom	5 140	4 950	4 046	44 387	7 754
Yugoslavia, Federal Republic	...	...	...	12 000	2 000
Egypt	...	...	28 000	1 000	...
South Africa	53 342	63 573	...	...	...
Canada	5 625	6 179	5 429	7 116	11 383
Mexico	37 430	9 852	7 726	8 207	19 800
USA	128 678	377 053	339 814	163 535	128 344
Argentina	116 000	52 000	15 000	14 000	13 000
Brazil	76 000	55 000	75 000	57 000	82 000
Chile	14 430	8 778	9 788	5 064	2 538
Colombia	44 000	52 000	88 000	25 000	97 000
Ecuador	14 000	8 000	18 000	5 000	10 000
Peru	73 000	31 000	26 000	42 000	...
Uruguay	3 500	3 200	1 000	----	----
Venezuela	1 707	8 607	924	3 000	...
Bangladesh (c)	...	...	9 594	300	...
China	909 156	799 940	29 061	481 285	523 664
Hong Kong	1 385 149	1 976 586	434 299	772 866	861 554
India (b)	292 295	428 473	253 738	267 797	...
Indonesia	8 056	12 811	5 151	26 771	16 281
Israel (a)	...	*3 000	...	...	...
Japan	6 257	13 847	8 639	13 812	6 911
Korea, Republic of	34 368	26 000	39 996	36 808	17 804
Malaysia	8 140	...	...	...	...
Pakistan (c)	34 206	...	55 210	68 156	60 516
Philippines	157 354	203 503	118 107	5 004	...
Singapore	104 546	45 426	62 458	93 142	64 938
Sri Lanka	5 037	183	1 435	22 148	...
Taiwan	15 625	6 002	9 384	9 528	7 173
Thailand	62 565	13 145	30 405	10 547	...
Australia	56 331	55 898	45 737	66 834	39 901

Note(s) :-

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

(b) Years ended 31 March following that stated

(c) Years ended 30 June of that stated

Production of Mica

tonnes

Country	1994	1995	1996	1997	1998
Finland	5 271	5 483	4 592	5 630	7 241
France (a)	*10 000	*10 000	*10 000	14 100	...
Norway	*4 400	*5 000	*3 600	*3 900	*4 100
Russia	*10 000	*10 000	*10 000	*10 000	*10 000
Spain (a)	10 462	12 623	10 747	12 397	...
Yugoslavia, Federal Republic of	-----	-----	16 596	420	247
Madagascar	356	432	317	1 138	1 119
South Africa	1 959	2 137	1 515	1 423	1 556
Zimbabwe	213	1 040	42	30	1 309
Canada	*25 000	*23 000	*23 000	*23 000	...
Mexico	5 753	5 028	4 273	975	890
USA (a) (b)	109 000	108 000	96 600	114 000	*81 000
Argentina	1 824	3 343	2 137	2 792	3 000
Brazil	*6 700	*5 200	*7 000	*4 000	2 163
China (c)	*33 000	*44 200	*42 200	*47 500	*40 200
India (d)	3 453	3 072	3 063	2 604	2 381
Iran (e)	1 360	3 894	5 444	...	...
Korea, Republic of (f)	37 470	43 709	35 923	34 489	38 441
Malaysia (g)	4 993	5 848	5 501	5 708	...
Sri Lanka	3 000	2 385	2 400	3 700	2 784
Taiwan	5 220	9 792	8 511	7 806	...
Australia	1 032	1 076	1 015	1 085	639
World Total	300 000	300 000	300 000	300 000	300 000

Note(s):

(1) In addition to the countries listed, Namibia, Pakistan and Romania are 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) Includes sericite

(g) Sericite

Exports of Mica

Country	1994	1995	1996	1997	1998
Austria	3 807	2 919	2 500	2 870	3 431
Belgium-Luxembourg	3 249	87	-----	-----	304
Finland	5 135	4 381	4 328	4 576	5 592
France	9 166	10 063	9 383	10 593	12 108
Germany	1 927	2 189	1 855	1 972	2 028
Italy	191	1 395	158	316	374
Netherlands	2 206	1 632	807	1 527	1 362
Norway	2 213	2 486	1 795	1 942	2 051
Russia	1 380	1 420	1 657	1 007	837
Spain	1 316	1 141	1 218	1 028	460
Sweden	730	443	112	113	983
Turkey	129	83	95	365	575
United Kingdom					
Unmanufactured	40	5	1 568	78	24
Ground	6 507	5 560	5 001	5 056	4 658
Waste	126	88	209	270	474
Madagascar	*350	*430	*450	603	212
South Africa	918	852	488	387	334
Zimbabwe	531	979	787	723	1 109
Canada	19 081	16 804	17 297	15 560	18 099
USA					
Unmanufactured	924	1 170	2 160	2 404	1 660
Ground	6 058	6 689	6 368	6 476	6 901
Brazil	4 162	1 683	1 522	...	498
China	32 753	44 196	42 222	47 542	40 178
Hong Kong (a)	569	1 070	583	116	92
India					
Block (b)	324	233	648	1 652	...
Splittings (b)	1 005	1 000	1 290	1 906	...
Condenser films (b)	21	65	3 365	23	...
Ground (b)	25 317	27 387	19 687	39 319	...
Waste (b)	2 816	4 686	3 604	4 253	...
Japan	785	829	910	915	626
Korea, Republic of	18	27	47	54	6 859
Malaysia	6 120	5 745	5 785	...	...
Singapore	466	1 472	1 400	501	517
of which, re-exports	448	1 439	1 372	471	305
Sri Lanka	1 468	1 760	2 569	3 051	...
Taiwan	132	261	914	636	2 079

Note(s):

(1) This table shows unmanufactured mica and includes sheet, block, splittings, ground and waste, unless these are separately specified.
Mica powder is included under the term 'ground'

(a) Re-exports

(b) Years ended 31 March following that stated

Imports of Mica

tonnes

Country	1994	1995	1996	1997	1998
Austria	293	356	282	597	604
Belgium-Luxembourg					
Ground	2 302	1 374	----	...	729
Czech Republic	...	...	...	540	657
Denmark	152	137	251	353	298
Finland	769	703	675	1 002	1 273
France					
Ground (c)	2 798	1 811	1 190	1 161	1 151
Waste	2 388	2 851	3 305	3 044	2 039
Germany					
Unmanufactured	3 243	1 289	904	868	878
Ground	13 606	22 387	23 447	22 661	26 492
Greece	172	226	110	129	61
Irish Republic	335	397	6 808	864	557
Italy					
Unmanufactured	97	(a) 11 117	...	290	230
Ground	2 051	...	2 201	2 259	2 220
Netherlands	2 092	1 943	4 284	3 199	3 476
Norway	2 447	2 248	2 553	3 399	2 998
Poland	655	665	741	594	...
Portugal	...	...	129	45	110
Russia	800	1 200	1 458	203	1 853
Spain	2 214	2 421	1 880	2 314	2 351
Sweden	1 022	910	723	862	963
Switzerland	364	447	286	307	476
Turkey	86	341	408	129	81
United Kingdom					
Unmanufactured	117	200	179	12	29
Ground	3 918	5 905	6 367	9 036	7 758
Waste	11 175	10 716	9 532	8 342	10 379
South Africa	994	759	611	...	...
Canada	3 095	3 750	4 188	4 058	4 861
Jamaica	208	233	224	213	202
Mexico	1 696	1 200	984	1 553	1 435
USA					
Block	78	129	102	47	73
Splittings	962	3 064	4 998	3 967	2 630
Ground	16 318	14 175	13 563	12 959	15 492
Other unmanufactured	6 442	7 616	4 979	10 380	7 637
Colombia	261	207	177	280	254
Venezuela	238	396	939	420	...
China	928	530	398	1 029	1 213
Hong Kong	633	109	2 164	131	51
Indonesia	882	730	1 446	1 367	773
Iran (d)	470	388	...	20	...
Japan					
Unmanufactured	11 570	7 296	5 882	6 529	7 581
Ground	23 771	32 708	39 097	40 481	32 436
Waste	1 546	3 903	4 819	2 695	3 572
Korea, Republic of	4 216	6 535	6 166	7 675	4 379
Malaysia	435	585	1 690	...	...
Philippines	253	168	310	236	...
Saudi Arabia	1 035	209	1 075	1 386	799
Singapore	1 542	1 402	1 574	1 684	933
Taiwan					
Unmanufactured	211	214	414	448	499
Ground	1 128	1 457	1 414	1 901	1 683
Thailand	819	894	1 053	1 089	...

Imports of Mica

Country	1994	1995	1996	1997	1998
Australia	2 087	2 128	1 766	1 483	1 879
New Zealand (b)	£252 000	£181 000	...	£209 000	£101 000

Note(s) :-

(1) This table shows unmanufactured mica and includes sheet, block, splittings, ground and waste, unless these are separately specified.

Mica powder is included under the term 'ground'

- (a) Including ground
- (b) Years ended 30 June of that stated
- (c) Including unmanufactured
- (d) Years ended 20 March following that stated

Mine Production of Molybdenum

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Armenia	*500	*500	*500	*1 800	*2 600
Bulgaria	*200	*400	*400	*400	*400
Russia	4 300	4 400	4 800	4 800	4 800
Canada	9 188	9 522	8 097	8 223	8 592
Mexico	2 613	3 883	4 211	4 842	5 949
USA	46 800	60 900	54 900	60 900	53 300
Chile	16 028	17 889	17 415	21 339	25 298
Peru	2 778	3 637	3 968	4 266	4 345
China	21 400	33 000	29 600	33 300	30 015
Iran (a)	2 636	1 430	2 112	...	...
Japan	651	689	596	698	632
Kazakhstan	218	156	44	81	100
Mongolia	*2 000	1 823	2 201	1 992	1 993
Uzbekistan	*500	*400	*500	*500	*500
World Total	110 000	139 000	129 000	145 000	141 000

Note(s):

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

(a) Years ended 20 March following that stated

Exports of Molybdenum

Country	1994	1995	1996	1997	1998
Austria					
Metal	1 398	1 571	1 651	1 747	1 684
Oxides	17	28	654	81	85
Belgium-Luxembourg					
Ores & concentrates	12 552	12 777	11 548	13 466	17 437
Metal	257	376	196	296	104
Oxides	123	48	52	150	216
France					
Ores & concentrates	0	19	49	873	118
Metal	162	244	83	61	65
Germany					
Ores & concentrates	149	108	365	111	36
Metal	1 346	1 497	1 042	1 368	1 070
Oxides	1 016	918	885	731	770
Italy					
Metal	29	194	32	65	197
Netherlands					
Ores & concentrates	7 919	7 460	4 347	5 662	6 106
Metal	294	407	299	408	249
Oxides	1 037	339	...	161	96
Russia					
Ores & concentrates	4 900	1 013	4 281	4 645	7 368
Metal	(b) *1 100	(b) *3 800	654	901	932
United Kingdom					
Ores & concentrates	1 230	2 234	2 003	3 717	2 401
Metal	666	528	247	143	248
Oxides	200	14	20	30	23
Canada					
Ores & concentrates (a)	8 858	8 998	8 512	11 235	10 748
Mexico					
Ores & concentrates	5 003	9 634	10 496	12 347	10 702
USA					
Ores & concentrates (a)	33 786	45 231	45 166	58 531	42 480
Metal	1 108	1 569	1 412	916	1 127
Oxides	2 342	2 949	1 830	1 262	1 149
Chile					
Ores & concentrates	29 922	33 347	29 302	36 266	43 323
Oxides	1 620	2 666	3 164	2 947	3 618
Peru					
Ores & concentrates	5 001	7 369	7 782	8 452	7 991
China					
Ores & concentrates	1 030	639	1 441	2 819	4 567
Metal	967	790	453	531	849
Oxides	14 099	15 167	13 933	21 983	17 147
Japan					
Metal	122	102	264	110	126
Oxides	24	83	114	92	106
Mongolia					
Ores & concentrates	5 530	3 438	5 081	4 109	3 818
Taiwan					
Metal	25	15	...	142	254
Oxides	2	56	...	130	86

Note(s):

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Mo content

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

Imports of Molybdenum

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Ores & concentrates	8 300	6 246	3 665	5 566	...
Metal	234	265	182	255	289
Oxides	2 512	2 886	2 681	2 378	2 761
Belgium-Luxembourg					
Ores & concentrates	30 380	28 674	19 412	22 075	22 613
Metal	170	490	141	207	208
Oxides	622	283	702	969	529
Czech Republic					
Metal	14	27	43	448	60
Finland					
Ores & concentrates	2 562	3 135	2 596	3 172	2 959
France					
Ores & concentrates	2 948	3 523	2 378	2 539	2 354
Metal	558	570	429	627	...
Oxides	512	378	148	96	57
Germany					
Ores & concentrates	10 413	13 573	9 167	8 437	12 976
Metal	1 473	1 270	1 492	1 465	1 922
Oxides	702	855	1 197	1 085	703
Hungary					
Metal	...	...	97	95	124
Italy					
Ores & concentrates	3 117	3 069	2 864	3 725	4 629
Metal	167	142	300	164	173
Oxides	27	...	...	248	94
Netherlands					
Ores & concentrates	15 442	*40 000	17 247	17 660	18 706
Metal	95	136	337	691	340
Oxides	271	622	...	1 004	814
Poland					
Metal	18	18	37	33	...
Portugal					
Metal	8	10	10	16	16
Russia					
Ores & concentrates	1 600	900	759	626	1 491
Metal	*20	*50	71	52	41
Spain					
Ores & concentrates	4 994	2 429	2 489	3 238	3 129
Metal	128	66	52	119	81
Sweden					
Ores & concentrates	4 106	6 178	5 504	7 451	6 271
Metal	774	459	121	1 168	186
Oxides	855	...	...	371	448
Switzerland					
Metal	27	29	52	28	37
Turkey					
Metal	5	8	67	7	10
United Kingdom					
Ores & concentrates	27 984	15 509	16 899	18 898	17 383
Metal	563	985	861	859	909
Oxides	264	309	237	89	112
South Africa					
Metal	4	11	4	16	11
Oxides	814	250	121	619	465
Canada					
Metal	68	105	94	80	92
Oxides	503	1 176	884	648	664
USA					
Ores & concentrates	3 829	8 965	8 105	10 513	10 736
Metal	1 070	826	1 011	1 040	662
Oxides	664	900	1 161	1 420	1 182

Imports of Molybdenum

Country	1994	1995	1996	1997	1998
Brazil					
Ores & concentrates	5 750	13 283	2 581	3 316	3 479
Metal	183	300	373	214	164
Oxides	109	...	...	156	44
Chile					
Ores & concentrates	15 063	17 593	12 253	11 794	11 252
China					
Ores & concentrates	2 891	5 395	7 689	6 992	10 843
Metal	66	171	221	624	410
Oxides	23	214	182	904	261
India					
Ores & concentrates (a)	3 022	2 845	2 264	2 866	...
Metal (a)	89	97	80	111	...
Japan					
Ores & concentrates	24 120	26 230	26 061	31 262	30 540
Metal	707	1 072	699	713	517
Oxides	1 041	1 732	1 342	1 698	1 816
Korea, Republic of					
Ores & concentrates	2 498	3 211	4 658	4 072	5 379
Metal	163	147	131	120	100
Malaysia					
Metal	606	...	...	...	...
Philippines					
Metal	15	3	24	11	...
Singapore					
Metal	12	13	57	8	18
Taiwan					
Metal	165	179	208	211	240
Oxides	55	365	...	188	249
Australia					
Ores & concentrates	494	368	522	596	434
Metal	39	57	159	82	69
Oxides	200	257	152	106	587

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Years ended 31 March following that stated

Mine Production of Nickel

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Finland	7 652	4 382	3 872	3 252	1 967
Greece	18 821	19 947	20 558	20 996	18 544
Macedonia	4 600	*2 000	*3 000	5 300	7 200
Norway	3 328	3 389	3 500	*3 000	*3 000
Russia	212 000	224 000	230 000	235 000	235 000
Ukraine	2 500	*2 200	1 700	-----	-----
Yugoslavia, Federal Republic of	-----	300	3 000	2 700	800
Botswana	19 041	18 088	22 095	20 157	22 851
South Africa (a)	30 135	29 803	33 861	34 830	36 679
Zimbabwe	13 800	11 700	11 600	11 000	10 400
Canada	149 886	181 820	192 649	190 529	208 201
Cuba	25 956	41 105	51 600	59 400	65 500
Dominican Republic	50 146	46 523	45 168	49 152	40 300
USA	-----	1 560	1 330	-----	-----
Brazil	32 663	29 124	25 245	31 936	36 764
Colombia	28 144	29 806	27 154	31 230	29 422
China	36 900	41 800	43 800	46 600	48 700
Indonesia	81 175	86 600	87 900	71 100	74 100
Kazakhstan	*1 000	*1 000	*1 000	*1 000	*1 000
Philippines	9 895	15 075	15 003	7 146	13 117
Australia	75 900	102 700	113 000	123 400	144 000
New Caledonia	97 261	119 905	122 486	136 459	125 319
World Total	901 000	1 013 000	1 060 000	1 084 000	1 123 000

Note(s):

(a) Refined nickel and nickel in matte

Smelter/Refinery Production of Nickel

Country	1994	1995	1996	1997	1998
Austria	2 100	2 000	2 000	2 000	1 800
Finland	16 902	16 025	29 141	35 285	43 379
France	10 041	10 305	11 171	10 702	11 778
Greece	16 182	17 155	17 801	17 610	15 004
Macedonia	4 100	*2 000	*3 000	5 300	5 800
Norway	67 955	53 237	61 582	62 700	70 150
Russia	190 700	201 900	190 500	234 200	227 000
Ukraine	*2 500	*2 200	*900	-----	-----
United Kingdom	28 386	35 157	38 561	36 091	39 050
Yugoslavia, Federal Republic of	663	962	2 556	2 440	466
South Africa	30 135	29 803	33 861	34 800	36 679
Zimbabwe	19 600	16 500	17 100	19 100	19 300
Canada	105 144	125 311	130 136	131 639	146 715
Cuba	14 099	21 648	27 024	33 992	38 661
Dominican Republic	30 757	30 897	30 388	32 556	25 209
USA	-----	8 290	15 100	15 996	*4 290
Brazil	16 610	15 676	16 432	18 199	21 083
Colombia	20 834	24 565	22 933	25 170	28 140
China	31 300	38 900	44 600	43 300	40 100
Indonesia	5 745	10 735	9 600	9 999	8 500
Japan	112 600	135 000	130 500	128 400	126 500
Australia	66 500	76 900	74 000	74 000	80 000
New Caledonia	39 488	42 200	42 174	44 312	44 491
World Total	830 000	920 000	950 000	1 020 000	1 030 000

Note(s):

(1) Data relate to refined nickel plus the nickel content of ferro-nickel and nickel oxide

Exports of Nickel

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Mattes, sinters etc.	6	228	1 395	77	109
Unwrought (a)	176	314	339	1 069	524
Scrap	448	381	166	398	219
Belgium-Luxembourg					
Unwrought	6 213	8 794	11 047	16 519	11 566
Unwrought alloys	1 162	1 682	1 530	1 796	1 920
Scrap	745	850	789	1 245	770
Czech Republic					
Unwrought (a)	200	1 800	500	1 776	125
Scrap	3 700	3 100	4 400	5 355	751
Denmark					
Scrap	233	219	338	367	912
Estonia					
Unwrought (a) (b)	*1 600	*400	*100	*400	*200
Scrap (b)	*2 000	*300	*300	*300	*200
Finland					
Ores & concentrates	36 017	49 186	36 675	53 974	11 480
Unwrought	12 532	12 847	21 474	23 650	26 409
Scrap	656	272	133	26	454
Oxides	599	827	884	1 163	1 399
France					
Unwrought	5 029	6 145	6 736	7 842	7 347
Unwrought alloys	76	119	735	907	707
Scrap	3 107	3 663	4 457	4 499	10 420
Germany					
Unwrought	8 098	13 330	7 184	8 545	17 087
Unwrought alloys	3 040	3 299	4 315	3 572	4 678
Scrap	12 996	9 823	7 203	9 236	6 674
Oxides	188	114	122	141	46
Irish Republic					
Scrap	398	428	515	512	662
Italy					
Unwrought (a)	1 097	438	4 650	2 217	2 985
Scrap	469	644	617	395	1 162
Latvia					
Scrap	127	1 562	1 222	1 828	2 651
Lithuania					
Scrap	(b) *400	690	580	241	51
Netherlands					
Mattes, sinters etc. (b)	*1 600	*2 900	*10 600	*7 300	*64 000
Unwrought (a)	2 835	3 903	5 287	37 258	23 450
Scrap	9 154	7 376	3 051	2 810	2 017
Oxides	(b) *300	(b) *500	(b) *200	1 437	1 384
Norway					
Ore	45 854	33 253	34 880	30 512	34 016
Unwrought (a)	67 187	52 644	61 030	62 295	70 153
Scrap	360	479	294	145	176
Russia					
Ore	200	81 457	84 552	64	----
Mattes, sinters etc. (b)	*26 700	...	*8 700	*9 800	*11 700
Unwrought (a)	114 215	152 829	167 202	221 857	214 200
Scrap (b)	*11 000	*10 400	*15 000	*16 900	*10 000
Oxides	(b) *500	4 462	610	544	845
Spain					
Scrap	1 181	589	302	512	143
Sweden					
Unwrought (a)	722	157	245	93	103
Scrap	962	503	248	198	166
Switzerland					
Unwrought (a)	249	227	128	120	50
Scrap	240	176	356	661	445
Ukraine					
Unwrought	(b) *9 100	...	----	----	2 315
Scrap	(b) *100	(b) *300	----	134	57

Exports of Nickel

Country	1994	1995	1996	1997	1998
United Kingdom					
Mattes, sinters etc.	1 472	392	218	146	58
Unwrought	15 298	20 277	22 761	18 887	20 504
Unwrought alloys	2 565	2 901	3 290	3 558	4 280
Scrap	5 816	4 960	4 361	4 367	5 369
Botswana					
Mattes, sinters etc.	44 000	39 000	54 024	18 567	...
South Africa					
Unwrought (d)	14 300	16 704	21 352	20 365	23 442
Scrap (b)	*1 500	*700	*2 600	*3 200	*2 900
Zimbabwe					
Unwrought	17 100	12 697	11 950	13 609	2 600
Canada					
Mattes, sinters etc.	71 778	78 706	96 242	86 696	107 817
Unwrought (a)	82 578	86 234	97 155	101 075	107 257
Scrap	2 257	3 294	2 595	4 159	2 322
Cuba					
Oxide, sinter & sulphide (e)	*29 200	*38 200	*55 500	*59 900	*68 800
USA					
Mattes, sinters etc.	4 762	4 568	5 479	3 104	1 690
Unwrought (a)	5 657	6 144	6 677	5 754	7 394
Scrap	24 302	28 447	21 790	25 056	25 952
Brazil					
Unwrought	4 716	4 378	5 582	5 907	7 933
China					
Unwrought (a)	5 544	1 480	309	4 748	15 051
Scrap	205	445	77	905	779
Oxides	225	277	146	830	251
Hong Kong					
Unwrought (a) (f)	6 557	5 576	5 605	5 177	5 682
Scrap	234	215	179	62	316
Indonesia					
Ore	1 497 861	1 733 154	1 791 190	1 899 153	2 214 986
Mattes, sinters etc.	61 766	54 824	45 373	41 164	34 881
Israel					
Scrap (b)	*400	*500	*1 700	*1 900	*1 400
Japan					
Mattes, sinters etc.	9 916	6 498	5 182	1 468	6 129
Unwrought (a)	134	475	897	1 385	393
Scrap	562	749	2 557	8 563	954
Oxides	613	2 097	1 025	3 026	3 312
Korea, Republic of					
Unwrought (a)	1 876	3 205	21	935	16
Scrap	1 340	1 573	1 054	1 813	1 568
Philippines					
Ores & concentrates	646 461	890 818	1 249 197	780 432	...
Singapore					
Unwrought (f)	2 898	3 770	4 327	7 250	5 901
Scrap	317	510	1 069	1 517	971
Taiwan					
Scrap	1 924	1 665	1 553	1 366	934

Exports of Nickel

Country	1994	1995	1996	1997	1998
Australia					
Ore	62 026	122 039	155 747	181 099	216 731
Mattes, sinters etc.	*57 000	*59 000	*55 000	*60 000	*61 000
Unwrought	13 498	40 677	44 469	43 292	53 007
Unwrought alloys	18 331	4 800	3 078	1 884	1 371
Scrap	87	703	273	185	104
New Caledonia					
Ores	*3 500 000	4 588 952	4 773 883	5 391 000	...
Mattes, sinters etc.	...	14 529	15 354	14 900	...
New Zealand					
Scrap (c)	260	143	6	...	----

Note(s):

- (1) In this table the term 'unwrought' nickel corresponds to item 683.1 of the Standard International trade Classification (Revision 3) which excludes all electro-plating anodes
 - (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys
- (a) Including alloys
 - (b) BGS estimates, based on known imports into certain countries
 - (c) Years ended 30 June of that stated
 - (d) Includes metal and metal content of sulphate
 - (e) Ni-Co content (mainly nickel)
 - (f) Re-exports

Imports of Nickel

Country	1994	1995	1996	1997	1998
Austria					
Mattes, sinters etc.	169	167	126	164	334
Unwrought (a)	2 822	3 337	3 419	3 503	3 618
Scrap	1 005	859	754	176	84
Oxides	496	19	18	49	24
Belgium-Luxembourg					
Ore	1 004	23	14	45	91
Mattes, sinters etc.	395	522	179	313	13
Unwrought	20 409	31 960	29 119	32 253	27 872
Unwrought alloys	43	120	121	1 721	2 054
Scrap	528	1 499	2 524	3 277	719
Oxides	148	193	187	145	234
Czech Republic					
Ores & concentrates	7 222	34	30	7	42
Unwrought (a)	1 100	2 100	1 300	934	1 475
Denmark					
Unwrought (a)	157	142	113	131	160
Finland					
Ore	111 084	134 831	200 610	163 962	247 276
Mattes, sinters etc.	2 937	4 088	9 843	7 314	21 701
Unwrought (a)	5 590	9 530	6 316	9 511	7 976
Scrap	8 514	7 017	821	247	289
Oxides	1 727	2 996	292	346	540
France					
Mattes, sinters etc.	16 440	17 255	16 365	16 744	16 697
Unwrought	27 257	30 558	26 480	32 807	39 221
Unwrought alloys	...	6 011	4 851	6 740	6 658
Scrap	2 247	3 083	1 507	1 379	2 199
Oxides	310	310	222	216	537
Germany					
Mattes, sinters etc.	9 057	5 096	9 317	8 629	11 560
Unwrought (a)	58 026	78 254	61 423	64 240	78 532
Scrap	16 982	12 911	10 474	11 723	7 486
Oxides	460	411	343	411	472
Irish Republic					
Unwrought (a)	991	1 137	1 141	1 129	1 487
Italy					
Mattes, sinters etc.	6 070	5 545	3 022	2	171
Unwrought	31 642	40 553	30 370	41 065	46 414
Unwrought alloys	1 273	920	1 718	940	1 112
Scrap	209	121	70	1 415	1 808
Oxides	139	...	...	82	90
Netherlands					
Mattes, sinters etc.	(e) *11 800	...	...	36 543	18 593
Unwrought	3 999	7 841	5 924	15 384	42 306
Unwrought alloys	132	215	92	63	211
Scrap	4 882	4 472	4 642	3 307	1 881
Oxides	1 213	1 211	...	825	570
Norway					
Mattes, sinters etc.	146 274	109 317	141 942	132 146	139 094
Unwrought (a)	275	151	204	79	168
Poland					
Unwrought	915	1 820	1 666	1 390	...
Portugal					
Unwrought (a)	258	200	281	290	356
Romania					
Unwrought	600	1 200	600	559	584
Russia					
Ore	...	...	516 139	628 682	129 544
Unwrought	...	...	305	1 246	2 096
Scrap	*5 000	5 066	3 271	2 903	3 158
Slovenia					
Unwrought (a)	1 053	1 600	1 942	4 375	3 916
Spain					
Mattes, sinters etc.	222	91	86	584	43
Unwrought (a)	19 035	20 785	10 796	21 567	18 222
Oxides	19	94	86	122	149

Imports of Nickel

tonnes

Country	1994	1995	1996	1997	1998
Sweden					
Mattes, sinters etc.	3 017	2 355	5 442	4 372	6 289
Unwrought	18 736	16 720	14 387	14 113	20 039
Unwrought alloys	733	1 441	749	661	1 546
Scrap	14 407	17 096	24 811	21 064	17 967
Switzerland					
Unwrought (a)	702	801	1 055	964	1 596
Scrap	190	223	403	401	234
Turkey					
Unwrought (a)	836	1 432	1 453	1 677	1 815
United Kingdom					
Mattes, sinters etc.	40 827	53 820	63 833	54 534	74 671
Unwrought	17 188	20 931	17 469	17 706	12 524
Unwrought alloys	4 805	3 796	1 248	3 424	4 137
Scrap	7 873	8 406	14 631	13 181	11 736
Oxides	104	375	149	155	99
South Africa					
Unwrought (a)	201	16 355	3 943	5 319	9 579
Canada					
Ores & concentrates (b)	896	2 474	2 118	7 423	1 138
Mattes, sinters etc.	34 476	49 437	56 741	49 902	42 549
Unwrought (a)	11 063	7 308	6 448	2 599	1 946
Scrap	20 950	21 919	16 051	16 572	16 641
Oxides	171	180	188	957	2 774
Mexico					
Unwrought (a)	1 520	1 098	1 533	2 102	2 277
USA					
Ores & concentrates (b)	101	9 150	21 505	43 029	3 112
Slurry, mattes, sinters etc.	3 469	725	693	2 480	2 762
Unwrought (a)	99 081	121 439	116 028	122 832	125 517
Scrap	5 752	9 478	8 545	12 397	8 430
Oxides	1 052	1 164	1 318	1 532	2 176
Argentina					
Unwrought	361	316	281	532	529
Brazil					
Unwrought (a)	5 809	7 639	8 002	7 105	6 197
Colombia					
Unwrought	439	545	185	175	148
Venezuela					
Unwrought (a)	164	131	110	153	...
China					
Ore	312	98	237	2 662	1 813
Mattes, sinters etc.	208	18	489	40	560
Unwrought (a)	98	570	916	1 117	4 983
Scrap	166	413	43	36	70
Oxides	458	647	1 701	2 272	1 642
Hong Kong					
Mattes, sinters etc.	40 050	-----	-----	7 342	157 378
Unwrought (a)	9 648	11 427	10 937	8 977	13 122
Oxides	...	...	...	1 321	1 424
India					
Mattes, sinters etc. (c)	2 075	1 982	1 417	2 015	...
Unwrought (a) (c)	10 251	11 855	9 123	11 814	...
Scrap (c)	139	259	1 049	1 845	...
Japan					
Ore	2 901 560	3 821 354	4 061 516	4 362 374	4 086 149
Mattes, sinters etc.	84 498	90 993	83 632	76 715	80 563
Unwrought	47 560	61 698	46 501	57 096	39 003
Unwrought alloys	266	889	500	747	1 050
Scrap	6 305	6 444	7 711	12 836	10 273
Oxides	126	172	80	221	129
Korea, Dem. P.R. of					
Unwrought (a) (e)	*100	*50	...	...	...

Imports of Nickel

Country	1994	1995	1996	1997	1998
Korea, Republic of					
Mattes, sinters etc.	20 305	18 760	14 818	20 772	24 281
Unwrought (a)	12 750	19 104	14 667	19 069	21 374
Scrap	1 690	2 065	2 786	12 509	61
Oxides	155	247	317	256	207
Malaysia					
Unwrought (a)	357	400	300	*300	...
Pakistan					
Unwrought (a) (d)	...	...	477	373	555
Philippines					
Scrap	1	...	43 503	89 512	...
Singapore					
Mattes, sinters etc.	841	845	344	13	2
Unwrought	3 182	5 389	4 351	9 026	6 775
Scrap	302	544	389	329	605
Oxides	...	...	...	493	449
Taiwan					
Mattes, sinters etc.	2 763	7 352	7 679	4 797	10 928
Unwrought (a)	20 737	39 747	33 358	41 888	38 803
Scrap	135	448	286	232	155
Oxides	693	1 938	837	1 265	1 156
Thailand					
Unwrought (a)	1 175	1 717	1 664	1 325	...
Australia					
Unwrought (a)	822	699	809	1 290	1 545
Scrap	303	541	1 023	256	----

Note(s) :-

- (1) In this table the term 'unwrought' nickel corresponds to item 683.1 of the Standard International trade Classification (Revision 3) which excludes all electro-plating anodes
 - (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys
- (a) Including alloys
 - (b) Ni content
 - (c) Years ended 31 March following that stated
 - (d) Years ended 30 June of that stated
 - (e) BGS estimates, based on known exports from certain countries

Production of Crude Petroleum

tonnes

Country	1994	1995	1996	1997	1998
Albania	535 345	520 866	488 214	359 666	309 000
Austria	1 099 994	1 034 868	992 398	972 340	959 285
Azerbaijan	9 600 000	9 161 300	9 100 300	9 100 000	11 400 000
Belarus	2 000 200	1 932 100	1 860 300	1 822 000	1 830 000
Bulgaria	36 000	43 000	32 000	27 750	31 700
Croatia	1 576 579	1 500 269	1 469 052	1 496 223	1 085 776
Czech Republic	131 000	149 000	155 000	159 000	172 000
Denmark	9 129 000	9 181 000	10 286 000	11 375 000	11 752 000
France	2 768 794	2 486 039	2 107 486	1 779 728	1 708 883
Georgia	66 900	42 700	127 900	133 800	100 000
Germany	2 936 380	2 958 760	2 848 341	2 820 783	2 895 446
Greece	543 584	457 602	520 818	471 000	...
Hungary	1 631 000	1 669 000	1 476 801	1 360 327	1 257 830
Italy	4 927 898	5 207 980	5 368 971	5 892 055	5 900 000
Lithuania	82 000	127 000	180 000	160 000	160 000
Netherlands	3 437 432	2 721 492	2 221 028	2 068 906	1 714 000
Norway	129 239 000	139 358 000	155 588 000	156 929 000	150 006 000
Poland	284 300	292 500	317 304	289 139	357 090
Romania	6 737 000	6 717 000	6 626 000	6 517 000	*6 300 000
Russia	317 580 000	307 000 000	300 400 000	306 000 000	303 000 000
Slovakia	67 210	74 247	68 000	63 136	61 000
Slovenia	1 716	1 858	*1 400	*1 100	*900
Spain	808 267	651 954	513 451	379 563	535 000
Turkey	4 038 000	3 500 495	3 499 635	3 454 021	3 226 873
Ukraine	3 942 000	4 089 900	4 097 800	4 128 100	3 899 900
United Kingdom	119 032 000	121 794 000	121 930 000	120 321 000	124 222 000
Yugoslavia, Federal Republic of	1 078 000	1 066 227	1 030 441	979 081	913 029
Algeria	51 530 000	51 852 000	54 401 000	54 373 600	54 923 000
Angola	27 400 000	31 200 000	35 400 000	36 500 000	37 500 000
Benin	192 000	124 000	*200 000	*150 000	*150 000
Cameroon	6 343 000	5 400 000	5 600 000	6 300 000	5 300 000
Congo	9 032 000	9 264 000	10 400 000	12 500 000	12 200 000
Congo, Democratic Republic	1 241 000	1 516 000	1 500 000	1 400 000	1 300 000
Egypt (a)	45 186 000	44 000 000	44 119 000	41 800 000	40 700 000
Equatorial Guinea	270 000	345 000	1 000 000	2 000 000	3 750 000
Eritrea	...	632 220	685 234	...	...
Gabon	14 982 000	15 876 000	18 300 000	18 600 000	17 800 000
Ivory Coast	...	489 000	1 400 000	*1 500 000	*500 000
Libya	67 874 000	68 620 000	69 600 000	70 800 000	69 200 000
Nigeria	99 972 600	101 671 000	105 400 000	113 400 000	106 200 000
South Africa	...	...	----	*600 000	*1 400 000
Tunisia	4 378 000	4 251 000	4 191 000	4 300 000	3 895 300
Barbados	63 190	62 750	49 810	44 991	*45 000
Canada	92 781 400	96 135 300	98 290 500	103 172 000	107 213 900
Cuba	1 209 000	1 285 000	1 650 000	1 650 000	1 680 000
Guatemala	367 100	474 700	733 000	1 100 000	1 300 000
Mexico	144 139 000	140 727 000	153 083 000	161 251 000	163 630 000
Trinidad & Tobago	6 750 000	6 732 200	6 658 800	6 379 200	6 337 500
USA	331 601 000	326 524 000	321 795 000	321 148 000	311 193 000
Argentina	35 363 766	38 171 053	41 575 471	44 174 851	44 834 345
Bolivia	1 190 390	1 312 945	1 355 452	1 392 133	1 602 357
Brazil	35 839 524	37 046 259	41 851 471	44 545 677	51 620 023
Chile	651 409	552 019	485 950	446 117	427 553
Colombia	23 405 400	30 155 238	32 286 570	33 622 738	38 885 956
Ecuador	19 262 390	19 689 627	19 594 002	*19 700 000	*19 100 000
Peru	6 273 505	6 000 172	5 928 066	5 826 583	5 696 200
Suriname	365 731	352 000	385 000	470 000	*500 000
Venezuela	137 000 000	150 000 000	160 000 000	170 000 000	*170 000 000

tonnes

Production of Crude Petroleum

Country	1994	1995	1996	1997	1998
Abu Dhabi	88 100 000	87 200 000	90 000 000	88 400 000	*89 500 000
Bahrain	2 008 000	1 975 000	1 930 000	1 934 000	1 879 000
Brunei	8 500 000	8 180 000	8 300 000	8 100 000	7 800 000
China (b)	146 082 000	150 049 400	157 333 900	160 741 400	162 603 300
Dubai	15 143 000	13 928 000	13 133 000	12 153 000	*11 500 000
India (c)	32 239 000	34 517 000	32 900 000	33 772 000	32 893 000
Indonesia	73 297 000	72 778 000	72 997 000	72 368 000	71 326 000
Iran	180 891 000	180 911 000	183 800 000	184 000 000	187 700 000
Iraq	27 752 000	31 833 000	29 900 000	58 100 000	105 300 000
Israel	4 105	6 568	8 459	13 564	5 630
Japan	789 000	786 000	764 000	768 000	722 000
Kazakhstan	20 300 000	20 500 000	23 000 000	25 800 000	25 900 000
Kuwait (d)	104 100 000	105 300 000	105 600 000	105 300 000	107 600 000
Kyrgyzstan	88 200	88 500	84 000	84 800	78 300
Malaysia	31 700 000	34 000 000	34 400 000	34 200 000	34 500 000
Mongolia	-----	-----	-----	-----	6 000
Myanmar	732 000	620 000	551 000	635 000	*1 177 000
Oman	40 521 000	42 400 000	44 100 000	45 100 000	44 788 000
Pakistan (a)	2 777 622	2 664 056	2 825 730	2 853 565	2 739 100
Philippines	246 000	170 000	160 000	*150 000	*250 000
Qatar	20 800 000	21 300 000	26 400 000	33 600 000	36 900 000
Saudi Arabia (d)	408 000 000	406 200 000	406 200 000	415 900 000	405 200 000
Sharjah & Ras al Khaimah	244 000	228 300	236 100	223 500	...
Syria	29 200 000	31 589 000	30 600 000	30 000 000	29 300 000
Taiwan	61 000	59 000	53 000	53 000	-----
Tajikistan	30 000	30 000	30 000	30 000	30 000
Thailand	2 309 000	2 424 000	2 813 000	3 231 000	3 396 000
Turkmenistan	4 400 000	4 500 000	4 300 000	4 500 000	5 500 000
Uzbekistan	5 500 000	7 600 000	7 600 000	7 900 000	8 020 000
Vietnam	7 002 000	7 700 000	8 803 000	10 909 000	12 500 000
Yemen, Republic of	16 981 000	16 358 000	16 556 000	17 338 000	18 300 000
Australia	28 505 191	27 031 036	28 406 671	30 000 000	28 000 000
New Zealand	1 772 000	1 474 600	1 950 100	2 586 800	2 054 300
Papua New Guinea	5 522 000	4 679 000	5 000 000	3 600 000	3 700 000
World Total	3 095 000 000	3 133 000 000	3 212 000 000	3 313 000 000	3 355 000 000

Note(s):

(1) The figures shown in this table exclude natural gasoline

(a) Years ended 30 June of that stated

(b) Including oil from shale and coal

(c) Years ended 31 March following that stated

(d) Including shares of production from the Neutral Zone

Production of Natural Gas

million m³

Country	1994	1995	1996	1997	1998
Albania	52	28	23	18	16
Austria	1 355	1 482	1 492	1 428	1 568
Azerbaijan	6 380	6 644	6 305	5 960	5 590
Belarus	294	266	249	246	252
Bulgaria	8	23	19	13	*10
Croatia	1 792	1 966	1 786	1 717	1 570
Czech Republic	154	165	146	118	137
Denmark	4 828	5 161	6 254	7 694	7 348
France	3 540	3 356	2 901	2 586	2 183
Germany	19 378	20 270	21 921	21 303	*20 500
Greece	120	35	38	38	33
Hungary	5 462	5 365	5 134	4 689	4 345
Irish Republic	2 710	2 830	2 740	2 400	1 790
Italy	20 341	20 383	20 048	19 123	*19 200
Netherlands	79 376	80 164	90 630	80 282	76 331
Norway	30 927	31 449	41 971	46 726	48 146
Poland	4 635	4 803	4 754	4 836	4 852
Romania	19 598	19 016	18 162	15 916	14 600
Russia	606 800	594 900	575 000	544 000	564 000
Slovakia	288	349	307	284	260
Slovenia	12 595	18 220	12 840	12 100	*12 500
Spain	188	422	467	174	112
Turkey	200	182	204	251	562
Ukraine	18 316	18 161	18 408	18 131	17 967
United Kingdom	69 584	75 480	89 949	91 558	95 614
Yugoslavia, Federal Republic of	824	906	671	688	731
Algeria	111 392	114 727	122 642	97 458	96 873
Angola	560	521	560	570	580
Egypt	11 990	12 430	13 400	13 500	13 860
Gabon	90	100	100	100	100
Libya	6 220	6 200	6 200	6 400	6 200
Nigeria	4 599	4 885	5 400	5 100	5 200
Tunisia	354	340	340	340	340
Canada	166 533	176 364	182 211	184 181	187 814
Mexico	25 850	26 610	29 300	30 180	*30 000
Trinidad & Tobago	6 573	6 635	7 100	7 380	8 642
USA (a)	533 000	526 700	532 200	535 200	534 900
Argentina	23 404	25 941	28 473	30 320	32 832
Bolivia	3 288	3 294	3 329	3 010	3 106
Brazil	4 500	4 800	5 400	6 100	6 500
Chile	2 185	2 104	*2 100	*2 200	...
Colombia	4 200	4 400	4 700	5 900	6 300
Peru	1 003	1 000	984	1 067	1 417
Venezuela	24 675	29 973	29 731	30 900	29 900
Abu Dhabi	21 209	21 633	24 831	37 209	...
Afghanistan (b)	2 300	2 200	*2 300	*2 300	*2 400
Bahrain	...	7 205	7 702	8 030	8 550
Bangladesh (c)	6 338	7 006	7 520	7 390	7 955
Brunei	10 245	11 185	11 097	11 099	10 700
China	17 563	17 947	20 114	22 703	23 000
Dubai	*1 500	...	...	...	...
India (d)	17 339	20 916	21 262	19 703	19 522
Indonesia	83 297	84 929	89 669	90 293	84 370
Iran	31 800	35 300	40 210	47 000	50 000
Iraq	3 000	3 400	3 500	4 300	6 500
Japan	2 274	2 209	2 230	2 279	2 301
Jordan	340	350	*350	289	264
Kazakhstan	4 488	5 916	6 524	8 115	*8 300
Kuwait (e)	4 700	4 700	6 000	5 900	5 900
Kyrgyzstan	39	36	26	24	18
Malaysia	26 130	28 880	36 680	38 400	40 700
Myanmar	1 301	1 477	1 625	*1 700	...
Oman	2 900	4 100	4 400	5 000	5 200
Pakistan (c)	17 679	17 791	18 878	19 761	19 814
Qatar	13 500	13 500	13 700	17 400	19 580

Production of Natural Gasmillion m³

Country	1994	1995	1996	1997	1998
Saudi Arabia (e)	37 700	38 040	41 340	45 340	46 820
Syria	4 200	4 400	4 400	4 400	4 000
Taiwan	867	889	874	849	870
Tajikistan	30	40	50	40	...
Thailand	10 726	11 361	13 274	16 168	17 598
Turkmenistan	35 800	32 300	35 180	17 500	14 000
Uzbekistan	47 200	48 600	49 000	51 200	*55 000
Australia	28 147	29 761	29 799	29 876	30 361
New Zealand	4 768	4 497	5 089	5 424	4 767
Papua New Guinea	100	100	140	125	138
World Total	2 285 000	2 320 000	2 394 000	2 362 000	2 355 000

Note(s):

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

- (a) Dry gas
- (b) Years ended 20 March following that stated
- (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

Exports of Crude Petroleum

tonnes

Country	1994	1995	1996	1997	1998
Austria	...	...	...	48 276	51 392
Azerbaijan (a)	...	...	*55 100	*10 700	...
Belarus	(a) *106 500	200 000	300 000	400 000	381 500
Belgium-Luxembourg	128 546	68 607	71 493	55 597	3 423
Croatia	46 761	123 038	117 526	296 338	30 874
Czech Republic	76 000	108 000	84 000	90 000	103 504
Denmark	2 897 144	5 130 017	4 616 379	6 507 328	8 061 369
Estonia (a) (b)	...	*20 000	*63 000	*70 000	*394 000
France	40 191	55 769	24 597	41 785	400 408
Georgia	(a) *49 600	29 333	70 352	137 810	...
Germany	1 075 571	488 495	1 089 862	1 008 553	156 975
Greece	269 997	517 877	894 507	700 026	740 109
Italy	46 011	380 643	317 706	321 595	208 758
Latvia (a) (b)	*2 372 000	*1 357 000	*2 582 000	*2 560 000	*2 090 000
Lithuania	(a) *137 800	7 722	122 963	201 316	264 790
Netherlands	1 386 614	1 010 158	693 411	229 487	14 164
Norway	111 335 668	121 860 012	136 799 832	136 909 684	131 818 902
Poland	53 000	331	1 000	2 000	...
Russia	124 700 000	125 644 300	122 336 100	126 800 000	135 175 000
Slovakia	...	...	15 000	24 000	23 000
Slovenia	94 211	179	127 834	163 870	82 082
Ukraine	...	13 639	----	5 139	87 910
United Kingdom	77 870 558	81 221 560	77 654 502	71 795 525	70 587 589
Algeria	31 492 000	32 287 000	33 934 000	33 734 000	...
Angola	*23 600 000	...	...	...	...
Benin	*192 000	*124 000	*82 000	...	...
Cameroon	*4 382 000	3 727 760	4 982 805	...	...
Congo	8 621 539	...	...	...	...
Congo, Democratic	*1 077 000	...	...	...	...
Egypt	7 867 128	7 242 853	6 684 826	6 147 800	...
Gabon	15 834 000	...	18 571 000	...	...
Libya	*54 200 000	*53 100 000	*53 900 000	*52 200 000	...
Nigeria	96 800 000	89 300 000	88 800 000	89 800 000	...
Tunisia	3 233 453	3 289 700	3 147 701	2 795 499	...
Canada	52 035 024	60 013 946	60 373 811	64 915 842	67 517 536
Guatemala	185 592	126 816	530 434	893 216	1 218 743
Mexico	69 210 685	68 493 006	79 658 127	88 975 000	88 810 000
Netherlands Antilles	684 000	...	...	...	...
Trinidad & Tobago	2 788 688	2 986 937	2 657 375	2 835 482	2 700 000
USA	390 951	89 329	3 427 197	7 327 812	6 839 731
Argentina	10 526 000	14 010 000	17 229 682	17 632 260	17 501 194
Colombia	9 141 459	14 219 000	16 633 000	17 769 000	23 500 000
Ecuador	12 100 000	13 100 000	11 800 000	12 700 000	12 000 000
Peru	----	1 436 600	1 800 000	2 200 000	2 100 000
Venezuela	88 635 000	95 232 000	103 503 000	115 800 000	...
Brunei	*8 600 000	7 705 978	7 420 268	7 091 923	...
China	18 552 436	18 826 988	20 402 546	19 828 882	15 600 712
Indonesia	44 098 164	37 086 773	38 841 706	39 363 253	37 097 731
Iran (a)	*102 413 000	*103 072 000	*105 000 000	*86 300 000	*79 100 000
Iraq	*2 900 000	*3 100 000	*4 300 000	*36 100 000	...
Japan	----	----	----	188 453	132 283
Kazakhstan	...	11 306 977	14 502 982	16 381 784	20 429 769
Kuwait	63 600 000	59 700 000	61 600 000	57 299 847	...
Kyrgyzstan	...	24 600	21 100	...	...
Malaysia	19 371 039	19 247 000	...	...	...
Oman	34 192 000	35 734 000	40 498 000	41 661 000	41 100 000
Pakistan (c)	299 283	*300 000	331 749	406 041	168 579
Philippines	24 225 000	13 209 000	...	...	...
Qatar	16 666 000	18 195 088	17 004 283	17 175 819	...
Saudi Arabia	310 700 000	313 600 000	304 500 000	314 406 535	...
Singapore	60 215	60 844	63 180	15 360	934
of which, re-exports	60 207	60 844	----	1 482	18
Syria	17 012 000	18 370 830	17 443 170	16 758 000	...
Turkmenistan (a)	*25 000	...	...	*54 000	*58 000

tonnes

Exports of Crude Petroleum

Country	1994	1995	1996	1997	1998
United Arab Emirates	93 936 000	...	...	...	...
Vietnam	7 002 000	7 700 000	8 803 000	10 909 000	12 500 000
Australia	9 176 000	9 776 000	9 237 000	11 664 000	12 238 000
New Zealand (c)	1 103 798	987 552	1 072 040	1 590 266	972 763
Papua New Guinea	5 296 173	4 944 935	5 215 951	3 754 855	4 031 937

Note(s):

- (a) BGS estimates, based on known imports into certain countries
- (b) Re-exports
- (c) Years ended 30 June of that stated

Imports of Crude Petroleum

tonnes

Country	1994	1995	1996	1997	1998
Austria	7 789 848	...	...	8 467 771	8 396 114
Belarus	...	11 457 143	10 644 670	10 460 800	10 054 600
Belgium-Luxembourg	27 232 711	25 797 016	27 320 000	32 327 044	33 613 385
Bulgaria	5 900 000	7 390 443	6 893 796	5 832 748	...
Croatia	...	4 929 170	4 098 141	4 008 271	3 446 481
Czech Republic	6 493 000	7 052 000	7 671 000	7 050 000	6 947 928
Denmark	4 986 799	5 236 573	5 174 129	4 768 350	4 605 084
Finland	9 836 607	8 394 854	9 498 391	9 476 213	11 426 549
France	75 359 934	75 789 890	83 237 071	86 964 817	91 356 469
Germany	107 578 872	100 548 800	103 541 602	100 737 953	108 124 652
Greece	13 375 000	11 356 000	17 850 000	10 753 000	16 532 000
Hungary	5 821 385	5 872 242	5 512 325	5 480 450	6 738 041
Irish Republic	2 305 205	...	2 076 881	2 887 604	3 136 654
Italy	75 625 622	73 062 000	74 542 000	78 030 889	85 432 822
Lithuania	906 700	3 014 500	3 672 207	5 033 453	6 339 260
Macedonia	112 000	159 190	...	(c) *407 000	(c) *707 000
Netherlands	56 574 805	59 992 028	61 489 000	61 200 000	62 244 603
Norway	1 054 754	1 406 524	1 332 752	1 559 657	1 921 796
Poland	1 272 043	13 036 603	13 505 000	14 713 000	...
Portugal	13 436 000	13 237 000	11 131 892	12 701 350	13 372 594
Romania	8 122 294	8 657 249	7 155 735	6 244 782	5 973 527
Russia	...	...	8 983 372	7 905 006	7 884 624
Slovakia	4 825 407	5 301 328	5 443 068	5 335 000	5 446 000
Slovenia	410 871	515 575	2 673 170	2 715 086	2 331 808
Spain	53 567 000	52 299 461	51 955 000	53 471 773	59 116 315
Sweden	17 954 000	16 599 000	21 342 000	21 005 871	20 264 108
Switzerland	4 766 577	4 544 005	5 290 311	4 832 714	5 015 516
Turkey	21 181 000	23 605 000	22 767 000	...	23 791 392
United Kingdom	42 717 365	40 358 431	41 265 377	41 382 610	36 129 320
Yugoslavia, Federal Republic	...	...	1 321 098	...	...
Cameroon	...	...	895 366	...	...
Congo, Democratic Republic	*112 000	...	...	...	...
Ethiopia	688 344	674 313	417 100	...	...
Ghana	*1 023 000	...	...	...	...
Ivory Coast	*3 045 000	...	...	...	...
Kenya	2 173 155	1 356 907	1 412 947	1 833 744	2 157 695
Madagascar	235 208	435 754	...	447 449	374 330
Morocco	6 855 120	6 751 486	5 743 316	6 014 215	...
Senegal	302 782	650 686	...	...	...
Sierra Leone	...	85 188	98 898	69 670	...
South Africa	...	8 915 695	6 807 470	3 864 487	...
Sudan	*1 037 000	...	...	...	...
Tanzania	*585 000	...	...	...	...
Tunisia	608 253	907 100	757 987	935 168	...
Zambia	*550 000	...	...	...	...
Barbados	113 420	194 400	...	...	...
Canada	33 056 827	36 366 949	39 442 330	47 298 401	48 264 579
Costa Rica	553 852	706 133	675 988	636 191	...
Cuba	4 927 000	5 136 000	5 000 000	5 200 000	...
Dominican Republic	1 991 000	2 033 000	...	...	...
El Salvador	658 134	745 266	720 862	789 345	877 392
Guatemala	788 478	781 135	738 980	778 628	779 972
Jamaica	801 244	788 077	649 083	745 802	755 738
Martinique	772 200	712 768	798 713	717 032	612 249
Netherlands Antilles	9 439 000	*10 000 000	*10 000 000	*10 000 000	...
Nicaragua	720 045	762 808	...	657 197	671 152
Panama	1 188 791	1 222 756	2 040 500	2 091 063	2 314 972
Trinidad & Tobago	1 500 000	1 800 000	2 100 000	1 300 000	3 800 000
USA	368 770 696	368 919 493	394 606 231	418 577 612	442 208 021
Argentina	493 402	699 756	780 149	1 166 567	1 269 436
Brazil	23 349 981	22 605 389	24 986 296	24 341 816	22 984 144
Chile	6 956 520	7 922 607	8 437 850	8 554 579	9 516 634
Paraguay	237 950	228 423	149 128	187 068	218 921
Peru	965 667	2 463 147	2 909 915	3 977 618	4 767 658
Uruguay	181 957	1 454 800	1 505 118	1 503 635	1 090 000

Imports of Crude Petroleum

Country	1994	1995	1996	1997	1998
Bangladesh (a)	...	...	1 241 197	1 505 082	...
China	12 345 913	17 089 939	22 616 949	35 469 702	27 322 633
Cyprus	875 423	808 725	748 947	1 039 834	1 128 541
India (b)	27 349 052	27 357 268	33 710 000	34 399 000	...
Indonesia	9 473 000	9 290 566	9 424 156	9 508 614	10 507 985
Israel	11 210 000	...	10 257 000	...	6 771 000
Japan	240 110 138	260 224 328	219 942 965	226 878 133	214 850 343
Jordan	2 977 092	3 162 859	3 272 680	3 440 862	...
Kazakhstan	1 845 000	...	...	1 725 962	2 074 247
Korea, Dem. P.R. of (c)	*833 000	*1 022 000	*936 000	*506 000	*504 000
Korea, Republic of	77 692 874	84 282 365	81 333 520	116 681 048	110 606 443
Kyrgyzstan	...	...	12 102	70 100	62 400
Malaysia	1 540 049	1 276 588	...	...	...
Pakistan (a)	4 101 613	...	3 992 005	3 844 271	4 048 453
Philippines	11 647 341	15 973 931	17 065 409	17 446 853	...
Singapore	51 240 009	51 502 955	55 473 463	55 507 008	52 014 065
Sri Lanka	1 806 309	1 735 212	1 870 000	1 600 174	...
Taiwan	24 164 307	29 750 116	33 396 747	34 477 160	34 983 693
Thailand	17 241 502	21 273 355	29 209 836	31 190 196	...
Yemen, Republic of	*100 000	...	...	...	...
Australia	14 249 000	15 744 000	19 333 000	20 427 000	22 926 000
New Zealand (a)	3 682 547	3 864 183	*3 580 000	3 567 723	4 133 358

Note(s) :-

(a) Years ended 30 June of that stated

(b) Years ended 31 March following that stated

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

Production of Phosphate Rock

tonnes

Country	1994	1995	1996	1997	1998
Finland	656 645	680 415	651 463	689 053	715 705
Russia	8 021 000	9 068 000	8 679 800	10 004 800	10 047 800
Algeria	713 500	758 000	1 051 000	1 063 000	1 155 000
Egypt (a)	268 020	378 756	210 882	201 000	215 736
Morocco	20 335 000	20 314 000	20 792 000	23 084 000	22 966 000
Senegal					
Phosphate rock	1 587 400	1 543 800	1 376 800	1 584 405	1 514 897
Aluminium phosphate (b)	23 400	40 100	77 508	8 680	21 230
South Africa	2 545 200	2 790 000	2 655 200	2 717 400	2 960 800
Tanzania	-----	6 686	717	...	...
Togo	2 149 200	2 569 000	2 730 700	2 631 400	2 253 400
Tunisia	5 565 000	6 302 000	7 150 900	7 222 100	7 950 800
Zimbabwe	150 560	154 482	122 631	93 849	91 433
Mexico	546 857	622 354	682 079	713 662	756 349
Netherlands Antilles (c)	22 972	...	...	...	...
USA	41 047 000	43 500 000	45 400 000	45 900 000	44 200 000
Brazil (d)	3 945 266	3 896 012	3 830 301	4 275 609	4 421 403
Chile	9 975	12 164	17 356	12 605	31 405
Colombia	48 107	*50 000	40 484	44 517	*50 000
Peru	86 075	88 638	65 436	52 174	46 821
Venezuela	99 000	85 510	147 850	318 587	*250 000
China	26 890 000	31 200 800	31 040 200	25 093 700	19 664 100
Christmas Island (a) (c) (e)	296 709	421 590	542 800	567 860	587 660
India (f)	1 107 717	1 319 328	1 349 983	1 623 190	1 226 575
Iraq	*1 000 000	*1 000 000	*1 000 000	*1 000 000	*1 000 000
Israel	2 779 000	2 642 000	2 616 000	2 708 000	2 940 000
Jordan	4 216 500	4 983 900	5 421 500	5 895 600	5 925 000
Kazakhstan	2 080 000	2 221 000	*1 500 000	*1 000 000	...
Korea, Dem. P.R. of	*500 000	*500 000	*500 000	*500 000	*500 000
Pakistan (a)	15 967	15 094	...	11 045	...
Philippines					
Phosphate rock	*20 000	*20 000	*20 000	*20 000	*20 000
Guano	*5 000	*5 000	*5 000	*5 000	*5 000
Sri Lanka	26 865	32 114	34 043	29 634	37 598
Syria	1 202 000	1 598 000	2 189 000	2 392 000	2 496 000
Thailand	7 739	9 301	3 528	3 818	*4 000
Vietnam	469 800	470 000	475 000	581 500	585 000
Australia	3 401	4 631	585	419	813
Nauru (a) (c)	583 835	527 073	551 320	541 050	...
World Total	129 000 000	140 000 000	143 000 000	143 000 000	135 000 000

Note(s):

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

(a) Years ended 30 June of that stated

(b) Including lime phosphates

(c) Exports

(d) Including beneficiated and directly shipped material

(e) Including phosphate dust

(f) Years ended 31 March following that stated

Exports of Phosphate Rock

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg	18 811	21 332	7 784	12 675	40 624
France	2 270	3 063	7 001	1 149	4 538
Germany	3 336	325	217	81	1 646
Italy	614	648	1 644	30 205	2 391
Netherlands	162 031	115 164	128 266	99 188	174 733
Poland	21 382	39 288	45 000	46 000	...
Russia	2 756 600	3 098 300	3 571 910	4 258 900	4 329 320
Spain	143	20	49	1 431	78 253
Switzerland	926	8 337	9 704	9	4 289
United Kingdom	5 057	884	2 441	425	337
Algeria	576 000	670 700	992 800	1 103 000	1 151 000
Egypt	113 800	48 000	64 800	180 700	222 000
Morocco	9 526 800	9 420 400	10 139 919	11 669 340	11 732 000
Senegal	529 989	846 468	725 096	616 700	409 800
South Africa	1 273 000	1 408 300	973 600	902 600	845 500
Togo	2 233 800	2 652 100	2 685 500	2 686 600	2 242 600
Tunisia	1 296 100	1 308 203	1 205 749	1 247 043	951 300
Netherlands Antilles	22 972	...	...	...	...
USA	3 310 000	2 990 000	1 570 000	335 000	378 000
China	742 872	948 933	1 368 667	1 660 379	2 150 227
Christmas Island (a) (b)	260 200	421 590	542 800	567 860	587 660
Indonesia	6 169	12 876	10 167	1 600	175
Israel	2 383 000	1 963 800	2 007 900	1 472 500	1 540 100
Jordan	3 829 600	3 878 500	4 307 726	4 367 215	3 735 600
Kazakhstan	...	1 670	195	167 044	127 499
Malaysia	1 410	2 400	2 000	*2 000	...
Syria	881 756	1 374 236	1 361 405	1 658 705	...
Australia	656	11 079	13 086	8 348	5 199
Nauru	583 835	527 073	551 320	541 050	*535 000

Note(s):

(a) Including phosphate dust

(b) Years ended 30 June of that stated

Imports of Phosphate Rock

tonnes

Country	1994	1995	1996	1997	1998
Albania	...	5 800	13 300	10 700	...
Austria	224 906	161 600	207 200	238 676	295 555
Belgium-Luxembourg	1 609 008	1 475 929	1 628 924	1 866 679	1 817 279
Bulgaria	275 200	267 513	437 052	521 792	...
Croatia	242 381	259 286	239 512	279 807	226 811
Czech Republic	76 128	96 600	74 300	78 835	58 305
Denmark	66 200	139 400	83 900	...	4 123
Finland	57 044	91 286	112 500	59 444	101 365
France	1 559 872	1 652 197	1 706 019	1 557 341	1 471 321
Germany	301 796	288 878	257 521	284 812	252 950
Greece	287 806	479 920	626 328	525 614	437 066
Hungary	30 923	45 692	36 393	21 704	15 481
Irish Republic	7 794	7 632	12 191	7 214	11 115
Italy	255 300	271 384	231 734	142 211	167 485
Lithuania	295 300	412 200	468 682	539 771	666 384
Macedonia	61 400	*62 000	*60 000	*60 000	...
Netherlands	1 563 220	2 094 664	1 998 529	1 944 971	1 922 476
Norway	625 090	605 079	680 521	667 801	628 205
Poland	1 425 901	1 706 712	1 790 000	1 752 000	1 870 200
Portugal	148 010	147 412	132 483	137 590	183 954
Romania	830 765	733 321	683 211	480 297	272 912
Russia	134 400	107 300	37 833	84 365	59 098
Slovenia	17 160	700	1 792	1 732	1 583
Spain	191 008	1 812 391	2 107 936	2 207 570	2 105 369
Sweden	103 792	102 265	61 024	55 138	74 048
Turkey	615 573	620 663	604 869	1 117 910	1 041 910
Ukraine	*800 000	*890 000	823 768	879 867	704 576
United Kingdom	74 791	52 218	27 455	38 103	23 409
Yugoslavia, Federal Republic	*200 000	*200 000	165 800	200 312	164 488
Egypt	100	-----	29 100	90 752	...
Ivory Coast	...	1 000	...	1 600	2 100
Mauritius					
Guano	514	1 500	1 286	2 001	...
South Africa	625 010	482 000	495 625	556 506	424 235
Canada	1 168 324	1 182 871	1 006 913	1 083 389	1 161 024
Cuba	*5 000	*5 000	*5 000	*5 000	...
Mexico	1 177 706	1 377 624	1 757 003	1 729 588	2 138 524
USA	631 200	710 530	575 588	904 221	807 333
Brazil	562 953	531 716	653 787	675 561	759 198
Chile	36 827	53 794	34 319	19 791	13 459
Colombia	56 873	87 548	50 478	80 225	88 276
Uruguay	36 707	11 000	30 850	17 955	56 587
Venezuela	58 951	67 440	44 025	71 516	...
Bangladesh (b)	162 600	84 563	84 563	138 110	...
China	137 597	135	419	476	3 534
India (c)	2 540 138	2 443 753	2 038 253	2 667 811	*2 800 000
Indonesia	489 150	591 129	955 842	680 023	787 528
Iran (a)	332 605	422 728	*387 000	346 253	*430 000
Japan	1 194 059	1 332 573	1 178 028	1 030 763	976 372
Korea, Dem. P.R. of	40 900	700	5 500	9 300	...
Korea, Republic of	1 681 299	1 658 750	1 630 534	1 640 561	1 517 860
Lebanon	267 000	361 000	375 000	406 000	445 000
Malaysia	465 538	538 928	586 900	602 900	560 200
Malaysia					
Guano	5 760	5 317	5 118	...	...
Pakistan (b)	280 927	253 280	240 487	154 000	143 950
Philippines	519 135	742 364	707 262	331 258	...
Saudi Arabia	3 435	4 612	6 077	4 030	6 130
Sri Lanka	1 000	2 281	1 122	1 380	...
Taiwan	352 998	373 927	313 517	265 234	235 394
Thailand	11 311	16 200	16 000	120 400	236 200

Imports of Phosphate Rock

Country	1994	1995	1996	1997	1998
Australia	954 559	1 028 461	828 223	999 006	1 100 805
New Zealand (b)	891 331	795 631	*791 000	845 585	818 909

Note(s) :-

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

(c) Years ended 31 March following that stated

Mine Production of Platinum Group Metals

kilograms (metal content)

Country	1994	1995	1996	1997	1998
Russia					
Platinum (a)	31 100	38 900	37 300	26 400	32 700
Palladium (a)	...	127 500	171 100	155 500	158 600
Other platinum metals	*3 000	*3 600	*3 500	*3 500	*3 500
South Africa (b)	183 925	183 097	188 636	196 466	200 143
Zimbabwe					
Platinum	7	6	*7	245	1 855
Palladium	17	16	*12	345	2 730
Other platinum metals	----	----	----	27	189
Canada					
Platinum	5 700	...	...	...	...
Palladium	6 700	(c) 16 963	(c) 14 668	(c) 12 459	(c) 15 287
Other platinum metals	1 910	...	...	...	...
USA					
Platinum	*1 960	*1 590	*1 840	*2 610	*3 240
Palladium	*6 440	*5 260	*6 100	*8 430	*10 600
Colombia	1 084	973	672	406	437
Australia					
Platinum	113	74	119	315	209
Palladium	450	528	559	429	2 042
World Total	370 000	379 000	425 000	407 000	432 000

Note(s):

- (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 countries listed, Bulgaria, China, Ethiopia, Indonesia and Philippines are believed to produce platinum group metals

- (a) Sales
- (b) Metal production
- (c) Platinum group metals; all forms

Exports of Platinum Group Metals

kilograms

Country	1994	1995	1996	1997	1998
Austria					
Platinum & platinum metals	1 100	1 191	1 741	600	700
Waste & scrap	386	200	1 300	400	600
Azerbaijan					
Waste & scrap (a)	...	...	...	*24 300	*50
Belarus					
Waste & scrap (a)	...	*1 200	...	*50	*3 900
Belgium-Luxembourg					
Platinum	5 903	8 047	9 612	12 087	10 200
Platinum metals	16 182	14 487	41 061	34 533	22 700
Waste & scrap	£7 539 000	£1 139 000	£1 995 000	£1 502 000	£2 655 000
Bulgaria					
Waste & scrap (a)	*100	*1 300	*600	*400	*25 900
Croatia					
Platinum & platinum metals	£70 000	£325 000	£638 000	£499 000	£74 000
Czech Republic					
Waste & scrap (a)	*4 500	*3 900	*500	*275	*11 500
Denmark					
Platinum & platinum metals	183	11	142	134	330
Estonia					
Waste & scrap (a)	*1 100	*4 500	*14 300	*18 700	*123 200
France					
Platinum	5 677	8 251	8 888	5 900	5 500
Platinum metals	7 182	7 736	11 180	11 180	13 900
Waste & scrap	16 700	27 878	2 816	15 900	12 300
Germany					
Platinum	13 814	18 228	17 347	20 300	21 300
Palladium	16 977	18 249	16 105	17 800	21 000
Other platinum metals	2 887	3 854	3 593	1 600	2 800
Waste & scrap	314 153	132 032	31 588	329 400	620 300
Irish Republic					
Platinum & platinum metals	575	17 346	271	1 643	2 719
Waste & scrap	...	...	...	688	2 828
Italy					
Platinum	2 481	...	...	1 113	739
Platinum metals	1 142	...	...	2 522	3 107
Latvia					
Waste & scrap (a) (f)	...	...	*6 200	*4 800	*1 800
Lithuania					
Waste & scrap	(a) (f) *6 500	----	...	91	45
Netherlands					
Platinum	2 739	2 726	...	...	...
Platinum metals	761	1 069	...	...	...
Waste & scrap	2 000	4 000	...	...	6 200
Norway					
Platinum & platinum metals	5 682	7 931	4 823	5 943	6 049
Poland					
Platinum & platinum metals	3	14	12	27	...
Russia					
Platinum (d)	31 100	38 900	37 300	26 400	32 700
Palladium (d)	...	127 500	171 100	155 500	158 600
Waste & scrap (a)	*600	*500	*92 000	*335 600	*152 000
Spain					
Platinum & platinum metals	1 233	1 282	...	1 447	5 943
Waste & scrap	----	2 000	737	549	184
Sweden					
Platinum & platinum metals	£848 000	£642 000	£644 000	...	...
Switzerland					
Platinum	37 767	35 635	44 663	63 863	73 859
Palladium	33 643	26 138	20 537	81 953	67 180
Other platinum metals	398	125	430	533	438
Waste & scrap	6 318	2 649	5 408	32 302	19 367
Ukraine					
Waste & scrap (a)	*550	*800	*10 300	*37 400	*22 000

Exports of Platinum Group Metals

kilograms

Country	1994	1995	1996	1997	1998
United Kingdom					
Platinum	21 845	27 258	29 155	66 576	22 882
Palladium	29 629	27 654	25 248	21 113	59 009
Other platinum metals	4 449	5 622	7 018	16 170	17 062
Waste & scrap	2 520	4 478	58 505	203 889	...
South Africa					
Platinum & platinum metals (d)	162 157	175 158	186 036	193 021	194 040
Waste & scrap (a)	*1 300	*5 400	*118 900	*105 700	*174 400
Canada					
Ores & concentrates (b)	7 325	10 320	8 686	8 934	8 884
Platinum metals	6 604	5 249	5 050	6 927	7 112
USA					
Ores & concentrates (b)	202	598	486	710	748
Platinum	20 665	21 470	20 648	31 511	27 367
of which, re-exports	5 089	6 518	7 937	8 510	13 077
Palladium	32 217	33 907	33 605	61 127	70 841
of which, re-exports	2 542	7 891	6 906	18 632	34 599
Other platinum metals	1 113	1 348	407	1 403	3 885
of which, re-exports	258	523	96	547	2 167
Waste & scrap	42 104	8 153	8 640	13 251	19 744
China					
Platinum & platinum metals	2 463	3 094	1 775	3 363	2 911
Hong Kong					
Platinum & platinum metals (c)	1 439	1 071	1 554	1 946	2 733
Waste & scrap (c)	950	1 125	838	1 203	979
India					
Platinum & platinum metals (e)	21	386	449	3 666	...
Israel					
Platinum & platinum metals	£90 000	£400 000	£97 000	£150 000	...
Waste & scrap (a)	*600	*1 100	*3 300	*10 300	*7 500
Japan					
Platinum	4 539	5 715	6 808	9 002	8 492
Platinum metals	7 399	9 462	28 043	20 472	17 967
Waste & scrap	665	1 276	4 382	13 822	41 546
Kazakhstan					
Waste & scrap (a)	*50	*50	*100	...	*42 800
Korea, Republic of					
Platinum & platinum metals	449	441	4 050	13 805	51 746
Waste & scrap	----	92	----	8 597	4 891
Singapore					
Platinum & platinum metals (c)	715	231	1 495	9 130	2 069
Taiwan					
Platinum & platinum metals	6 842	4 633	276	307	167
Waste & scrap	83 063	85 229	1 500	18 619	1 323
Uzbekistan					
Waste & scrap (a)	...	...	...	*31 500	*400
Australia					
Platinum & platinum metals	652	376	212	1 165	1 616
Waste & scrap	£1 525 000	£2 770 000	£396 000	£3 322 000	£602 157

Note(s):

(1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys

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

(b) Platinum metals content

(c) Re-exports

(d) Sales

(e) Years ended 31 March following that stated

(f) Is likely to include re-exports

Imports of Platinum Group Metals

kilograms

Country	1994	1995	1996	1997	1998
Austria					
Platinum & platinum metals	3 918	4 725	5 506	7 100	4 000
Belarus					
Platinum & platinum metals (b)	*100	*600	*200	*50	*100
Belgium-Luxembourg					
Platinum	1 430	2 760	4 587	4 900	8 400
Platinum metals	597	5 894	24 094	108 900	11 300
Waste & scrap	£686 000	...	£1 003 000	£9 466 000	...
Bulgaria					
Platinum & platinum metals (b)	*50	*50	...	...	...
Croatia					
Platinum & platinum metals	£130 000	£189 000	£291 000	£383 000	£63 000
Czech Republic					
Platinum & platinum metals (b)	*500	*400	*1 200	*400	*100
Denmark					
Platinum & platinum metals	567	658	559	1 612	1 325
Finland					
Platinum & platinum metals	328	1 000	451	99	175
France					
Platinum	9 677	13 992	13 868	16 900	12 700
Platinum metals	7 671	9 273	12 535	19 400	26 400
Waste & scrap	4 400	2 178	19 706	2 100	7 500
Germany					
Platinum	19 185	23 764	22 775	26 900	21 700
Palladium	25 056	27 169	24 790	31 700	29 400
Other platinum metals	3 842	5 576	6 791	4 300	4 300
Waste & scrap	32 439	85 132	1 347 887	2 238 400	2 687 900
Hungary					
Platinum & platinum metals	(b) *50	(b) *100	104	123	50
Irish Republic					
Platinum & platinum metals	38 538	113 996	27 729	83 046	46 402
Italy					
Platinum	5 063	...	...	5 772	7 158
Platinum metals	19 808	...	...	26 070	32 112
Waste & scrap	2 600	337	530	980	792
Netherlands					
Platinum	497	1 550	...	...	...
Platinum metals	2 496	1 809	...	...	...
Waste & scrap	----	...	574	...	400
Norway					
Platinum & platinum metals	918	388	622	633	863
Waste & scrap	1 210	1 384	1 489	1 651	1 376
Poland					
Platinum & platinum metals	382	144	2 086	125	...
Romania					
Platinum & platinum metals	20 335	30 606	...	...	...
Spain					
Platinum & platinum metals	2 190	2 389	...	15 629	15 986
Sweden					
Platinum & platinum metals	£14 032 000	£9 177 000	£6 864 000	£5 094 000	£7 553 000
Switzerland					
Platinum	24 947	31 326	27 977	56 369	61 421
Palladium	24 342	23 932	38 047	65 435	78 486
Other platinum metals	27 366	653	545	429	384
Waste & scrap	5 575	14 651	2 815	5 957	5 628
Turkey					
Platinum & platinum metals	1 607	5 666	17 257	399	582
Ukraine					
Platinum & platinum metals (b)	*500	*650	*1 000	*600	*600
United Kingdom					
Ores & concentrates	32 324	68 325	...	...	...
Platinum	19 595	19 136	16 432	15 809	17 385
Palladium	28 344	25 584	40 909	25 190	27 454
Other platinum metals	4 193	4 036	4 808	6 967	8 812
Waste & scrap	52 824	110 072	651 881	705 721	384 238

Imports of Platinum Group Metals

kilograms

Country	1994	1995	1996	1997	1998
South Africa					
Platinum & platinum metals	9 941	85 545	...	6 735	27 374
Waste & scrap	95 732	...	2 877 877	2 720 501	2 762 116
Canada					
Platinum & platinum metals (c)	11 271	11 388	12 196	12 670	10 357
USA					
Platinum	54 363	71 460	76 097	76 300	97 013
Palladium	92 649	121 472	145 982	148 377	174 615
Rhodium	7 854	9 650	9 602	14 643	13 281
Other platinum metals	10 903	9 081	17 750	13 492	11 338
Waste & scrap	2 757	6 310	5 065	5 382	5 419
Brazil					
Platinum	622	563	902	2 168	2 136
Palladium	804	1 539	2 231	3 614	2 267
Venezuela					
Platinum & platinum metals	1 010	1 259	390	...	...
China					
Platinum & platinum metals	950	1 800	3 455	4 117	3 720
Cyprus					
Platinum & platinum metals	73	91	4 492	1 447	316
Hong Kong					
Platinum & platinum metals	8 313	11 324	18 379	20 650	29 389
Waste & scrap	16	184	466	584	535
India					
Platinum & platinum metals (a)	221	231	436	1 105	...
Indonesia					
Platinum & platinum metals	6 333	79	20 026	...	1 498
Israel					
Platinum & platinum metals	£1 808 000	£1 500 000	£800 000	£1 697 000	£1 329 000
Japan					
Platinum	74 762	73 199	72 806	66 187	72 323
Palladium	80 858	99 369	77 735	103 376	80 976
Rhodium	1 537	1 675	1 739	2 129	2 431
Other platinum metals	3 542	5 172	6 253	6 774	7 314
Waste & scrap	2 890	1 013	25 152	256 613	538 538
Korea, Republic of					
Platinum & platinum metals	5 638	7 353	51 890	20 824	8 939
Malaysia					
Platinum & platinum metals	22 915	...	...	...	...
Singapore					
Platinum & platinum metals	17 924	23 466	11 044	16 932	6 343
Taiwan					
Platinum & platinum metals	6 563	15 378	11 672	10 171	4 172
Thailand					
Platinum & platinum metals	101 926	51 373	4 891	16 430	...
Australia					
Platinum & platinum metals	4 107	3 889	2 235	5 507	8 658
Waste & scrap	£44 000	£114 000	£33 000	£1 000	£36 000

Note(s) :-

(1) In this table the term 'Platinum' and/or 'Platinum metals' includes unwrought, partly worked and alloys

(a) Years ended 31 March following that stated

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

(c) Derived from Canadian ores and concentrates exported for treatment

Production of Potash

tonnes (K₂O content)

Country	1994	1995	1996	1997	1998
Azerbaijan	*5 000	*5 000	*5 000	*5 000	*5 000
Belarus	2 515 000	2 795 000	2 716 000	3 247 000	3 451 000
France					
Potassic salts	869 600	801 600	751 000	665 300	417 100
Germany					
Potassic salts	3 286 581	3 278 374	3 331 785	3 420 600	3 582 000
Russia	2 479 000	2 814 000	2 618 000	3 403 000	3 461 000
Spain					
Chloride	679 954	635 615	680 472	638 835	585 000
Ukraine	77 700	55 100	55 200	52 200	33 600
United Kingdom					
Chloride	580 000	582 000	618 000	564 500	608 400
Canada					
Chloride	8 181 946	9 065 604	7 992 034	8 989 000	9 270 000
USA					
Potassic salts	1 400 000	1 480 000	1 390 000	1 400 000	1 300 000
Brazil					
Chloride	234 265	215 411	235 000	271 000	316 000
Chile					
Chloride	*47 300	*60 000	*212 700	*245 000	*285 000
Nitrate	*46 000	*48 000	*43 000	*45 000	*47 000
China	327 200	263 200	218 200	286 000	332 900
Israel					
Chloride	1 259 300	1 326 000	1 500 000	1 488 000	1 668 000
Jordan	930 155	1 068 002	1 059 197	849 405	916 169
World Total	22 900 000	24 500 000	23 400 000	25 600 000	26 300 000

Potash

Exports of Potash

tonnes

Country	1994	1995	1996	1997	1998
Belarus					
Chloride (a)	3 203 000	2 384 000	2 244 737	2 878 300	2 911 700
Belgium-Luxembourg					
Fertiliser salts	*2	3 560	9 381	4 020	4 989
Sulphate (b)	*290 000	*315 000	*282 000	*349 000	*280 000
Chloride	*250 000	179 953	164 274	191 480	177 146
Other potassic fertilisers	*5 000	4 031	6 389	7 428	6 503
Finland					
Sulphate (b)	...	*41 000	*46 000	*17 500	*33 200
France					
Sulphate	1 059	...	4 624	1 806	1 962
Chloride	323 202	299 522	283 693	261 541	177 019
Other potassic fertilisers	223	...	387	1 583	1 153
Germany					
Fertiliser salts (a)	(e) 2 816 908	(e) 2 471 985	(f) 2 648 218	(f) 2 873 050	(f) 2 916 848
Other potassic fertilisers (a)	36 356	39 917	...	...	...
Hungary					
Potassic fertilisers	...	...	13 154	14 417	11 832
Italy					
Potassic fertilisers	3 283	678	934	9 382	38 095
Latvia					
Chloride (b) (c)	*460 800	*120 000	*144 000	*149 000	...
Lithuania					
Potassic fertilisers	(b) (d) *30 300	1 530	16 175	15 855	35 296
Netherlands					
Sulphate (a)	1 125	484	*3 000	*1 000	...
Chloride (a)	64 812	50 704	*35 000	*45 000	...
Poland					
Potassic fertilisers	3 024	1 166	3 800	6 000	...
Russia					
Fertiliser salts	1 300	20 000	17 000	1 000	5 156
Chloride	3 652 475	(b) *3 565 000	3 590 036	4 909 164	5 031 735
Other potassic fertilisers	(b) *515 700	(b) *201 000	(b) *447 000	(b) *223 000	90 339
Spain					
Sulphate	47 313	46 071	72 249	63 136	74 346
Chloride	582 009	730 080	643 490	667 967	427 674
Sweden					
Sulphate	125 054	129 694	137 876	110 894	92 095
Ukraine					
Chloride (b)	*126 000	*340 000	*48 000	*179 000	...
Other potassic fertilisers (b)	*121 000	*2 900	*31 200	*4 500	*10 400
United Kingdom					
Chloride	*550 000	*550 000	*540 000	*540 000	*590 000
Other potassic fertilisers	426	601	2 505	4 164	1 195
Canada					
Chloride	13 000 043	13 795 493	12 922 578	14 545 380	14 252 452
Other potassic fertilisers	25 844	7 681	14 737	20 260	16 803
USA					
Sulphate	563 000	629 000	694 000	692 000	738 000
Chloride	419 000	297 000	393 000	365 000	364 000
Chile					
Fertiliser salts	169 931	147 294	147 829	164 257	169 181
China					
Fertiliser salts	320	1 932	132 440	----	10
Sulphate	615	265	278	10 755	21 473
Chloride	3 208	196 564	525 701	587 010	452 094
Israel					
Chloride (b)	*1 363 600	*1 232 000	*1 227 000	*1 873 000	*1 900 000
Other potassic fertilisers (b)	*37 600	*52 900	*48 300	*91 800	...
Japan					
Potassic fertilisers	1 407	487	786	687	726
Jordan					
Fertiliser salts	1 516 652	1 764 371	1 753 702	1 419 101	1 516 998
Korea, Republic of					
Sulphate	46 851	27 500	105 363	92 878	53 283

Exports of Potash

Country	1994	1995	1996	1997	1998
Singapore					
Sulphate (c)	6 191	2 074	139	42	111
Chloride (c)	58 888	39 327	29 438	35 282	37 193
Other potassic fertilisers (c)	7 147	989	5 853	6 751	3 460
Taiwan					
Sulphate	108 347	75 761	...	104 133	63 939

Note(s):

- (a) K₂O content
- (b) BGS estimates, based on known imports into certain countries
- (c) Re-exports
- (d) Is likely to include re-exports
- (e) Including sulphate and chloride
- (f) Including sulphate, chloride and other potassic fertilisers

Imports of Potash

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Fertiliser salts	13 324	11 485	2 049	16 071	20 411
Sulphate (a)	...	7 130	5 688	4 453	5 591
Chloride	181 328	27 279	141 533	*110 000	*100 000
Other potassic fertilisers (a)	...	502	726	1 215	1 508
Belgium-Luxembourg					
Fertiliser salts	*20 000	32 980	23 051	28 948	33 135
Sulphate	*115 000	94 881	134 136	154 895	111 311
Chloride	*1 250 000	1 313 877	1 153 987	1 288 361	1 087 291
Other potassic fertilisers	*500	16 549	23 511	19 777	17 384
Bulgaria					
Fertiliser salts (a)	3 000	12 000	27 000	...	...
Croatia					
Chloride	...	178 418	163 127	182 206	136 730
Czech Republic					
Potassic fertilisers	82 500	116 900	109 600	106 364	93 279
Denmark					
Sulphate	24 953	29 494	7 190	30 816	22 042
Chloride	251 523	244 743	125 870	154 139	152 495
Other potassic fertilisers	6 733	10 588	14 967	9 881	7 062
Finland					
Chloride	(c) *161 800	(c) *184 000	*170 000	(c) *126 000	(c) *125 000
Other potassic fertilisers	436	6 892	2 234	444	103
France					
Fertiliser salts	9 514	37 829	40 346	12 715	1 045
Sulphate	86 436	95 573	101 484	101 910	90 079
Chloride	1 296 250	1 391 722	1 485 627	1 686 159	2 028 433
Other potassic fertilisers	31 344	28 405	34 777	33 015	30 028
Germany					
Chloride (a)	51 186	54 696	64 319	112 012	66 333
Greece					
Sulphate	77 411	110 351	144 232	164 451	102 220
Chloride	21 558	37 397	27 312	12 472	42 680
Other potassic fertilisers	8 196	8 954	7 916	8 400	10 986
Hungary					
Potassic fertilisers	95 227	107 255	112 821	116 522	96 263
Iceland					
Sulphate	1 260	1 030	21	701	6 877
Chloride	5 188	5 386	7 881	2 707	6 987
Irish Republic					
Sulphate	5 517	5 634	1 911	629	3 296
Chloride	233 221	225 024	311 191	258 116	*200 000
Other potassic fertilisers	21 692	-----	-----	2 877	110
Italy					
Sulphate	124 782	90 861	98 508	79 936	94 700
Chloride	493 798	485 201	405 292	524 284	508 389
Other potassic fertilisers	24 545	23 623	16 080	23 545	19 055
Latvia					
Potassic fertilisers	2 614	11 727	24 658	11 698	12 697
Lithuania					
Chloride	...	77 500	67 343	71 555	67 304
Macedonia					
Potassic fertilisers	13 800	*14 000	*14 000	...	...
Netherlands					
Sulphate (a)	17 227	22 884	*25 000	*32 000	...
Chloride (a)	299 537	312 389	*250 000	*240 000	...
Other potassic fertilisers (a)	12 737	9 063	*12 000	*8 000	...
Norway					
Sulphate	159 036	177 640	169 303	187 970	234 934
Chloride	361 047	359 922	372 793	342 143	353 059
Other potassic fertilisers	458	367	524	658	311
Poland					
Fertiliser salts	11 901	11 476	...	...	...
Sulphate	6 331	12 010	...	...	...
Chloride	656 959	732 981	(f) 826 000	(f) 824 000	...
Portugal					
Sulphate	...	...	1 198	2 370	2 423
Chloride	...	...	79 072	87 941	67 242

Imports of Potash

Country	1994	1995	1996	1997	1998
Romania					
Potassic fertilisers	90 105	96 577	84 858	83 763	60 987
Slovakia					
Potassic fertilisers	88 700	93 900	112 700	66 098	...
Spain					
Sulphate	6 254	16 323	8 146	14 812	20 244
Chloride	111 092	256 636	348 434	337 638	414 794
Other potassic fertilisers	385	849	762	1 329	1 072
Sweden					
Fertiliser salts	4 029	2 480	25	100	135
Sulphate	10 269	...	...	...	...
Chloride	250 792	...	7 479	11 808	10 825
Other potassic fertilisers	2 743	4 981	4 589	4 747	4 676
Switzerland					
Sulphate	2 800	2 937	3 152	2 365	2 240
Chloride	31 400	25 821	19 193	18 607	18 616
Other potassic fertilisers	5 191	4 578	4 997	5 052	2 988
Turkey					
Sulphate	26 966	11 336	21 385	19 554	27 796
Other potassic fertilisers	128 697	136 492	115 974	103 676	125 661
Ukraine					
Potassic fertilisers	...	...	41 077	61 316	39 868
United Kingdom					
Fertiliser salts	22 427	26 965	26 017	25 038	18 463
Chloride	463 715	441 494	462 630	331 300	209 723
Other potassic fertilisers	10 266	6 011	9 129	12 066	12 109
Yugoslavia, Federal Republic of					
Sulphate	...	...	...	55 570	58 057
Algeria					
Potassic fertilisers	33 500	66 700	*70 000	31 268	...
Cameroon					
Potassic fertilisers (a)	5 700	100	----	----	5 000
Egypt					
Potassic fertilisers (a)	7 100	8 800	12 600	10 500	14 200
Ivory Coast					
Potassic fertilisers (a)	27 400	11 700	7 200	50 000	----
Kenya					
Potassic fertilisers	2 884	3 026	1 362	3 306	25 683
Madagascar					
Potassic fertilisers (a)	*3 000	*2 000	...	...	...
Mauritius					
Potassic fertilisers	29 320	27 588	28 801	31 800	*25 000
Morocco					
Sulphate	...	31 977	37 172	29 331	...
Chloride	(e) 98 900	51 058	51 659	48 057	...
Nigeria					
Potassic fertilisers (a)	18 400	----	56 278	300	...
Reunion					
Potassic fertilisers (a)	3 523	900	1 800	----	900
Senegal					
Potassic fertilisers (a)	10 500	18 000	12 000	29 200	21 000
South Africa					
Sulphate	11 667	31 997	25 293	33 734	29 495
Chloride	254 847	202 073	282 244	227 503	238 069
Tunisia					
Potassic fertilisers	11 579	12 962	16 571	12 121	...
Zimbabwe					
Sulphate	68 731	22 538	18 534	38 925	...
Chloride	41 541	12 281	35 689	59 018	...
Belize					
Potassic fertilisers	4 659	3 052	978	346	543
Canada					
Sulphate	69 789	61 825	73 518	75 733	78 484
Chloride	4 950	5 651	12 318	4 851	4 854
Other potassic fertilisers	1 216	1 452	2 291	5 711	8 884

Imports of Potash

tonnes

Country	1994	1995	1996	1997	1998
Costa Rica					
Potassic fertilisers	98 111	85 827	90 611	122 160	...
Cuba					
Chloride	*65 000	*175 000	*170 000	*120 000	*80 000
Dominican Republic					
Potassic fertilisers	26 000	18 600	28 300	31 300	27 500
El Salvador					
Potassic fertilisers	5 610	10 863	16 350	12 461	14 803
Guatemala					
Potassic fertilisers	46 549	55 071	54 753	69 156	66 494
Honduras					
Potassic fertilisers	28 442	18 156	8 029	26 182	27 453
Jamaica					
Potassic fertilisers	...	13 027	12 744	14 274	...
Martinique					
Potassic fertilisers	15 153	15 472	23 674	10 231	17 548
Mexico					
Sulphate	31 211	24 822	34 475	57 248	65 261
Chloride	128 842	96 386	194 579	215 677	215 751
Nicaragua					
Potassic fertilisers	3 847	5 621	3 303	3 693	3 591
Panama					
Potassic fertilisers	29 132	18 882	18 906	17 625	11 308
USA					
Fertiliser salts	3 676	3 242	33 331	30 516	8 820
Sulphate	70 886	51 777	60 370	56 235	94 574
Chloride	7 863 391	7 912 547	8 127 007	9 037 671	9 139 970
Other potassic fertilisers	59 980	29 957	41 698	33 751	42 024
Argentina					
Sulphate	1 885	7 116	17 942	11 523	10 656
Chloride	21 723	36 700	37 879	37 765	27 988
Other potassic fertilisers	2 815	7 940	9 468	12 170	12 100
Brazil					
Sulphate	39 889	50 005	45 923	60 118	54 910
Chloride	2 748 461	2 484 865	3 015 165	3 558 455	3 227 866
Chile					
Sulphate	9 318	6 953	12 472	7 309	11 603
Chloride	46 450	59 383	74 732	63 086	83 033
Other potassic fertilisers	13 417	25 169	33 488	22 349	40 572
Colombia					
Sulphate	7 230	12 707	16 542	28 248	30 513
Chloride	298 059	252 310	247 888	256 845	332 912
Ecuador					
Fertiliser salts	5 999	6 045	...	512	...
Chloride	39 377	65 827	59 490	60 306	69 212
Other potassic fertilisers	6 734	3 555	5 511	6 204	11 320
Peru					
Chloride	55 136	8 445	17 812	28 226	...
Other potassic fertilisers	5 529	12 745	21 904	22 061	...
Uruguay					
Potassic fertilisers	4 906	5 349	13 331	18 930	17 162
Venezuela					
Sulphate	23 104	16 796	25 846	...	...
Chloride	57 830	74 043	64 538	31 428	...
Bangladesh					
Potassic fertilisers (d)	...	...	99 513	220 419	...
China					
Fertiliser salts	320	40 063	172 548	...	0
Sulphate	570 972	439 884	416 504	628 128	534 354
Chloride	2 846 045	3 858 241	3 438 962	4 625 909	5 120 377
Other potassic fertilisers	85 259	98 172	...	20 039	39
Cyprus					
Potassic fertilisers	3 034	583	462	600	420

Imports of Potash

Country	1994	1995	1996	1997	1998
India					
Sulphate (b)	13 797	15 255	6 341	18 691	...
Chloride (b)	1 703 423	1 885 667	830 649	1 613 979	...
Other potassic fertilisers (b)	30 051	125 737	21 052	135 829	...
Indonesia					
Sulphate	19 514	12 929	6 330	7 471	5 560
Chloride	347 500	522 035	478 840	610 172	217 011
Other potassic fertilisers	-----	-----	6 330	6 001	26 296
Iran					
Potassic chemicals (a)	44 200	-----	13 800	29 600	51 700
Japan					
Sulphate	197 924	22 582	238 567	195 075	186 179
Chloride	1 002 914	968 381	909 857	926 442	794 725
Other potassic fertilisers	82 979	223 886	83 752	78 079	83 926
Korea, Republic of					
Chloride	671 066	...	712 505	688 715	573 396
Other potassic fertilisers	8 074	...	10 498	...	14 868
Malaysia					
Sulphate	18 268	...	...	...	...
Other potassic fertilisers	700 748	...	...	...	...
Pakistan					
Potassic fertilisers (a)	20 800	400	46 400	400	16 600
Philippines					
Sulphate	39	185	1 107	4 554	...
Chloride	201 664	208 515	285 291	209 692	...
Saudi Arabia					
Sulphate	1 468	20 565	12 424	9 152	8 266
Other potassic fertilisers	2 667	2 967	11 231	7 153	2 822
Singapore					
Sulphate	4 764	28	161	48	-----
Chloride	35 166	41 974	27 704	27 868	33 551
Other potassic fertilisers	27 874	14 778	5 068	6 045	17 379
Sri Lanka					
Chloride	52 673	28 428	40 801	46 525	...
Other potassic fertilisers	53 746	49 964	75 256	31 445	...
Syria					
Potassic fertilisers	11 125	8 225	17 852	...	...
Taiwan					
Chloride	282 513	344 918	287 285	328 237	321 719
Thailand					
Sulphate	15 332	15 715	11 738	16 787	...
Chloride	120 728	182 770	206 032	230 282	...
Vietnam					
Potassic fertilisers (a)	25 100	28 400	27 100	51 700	135 200
Australia					
Sulphate	16 682	12 409	15 385	23 793	46 969
Chloride	308 983	364 127	286 294	363 813	324 797
Other potassic fertilisers	6 529	9 458	3 573	6 394	10 145
New Zealand					
Sulphate (d)	7 760	684	...	8 196	6 437
Chloride (d)	236 004	216 494	...	208 055	226 817

Note(s) :-

(a) K₂O content

(b) Years ended 31 March following that stated

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

(d) Years ended 30 June of that stated

(e) Including sulphate

(f) Including sulphate and fertiliser salts

Production of Rare Earth Minerals

tonnes

Country	1994	1995	1996	1997	1998
Congo, Democratic Republic					
Monazite	*20	*20	*10	...	...
Madagascar					
Bastnaesite	*5	*5	*5	*5	...
Monazite	*100	*100	*100	*100	...
South Africa					
Monazite	131	----	----	----	...
USA					
Bastnaesite (a)	20 664	22 200	20 400	*10 000	*5 000
China (a)	30 700	48 000	55 373	53 250	*60 000
India					
Monazite (b)	*5 000	*5 000	*5 000	*5 000	*5 000
Malaysia					
Monazite	425	814	618	688	*650
Xenotime	1	8	----	79	...
Australia					
Monazite	2 300	200	----	----	...

Note(s):

(1) With the exception of the data for USA and China, figures in this table refer to gross tonnage of concentrates

(2) Rare earth minerals are believed to be produced in Brazil, Kyrgystan, Russia, Indonesia, Democratic P.R. of Korea and Mozambique

(a) REO content. Assumed to be 60% of concentrates produced

(b) Years ended 31 March following that stated

Exports of Rare Earths

Country	1994	1995	1996	1997	1998
Austria					
Cerium compounds	789	975	553	485	416
Other rare earth compounds	3 234	2 167	1 651	1 260	1 111
Metals	376	285	278	619	725
Belgium-Luxembourg					
Rare earth compounds	76	81	...	217	385
Ferro-cerium & other pyrophoric alloys	5	73	...	14	...
Metals	3	11	...	131	310
Estonia					
Rare earth compounds	(a) *2 900	5 195	(a) *3 100	(a) *800	(a) *500
France					
Rare earth compounds	16 207	9 766	3 430	1 252	1 521
Ferro-cerium & other pyrophoric alloys	127	155	258	192	...
Metals	41	73	184	163	201
Germany					
Rare earth compounds	117	147	151	144	112
Ferro-cerium & other pyrophoric alloys	7	9	9	6	0
Metals	10	10	30	29	20
Italy					
Metals	47	...	...	12	31
Netherlands					
Metals	22	37	...	69	89
Russia					
Rare earth compounds	(a) *700	(a) *300	2 879	...	...
Switzerland					
Ferro-cerium & other pyrophoric alloys	1 572	1 664	1 607	1 767	2 001
Turkey					
Ferro-cerium & other pyrophoric alloys	...	...	32	78	184
United Kingdom					
Cerium compounds	408	568	473	407	463
Other rare earth compounds	658	772	933	595	260
Ferro-cerium & other pyrophoric alloys	20	29	11	11	15
Metals	107	416	44	70	70
USA					
Cerium compounds	4 453	5 127	6 148	6 010	4 912
Other rare earth compounds	2 416	1 546	2 221	1 660	1 725
Metals	275	370	211	826	737
Brazil					
Metals	67	11	...	...	...
China					
Ores & concentrates	1 729	676	1 405	300	----
Cerium compounds	4 411	7 877	9 994	13 826	16 694
Other rare earth compounds	16 171	27 608	33 522	31 275	48 922
Ferro-cerium & other pyrophoric alloys	142	130	288	294	117
Metals	4 639	6 870	5 055	8 207	6 097
Japan					
Cerium compounds	597	541	658	849	656
Other rare earth compounds	204	395	417	532	348
Metals	4	804	408	403	383
Kazakhstan					
Metals	(a) *50	(a) *150	(a) *50	110	12
Malaysia					
Ores & concentrates	178	1 080	1 033	...	...
Singapore					
Ferro-cerium & other pyrophoric alloys	...	...	...	142	116
of which, re-exports	...	...	...	131	78
Taiwan					
Rare earth compounds	547	813	172	430	85
Metals	27	12	24	103	2
Thailand					
Ores & concentrates	----	----	100	----	...
Ferro-cerium & other pyrophoric alloys	205	37	50	157	...

Exports of Rare Earths

tonnes

Country	1994	1995	1996	1997	1998
Australia					
Ores & concentrates	2 693	----	----	----	----
Cerium compounds	241	11	1	9	89

Note(s):

(1) Rare earths are here taken to include yttrium and scandium

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

Imports of Rare Earths

Country	1994	1995	1996	1997	1998
Austria					
Cerium compounds	451	433	484	780	192
Other rare earth compounds	406	541	810	715	1 505
Metals	377	829	276	673	769
Belgium-Luxembourg					
Cerium compounds	426	390	419	424	574
Other rare earth compounds	162	193	24	64	67
Ferro-cerium & other pyrophoric alloys	50	18	12	17	...
Metals	38	22	207	376	551
France					
Cerium compounds	564	1 311	6 658	11 028	19 647
Other rare earth compounds	13 570	13 027	15 752	906	1 369
Ferro-cerium & other pyrophoric alloys	77	65	37	61	...
Metals	294	305	406	412	430
Germany					
Cerium compounds	998	1 114	1 704	2 178	2 593
Other rare earth compounds	2 639	1 408	1 027	726	463
Ferro-cerium & other pyrophoric alloys	20	1	4	4	4
Metals	257	447	500	530	522
Hungary					
Rare earth compounds	...	...	192	194	163
Italy					
Rare earth compounds	...	...	...	505	518
Ferro-cerium & other pyrophoric alloys	19	...	...	3	...
Metals	6	...	...	19	8
Netherlands					
Cerium compounds	92	47	...	...	78
Other rare earth compounds	2 542	1 164	...	...	518
Ferro-cerium & other pyrophoric alloys	73	44	...	...	...
Metals	12	25	...	68	200
Norway					
Rare earth compounds	258	23	97	46	96
Metals	326	320	367	414	506
Poland					
Metals	53	129	124	45	...
Spain					
Rare earth compounds	66	288	...	370	385
Ferro-cerium & other pyrophoric alloys	84	152	...	59	...
Metals	12	13	...	14	7
Sweden					
Metals	47	...	...	31	61
Switzerland					
Ferro-cerium & other pyrophoric alloys	1 396	1 400	1 582	1 718	2 274
Turkey					
Rare earth compounds	126	132	140	289	225
Ferro-cerium & other pyrophoric alloys	0	2	14	193	140
United Kingdom					
Cerium compounds	555	592	1 233	1 916	2 060
Other rare earth compounds	555	641	683	398	377
Ferro-cerium & other pyrophoric alloys	18	11	9	3	...
Metals	237	197	168	323	137
South Africa					
Rare earth compounds	24	207	270	262	418
Canada					
Cerium compounds	510	515	563	553	418
Other rare earth compounds	154	231	381	191	241
USA					
Cerium compounds	1 891	4 097	4 816	2 768	6 798
Other rare earth compounds	7 880	12 068	18 538	13 493	13 599
Ferro-cerium & other pyrophoric alloys	77	89	119	136	131
Metals	299	791	368	426	794
Brazil					
Cerium compounds	274	464	371	...	...
Other rare earth compounds	1 280	1 166	...	1 638	2 064
Metals	268	357	430	747	533

Imports of Rare Earths

tonnes

Country	1994	1995	1996	1997	1998
China					
Ores & concentrates	60	1 606	10 673	22	4
Rare earth compounds	331	380	780	855	992
Ferro-cerium & other pyrophoric alloys	37	50	281	97	84
Metals	234	357	24	226	277
Hong Kong					
Rare earth compounds	804	830	601	540	525
Metals	...	...	...	329	340
Japan					
Cerium compounds	6 734	7 973	7 756	8 405	8 207
Other rare earth compounds	7 641	9 913	8 997	10 215	10 424
Metals	1 851	2 838	2 395	2 696	3 727
Korea, Republic of					
Cerium compounds	253	278	697	749	731
Other rare earth compounds	431	1 394	1 500	336	677
Metals	13	25	67	72	7
Singapore					
Rare earth compounds	...	...	...	824	635
Ferro-cerium & other pyrophoric alloys	...	...	...	731	728
Taiwan					
Ores & concentrates	367	129	147	72	63
Rare earth compounds	2 086	2 616	3 197	2 808	2 678
Ferro-cerium & other pyrophoric alloys	50	36	19	71	66
Metals	97	155	80	764	1 077
Thailand					
Rare earth compounds	38	89	288	206	...
Ferro-cerium & other pyrophoric alloys	79	69	84	94	...
Australia					
Rare earth compounds	156	127	156	97	103
Metals	19	133	9	12	9

Note(s) :-

(1) Rare earths are here taken to include yttrium and scandium

Production of Salt

Country	1994	1995	1996	1997	1998
Albania					
Sea salt	...	...	7 000	22 732	...
Armenia	40 000	32 800	26 428	22 642	24 911
Austria					
Rock salt	1 197	1 056	923	1 103	1 343
Salt in brine	224 898	263 292	...	...	...
Evaporated salt	516 455	523 044	(a) 755 000	(a) 704 000	(a) 734 000
Azerbaijan	20 000	10 000	10 000	2 500	5 500
Belarus (b)	...	882 363	913 313	1 203 162	798 000
Bosnia & Herzegovina	*50 000	*50 000	*50 000	*50 000	...
Bulgaria	1 300 000	1 500 000	1 600 000	1 600 000	2 400 000
Croatia	21 655	21 784	18 820	16 620	...
Czech Republic	*180 000	----	----	----	----
Denmark	583 000	576 000	590 000	540 000	*550 000
Finland	7 447	6 653	4 311	...	...
France					
Rock salt	143 000	165 000	308 000	315 000	*200 000
Brine salt	1 360 000	1 438 000	1 414 000	1 368 000	*1 500 000
Salt in brine	4 612 000	4 365 000	4 295 000	4 051 000	4 086 000
Sea salt	1 123 000	1 486 000	988 000	1 202 000	*1 200 000
Other salt	298 000	402 000	583 000	417 000	*400 000
Germany					
Rock salt	4 725 000	6 414 000	7 837 000	6 306 000	5 548 000
Brine salt	801 000	967 000	999 000	1 128 000	1 123 000
Salt in brine	5 006 000	5 050 000	5 015 000	5 420 000	5 440 000
Greece	192 000	143 351	138 239	173 886	208 000
Italy					
Rock salt & brine salt	3 396 155	3 430 374	3 528 120	3 594 549	3 354 000
Sea salt	1 255 686	990 688	*1 000 000	...	...
Netherlands	*3 500 000	4 976 000	5 530 000	*5 000 000	5 500 000
Poland					
Rock salt	750 300	812 100	922 700	790 700	748 100
Brine salt	2 575 200	2 603 200	2 449 200	2 468 700	2 535 700
Portugal					
Rock salt	519 432	587 288	604 396	595 997	597 038
Sea salt	101 220	...	91 049	73 497	79 032
Romania	2 201 161	2 489 300	2 688 900	2 612 000	...
Russia	2 200 000	3 100 000	1 900 000	*1 900 000	...
Slovakia	99 600	99 750	106 800	100 500	100 470
Slovenia	11 230	2 738	*5 000	*5 000	...
Spain					
Rock salt	1 973 068	2 214 680	2 216 482	2 305 062	(c) 3 620 000
Sea salt	1 421 514	1 376 154	1 119 796	1 192 935	...
Other salt	102 537	94 499	100 369	95 708	...
Switzerland	259 205	465 000	530 000	430 000	392 000
Turkey					
Rock salt	79 509	75 671	55 924	85 743	93 931
Sea salt	531 639	464 089	519 866	532 003	438 864
Other salt	742 158	902 290	1 403 624	1 726 253	1 636 831
Ukraine	3 300 000	2 867 100	2 847 800	2 622 900	2 310 970
United Kingdom					
Rock salt	*1 700 000	*1 800 000	*2 200 000	*1 800 000	*700 000
Brine salt	*1 300 000	*1 300 000	*1 300 000	*1 300 000	*1 300 000
Salt in brine (d)	4 009 000	3 548 000	3 512 000	3 561 000	*3 500 000
Yugoslavia, Federal Republic of					
Sea salt	32 086	13 500	21 646	28 000	19 305
Algeria					
Brine salt & sea salt	176 000	143 745	154 094	138 000	172 025
Angola	*30 000	*30 000	*30 000	*30 000	...
Botswana	185 986	208 126	93 886	184 533	214 700
Cape Verde Islands	3 056	...	1 710	3 957	...
Egypt (e)	1 007 495	1 193 000	1 148 200	1 232 000	1 380 000
Eritrea	207 836	254 701	200 412	252 072	114 136
Ethiopia (f)	*5 000	*5 000	*5 000	*1 000	...
Ghana	*50 000	*50 000	*50 000	*50 000	...
Kenya	75 757	73 484	41 000	6 280	21 742
Libya	*15 000	*30 000	*30 000	*30 000	...

Production of Salt

tonnes

Country	1994	1995	1996	1997	1998
Madagascar	75 783	51 907	41 750	36 762	29 764
Mali	*5 000	*5 000	*6 000	*5 000	...
Mauritania	*5 500	*5 500	*5 500	*5 500	...
Mauritius (g)	7 000	7 000	6 500	6 500	...
Morocco	176 442	173 049	165 393	257 500	107 604
Mozambique	*40 000	*40 000	*60 000	*60 000	...
Namibia	356 965	429 779	356 868	492 780	536 480
Senegal	1 718 800	1 682 500	1 624 900	1 705 900	1 700 400
Sierra Leone	...	4 839	5 519	1 345	2 325
Somalia	*1 000	*1 000	*2 000	*1 000	...
South Africa	414 463	311 388	289 859	320 000	356 059
Sudan	*75 000	*75 000	*50 000	*50 000	...
Tanzania	84 289	105 006	86 700	*90 000	...
Tunisia (g)	528 000	319 000	557 000	437 000	466 000
Uganda	*10 000	*10 000	*10 000	*10 000	...
Bahamas (b)	*1 000 000	1 038 768	*1 000 000	*1 000 000	...
Canada					
Rock salt	9 452 946	8 004 482	9 550 261	10 948 027	10 809 333
Other salt (a)	2 815 914	2 870 497	2 745 328	2 586 181	2 510 669
Costa Rica	31 700	32 200	37 000	*37 000	...
Cuba	*175 000	*180 000	*180 000	*180 000	*180 000
Dominican Republic					
Rock salt	10 296	10 806	11 330	*12 000	...
Sea salt	47 319	41 822	49 719	*50 000	...
El Salvador (g)	48 726	*50 000	*50 000	43 243	40 346
Guatemala (g)	49 600	50 800	*50 000	*50 000	*5 000
Honduras	*25 000	*25 000	*25 000	*25 000	*25 000
Mexico	7 458 414	7 669 549	8 508 148	7 932 772	8 412 063
Netherlands Antilles (b)	475 544	424 065	366 265	432 225	487 373
Nicaragua (g)	*15 000	*15 000	*15 000	13 619	15 132
Panama (g)	24 977	20 398	21 425	29 349	...
USA					
Rock salt (h)	14 900 000	13 000 000	14 500 000	12 200 000	...
Salt in brine (h)	18 000 000	20 500 000	21 500 000	21 400 000	(c) *40 700 000
Evaporated salt (h)	6 820 000	7 230 000	6 870 000	6 960 000	...
Argentina	837 129	1 009 697	1 096 321	857 724	850 500
Brazil					
Rock salt	1 372 780	1 340 000	1 514 153	1 452 000	1 484 000
Sea salt	4 670 000	4 460 000	3 870 000	5 064 000	5 353 000
Chile	3 177 898	3 494 451	4 042 796	5 488 135	6 207 266
Colombia					
Rock salt	93 639	119 092	152 642	141 923	165 699
Sea salt	116 361	162 315	423 513	232 085	330 404
Peru	150 293	125 651	293 308	79 492	220 310
Venezuela (g)	*400 000	*350 000	*350 000	*350 000	*350 000
Afghanistan (i)	*13 000	*13 000	*13 000	*13 000	...
Bangladesh (e)	695 000	952 000	42 984	31 874	33 986
Cambodia	*40 000	*40 000	*40 000	*40 000	...
China	29 960 000	29 777 200	29 035 700	31 623 000	25 530 000
India					
Rock salt	2 100	1 900	2 500	3 100	2 400
Sea salt	9 422 900	8 470 100	10 149 400	10 751 500	8 471 100
Other salt	2 919 200	4 072 000	4 314 200	3 496 500	3 490 900
Indonesia	*650 000	*670 000	*670 000	*680 000	...
Iran (i)	865 927	721 110	1 410 644	...	...
Iraq	*300 000	*250 000	*250 000	*250 000	...
Israel					
Rock salt	807 000	709 000	512 000	573 000	292 000
Sea salt	222 000	236 000	253 000	311 000	326 000
Japan	1 387 000	1 351 000	1 390 000	*1 400 000	...
Jordan (j)	19 000	57 000	50 000	61 000	194 845
Kazakhstan	530 000	310 000	230 000	*230 000	...
Korea, Dem. P.R. of	*600 000	*600 000	*590 000	*590 000	...
Korea, Republic of	*760 000	*770 000	*770 000	*770 000	...
Kuwait	37 000	33 767	33 537	...	...

Production of Salt

tonnes

Country	1994	1995	1996	1997	1998
Lebanon	*3 000	*3 000	*4 000	*4 000	...
Mongolia	200	497	429	1 354	103
Myanmar (g) (j)	*30 000	*35 000	*35 000	*35 000	...
Oman	13 098	14 317	12 429	13 048	13 778
Pakistan					
Rock salt (e)	1 041 551	887 991	975 490	1 010 605	1 024 907
Sea salt (e)	17 591	12 171	----	19 821	18 038
Philippines	530 769	612 858	618 481	686 514	727 754
Sri Lanka	55 700	*60 000	*65 000	*65 000	...
Syria	100 000	111 000	112 000	...	...
Taiwan	185 987	220 531	233 321	62 484	7 425
Tajikistan	70 000	70 000	50 000	*40 000	...
Thailand					
Rock salt	287 806	380 511	529 674	554 891	...
Other salt	*100 000	*100 000	*100 000	*100 000	...
Turkmenistan	360 000	276 912	255 788	216 500	...
Uzbekistan	380 000	100 000	60 000	*60 000	...
Vietnam	*375 000	*375 000	*375 000	*390 000	...
Yemen, Republic of	118 000	69 000	135 000	136 000	...
Australia (k)	7 792 000	8 298 000	7 993 000	8 801 000	9 000 000
New Zealand	*80 000	*50 000	*67 000	*67 000	...
World Total	192 300 000	196 700 000	203 800 000	204 600 000	196 400 000

Note(s):

- (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. Among these are Martinique and Nigeria

- (a) Including salt in brine
(b) Exports
(c) Salt; all forms
(d) Used for purposes other than salt-making
(e) Years ended 30 June of that stated
(f) Years ended 6 July of that stated
(g) Sea salt
(h) Sold or used by producers
(i) Years ended 20 March following that stated
(j) Brine salt
(k) Excluding Victoria and the Northern Territory

Exports of Salt

tonnes

Country	1994	1995	1996	1997	1998
Belarus	...	882 363	913 313	1 203 162	798 000
Belgium-Luxembourg	232 766	193 167	230 819	420 425	30 165
Bosnia & Herzegovina (a)	*1 400	...	*6 700	*10 100	*7 400
Bulgaria	118 700	112 200	*120 000	*120 000	...
Croatia	3 000	2 674	3 326	9 141	2 493
Czech Republic	11 800	13 900	17 800	17 046	16 031
Denmark	345 531	325 569	335 686	327 368	275 254
France	598 955	605 536	796 564	673 761	591 511
Germany	2 839 848	2 698 101	2 852 410	2 576 659	2 750 863
Greece	8 391	17 049	25 683	21 649	29 445
Hungary	3 000	2 100	3 069	1 839	437
Iceland	791	521	3 985	3 314	2 437
Italy	333 685	314 116	292 480	186 050	265 377
Lithuania	2 200	2 000	2 500	3 620	4 928
Netherlands	2 501 219	3 714 195	3 340 723	3 059 922	702 831
Norway	4 357	3 397	5 511	5 118	9 567
Poland	469 405	530 577	513 300	390 700	...
Portugal	10 966	5 700	16 085	25 600	13 048
Romania	299 024	397 903	565 510	585 665	439 530
Russia	29 000	26 000	14 343	15 577	13 108
Slovakia	41 500	*42 000	51 173	50 938	52 000
Spain	592 762	729 857	896 043	714 877	669 534
Sweden	2 301	54 306	1 774	1 884	1 989
Switzerland	22 969	86 792	73 243	38 160	35 844
Turkey	4 409	10 084	10 706	13 061	17 674
Ukraine	1 100 000	1 464 187	1 424 393	1 367 601	1 012 089
United Kingdom	210 004	455 119	447 154	284 571	442 876
Algeria	100	----	3 420	9 520	28 181
Botswana	...	...	...	107 291	...
Egypt	446 877	266 400	298 527	269 661	...
Kenya	83 374	100 335	109 474	109 375	123 796
Madagascar	13 666	10 814	*11 000	827	----
Morocco	54 158	54 796	64 601	11 189	...
Namibia	61 932	78 960	38 454	37 276	62 384
Senegal	167 427	188 271	155 543	83 588	81 902
South Africa	5 086	2 157	1 294	2 639	1 872
Tunisia	357 524	403 433	428 104	347 679	...
Uganda	...	...	1 039	451	1 806
Bahamas	*1 000 000	1 038 768	*1 000 000	*1 000 000	...
Canada	3 639 220	2 987 612	3 818 652	3 635 862	4 190 782
Jamaica	3 843	4 048	3 930	3 209	2 139
Mexico	7 130 497	7 179 256	7 609 782	6 105 698	6 442 297
Netherlands Antilles	475 544	424 065	366 265	432 225	487 373
USA	713 129	670 906	898 502	771 095	728 642
Argentina	43 855	47 060	44 226	50 455	40 503
Brazil	223 615	130 267	163 766	273 469	444 608
Chile	2 985 664	1 214 742	3 922 438	3 037 461	2 059 050
Colombia	1 006	22 011	94 732	61 681	76 007
Peru	20 290	17 397	155 338	539 441	*320 000
China	234 214	336 650	365 417	235 058	332 649
Hong Kong (c)	8 702	5 488	4 306	13 311	1 495
India (b)	437 959	259 282	392 421	244 359	...
Indonesia	1 680	20 475	28 673	15 081	23 252
Iran (e)	76 623	112 423	...	88 966	...
Israel (a)	*132 000	*53 000	*56 000	*125 000	*79 000
Japan	1 503	1 634	2 225	2 046	1 875
Jordan	793	1 475	2 064	18 333	...
Kazakhstan	54 000	17 000	37 000	(a) *31 000	(a) *12 000
Korea, Republic of	931	10 094	29 448	34 734	19 483
Kuwait	100	198	1 490	3 182	...
Malaysia	15 858	2 800	5 200	...	...
Pakistan (d)	*32 000	*42 000	32 999	40 042	145 315
Saudi Arabia	3 629	5 500	11 082	10 062	...

Exports of Salt

Country	1994	1995	1996	1997	1998
Singapore	12 112	7 538	6 217	5 990	3 497
of which, re-exports	10 662	6 900	5 842	5 572	3 381
Thailand	85 800	70 522	63 806	60 608	...
Yemen, Republic of	*20 000	*20 000	*20 000	*20 000	...
Australia	7 259 430	7 648 946	7 651 312	8 187 274	8 700 065
New Zealand (d)	13 299	14 917	13 088	16 467	20 139

Note(s):

- (a) BGS estimates, based on known imports into certain countries
- (b) Years ended 31 March following that stated
- (c) Re-exports
- (d) Years ended 30 June of that stated
- (e) Years ended 20 March following that stated

Imports of Salt

tonnes

Country	1994	1995	1996	1997	1998
Austria	...	...	...	83 561	82 949
Belarus	...	50 695	63 671	53 000	54 400
Belgium-Luxembourg	1 393 656	1 490 943	1 862 162	3 614 738	3 602 237
Bulgaria	118 700	118 473	120 119	105 128	...
Croatia	*60 000	67 427	102 138	110 510	79 927
Czech Republic	518 764	585 100	724 600	628 270	552 813
Denmark	382 222	349 251	444 177	273 186	249 388
Estonia	*60 000	60 299	65 000	95 000	...
Faeroe Islands	17 758	22 263	22 623	18 235	16 284
Finland	425 493	422 518	342 313	413 004	404 295
France	308 881	363 293	462 937	599 152	559 453
Germany	1 142 224	1 813 085	1 673 685	1 792 547	1 583 346
Greece	99 978	92 130	140 162	144 966	149 344
Greenland	2 672	2 679	2 422	4 071	3 042
Hungary	464 159	434 814	627 424	551 789	418 601
Iceland	89 068	95 194	90 996	87 194	94 408
Irish Republic	61 828	76 576	96 700	100 635	90 066
Italy	729 946	564 006	648 456	673 571	656 656
Latvia	66 739	56 416	76 002	81 501	91 179
Lithuania	120 500	106 600	139 579	167 029	168 245
Macedonia	49 500	*50 000	*50 000	*50 000	...
Malta	2 760	1 305	1 810	1 682	3 132
Moldova	31 372	39 502	48 849	52 164	39 151
Netherlands	430 097	282 981	499 651	452 393	324 111
Norway	735 202	692 406	675 715	683 521	703 443
Poland	19 210	31 273	81 800	81 700	...
Portugal	111 258	73 000	40 819	90 057	105 823
Romania	903	1 026	2 176	1 229	644
Russia	*800 000	*900 000	902 966	840 626	625 397
Slovakia	182 000	180 600	199 200	129 300	160 100
Slovenia	58 008	78 400	129 811	120 618	91 314
Spain	20 708	20 841	21 906	25 460	37 542
Sweden	1 171 627	1 059 590	1 095 521	808 890	947 996
Switzerland	3 037	1 267	4 000	4 685	5 114
Turkey	17 690	7 454	3 504	4 660	7 643
United Kingdom	225 757	238 599	316 796	242 368	225 656
Yugoslavia, Federal Republic	(a) *94 700	...	200 191	268 677	217 349
Benin	*3 000	*3 000	*3 000	*3 000	...
Botswana	...	...	...	2 138	...
Burkina Faso	27 000	28 000	28 133	36 996	39 945
Burundi	*10 000	*10 000	*10 000	*10 000	...
Cameroon	*50 000	47 767	38 756	*38 800	...
Central African Republic	5 083	4 764	3 288	*3 300	...
Congo	7 300	5 300	*7 900	*7 900	...
Egypt	700	1 200	1 800	2 369	...
Malawi	24 744	25 392	*25 000	*25 000	*25 000
Mauritius	900	1 100	1 700	1 400	...
Morocco	638	666	778	6 781	...
Nigeria	*300 000	*300 000	330 235	*300 000	*300 000
Reunion	2 501	2 900	2 900	*2 900	...
Rwanda	...	...	...	16 609	16 388
South Africa	108 461	153 413	170 360	84 602	119 775
Uganda	*55 000	*55 000	61 092	41 913	108 080
Zimbabwe	59 893	67 181	69 662	80 155	81 293
Barbados	2 225	1 918	2 053	2 180	1 848
Belize	811	868	921	1 030	1 261
Canada	940 130	1 294 921	1 137 699	1 269 550	978 145
Costa Rica	7 237	6 397	19 555	15 057	...
Dominica	486	747	713	825	356
El Salvador	2 124	1 982	6 591	4 984	3 581
Guadeloupe	2 476	2 196	2 419	2 259	2 577
Guatemala	262	738	3 970	7 265	4 902
Jamaica	11 659	16 919	28 351	11 784	23 201
Martinique	2 494	2 394	2 590	2 365	2 196
Mexico	78 060	55 449	46 280	63 715	64 858
Netherlands Antilles	540	*500	*500	*500	...

Imports of Salt

Country	1994	1995	1996	1997	1998
Panama	2 619	806	1 753	6 661	3 159
St. Lucia	706	812	771	645	...
St. Pierre & Miquelon	661	1 512	542	1 183	1 141
Trinidad & Tobago	5 800	17 664	7 400	24 525	...
USA	9 582 734	7 095 451	10 625 971	9 166 803	8 815 490
Brazil	12 228	79 890	62 894	363 730	207 418
Colombia	86 634	37 930	85 495	79 569	73 563
French Guiana	532	511	474	571	...
Paraguay	7 637	2 922	1 723	...	...
Suriname	2 242	1 624	1 706	2 088	...
Uruguay	61 432	45 051	92 117	85 565	87 424
Venezuela	111 595	144 792	148 938	147 293	...
Abu Dhabi	1 727	2 196	2 604	3 211	3 386
Bahrain	3 500	*3 500	*3 500	10 295	12 366
Bangladesh (b)	*50 000	*50 000	*50 000	56 568	...
China	5 390	8 243	3 671	6 299	4 432
Cyprus	7 687	7 462	8 099	6 699	13 318
Hong Kong	126 745	82 535	81 282	64 086	60 345
India (c)	16 335	20 654	22 051	1 236	...
Indonesia	587 829	590 504	633 984	748 440	907 997
Japan	7 457 918	8 063 196	7 725 601	7 909 159	7 913 795
Korea, Dem. P.R. of (a)	*8 000	*128 000	*136 000	*61 000	*78 000
Korea, Republic of	1 493 466	1 644 014	1 841 069	1 874 890	2 144 680
Kuwait	9 659	7 182	10 502	10 482	...
Kyrgyzstan	...	15 300	14 559	*14 600	...
Laos	...	...	28 770	31 877	...
Macao	2 379	2 207	2 349	2 119	...
Malaysia	226 699	267 800	270 000	*270 000	...
Oman	3 392	3 800	9 345	3 335	4 248
Philippines	257 398	186 514	336 027	352 914	...
Qatar	5 600	5 557	5 143	5 852	...
Saudi Arabia	10 917	10 657	10 620	11 530	18 160
Singapore	74 129	72 877	65 382	139 094	55 711
Taiwan	788 231	893 861	851 495	991 491	1 301 310
Thailand	35 808	1 065	33 587	55 242	...
Australia	9 428	10 263	10 936	12 522	12 310
Fiji	7 600	5 000	*5 000	*5 000	...
New Caledonia	849	840	877	1 199	972
New Zealand (b)	76 433	108 173	...	65 728	121 844
Papua New Guinea	...	...	8 660	21 895	...
Solomon Islands	1 920	709	868	1 803	...

Note(s) :-

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

(b) Years ended 30 June of that stated

(c) Years ended 31 March following that stated

Production of Sillimanite Minerals

tonnes

Country	1994	1995	1996	1997	1998
France					
Andalusite	57 000	71 000	81 000	67 200	...
Spain					
Andalusite	*1 000	*1 200	*250	*220	...
South Africa					
Andalusite	206 291	206 378	233 728	251 203	238 977
Sillimanite	525	317	497	-----	65
Zimbabwe					
Kyanite	567	875	140	1 113	3 780
USA					
Kyanite (a)	*90 000	*90 000	*90 000	*90 000	90 000
Brazil					
Kyanite (b)	664	758	705	*700	*700
China (c)	7 036	2 183	8 513	9 675	7 687
India					
Kyanite (d)	4 564	8 944	7 055	6 068	5 861
Sillimanite (d)	9 982	9 086	8 528	12 458	12 070
Australia					
Kyanite	*800	*800	*800	*800	*800
Sillimanite (e)	*100	*100	*100	*100	*100

Note(s):

- (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 known to be produced in Denmark, France, Hungary, Japan, former Yugoslavia, United Kingdom and the USA

- (a) Including related minerals
(b) Including beneficiated and directly shipped material
(c) Exports
(d) Years ended 31 March following that stated
(e) Excluding sillimanite clay

Exports of Sillimanite Minerals

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg	284	30	402	941	2 663
France	47 887	54 301	62 842	56 347	51 279
Germany	8 307	7 987	6 492	7 440	8 081
Italy	322	...	...	352	487
Netherlands	3 575	5 649	...	2 669	6 787
United Kingdom	5 057	7 858	8 356	7 442	6 800
South Africa					
Andalusite	139 844	148 551	158 526	163 234	145 758
Sillimanite	678	182	34	----	38
Canada					
Mullite	----	3 979	6 395	4 703	4 332
USA					
Sillimanite	38 656	36 022	35 003	36 234	30 143
Mullite	6 633	11 565	20 465	20 100	37 918
China	7 036	2 183	8 513	9 675	7 687
India (a)	1 202	1 260	794	545	...
Japan	5 255	10 112	6 529	4 577	2 474

Note(s):

(1) In this table 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

(a) Years ended 31 March following that stated

Imports of Sillimanite Minerals

tonnes

Country	1994	1995	1996	1997	1998
Austria	3 346	3 486	3 256	2 414	11 483
Belgium-Luxembourg	7 439	7 915	8 211	6 430	9 199
Czech Republic	...	...	...	2 767	3 281
Denmark	1 234	2 497	1 235	1 658	3 306
Finland	1 134	826	165	108	62
France	7 161	7 950	5 141	3 286	3 091
Germany	89 765	80 570	47 939	43 196	58 525
Irish Republic	2 504	7 414	6 622	1 800	3 809
Italy	20 631	...	...	50 912	70 741
Netherlands	17 542	7 625	...	7 622	28 365
Norway	2 660	3 359	3 598	3 017	2 314
Poland	13 297	19 827	16 461	15 643	...
Slovakia	(b) *400	(b) *900	...	1 785	54 778
Spain	17 115	15 224	...	14 865	17 956
Sweden	2 713	...	...	7 557	7 363
Switzerland	363	359	452	352	440
Turkey	7 101	8 161	2 063	3 523	...
United Kingdom					
Sillimanite minerals	39 487	56 289	52 229	53 877	46 869
Mullite	22 133	28 921	17 765	12 922	8 289
Canada	8 809	12 180	15 103	*20 000	22 181
Mexico					
Sillimanite minerals	2 396	2 356	2 962	2 810	2 300
Mullite	2 521	2 433	2 666	3 207	3 785
USA	7 872	8 298	18 682	14 006	15 596
China	336	492	861	1 643	1 096
Hong Kong	28 151	65 704	20 918	27 304	15 770
India (a)	5	1 100	1 585	1 364	...
Japan					
Sillimanite minerals	27 067	21 765	25 316	27 722	24 879
Mullite	6 148	2 746	4 049	6 464	4 826
Korea, Republic of					
Sillimanite minerals	10 582	13 611	11 646	12 160	10 784
Mullite	4 895	10 664	7 098	5 462	2 670
Taiwan					
Sillimanite minerals	6 580	5 613	7 539	8 400	7 810
Mullite	1 071	1 021	684	547	538
Thailand					
Mullite	54	12 784	...	7 177	...
Australia					
Sillimanite minerals	4 484	8 420	6 696	6 679	4 265
Mullite	9 114	117	86	109	141

Note(s) :-

(1) In this table 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite

(a) Years ended 31 March following that stated

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

Mine Production of Silver

kilograms (metal content)

Country	1994	1995	1996	1997	1998
Bulgaria	*29 000	*30 000	48 770	31 530	23 790
France	2 861	3 507	2 718	2 402	1 000
Germany	1 800	-----	-----	-----	...
Greece	44 900	*33 000	16 700	37 300	44 000
Irish Republic	17 400	13 700	14 700	13 300	10 800
Italy	13 700	13 900	9 100	4 400	*4 000
Macedonia	12 978	*10 000	*10 000	*10 000	*10 000
Poland (a)	1 064 000	1 001 000	935 000	1 038 000	1 097 000
Portugal	31 800	38 600	33 700	33 900	32 000
Romania	*18 000	*18 000	*18 000	*18 000	*18 000
Russia	490 000	480 000	*500 000	*500 000	*400 000
Spain	335 100	175 730	204 015	142 520	...
Sweden	275 224	268 200	271 866	304 048	299 051
Turkey	*60 000	53 000	71 000	90 000	87 000
Yugoslavia, Federal Republic of (a)	18 298	31 054	68 805	42 640	34 474
Algeria	*3 000	2 000	1 600	*1 500	*1 500
Congo, Democratic Republic	*1 000	-----	-----	-----	-----
Ghana	1 200	1 200	*1 200	*1 300	*1 400
Morocco	325 500	204 000	199 000	261 000	306 000
Namibia	62 224	65 847	42 300	41 000	16 000
South Africa	197 767	174 316	168 689	144 004	144 482
Tunisia	*1 000	2 500	1 500	100	400
Zambia	12 166	7 875	9 600	6 900	7 700
Zimbabwe	10 942	15 640	9 982	5 923	6 681
Canada	767 842	1 284 757	1 308 758	1 223 953	1 178 560
Dominican Republic	9 209	21 066	17 080	12 400	7 400
Honduras	27 634	30 202	36 378	42 809	42 898
Mexico (b)	2 334 181	2 502 705	2 536 465	2 701 329	2 868 099
Nicaragua	2 628	1 101	790	1 005	1 278
Panama	259	569	1 307	2 178	*2 000
USA	1 485 900	1 564 900	1 570 200	2 181 600	2 064 600
Argentina	38 032	47 783	50 399	52 550	35 768
Bolivia	352 083	425 053	384 384	387 200	403 961
Brazil	14 760	13 000	12 000	10 000	10 000
Chile	983 005	1 041 098	1 147 002	1 091 311	1 340 199
Colombia	5 898	5 915	6 407	3 515	5 218
Peru	1 768 199	1 928 853	1 976 536	2 090 311	2 024 570
China	810 000	910 000	1 140 000	1 300 000	*1 400 000
India (a) (c)	45 911	35 531	39 689	53 925	55 363
Indonesia	107 026	265 212	255 404	270 392	348 974
Iran	*60 000	*60 000	*46 000	*50 000	*55 000
Japan	133 713	100 078	85 115	87 180	94 472
Kazakhstan	408 400	371 000	414 310	389 576	535 800
Korea, Dem. P.R. of	*50 000	*50 000	*50 000	*50 000	*50 000
Korea, Republic of	8 600	179	-----	42	957
Malaysia	13 342	11 079	9 720	9 647	7 285
Mongolia	*21 000	*21 000	*21 000	*21 000	*21 000
Myanmar (a) (c)	5 101	4 417	3 670	4 040	*3 400
Oman	4 700	97	-----	-----	-----
Philippines	29 963	28 843	23 987	19 994	18 220
Saudi Arabia	17 000	16 900	16 600	16 900	13 844
Thailand	*10 000	-----	-----	-----	-----
Uzbekistan	60 000	50 000	*50 000	*50 000	*50 000

Mine Production of Silver

Country	1994	1995	1996	1997	1998
Australia	1 045 000	939 000	1 013 000	1 106 000	1 474 000
Fiji	1 498	2 078	1 984	2 654	1 787
New Zealand	27 589	27 794	29 340	31 684	22 681
Papua New Guinea	65 695	65 153	59 036	49 165	57 527
World Total	13 744 000	14 468 000	14 945 000	16 042 000	16 900 000

Note(s):

(1) Countries producing less than 1000 kg per year include Croatia, for the period 1994-95, and the Czech Republic and Finland in 1994

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

Exports of Silver

Country	1994	1995	1996	1997	1998
Austria					
Metal	45 608	41 576	52 016	54 900	57 500
Belgium-Luxembourg					
Metal	1 160 816	1 403 148	1 313 552	1 229 800	773 400
Bulgaria					
Metal (d)	*35 500	*21 300	*22 700	*14 300	*18 800
Denmark					
Metal	13 565	13 133	56 957	60 194	97 904
Estonia					
Waste & scrap	(d) *78 200	271 836	...	...	...
Finland					
Metal	26 000	18 000	24 000	25 785	7 447
France					
Metal	916 209	1 143 329	1 072 677	908 700	725 000
Waste & scrap	...	369 949	827 476	1 098 369	612 503
Germany					
Metal	1 223 059	1 375 651	1 020 727	1 168 100	2 022 300
Italy					
Metal	285 194	...	...	453 461	569 198
Latvia					
Metal	882	1 153	495	----	----
Lithuania					
Metal	...	£7 000	£20 000	£1 000	£6 000
Macedonia					
Metal (d)	*5 600	*1 000	*10 100	*11 000	*9 300
Netherlands					
Metal	84 515	59 438	...	...	...
Norway					
Metal	77 286	77 178	106 519	102 917	92 509
Poland					
Ores & concentrates	85 000	----	...	...	...
Metal	976 000	897 000	891 000	929 000	...
Portugal					
Metal	...	...	86	4 687	416
Russia					
Ores & concentrates	...	...	...	----	4 398 062
Metal	...	558 300	547 600	...	(d) *985 700
Waste & scrap	(d) *77 400	254 800	69 400	...	...
Slovakia					
Metal (d)	...	*1 000	...	*2 900	*3 100
Spain					
Metal	263 790	264 996	...	360 915	423 041
Sweden					
Metal	309 000	...	...	260 000	282 000
Switzerland					
Metal	2 382 396	2 528 421	3 025 378	2 440 242	...
Turkey					
Metal	400	10 534	401	...	647
United Kingdom					
Metal	2 125 135	2 156 844	3 155 901	3 187 801	2 021 591
Yugoslavia, Federal Republic of					
Metal	...	...	...	36 000	7 106
Morocco					
Metal	237 000	242 000	205 000	270 741	...
Namibia					
Metal	62 000	66 848	42 704	40 188	13 980
South Africa					
Metal	178 525	148 477	137 558	179 321	143 505
Canada					
Ores & concentrates (e)	142 129	229 119	224 056	216 990	141 206
Metal	1 097 464	1 209 950	1 450 625	1 262 953	1 625 501
Dominican Republic					
Metal	9 209	21 066	17 080	12 400	7 400
Honduras					
Concentrates (e)	27 634	30 202	36 378	42 809	42 898

Exports of Silver

kilograms

Country	1994	1995	1996	1997	1998
Mexico					
Ores & concentrates	104 514	370 650	774 000	1 378 586	3 496 444
Metal	1 262 115	...	1 800 451	...	2 345 477
USA					
Ores & concentrates (b)	196	741	1 544	35 003	13 917
Metal	1 558 883	3 703 425	3 534 291	4 044 085	3 055 422
Waste & scrap	1 151 138	1 573 549	1 273 699	1 021 496	1 064 176
Bolivia					
Ores & concentrates	2 204 297	2 627 661	*2 394 000	*2 375 000	*2 532 000
Metal	86 536	80 974	69 882	72 310	77 838
Brazil					
Metal	91 479	114 752	57 024	58 534	48 772
Chile					
Metal	624 149	640 119	729 475	731 261	779 744
Peru					
Metal	584 800	658 083	710 930	686 932	731 739
Venezuela					
Metal	80 839	29 911	...	...	...
China					
Metal	22 327	15 970	6 418	26 688	88 574
Hong Kong					
Metal	86 187	60 118	43 121	50 419	345 428
of which, re-exports	85 999	59 617	42 781	50 359	250 087
India					
Metal (c)	768	780	1 040	5 149	...
Indonesia					
Metal	196 019	73 719	38 065	13 255	164 350
Israel					
Metal (d)	*600	...	*2 200	*8 500	*1 600
Japan					
Metal	222 401	206 058	217 256	316 901	368 422
Waste & scrap	12 274	14 158	110	164 140	187 317
Kazakhstan					
Metal	(d) *507 900	90 694	132 154	254 209	448 981
Korea, Dem. P.R. of					
Metal (d)	*600	*3 200	...	...	*7 300
Korea, Republic of					
Metal	151 937	239 444	389 495	249 024	454 500
Malaysia					
Metal	18 010	2 480	407	...	...
Oman					
Metal	...	4 490	3 702	3 471	...
Philippines					
Ores & concentrates (b)	20 210	20 948	9 821	7 803	...
Metal	1 304	6 887	2 541	5 470	...
Singapore					
Metal	566 727	1 503 166	1 790 424	1 290 904	827 385
of which, re-exports	553 077	1 448 844	1 705 454	1 257 720	768 599
Taiwan					
Metal	4 979	12 088	8 540	12 206	2 867
Thailand					
Metal	13 646	4 645	5 667	30 298	...
Uzbekistan					
Metal (d)	*40 000	...	*300	*32 800	*1 300

Exports of Silver

Country	1994	1995	1996	1997	1998
Australia					
Ores & concentrates	22 255	-----	13 834	1	-----
Metal (f)	198 601	204 691	320 539	215 817	374 792
New Zealand					
Metal (a)	3 727	931	1 413	3 563	2 704
Papua New Guinea					
Metal	77 758	68 306	58 131	45 426	65 247

Note(s):

- (1) This table excludes silver coin but includes silver shipped for minting
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

- (a) Years ended 30 June of that stated
(b) Ag content
(c) Years ended 31 March following that stated
(d) BGS estimates, based on known imports into certain countries
(e) Ag content of all ores and concentrates
(f) Silver content of refined bullion and welding or brazing rods

Imports of Silver

kilograms

Country	1994	1995	1996	1997	1998
Austria					
Metal	153 157	93 864	80 321	88 100	125 200
Belgium-Luxembourg					
Ores & concentrates	272 100	354 000	...	13 800	16 900
Metal	1 734 875	2 718 609	2 717 000	2 544 300	2 366 500
Bulgaria					
Metal (c)	*600	-----	*300	*100	*900
Croatia					
Metal	...	£312 000	£200 000	£501 000	£326 000
Czech Republic					
Metal (c)	...	*17 200	*23 000	*48 200	*80 700
Denmark					
Metal	113 409	148 611	135 017	143 604	109 846
Estonia					
Metal	...	6 033	(c) *5 100	(c) *10 400	(c) *4 000
Faeroe Islands					
Metal	...	127	175	224	275
Finland					
Metal	91 000	66 000	113 000	91 170	72 799
France					
Metal	1 175 202	1 724 937	1 933 921	1 786 800	1 326 300
Waste & scrap	...	200 600	482 889	241 900	682 847
Germany					
Ores & concentrates	-----	1 000	-----	1 041 400	5 027 600
Metal	1 015 686	1 267 012	1 074 428	1 233 100	1 728 800
Hungary					
Metal	...	...	11 177	1 641	8 132
Iceland					
Metal	471	497	633	600	...
Irish Republic					
Metal	13 819	8 684	5 903	37 893	15 907
Italy					
Ores & concentrates	460 800	239 274	26 845	...	...
Metal	801 245	...	...	1 245 426	1 171 220
Lithuania					
Metal	...	£79 000	£88 000	£130 000	£128 000
Malta					
Metal	3 208	2 637	2 242	...	...
Netherlands					
Metal	157 459	139 482	...	...	...
Norway					
Metal	95 821	125 114	119 114	104 085	128 173
Portugal					
Metal	...	...	1 497	98 115	81 514
Slovakia					
Metal	(c) *1 400	(c) *2 600	(c) *5 700	(c) *8 000	22 226
Slovenia					
Metal	...	(c) *6 400	9 152	11 325	61 000
Spain					
Ores & concentrates	18 000	21 000	28 512	28 165	33 340
Metal	750 466	567 432	...	702 290	813 653
Sweden					
Metal	213 000	...	...	145 000	176 000
Switzerland					
Metal	2 133 101	1 330 260	3 714 520	1 836 921	...
Turkey					
Metal (b)	12 317	47 473	43 586	38 757	53 677
Ukraine					
Metal (c)	*60 000	*700	*1 300	*500	*1 100
United Kingdom					
Metal	1 587 047	4 327 315	2 876 985	3 310 292	6 783 957
South Africa					
Metal	16 783	15 810	25 995	20 436	17 737
Tunisia					
Metal	8 579	...	11 262	14 702	...

Imports of Silver

Country	1994	1995	1996	1997	1998
Canada					
Ores & concentrates (d)	158 980	297 796	393 683	276 680	242 298
Metal	175 330	152 857	97 148	302 593	235 852
Costa Rica					
Metal	327	283	445	148	...
Jamaica					
Metal	375	920	1 263	260	856
Panama					
Metal	3 807	2 316	3 235	...	...
USA					
Ores & concentrates (d)	494 901	580 821	517 637	413 663	425 900
Metal	2 564 378	3 176 769	3 011 695	2 702 658	3 630 615
Waste & scrap	1 072 717	2 144 722	1 808 928	1 528 969	1 783 572
Argentina					
Metal	24 568	...	...	25 922	...
Brazil					
Metal	198 272	246 677	198 508	226 606	176 853
Chile					
Metal	758	590	826	1 130	1 059
Venezuela					
Metal	7 219	13 643	12 245	...	...
Abu Dhabi					
Metal	5 275	4 236	5 306	283	----
China					
Ores & concentrates	...	941 000	59 000	47 067	1 513 479
Metal	47 891	59 250	87 086	125 421	156 479
Cyprus					
Metal	11 478	12 287	13 640	10 512	11 168
Hong Kong					
Metal	157 682	208 350	190 362	250 072	204 899
India					
Metal (a)	1 419 048	1 900 582	1 888 255	2 659 959	...
Indonesia					
Metal	11 399	850	3 190	8 752	...
Israel					
Metal (c)	*48 700	*35 000	*87 500	*93 700	*85 300
Japan					
Ores & concentrates	5 116 000	10 301 000	14 918 000	21 143 000	12 401 000
Metal	1 153 245	1 360 605	1 493 522	1 787 141	1 098 083
Waste & scrap	685 257	764 498	15 125 733	18 296 905	17 679 525
Jordan					
Metal	27	311	17	106	...
Korea, Republic of					
Metal	302 527	439 064	451 261	340 196	73 322
Malaysia					
Metal	59 296	...	...	...	...
Pakistan					
Metal	£12 000	£6 132 000	£7 097 000	...	...
Philippines					
Metal	----	6 778	10 684	6 717	...
Saudi Arabia					
Metal	3 117	4 362	19 505	7 214	1 831
Singapore					
Metal	902 527	882 055	938 284	728 498	450 818
Taiwan					
Metal	214 059	271 686	256 352	481 051	262 574
Thailand					
Metal	7 460 876	874 972	459 887	526 308	...

Imports of Silver

kilograms

Country	1994	1995	1996	1997	1998
Australia					
Metal	£18 908 000	£6 556 000	£5 628 000	£4 262 000	£15 603 000
New Zealand					
Metal (e)	51 946	46 072	...	39 927	45 847

Note(s) :-

- (1) This table excludes silver coin but includes silver shipped for minting
(2) In this table the term 'metal' includes both unwrought and partly worked silver and alloys

- (a) Years ended 31 March following that stated
(b) Including gilt
(c) BGS estimates, based on known exports from certain countries
(d) Ag content of all ores and concentrates
(e) Years ended 30 June of that stated

Production of Sulphur and Pyrites

tonnes (sulphur content)

Country	1994	1995	1996	1997	1998
Albania					
Pyrites	1,323	1,059	...	...	...
Austria					
Recovered (c)	*6,500	*1,500	...	...	...
Recovered (d)	9,266	10,304	3,122	11,098	10,045
Belgium					
Recovered (c) (d)	302,000	347,000	406,000	430,000	428,000
Bulgaria					
Pyrites	*50,000	*50,000	*50,000	*50,000	*60,000
Recovered	*50,000	*50,000	*50,000	...	...
Czech Republic					
Recovered	35,984	35,091	35,593	33,874	...
Denmark					
Recovered (d)	7,131	8,050	7,461	3,875	3,312
Finland					
Pyrites	369,504	385,104	357,646	325,000	340,000
Recovered (c)	216,000	215,000	291,000	307,000	296,000
Recovered (d)	41,109	36,908	48,675	50,000	45,000
France					
Recovered (d)	1,084,000	1,065,000	989,700	958,800	868,800
Recovered (e)	*100,000	106,000	99,000	*100,000	*100,000
Germany					
Recovered (c)	78,800	85,800	83,800	79,800	90,200
Recovered (d)	1,270,700	1,433,200	1,463,400	1,497,500	1,612,200
Recovered (e)	51,500	43,600	43,400	45,000	48,500
Greece					
Pyrites	11,987	8,432	4,437	...	...
Recovered (d)	109,000	109,000	127,000	145,000	150,000
Hungary					
Recovered	30,890	28,799	27,000	32,000	31,000
Italy					
Pyrites	108,600	----	----	----	...
Recovered (d)	*300,000	*300,000	*300,000	*300,000	*300,000
Macedonia					
Recovered	*6,000	*6,000	*6,000	*6,000	*6,000
Netherlands					
Recovered (c)	*125,000	*125,000	*150,000	*150,000	*150,000
Recovered (d)	*300,000	*300,000	*150,000	137,600	...
Norway					
Pyrites	*400	----	----	----	...
Recovered (c) (d)	91,000	*100,000	*100,000	110,000	*100,000
Poland					
Frasch	2,128,700	2,391,700	1,732,500	1,676,000	1,348,000
Recovered (c)	221,100	239,000	242,000	256,400	...
Recovered (d)	34,000	33,100	37,400	43,900	56,600
Portugal					
Pyrites	*5,000	*5,000	*5,000	*5,000	*5,000
Recovered	*4,000	*4,000	*4,000	*3,000	...
Romania					
Pyrites	147,985	96,652	49,116	52,000	20,000
Recovered	# 56,000	59,000	68,000	43,000	46,000
Russia					
Pyrites	699,000	459,000	400,000	417,000	402,000
Recovered (d)	2,510,000	2,747,000	2,518,000	2,978,000	3,718,000
Recovered (e)	320,000	333,000	324,000	344,000	368,000
Sulphur ore	...	...	9,564	9,410	...
Spain					
Pyrites	342,170	403,342	479,063	445,201	400,000
Recovered (c)	268,691	282,111	419,942	456,000	461,000
Recovered (d)	160,000	160,000	249,694	...	...
Sweden					
Recovered (c) (d)	*165,000	*165,000	*140,000	*160,000	...
Sulphur ore	44,551	48,819	49,982	57,773	...
Turkey					
Pyrites	*27,000	163,000	255,000	241,000	*300,000
Recovered (d) (e)	*30,000	*46,000	*50,000	*40,000	...
Sulphur ore	16,673	----	----	----	...

Production of Sulphur and Pyrites

tonnes (sulphur content)

Country	1994	1995	1996	1997	1998
Ukraine					
Sulphur ore	300,000	237,600	168,100	99,700	96,900
United Kingdom					
Recovered (c)	72,000	62,300	44,700	39,200	40,500
Recovered (d)	162,000	140,000	132,000	177,000	184,000
Yugoslavia, Federal Republic of					
Pyrites	1,000	1,000	1,000	*1,000	...
Recovered (c)	*110,000	*110,000	*110,000	*100,000	...
Recovered (d)	*1,000	*1,000	*1,000	*1,000	...
Algeria					
Recovered (d)	*20,000	*20,000	*20,000	*20,000	*20,000
Egypt					
Recovered (d)	4,200	*4,000	4,000	3,000	2,000
Libya					
Recovered (d)	*14,000	*14,000	*14,000	...	...
Namibia					
Pyrites	60,817	51,330	45,338	47,300	14,100
South Africa					
Pyrites	252,000	158,000	184,000	167,253	125,000
Recovered (c) (d) (f)	327,000	348,000	342,000	351,000	351,000
Zambia					
Pyrites (a)	27,648	25,143	*33,000	*29,000	----
Recovered (c)	49,000	61,000	41,000	52,000	52,000
Zimbabwe					
Pyrites	29,800	29,700	25,100	20,200	22,200
Recovered	*4,500	*4,500	*5,000	*5,000	...
Canada					
Recovered (c)	1,048,341	1,083,046	1,043,847	1,032,519	*1,050,000
Recovered (d)	7,974,838	7,934,945	8,445,949	8,413,936	8,542,000
Cuba					
Recovered (d)	*4,000	*5,000	*5,000	*5,000	*5,000
Mexico					
Recovered (c)	300,000	359,000	359,000	417,000	474,000
Recovered (d)	876,000	883,000	921,000	923,000	912,000
Netherlands Antilles					
Recovered (d)	23,821	24,410	23,921	28,616	...
Trinidad & Tobago					
Recovered (d)	*5,000	*5,000	*5,000	*5,000	*5,000
USA					
Frasch	2,960,000	*3,150,000	*2,900,000	*2,820,000	*1,800,000
Recovered (c)	1,380,000	1,400,000	1,430,000	1,550,000	1,610,000
Recovered (d)	7,160,000	7,250,000	7,480,000	7,650,000	8,220,000
Argentina					
Recovered (c)	23,000	23,000	23,000	23,000	23,000
Brazil					
Pyrites	20,861	26,266	29,477	22,783	25,719
Recovered (c)	182,638	170,942	175,121	175,511	177,348
Recovered (d)	53,256	41,951	33,424	33,823	36,973
Chile					
Recovered (c)	523,000	588,000	587,000	768,000	899,000
Colombia					
Recovered (d)	15,182	*15,000	*15,000	*15,000	...
Sulphur ore	38,175	60,000	49,425	53,541	...
Ecuador					
Recovered (d)	*10,000	*10,000	*10,000	*10,000	*10,000
Sulphur ore	*4,000	*4,000	*4,000	*4,000	*4,000
Peru					
Recovered (c)	*60,000	*60,000	*60,000	*60,000	*60,000
Venezuela					
Recovered (d)	158,000	180,000	250,000	319,000	425,000
Abu Dhabi					
Recovered (d)	250,000	256,500	259,000	...	...
Bahrain					
Recovered (d)	55,282	51,300	74,338	66,202	61,873

Production of Sulphur and Pyrites

tonnes (sulphur content)

Country	1994	1995	1996	1997	1998
China					
Pyrites	5,181,000	5,933,000	5,995,000	6,043,520	3,654,490
Recovered	733,000	967,000	1,215,000	1,424,430	1,528,000
Sulphur ore	285,000	403,000	239,000	*300,000	300,000
India					
Pyrites (a)	26,000	31,000	31,600	27,600	19,500
Recovered (a) (d) (e)	19,050	19,826	8,820	12,852	12,143
Indonesia					
Sulphur ore	*3,500	*3,500	*3,500	*3,500	*3,500
Iran					
Recovered (c)	*50,000	*50,000	*50,000	*50,000	*50,000
Recovered (d)	*830,000	*840,000	*840,000	*850,000	*850,000
Iraq					
Frasch	*250,000	*250,000	*250,000	*250,000	*250,000
Recovered (d)	*225,000	*225,000	*225,000	*200,000	*200,000
Israel					
Recovered (d)	# 20,000	24,000	24,000	30,000	32,000
Japan					
Pyrites	88,000	88,000	45,000	39,000	23,000
Recovered (b) (c)	1,392,000	1,434,000	1,409,000	1,424,000	1,410,000
Recovered (d)	1,626,000	1,682,000	1,791,000	2,013,000	2,083,000
Kazakhstan					
Pyrites	*200,000	*71,000	*71,000	----	----
Recovered (c)	261,000	131,000	139,000	139,000	212,000
Recovered (d)	219,000	255,000	515,000	778,000	933,000
Korea, Dem. P.R. of					
Pyrites	*105,000	*105,000	*86,000	*45,000	*45,000
Recovered (c)	*18,000	*18,000	*18,000	*18,000	*18,000
Korea, Republic of					
Recovered (c)	295,000	322,000	319,000	338,000	476,000
Recovered (d)	227,000	246,000	415,000	613,000	656,000
Kuwait					
Recovered (d)	200,000	559,000	595,000	664,000	650,000
Oman					
Recovered (d)	*40,000	*35,000	*30,000	*30,000	...
Pakistan					
Recovered	*27,000	*27,000	*27,000	22,002	18,988
Philippines					
Pyrites	*100,000	*100,000	*100,000	*100,000	...
Recovered (c)	*125,000	*125,000	*125,000	*125,000	...
Qatar					
Recovered (d)	62,000	48,000	46,000	73,000	146,000
Saudi Arabia					
Recovered (d)	1,630,000	1,650,000	1,750,000	1,750,000	2,050,000
Singapore					
Recovered (d)	*100,000	178,000	185,000	220,000	180,000
Syria					
Recovered (d)	*30,000	30,000	30,000	30,000	30,000
Taiwan					
Recovered	154,778	167,468	181,600	163,964	184,324
Turkmenistan					
Sulphur ore	47,599	8,050	8,112	...	...
Australia					
Recovered (c)	275,000	263,000	327,000	474,000	507,000
Recovered (d)	115,000	27,000	27,000	22,000	22,000
Total Pyrites	7 900 000	8 200 000	8 200 000	8 100 000	5 600 000
Total Frasch	5 300 000	5 800 000	4 900 000	4 700 000	3 400 000
Total Recovered	37 500 000	38 900 000	40 600 000	43 000 000	45 800 000
Total Sulphur Ore	700 000	800 000	500 000	500 000	500 000

Note(s):

- (a) Years ended 31 March following that stated
- (b) Including S content of sulphur ore
- (c) From smelter gases
- (d) From petroleum refining and/or natural gas
- (e) Other
- (f) Including production from synthetic fuels

Exports of Sulphur and Pyrites

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Sulphur, sublimed & precipitated	13 468	13 474	12 679	6 064	3 012
Belgium-Luxembourg					
Pyrites	413	1 989	1 673	1 695	1 880
Sulphur, crude	12 510	12 058	16 689	10 582	13 424
Sulphur, sublimed & precipitated	2	958	138	103	208
Czech Republic					
Sulphur	2 500	5 900	3 900	2 102	2 549
Sulphur, sublimed & precipitated	...	...	...	6 227	6 465
Denmark					
Sulphur	7 685	762	3 958	4 654	3 517
Finland					
Pyrites (c)	*483 800	*502 100	*443 800	*499 500	*501 900
France					
Sulphur, crude	618 777	595 621	645 790	540 537	503 616
Sulphur, refined	11 499	9 860	7 613	9 199	10 792
Sulphur, sublimed & precipitated	656	490	814	860	694
Germany					
Pyrites	585	739	614	495	375
Sulphur, crude	777 018	776 053	940 867	924 574	1 059 498
Sulphur, refined	18 313	23 219	28 542	22 143	22 936
Sulphur, sublimed & precipitated	947	366	380	319	367
Greece					
Sulphur	252	28	4 999	331	471
Hungary					
Sulphur, sublimed & precipitated	12 957	5 097	9 330	10 975	18 742
Italy					
Pyrites	7 704	7 404	8 361	8 667	9 237
Sulphur	112 083	67 311	64 883	74 497	50 376
Sulphur, sublimed & precipitated	1 375	481	309	230	278
Netherlands					
Pyrites	----	----	2 729	98 621	64 161
Sulphur, crude	164 094	165 463	230 678	207 261	132 707
Sulphur, refined	2 629	20 871	(b) ...	(b) ...	80 293
Sulphur, sublimed & precipitated	111	551	137	38	181
Norway					
Pyrites	----	2 395	----	...	30
Sulphur, crude	4 417	348	49	----	----
Sulphur, sublimed & precipitated	2 670	6 216	10 264	12 139	10 355
Poland					
Sulphur	1 813 468	1 643 505	1 302 430	1 127 300	769 000
Portugal					
Sulphur	500	6 500	7 332	5 056	11 349
Romania					
Sulphur	...	...	...	6 810	2 388
Russia					
Pyrites	...	...	43 297	18 518	28 044
Sulphur	...	2 130 536	1 008 260	1 723 936	1 773 308
Sulphur, sublimed & precipitated	...	...	519	142	1
Slovakia					
Sulphur	...	...	...	14 700	17 100
Spain					
Pyrites	4 841	42 837	26 089	...	51 795
Sulphur, crude	18 734	36 896	29 533	38 072	52 434
Sulphur, sublimed & precipitated	1 054	1 446	652	612	366
Sweden					
Sulphur, crude	527	1 436	568	14 857	3 938
Sulphur, sublimed & precipitated	...	30	...	85	85
Switzerland					
Sulphur	16 571	1 854	1 314	3 860	45
Turkey					
Sulphur, sublimed & precipitated	11 172	8 959	294	2 072	2 673
Ukraine					
Sulphur	(c) *40 000	48 491	39 084	24 789	24 879
United Kingdom					
Sulphur, crude	1 968	2 710	1 816	22 423	...
Sulphur, sublimed & precipitated	2 568	1 824	3 532	14 624	538

Exports of Sulphur and Pyrites

Country	1994	1995	1996	1997	1998
Yugoslavia, Federal Republic of Pyrites	...	...	...	16 453	18 228
Namibia Pyrites	4 116	62 158	3 105	956	73
South Africa Sulphur	2 508	6 739	35 742	24 492	...
Canada Sulphur	4 983 257	6 077 430	6 026 287	6 465 467	5 145 955
Mexico Sulphur	539 053	531 605	509 274	482 188	586 645
Netherlands Antilles Sulphur	23 821	24 410	23 921	28 616	...
USA Sulphur, crude	530 770	548 249	496 566	651 088	853 250
Sulphur, refined	114 396	254 050	102 897	131 974	52 898
Sulphur, sublimed & precipitated	236 837	109 725	168 335	45 137	36 887
Colombia Sulphur	2 258	1 378	1 414	968	2 181
Venezuela Sulphur	280	111	231	1 747	...
Bahrain Sulphur	41 500	46 500	79 700	24 293	55 796
China Pyrites	23 835	13 243	30 317	20 056	36 759
Sulphur, crude	4 811	7 884	1 380	324	5 206
Sulphur, sublimed & precipitated	1 319	616	503	807	1 156
India Sulphur, sublimed & precipitated (a)	1 104	562	946	1 710	...
Iran Sulphur	518 000	463 500	581 100	473 000	393 700
Japan Sulphur, crude	748 273	645 174	716 155	983 480	1 080 709
Sulphur, sublimed & precipitated	2 013	1 682	1 232	1 054	915
Kazakhstan Sulphur (c)	...	...	*94 000	*205 000	*147 000
Korea, Republic of Sulphur, crude	27 942	55 276	103 412	200 704	255 023
Sulphur, sublimed & precipitated	606	661	6	1 115	1 275
Kuwait Sulphur	467 924	553 000	630 739	579 000	596 000
Qatar Sulphur	59 000	37 730	33 203	58 447	146 300
Saudi Arabia Sulphur	2 282 800	1 510 600	1 800 900	1 634 800	1 761 300
Singapore Sulphur, crude	34 971	45 329	74 178	57 519	80 464
Sulphur, sublimed & precipitated	27 261	34 145	57 845	79 337	52 194
Taiwan Sulphur, crude	15 633	1 906	779	423	573
Sulphur, sublimed & precipitated	372	489	547	562	625
Thailand Sulphur	506	583	525	6 361	...
Australia Sulphur	3 834	3 442	3 072	2 206	1 663
Sulphur, sublimed & precipitated	40	0	196	117	342

Note(s):

- (a) Years ended 31 March following that stated
(b) Included with crude
(c) BGS estimates, based on known imports into certain countries

Imports of Sulphur and Pyrites

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Pyrites	661	866	570	546	1 096
Sulphur, crude	38 200	39 400	42 000	...	5 157
Sulphur, sublimed & precipitated	28 552	33 723	26 989	1 546	5 306
Belgium-Luxembourg					
Pyrites	16 911	209	107	37	14
Sulphur, crude	328 138	421 290	179 782	203 751	186 424
Sulphur, refined	21 682	10 318	130 316	158 558	192 737
Sulphur, sublimed & precipitated	11 253	5 485	1 956	2 033	1 974
Bulgaria					
Sulphur	20 000	7 400	3 922	6 165	2 400
Croatia					
Sulphur, crude	52 400	80 825	82 022	71 669	49 409
Sulphur, sublimed & precipitated	...	167	162	397	173
Czech Republic					
Sulphur	87 613	113 400	105 800	91 456	75 514
Sulphur, sublimed & precipitated	...	...	...	20 768	26 279
Denmark					
Sulphur	31 928	38 130	21 867	15 140	9 564
Finland					
Sulphur	33 449	17 601	11 662	5 863	27 597
France					
Pyrites	7 151	7 318	4 891	1 701	2 474
Sulphur, crude	89 672	114 446	104 022	134 934	117 946
Sulphur, refined	281 919	32 921	18 484	39 964	16 355
Sulphur, sublimed & precipitated	1 065	2 571	17 825	6 072	11 152
Germany					
Pyrites	175 226	153 831	163 293	206 363	163 625
Sulphur, crude	28 696	44 869	29 552	58 912	46 141
Sulphur, sublimed & precipitated	1 120	1 023	883	1 196	1 639
Greece					
Sulphur, crude	...	158 068	163 888	162 421	153 871
Sulphur, sublimed & precipitated	329	360	445	139	5
Hungary					
Sulphur	9 295	20 056	11 483	7 104	2 479
Sulphur, sublimed & precipitated	...	...	58	96	129
Italy					
Pyrites	11 769	20 934	12 003	13 960	18 791
Sulphur, crude	144 131	293 265	191 228	178 006	198 532
Sulphur, sublimed & precipitated	100	127	915	217	2 316
Lithuania					
Sulphur	79 200	105 300	143 933	132 900	178 045
Netherlands					
Pyrites	228	314	212	...	69 520
Sulphur, crude	36 605	103 609	94 201	61 199	24 989
Sulphur, sublimed & precipitated	225	2 195	756	10 120	16 712
Norway					
Pyrites	251 611	253 343	245 043	206 857	254 119
Sulphur, crude	633	862	399	4 353	911
Sulphur, sublimed & precipitated	32	21	8	965	68
Poland					
Sulphur	16 406	953	1 274	100	8 200
Portugal					
Sulphur	12 489	11 700	7 322	2 644	2 469
Sulphur, sublimed & precipitated	...	...	10	703	4 576
Romania					
Sulphur, crude	45 932	103 627	60 166	41 736	43 195
Sulphur, sublimed & precipitated	568	80	2	25	824
Russia					
Sulphur	*300 000	197 200	155 504	244 862	159 698
Sulphur, sublimed & precipitated	...	...	1 300	340	271
Slovakia					
Sulphur	(a) *17 500	12 700	34 641	34 515	39 078
Slovenia					
Sulphur	45 623	41 400	32 169	44 119	49 628
Spain					
Sulphur, crude	105 977	72 463	62 222	64 412	45 617
Sulphur, sublimed & precipitated	1 600	1 192	271	261	167

Imports of Sulphur and Pyrites

Country	1994	1995	1996	1997	1998
Sweden					
Pyrites	342	335	293	346	3 526
Sulphur, crude	106 169	106 403	90 214	96 511	91 838
Sulphur, sublimed & precipitated	395	383	1 074	2 323	1 855
Switzerland					
Pyrites	244	240	214	275	301
Sulphur, crude	33 681	38 978	38 563	39 107	40 601
Sulphur, sublimed & precipitated	47	22	75	73	52
Turkey					
Pyrites	64	24 185	26 210	34 644	17 437
Sulphur, crude	136 819	87 321	116 619	170 473	126 446
Sulphur, sublimed & precipitated	181	106	94	116	93
Ukraine					
Sulphur	550 000	*570 000	428 250	332 662	371 493
United Kingdom					
Pyrites	3 414	1 103	113	24	29
Sulphur, crude	322 147	298 913	245 934	371 962	195 999
Sulphur, sublimed & precipitated	999	1 100	549	495	2 400
Yugoslavia, Federal Republic of					
Sulphur, crude	*2 500	*2 500	1 900	1 808	1 429
Algeria					
Sulphur	61 751	*55 000	652	849	3 800
Egypt					
Sulphur	40 214	131 400	322 138	302 774	...
Sulphur, sublimed & precipitated	...	...	541	17 876	...
Gabon					
Sulphur	1 000	1 500	2 000	4 000	1 500
Kenya					
Sulphur	42	4 697	602	900	840
Morocco					
Sulphur	2 654 000	2 806 820	2 600 662	2 962 609	2 529 300
Namibia					
Sulphur	----	----	----	20 000	57 200
Niger					
Sulphur	26 800	18 200	26 800	37 500	17 800
Nigeria					
Sulphur	5 000	----	114	10 700	10 000
Senegal					
Sulphur	261 200	348 300	312 000	324 100	350 700
South Africa					
Sulphur, crude	363 000	601 692	525 579	539 704	531 432
Sulphur, sublimed & precipitated	750	1 000	658	659	291
Tunisia					
Sulphur	1 454 782	1 419 169	1 443 453	1 692 993	1 437 000
Sulphur, sublimed & precipitated	...	759	693	1 018	...
Zimbabwe					
Sulphur	23 468	34 845	116 817	10 676	14 568
Canada					
Pyrites	11 339	15 873	14 382	13 870	28 452
Sulphur, crude	3 123	25 593	24 386	46 518	51 368
Sulphur, sublimed & precipitated	1 280	1 756	1 040	485	1 207
Cuba					
Sulphur	75 800	173 300	135 100	184 600	183 600
El Salvador					
Sulphur	4 711	2 374	5 392	5 389	2 849
Guatemala					
Sulphur	1 113	1 845	3 191	2 707	3 194
Jamaica					
Sulphur	3 334	9 203	...	6 374	6 271
Mexico					
Sulphur, crude	201 333	570 287	798 971	669 104	645 476
Sulphur, sublimed & precipitated	481	342	310	1 463	1 044
USA					
Sulphur, crude	1 625 028	2 198 669	1 624 295	1 507 026	1 292 188
Sulphur, sublimed & precipitated	344	240	252	1 585	2 198

Imports of Sulphur and Pyrites

tonnes

Country	1994	1995	1996	1997	1998
Argentina					
Sulphur	78 914	105 512	96 192	105 193	86 711
Brazil					
Sulphur	1 266 475	1 253 748	1 306 963	1 509 913	1 319 975
Chile					
Sulphur	43 365	25 746	20 375	14 493	16 719
Colombia					
Sulphur	41 013	36 898	68 235	81 278	81 531
Ecuador					
Sulphur	3 092	1 604	677	456	2 401
Paraguay					
Sulphur	1 418	1 500	3 100	3 000	...
Peru					
Sulphur	4 013	3 538	...	4 139	...
Suriname					
Sulphur	*1 000	*1 000	*1 000	*1 000	...
Uruguay					
Sulphur	13 186	4 500	15 896	22 455	19 471
Venezuela					
Sulphur	113	163	78	35	...
Bangladesh					
Sulphur (b)	*27 000	*27 000	*25 000	43 545	...
China					
Sulphur, crude	78 809	53 000	467 293	356 964	941 076
Sulphur, sublimed & precipitated	99 457	138 838	342 994	384 070	241 132
Cyprus					
Sulphur	601 660	1 504	1 491	1 301	1 728
Hong Kong					
Sulphur, crude	22 712	30 531	163	321	----
Sulphur, sublimed & precipitated	637	569	561	710	529
India					
Sulphur, crude (c)	1 600 570	1 543 002	1 543 187	1 617 256	...
Sulphur, sublimed & precipitated (c)	1 117	1 015	780	1 144	...
Indonesia					
Sulphur, crude	320 566	291 781	389 631	327 545	356 042
Sulphur, sublimed & precipitated	44 793	38 213	392	15 840	11 315
Israel					
Sulphur	301 600	261 000	432 100	467 500	595 000
Japan					
Pyrites	167 395	114 878	48 469	42 019	44 477
Sulphur	854	610	705	572	389
Sulphur, sublimed & precipitated	1 921	697	701	1 433	1 225
Jordan					
Sulphur, crude	305 911	301 508	337 365	340 266	...
Sulphur, sublimed & precipitated	...	401	348	...	...
Korea, Republic of					
Pyrites	165	208	22 112	22 296	36 762
Sulphur, crude	439 129	441 343	343 058	226 600	243 888
Sulphur, sublimed & precipitated	207	216	232	207	171
Lebanon					
Sulphur	57 200	31 700	42 400	62 300	93 600
Malaysia					
Sulphur, crude	29 088	38 700	38 000	...	...
Sulphur, sublimed & precipitated	11 508	...	...	...	...
Pakistan					
Sulphur (b)	20 332	19 130	28 347	25 036	20 071
Philippines					
Sulphur, crude	38 977	149 446	176 909	90 395	...
Sulphur, sublimed & precipitated	937	145	147	6 435	...
Singapore					
Sulphur, crude	117	138	6 582	83	1 311
Sulphur, sublimed & precipitated	138	66	81	77	24
Sri Lanka					
Sulphur, crude	865	1 202	1 091	1 123	...
Sulphur, sublimed & precipitated	1 142	1 222	717	54	...

Imports of Sulphur and Pyrites

Country	1994	1995	1996	1997	1998
Taiwan					
Sulphur, crude	10 935	8 873	531	301	407
Sulphur, sublimed & precipitated	169 193	178 335	159 488	182 328	144 490
Thailand					
Sulphur, crude	25 270	4 787	8	18	...
Sulphur, refined	47 081	43 727	81 079	46 648	...
Sulphur, sublimed & precipitated	230	406	222	276	...
Australia					
Pyrites	841	1 552	1 079	1 122	1 828
Sulphur	92 664	167 859	118 831	158 739	230 408
Sulphur, sublimed & precipitated	15 761	5 634	123	171	283
New Zealand					
Sulphur, crude (b)	214 513	219 978	*170 000	174 036	187 744
Sulphur, sublimed & precipitated (b)	255	70	...	748	718

Note(s) :-

- (a) BGS estimates, based on known exports from certain countries
- (b) Years ended 30 June of that stated
- (c) Years ended 31 March following that stated

Production of Talc

tonnes

Country	1994	1995	1996	1997	1998
Austria	130 602	131 614	129 748	141 984	137 114
Finland	453 000	464 000	418 000	435 000	495 000
France	306 400	322 400	349 300	362 200	363 600
Germany	20 223	17 722	10 005	13 035	...
Greece	400	*400	180	100	150
Hungary	*1 500	*1 150	*1 200	*1 200	*1 200
Italy	138 416	159 106	132 647	141 000	138 000
Macedonia	*10 000	*10 000	*10 000	*10 000	*10 000
Norway	*28 000	*30 000	28 140	*28 000	*28 000
Portugal	8 367	8 706	8 277	8 236	8 400
Romania	8 952	9 976	10 248	7 578	*8 000
Russia	110 000	105 000	79 793	97 561	...
Slovakia	4 800	5 000	5 000	6 100	2 830
Spain	80 606	112 341	109 756	118 355	*120 000
Sweden	25 000	25 000	25 000	25 000	24 000
Turkey	*4 000	*4 000	*4 000	*4 000	*4 000
United Kingdom	5 275	4 298	5 338	5 749	4 937
Egypt (a)	4 125	15 356	33 649	30 282	35 119
Morocco					
Talc	...	...	...	3 060	1 661
Pyrophyllite	...	...	...	16 790	7 529
South Africa					
Talc	16 812	15 841	16 397	21 055	20 296
Wonderstone (Pyrophyllite)	5 507	5 519	2 140	2 129	2 532
Zimbabwe	2 049	2 080	1 076	1 023	1 039
Canada	130 000	104 000	76 000	73 000	78 000
Mexico	14 900	11 134	10 100	13 586	18 843
USA	935 000	1 060 000	994 000	1 050 000	1 060 000
Argentina					
Talc	16 850	12 474	11 777	4 772	4 500
Pyrophyllite	1 996	4 189	2 180	3 858	3 800
Brazil					
Talc (b)	356 828	254 919	275 499	*280 000	*280 000
Agalmatolite (b)	109 029	115 550	108 501	*110 000	*110 000
Pyrophyllite (b)	148 000	150 000	21 472	*20 000	*20 000
Chile	5 351	4 107	4 276	3 986	3 772
Colombia	18 000	19 248	14 800	14 832	15 400
Peru	19 974	13 818	12 985	5 750	11 165
Uruguay	913	863	898	1 133	972
Venezuela	*32 000	*32 000	*32 000	*32 000	*32 000
Bhutan	169	3 332	3 500	*3 000	...
China	*2 400 000	*2 400 000	*2 400 000	4 068 900	2 097 800
India					
Pyrophyllite (c)	95 809	144 050	141 655	102 875	86 561
Steatite (c)	408 754	540 570	512 579	474 957	456 187
Indonesia					
Pyrophyllite	...	...	...	32 594	22 611
Iran (d)	29 226	9 052	26 530	*25 000	*25 000
Japan					
Talc	56 000	57 000	56 000	*53 000	*52 000
Pyrophyllite	660 000	649 000	618 000	620 000	497 000
Korea, Dem. P.R. of	*180 000	*180 000	*180 000	*180 000	*150 000
Korea, Republic of					
Talc	35 340	29 364	19 066	25 751	24 411
Pyrophyllite	707 951	789 994	780 062	994 366	843 609
Nepal (e)	1 363	2 363	5 323	6 809	5 553
Pakistan (a)	44 430	34 128	28 265	45 414	51 464
Taiwan	4 290	3 500	1 500	1 331	*1 200
Thailand					
Talc	8 950	4 352	7 238	7 139	*2 000
Pyrophyllite	55 326	76 189	64 330	304 524	*45 000

Production of Talc

Country	1994	1995	1996	1997	1998
Australia					
Talc (a)	*154 000	125 701	*176 000	*186 000	*200 000
Pyrophyllite (a)	*1 000	777	595	337	702
World Total	8 100 000	8 300 000	8 000 000	10 200 000	7 600 000

Note(s):

- (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
- (e) Years ended 15 July of that stated

Exports of Talc

tonnes

Country	1994	1995	1996	1997	1998
Austria	129 944	142 245	145 925	146 131	157 732
Belgium-Luxembourg	61 973	70 990	62 971	74 238	77 276
Finland (a)	*174 400	*186 500	*168 000	*141 000	*129 000
France	144 106	160 024	176 799	209 299	216 966
Germany	4 860	5 108	6 102	6 041	6 273
Greece	22	...	54	116	972
Italy	61 071	65 867	68 246	78 612	80 228
Netherlands	51 942	56 045	50 889	58 185	70 522
Norway	35 835	36 142	35 800	36 512	35 488
Russia	...	577	1 164	1 144	257
Slovakia	...	...	7 800	4 500	2 600
Spain	35 203	40 710	39 583	49 945	43 887
Sweden	21 857	20 396	23 077	24 243	18 351
Switzerland	403	274	577	870	721
Turkey	277	59	87	165	208
United Kingdom	5 596	3 341	3 227	3 100	3 124
Egypt	...	...	4 610	5 887	...
South Africa					
Talc	840	...	24	56	104
Pyrophyllite	*5 000	*4 000	*2 000	*2 000	*2 000
Canada	31 694	30 028	26 073	26 276	29 661
USA	165 180	191 585	198 969	188 902	158 872
Brazil	2 534	3 145	2 053	3 914	3 925
Peru	1 861	2 389	3 493	5 454	...
China	1 243 396	1 600 326	1 023 901	1 021 001	766 019
Hong Kong (c)	7 372	12 581	10 238	10 375	9 650
India (b)	27 783	30 410	99 197	27 361	...
Japan	5 210	7 258	7 097	7 755	5 222
Korea, Republic of					
Talc	1 622	1 782	2 638	2 402	1 099
Pyrophyllite	247 285	254 595	226 170	253 195	152 290
Singapore	4 391	3 399	2 754	1 931	1 563
of which, re-exports	4 356	3 375	2 744	1 922	1 544
Taiwan	1 912	4 084	4 079	4 809	6 377
Thailand	7 324	5 328	3 469	2 873	...
Australia	125 130	157 257	150 567	91 307	2 796

Note(s):

- (a) BGS estimates, based on known imports into certain countries
(b) Years ended 31 March following that stated
(c) Re-exports

Imports of Talc

Country	1994	1995	1996	1997	1998
Austria	15 262	15 101	24 123	19 304	15 748
Belgium-Luxembourg	60 385	72 139	73 415	96 181	98 211
Croatia	...	813	975	1 366	1 007
Czech Republic	(a) *2 200	(a) *3 000	...	6 669	6 313
Denmark	11 424	8 919	9 208	11 877	12 991
Finland	272	336	313	866	5 927
France	44 958	35 031	31 038	40 503	49 837
Germany	237 139	241 536	226 138	228 450	213 254
Greece	3 851	5 658	5 381	4 614	7 014
Irish Republic	1 475	3 070	1 354	986	1 083
Italy	55 982	48 625	85 744	92 190	94 832
Netherlands	163 585	141 160	134 954	81 171	116 447
Norway	18 544	15 576	16 478	14 868	16 776
Poland	18 900	22 734	23 100	21 600	...
Portugal	11 178	10 396	12 921	12 511	14 432
Russia	...	...	2 196	3 301	5 091
Slovakia	...	...	500	600	500
Spain	32 938	35 899	38 162	43 173	49 177
Sweden	24 969	26 598	24 718	25 309	30 967
Switzerland	14 256	12 893	13 263	14 284	14 183
Turkey	1 962	3 237	4 762	6 933	8 576
United Kingdom	69 972	68 839	73 084	83 013	60 634
Yugoslavia, Federal Republic	...	(a) *300	...	960	1 049
Algeria	...	...	777	2 750	...
Egypt	...	...	1 125	638	...
Morocco	...	2 176	2 285	2 789	...
South Africa	5 666	7 365	6 146	6 328	6 670
Tunisia	2 323	2 582	3 350	3 082	...
Canada	52 925	51 143	58 304	55 281	47 459
Costa Rica	1 400	1 383	1 724	1 344	...
El Salvador	649	449	550	662	793
Guatemala	220	395	319	563	575
Honduras	87	142	174	259	494
Jamaica	688	548	527	515	334
Mexico	118 376	100 216	112 872	117 138	114 554
Panama	859	896	884	1 003	913
Trinidad & Tobago	594	...	553	575	...
USA	152 475	142 886	179 738	115 166	157 564
Argentina	1 745	2 670	2 619	4 101	4 684
Brazil	2 722	5 404	8 572	9 495	10 591
Chile	4 279	4 773	6 620	7 824	6 732
Colombia	3 562	4 042	5 326	5 109	5 763
Ecuador	1 356	1 860	1 301	2 090	2 254
Peru	1 151	1 058	1 093	1 056	...
Venezuela	9 098	11 271	8 205	7 223	...
China	3 560	5 051	5 362	8 179	8 971
Cyprus	245	295	227	240	233
Hong Kong	12 879	14 481	6 369	5 498	3 331
Indonesia	58 327	88 146	109 550	88 156	50 920
Israel (a)	*1 200	*1 500	...	...	...
Japan	601 793	720 901	567 721	579 930	453 587
Jordan	2 061	2 025	1 603	1 976	...
Korea, Republic of					
Talc	310 952	390 567	276 323	210 047	143 386
Pyrophyllite	4 578	920	5 501	10 983	7 293
Malaysia	15 289	...	...	...	...
Pakistan	29 585	83 292	56 345	...	...
Philippines	18 704	20 786	21 008	16 785	...
Saudi Arabia	8 132	4 861	7 100	4 906	4 900
Singapore	15 662	13 588	11 701	29 604	12 057
Sri Lanka	1 854	1 959	2 269	2 500	...
Syria	2 842	16 427	1 615	3 909	...
Taiwan	180 200	165 906	136 799	132 001	133 462
Thailand	49 334	58 078	3 469	48 169	...

Talc

Imports of Talc

tonnes

Country	1994	1995	1996	1997	1998
Australia	732	1 248	938	1 712	668
New Zealand (b)	1 970	3 354	...	2 023	2 720

Note(s) :-

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

(b) Years ended 30 June of that stated

tonnes

Production of Tantalum and Niobium Minerals

Country	1994	1995	1996	1997	1998
Ethiopia					
Tantalite (a)	30	43	70	80	80
Namibia					
Tantalite	0	16	----	----	----
Nigeria					
Columbite	17	65	57	*60	*60
Rwanda					
Columbite-tantalite	6	72	99	269	378
Zimbabwe					
Columbite-tantalite	7	0	----	1	6
Canada					
Pyrochlore	5 600	5 800	5 700	5 700	5 600
Tantalite	67	67	187	180	190
Brazil					
Pyrochlore	33 545	39 989	36 474	*45 000	*50 000
Columbite-tantalite	*175	*175	*190	*190	*220
Djalmaite	37	21	8	...	...
Malaysia					
Struverite	278	127	265	391	...
Australia					
Tantalite	262	365	557	299	400
World total concentrates	40 000	46 700	43 600	52 200	57 300
Nb content	*16 500	*19 300	*17 800	*21 400	*23 500
Ta content	*250	*290	*430	*370	*450

Note(s):

- (1) Niobium and tantalum minerals are believed to be produced also in Russia and China, and minor quantities in Burundi, French Guiana, and Zambia. Minor quantities are produced in Bolivia.
- (2) The figures in this table refer to gross tonnage of tantalum and niobium concentrates
- (3) Niobium and tantalum are also recovered from tin slags. This source is particularly important in the case of tantalum and in recent years is believed to have accounted for over 60% of all tantalum recovered
- (4) No detailed information on the production of tantalum bearing tin slags is available but the major producer is Thailand and small amounts from Australia, Brazil, Nigeria, Portugal and D R Congo

(a) Years ended 6 July of that stated

Exports of Tantalum and Niobium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Tantalum	29	43	36	43	47
Czech Republic					
Tantalum	...	...	...	601	551
France					
Tantalum	78	108	79	39	5
Germany					
Niobium & tantalum ores	135	39	109	72	191
Tantalum	167	153	141	165	154
Italy					
Tantalum	194	12	12	21	1
Russia					
Tantalum	...	...	8	7	10
United Kingdom					
Tantalum	149	244	314	349	290
Rwanda					
Columbite & tantalite	49	137	138	224	239
Canada					
Niobium & tantalum ores (a)	4 399	1 610	40	31	8
USA					
Tantalum ores & concentrates	23	1	53	91	391
Tantalum	290	324	372	455	486
Brazil					
Columbite-tantalite	172	200	106	...	...
China					
Tantalum	41	56	73	123	176
Japan					
Tantalum	85	108	173	219	242
Malaysia					
Columbite & tantalite	200	300	238	...	...
Tin slags	3 442	597	...	...	...
Singapore					
Tin slags	136	126	60	----	----
of which, re-exports	40	15	----	----	----
Taiwan					
Tantalum	35	15	19	15	19
Thailand					
Tantalum ores & concentrates	266	824	1 040	2 740	...
Tantalum	26	64	62	68	...
Australia					
Tantalum	196	132	268	264	290

Note(s):

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) May include vanadium ores

Imports of Tantalum and Niobium

Country	1994	1995	1996	1997	1998
Austria					
Tantalum	37	57	49	1	4
Czech Republic					
Tantalum	----	166	158	179	155
France					
Tantalum	81	67	39	17	27
Germany					
Tantalum	213	179	169	235	183
Niobium	----	----	----	50	130
Irish Republic					
Tantalum	18	12	3	10	23
United Kingdom					
Tantalum	620	908	980	1 463	1 373
USA					
Tantalum concentrates	1 089	1 042	1 109	908	1 218
Niobium concentrates	3 080	1 039	224	131	70
Tantalum	341	529	480	400	829
Niobium	171	259	341	423	563
China					
Tantalum	130	119	138	135	203
Hong Kong					
Tantalum	1	21	32	3	8
India					
Niobium & tantalum ores (a)	...	170	466	266	...
Japan					
Niobium ores & concentrates	1 480	81	2	29	57
Tantalum	78	129	186	128	154
Korea, Republic of					
Tantalum	6	8	13	26	35
Australia					
Tantalum	6	5	6	12	11

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Years ended 31 March following that stated

Tin

Mine Production of Tin

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Portugal	4 330	4 627	4 637	3 566	2 958
Russia	10 500	9 000	7 500	*7 500	*3 500
United Kingdom	1 922	1 972	2 103	2 396	448
Congo, Democratic Republic	1 000	1 000	-----	-----	-----
Nigeria	*150	*250	*2 500	*2 500	*1 400
Rwanda	20	198	209	155	440
South Africa	43	-----	-----	-----	-----
Zimbabwe	82	-----	-----	-----	-----
Bolivia	16 027	14 419	14 802	12 898	11 308
Brazil	22 500	20 767	20 568	19 065	14 607
Peru (a)	20 275	22 331	27 004	27 952	25 747
China	54 100	61 900	69 700	67 500	70 100
Indonesia	30 610	38 378	51 024	55 174	53 959
Kazakhstan	14	4	-----	-----	-----
Laos	1 280	1 170	1 508	1 030	895
Malaysia	6 459	6 402	5 175	5 065	5 754
Mongolia	53	59	18	10	-----
Myanmar	814	747	459	335	240
Thailand	2 830	1 590	1 050	550	1 530
Vietnam	*4 000	4 500	*4 000	*3 000	*3 000
Australia	7 400	8 656	8 824	10 168	10 204
World Total	184 000	198 000	221 000	218 000	206 000

Note(s):

(a) Recoverable

Smelter Production of Tin

Country	1994	1995	1996	1997	1998
Portugal	100	100	----	----	----
Russia	12 200	12 000	12 300	9 200	*5 000
Spain	200	----	----	----	----
Nigeria	316	259	56	*50	*50
South Africa	100	----	----	----	----
Zimbabwe	82	----	----	----	----
Mexico	771	415	1 234	1 188	102
Bolivia (a)	20 019	17 709	16 733	16 853	11 102
Brazil	20 400	16 787	18 361	17 525	14 337
Peru	...	...	800	8 759	13 928
China	67 800	67 700	71 500	67 700	79 300
Indonesia	39 000	44 218	48 960	52 658	53 401
Kazakhstan	13 900	3 600	----	----	----
Malaysia	37 990	39 443	38 051	33 289	27 900
Myanmar	200	*190	----	----	----
Thailand	7 759	8 243	10 981	11 984	15 353
Vietnam	2 300	2 300	*2 300	2 790	2 770
Australia	320	570	460	605	655
World Total	223 000	214 000	222 000	223 000	224 000

Note(s):

(a) Refined, including alloys

Exports of Tin

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Unwrought (a)	133	120	167	102	78
Scrap	74	120	131	179	241
Belgium-Luxembourg					
Unwrought	5 156	5 541	6 783	7 642	7 518
Unwrought alloys	569	202	392	211	309
Scrap	23	211	199	479	81
Czech Republic					
Unwrought (a)	33	613	175	219	15
Denmark					
Scrap	175	158	102	137	153
Finland					
Unwrought alloys	----	44	185	238	90
Scrap	195	89	22	64	148
France					
Unwrought	27	108	109	160	233
Unwrought alloys	424	463	591	715	651
Scrap	1 298	1 344	1 374	2 805	3 165
Germany					
Unwrought	389	621	248	426	395
Unwrought alloys	1 566	603	483	648	1 065
Scrap	479	349	467	559	568
Irish Republic					
Scrap	27	103	19	45	154
Italy					
Unwrought (a)	512	137	2 595	152	543
Scrap	200	180	164	185	243
Netherlands					
Unwrought	671	1 181	451	743	7 466
Unwrought alloys	1 077	871	882	691	568
Scrap	551	343	313	265	1 308
Portugal					
Concentrates	9 272	9 696	9 653	6 927	6 257
Russia					
Concentrates	3 130	5 530	3 421	2 538	2 303
Unwrought (a)	7 953	8 884	8 859	7 608	2 103
Scrap	402	*500	50	7	13
Slovenia					
Scrap	41	97	21	...	...
Spain					
Unwrought (a)	136	74	95	691	1 544
Scrap	20	81	28	654	169
Sweden					
Unwrought (a)	149	174	207	260	361
Scrap	120	219	173	115	415
Switzerland					
Unwrought (a)	124	135	153	105	80
Scrap	178	140	69	171	127
United Kingdom					
Concentrates	3 525	3 256	3 667	3 646	1 291
Unwrought	1 123	2 689	568	281	3 394
Unwrought alloys	1 481	1 455	1 767	1 759	2 071
Scrap	1 403	1 389	4 416	875	1 519
Congo, Democratic Republic					
Concentrates (c)	*500	*700	----	...	...
Nigeria					
Unwrought	*80	*100	*100	...	...
Rwanda					
Concentrates	247	466	393	327	219
Zimbabwe					
Unwrought	137	----	11	----	...
Canada					
Unwrought (a)	1 161	1 316	1 465	988	467
Scrap	638	...	5 918	740	2 946
Jamaica					
Scrap	58	104	1 715	...	...

Exports of Tin

Country	1994	1995	1996	1997	1998
USA					
Unwrought (a)	4 916	5 399	6 730	6 043	6 284
of which, re-exports	2 358	2 614	1 950	1 380	1 228
Scrap	8 603	9 135	9 587	7 507	9 504
Bolivia					
Concentrates	2 533	2 454	3 748	3 554	2 601
Unwrought	15 380	12 915	11 326	12 424	10 382
Brazil					
Unwrought (a)	17 643	9 948	11 787	11 979	6 717
Peru					
Concentrates	44 863	37 099	38 271	31 627	20 900
China					
Concentrates	615	52	----	----	15
Unwrought	36 868	25 138	29 412	30 663	45 489
Unwrought alloys	7 511	18 169	6 716	10 425	8 084
Hong Kong					
Concentrates (b)	*2 200	769	821	914	132
Unwrought (a)	11 448	15 281	10 811	6 078	11 730
of which, re-exports	11 421	15 175	10 702	5 991	10 634
Scrap	157	66	227	229	270
India					
Unwrought (a) (d)	370	344	7 573	6 348	...
Indonesia					
Unwrought (a)	22 300	39 667	46 312	49 908	52 100
Scrap	22	----	62	181	198
Japan					
Concentrates	----	59	167	167	28
Unwrought (a)	170	69	193	211	289
Scrap	339	357	470	1 161	760
Jordan					
Scrap	...	120	1 071	1 720	...
Korea, Republic of					
Unwrought (a)	735	169	298	565	3 730
Scrap	----	28	90	12	37
Laos					
Concentrates (c)	360	736	1 060	730	920
Malaysia					
Unwrought (a)	38 935	35 216	34 342	31 785	22 376
Scrap	557	661	1 070	...	...
Singapore					
Concentrates (b)	1 757	1 388	1 370	1 617	2 057
Unwrought	31 904	33 740	38 656	43 502	40 655
of which, re-exports	30 378	32 181	36 554	...	38 891
Scrap	1 484	1 698	1 504	1 250	261
of which, re-exports	556	942	318	...	29
Taiwan					
Unwrought (a)	102	108	212	248	386
Scrap	202	454	728	760	1 529
Thailand					
Unwrought (a)	2 751	2 676	4 850	7 983	11 173
Vietnam					
Unwrought	2 300	2 300	*2 300	2 790	2 770
Australia					
Concentrates	13 227	15 877	15 726	17 069	15 590
Unwrought (a)	231	556	498	537	542
Scrap	2 657	323	277	1 789	1 492

Note(s):

(1) In this table the term 'unwrought' tin corresponds to item 687.1 of the Standard International Trade Classification (Revision 3) and comprises ingots, pigs, unwrought bars, sticks, etc.

(a) Including alloys

(b) Re-exports

(c) Sn content

(d) Years ended 31 March following that stated

Imports of Tin

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Unwrought (a)	855	970	822	806	641
Belgium-Luxembourg					
Unwrought	1 508	636	1 483	1 833	1 579
Unwrought alloys	1 067	1 087	864	584	1 062
Scrap	1 604	2 464	1 352	2 259	3 953
Croatia					
Unwrought (a)	*100	123	117	105	74
Czech Republic					
Unwrought (a)	584	415	526	587	436
Finland					
Unwrought (a)	97	261	241	352	377
France					
Concentrates	3	12	451	230	1 008
Unwrought	9 154	8 695	8 191	8 104	8 505
Unwrought alloys	656	1 059	608	386	905
Scrap	211	172	536	1 740	1 957
Germany					
Unwrought	19 950	21 343	19 685	20 735	21 195
Unwrought alloys	808	916	702	782	768
Scrap	731	278	248	400	416
Greece					
Unwrought (a)	360	454	491	502	296
Hungary					
Unwrought (a)	346	346	464	332	314
Irish Republic					
Unwrought (a)	265	317	343	363	288
Italy					
Unwrought	5 143	5 824	6 317	5 206	6 335
Unwrought alloys	220	196	258	590	437
Scrap	42	46	120	5	73
Netherlands					
Unwrought	8 953	8 990	10 180	12 945	13 345
Unwrought alloys	1 039	1 032	1 073	989	1 116
Scrap	390	230	203	370	793
Norway					
Unwrought	398	541	553	477	402
Unwrought alloys	70	93	90	81	104
Poland					
Unwrought	987	1 338	1 229	1 298	...
Portugal					
Unwrought	726	622	725	748	940
Unwrought alloys	239	416	458	276	411
Romania					
Unwrought (a)	536	569	511	434	412
Russia					
Concentrates (f)	2 548	2 778	9 239	2 693	...
Unwrought (a)	(b) *7 500	...	125	181	410
Slovakia					
Unwrought	588	414	607	8	746
Spain					
Concentrates	215	25	66	15	2
Unwrought	4 798	5 238	24 354	4 429	4 109
Unwrought alloys	135	889	1 516	719	497
Scrap	51	136	81	97	42
Sweden					
Unwrought	514	489	495	549	663
Unwrought alloys	166	240	62	276	308
Scrap	196	198	93	112	164
Switzerland					
Unwrought (a)	676	779	636	851	864
Turkey					
Unwrought (a)	835	1 095	1 409	1 234	1 335
Ukraine					
Unwrought	1 062	*1 100	368	288	48

Imports of Tin

Country	1994	1995	1996	1997	1998
United Kingdom					
Unwrought	13 067	9 767	10 010	14 768	10 749
Unwrought alloys	1 635	1 695	1 901	1 303	1 025
Scrap	1 035	562	557	456	474
Yugoslavia, Federal Republic of					
Unwrought (a)	*50	*50	107	206	123
Egypt					
Unwrought	190	209	4 024	209	...
Morocco					
Unwrought (a)	89	159	142	120	...
South Africa					
Unwrought (a)	2 425	2 219	2 425	2 391	1 823
Canada					
Unwrought	4 677	4 493	4 462	4 659	4 223
Scrap	305	319	489	701	451
Mexico					
Concentrates	1 098	705	1 760	1 746	1 541
Unwrought	1 255	1 183	1 537	1 534	2 772
Scrap	91	56	31	12	55
USA					
Unwrought	32 112	33 347	30 004	40 580	44 105
Unwrought alloys	8 744	11 321	11 828	3 869	1 319
Scrap	1 922	15 928	6 744	1 961	4 187
Argentina					
Unwrought	1 162	1 042	1 135	1 280	1 159
Bolivia					
Concentrates	11 340	12 015	7 826	8 550	----
Chile					
Unwrought	546	591	790	797	552
Colombia					
Unwrought (a)	440	301	293	291	336
Peru					
Unwrought (a)	185	182	128	154	...
Venezuela					
Unwrought (a)	328	875	669	353	...
China					
Concentrates	39	44	434	509	692
Unwrought	1 120	685	741	1 138	1 040
Unwrought alloys	969	1 569	1 320	1 512	1 948
Hong Kong					
Concentrates	969	849	100	1 699	82
Unwrought	11 391	12 224	11 135	5 619	8 991
Unwrought alloys	2 868	3 670	2 758	1 435	6 240
Scrap	7	50	200	232	226
India					
Concentrates (e)	1 149	1 441	2 478	5 016	...
Unwrought (a) (e)	4 224	3 172	5 049	4 203	...
Scrap (e)	475	1 318	1 779	26	...
Iran					
Unwrought (d)	142	347	...	...	...
Israel					
Unwrought (a)	*200	*200	*250	*300	...
Japan					
Unwrought	27 577	28 019	25 272	28 133	23 624
Unwrought alloys	3 226	2 958	2 294	2 488	2 480
Scrap	131	75	96	49	143
Korea, Republic of					
Unwrought	10 574	11 244	11 118	12 054	11 771
Unwrought alloys	113	275	733	198	257
Malaysia					
Concentrates	59 569	57 754	53 137	...	...
Unwrought (a)	5 265	7 210	8 046	*7 300	...
Pakistan					
Scrap	658	1 472	765	138	...

Imports of Tin

tonnes

Country	1994	1995	1996	1997	1998
Philippines					
Unwrought (a)	648	794	874	750	...
Singapore					
Concentrates	1 551	1 103	820	917	289
Unwrought	3 010	3 976	2 108	3 930	1 879
Scrap	551	856	684	652	589
Taiwan					
Unwrought	7 927	7 254	7 280	9 857	9 088
Unwrought alloys	1 762	2 445	2 656	2 862	3 026
Scrap	106	263	461	437	551
Thailand					
Unwrought (a)	4	1 438	209	87	...
Australia					
Unwrought (a)	809	825	945	2 476	2 750
New Zealand					
Unwrought (a) (c)	133	93	*400	83	90

Note(s) :-

(1) In this table the term 'unwrought' tin corresponds to item 687.1 of the Standard International Trade Classification (Revision 3) and comprises ingots, pigs, unwrought bars, sticks, etc.

- (a) Including alloys
- (b) BGS estimates, based on known exports from certain countries
- (c) Years ended 30 June of that stated
- (d) Years ended 20 March following that stated
- (e) Years ended 31 March following that stated
- (f) Sn content

Production of Titanium Minerals

Country	1994	1995	1996	1997	1998
Norway					
Ilmenite	826 391	857 747	758 711	557 000	589 500
Russia					
Ilmenite	7 000	...	...	...	...
Ukraine					
Ilmenite	530 000	359 000	*250 000	*250 000	*250 000
Rutile	80 000	112 000	*50 000	*50 000	*50 000
Egypt					
Ilmenite (a)	----	----	57 000	53 496	57 495
Sierra Leone					
Ilmenite	53 500	----	...	...	----
Rutile	144 312	...	5 924	...	----
South Africa					
Ilmenite (b)	*1 314 000	*1 680 000	*1 700 000	*1 853 000	*1 836 000
Rutile	*90 000	*90 000	*110 000	*115 000	*115 000
Canada					
Ilmenite (b) (c)	*2 200 000	*2 200 000	*2 500 000	*2 400 000	*2 800 000
USA	...	...	...	...	(d) 601 000
Brazil					
Ilmenite	97 439	102 125	125 520	97 174	103 000
Rutile	1 911	1 985	1 771	1 742	1 800
China					
Ilmenite	216 500	...	...	218 200	58 200
India					
Ilmenite (e)	297 444	298 369	*330 000	332 727	377 907
Rutile (e)	13 438	12 963	*14 000	14 365	16 039
Malaysia					
Ilmenite	116 696	151 680	244 642	167 504	*125 000
Sri Lanka					
Ilmenite	65 458	54 311	66 456	22 533	37 148
Rutile	2 471	2 884	3 532	2 968	1 930
Thailand					
Ilmenite	1 600	----	----	----	----
Rutile	49	----	----	----	----
Leucoxene	77	33	----	----	----
Vietnam					
Ilmenite	...	...	...	90 000	99 000
Australia					
Ilmenite	1 777 000	1 980 000	2 030 000	2 233 000	2 380 000
Rutile	233 000	204 000	183 000	234 000	255 000
Leucoxene	33 000	31 000	30 000	32 000	30 000
World Total					
Ilmenite (wt. of concs) (f)	7 600 000	8 000 000	8 400 000	8 300 000	8 700 000
Rutile (wt. of concs) (f)	565 000	424 000	368 000	418 000	440 000
All forms (TiO ₂ content) (f)	*4 000 000	*4 100 000	*4 200 000	*4 200 000	*4 400 000

Note(s):

- (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, Taiwan and USA

- (a) Years ended 30 June of that stated
(b) Processed into slag. In 1998 South Africa produced an estimated 1008000 tonnes (85% TiO₂) and Canada produced 1034000 tonnes (80-95% TiO₂)
(c) Canada produces some ilmenite which is sold as such and not processed into slag, but tonnages are small
(d) Including synthetic rutile
(e) Years ended 31 March following that stated
(f) Figures exclude USA

Exports of Titanium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	92	116	167	239	121
Oxides	1 328	3 317	1 565	2 194	2 195
Belgium-Luxembourg					
Metal	612	1 057	439	569	870
Oxides	190 072	202 601	213 330	243 120	259 406
Czech Republic					
Oxides	23 400	20 100	17 900	21 682	23 423
Estonia					
Metal	(b) *250	19	183	49	(b) *60
Finland					
Oxides (b)	*60 000	*44 200	*32 900	*57 200	*50 000
France					
Titanium minerals	4 877	2 331	2 931	1 443	868
Metal	2 169	2 365	2 339	4 470	4 510
Oxides	168 672	176 727	175 744	212 059	184 689
Georgia					
Metal	(b) *150	58	----	----	...
Germany					
Titanium minerals	1 119	1 141	970	588	11 251
Metal	2 579	3 991	4 092	4 092	3 570
Oxides	239 809	219 166	237 877	277 670	267 996
Greece					
Oxides	200	400	1 000	1 400	820
Italy					
Metal	1 320	2 634	4 534	3 559	4 595
Oxides	59 335	32 417	25 780	37 264	39 792
Netherlands					
Titanium minerals	12 705	6 226	7 992	8 693	2 209
Metal	140	828	1 091	1 185	1 309
Oxides	(b) *48 200	(b) *48 800	(b) *39 100	68 626	71 717
Norway					
Titanium minerals	559 078	461 240	400 932	...	...
Oxides (b)	*18 000	*16 500	*24 500	*28 100	*26 900
Poland					
Oxides	16 100	16 000	13 500	(b) *13 400	(b) *12 000
Russia					
Metal	20 005	19 504	28 879	33 826	27 854
Slovenia					
Oxides	27 300	27 000	21 688	32 707	31 848
Spain					
Metal	25	82	363	236	350
Oxides	43 200	37 480	53 695	55 761	51 446
Sweden					
Metal	837	1 187	998	805	1 392
Oxides	2 191	3 935	7 478	6 013	7 150
Switzerland					
Metal	258	293	317	233	311
Oxides	647	637	621	567	443
Turkey					
Metal	30	103	28	62	788
Ukraine					
Titanium minerals	...	126 822	122 590	211 877	231 419
Metal	(b) *2 200	(b) *700	730	1 664	1 785
Oxides	...	...	36 645	35 418	39 543
United Kingdom					
Metal	8 221	10 145	11 028	12 379	11 284
Oxides	176 163	157 124	148 315	158 332	166 544
Sierra Leone					
Ilmenite	59 000	...	...	...	...
Rutile	156 600	...	...	5 924	...
South Africa					
Titanium minerals (b)	*175 900	*207 500	*316 600	*258 400	*315 200
Titanium slag (b)	*564 700	*528 000	*579 500	*525 900	*549 900
Oxides (b)	...	*6 800	*7 200	*10 300	*15 100

Exports of Titanium

Country	1994	1995	1996	1997	1998
Canada					
Titanium minerals & slag	*900 000	*900 000	*1 100 000	*800 000	*1 000 000
Metal	516	731	666	492	930
Oxides	72 272	88 923	70 627	80 855	88 167
Mexico					
Oxides	57 436	62 566	64 953	25 406	...
USA					
Titanium minerals	19 823	33 400	15 825	24 359	60 374
Metal	10 134	11 256	13 392	17 175	17 449
Oxides	354 870	344 261	340 137	405 072	400 614
Brazil					
Oxides	4 794	4 503	5 239	8 155	13 320
China					
Titanium minerals	5 496	5 819	24 912	18 673	1 828
Metal	767	1 627	1 974	2 108	1 721
Oxides	20 071	27 852	24 223	26 904	34 572
Hong Kong					
Oxides (c)	22 028	24 477	24 826	27 083	23 703
India					
Ilmenite (a)	177 674	207 812	42 961	109 312	...
Other titanium minerals (a)	9 971	11 240	7 399	8 955	...
Israel					
Metal (b)	*200	*300	*400	*300	*200
Japan					
Titanium minerals	11 446	9	35	10	48
Metal	11 548	12 471	15 855	24 193	19 418
Oxides	83 400	80 455	77 740	94 876	97 371
Kazakhstan					
Metal	(b) *2 200	9 183	12 953	18 493	17 571
Korea, Republic of					
Titanium minerals	108 040	64 400	59 920	36 190	24 320
Oxides	11 878	13 442	17 567	16 375	20 885
Kyrgyzstan					
Metal (b)	...	*100	*300	*100	*100
Malaysia					
Ilmenite	157 130	169 001	115 122	...	...
Oxides	34 825	40 872	49 584	...	...
Singapore					
Oxides	10 353	20 952	23 939	42 526	39 268
of which, re-exports	7 625	7 019	9 757	7 604	5 338
Sri Lanka					
Ilmenite	...	...	1 093	30 000	...
Rutile	882	4 193	21 282	100	...
Other titanium minerals	160	20 000	...	...	...
Taiwan					
Metal	108	118	...	391	767
Oxides	25 200	58 691	71 916	47 795	72 876
Thailand					
Ilmenite	15 023	23 112	4 178	3 106	...
Vietnam					
Titanium minerals	...	...	...	90 000	99 000
Australia					
Ilmenite	1 084 086	1 075 241	1 062 364	1 349 892	1 285 873
Rutile	209 495	220 939	168 763	207 604	217 863
Leucoxene	18 413	18 550	28 698	33 623	21 094
Oxides	116 660	122 293	130 692	132 155	133 619

Note(s):

- (1) So far as possible, the term 'oxides', as used in this table, includes oxides and oxide based pigments classified under Standard International Trade Classification (Revision 3) items 522.56 and 533.1
- (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

- (a) Years ended 31 March following that stated
- (b) BGS estimates, based on known imports into certain countries
- (c) Re-exports

Imports of Titanium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	208	292	338	510	608
Oxides	16 965	17 542	15 896	20 658	18 986
Belgium-Luxembourg					
Ilmenite	23 756	20 901	3 091	262	413
Other titanium minerals	64 952	68 581	57 625	50 007	82 705
Metal	1 973	1 348	1 212	1 030	1 363
Oxides	48 617	53 877	57 475	163 638	179 944
Bulgaria					
Titanium minerals	(b) *800	1 260	479	670	...
Croatia					
Oxides	1 600	2 512	2 648	2 569	2 269
Czech Republic					
Titanium minerals	65 900	77 800	56 200	55 949	61 093
Oxides	2 000	2 300	2 600	3 113	3 002
Denmark					
Metal	779	659	629	1 097	785
Oxides	16 017	14 917	14 067	17 451	16 203
Finland					
Titanium minerals	*106 400	*117 000	*105 000	...	...
Oxides	2 428	6 848	6 908	8 860	9 082
France					
Ilmenite	53 598	87 049	37 667	52 490	81 127
Other titanium minerals	129 167	150 076	117 162	96 119	141 575
Titanium slag	131 337	...	159 761	92 773	...
Metal	3 252	3 846	4 942	7 343	7 472
Oxides	90 329	91 826	115 143	123 629	124 028
Germany					
Ilmenite	404 912	351 729	342 250	236 404	345 057
Other titanium minerals	16 810	58 209	251 050	195 479	277 325
Titanium slag	239 540	255 902	81 392	127 137	...
Metal	6 721	7 636	7 973	9 426	8 560
Oxides	154 657	162 088	153 144	153 104	182 501
Greece					
Titanium minerals	790	474	1 045	600	774
Oxides	18 033	18 842	17 672	20 728	22 639
Hungary					
Oxides	5 200	4 600	5 400	6 300	...
Irish Republic					
Oxides	5 915	5 500	2 094	3 740	3 411
Italy					
Titanium minerals	3 647	2 341	4 689	1 654	5 145
Titanium slag	79 779	...	...	67 407	...
Metal	3 169	4 618	5 845	5 031	6 254
Oxides	120 122	113 655	116 220	138 209	141 229
Netherlands					
Ilmenite	12 538	2 789	...	...	6 085
Other titanium minerals	66 856	54 602	(e) 62 820	(e) 47 130	28 515
Metal	887	1 442	1 561	3 104	2 397
Oxides	66 856	70 005	61 571	69 661	73 719
Norway					
Titanium minerals	38 997	13 444	29 637	352	122
Metal	381	540	538	638	1 139
Oxides	7 959	8 010	6 986	7 540	8 948
Poland					
Titanium minerals	90 035	70 585	62 500	69 800	...
Oxides	4 800	8 700	8 400	...	...
Portugal					
Oxides	15 300	15 800	18 100	17 784	18 995
Romania					
Titanium minerals	904	1 405	2 295	2 219	3 281
Oxides	2 121	3 727	2 034	2 617	3 633
Russia					
Titanium minerals	*70 000	71 600	76 518	89 925	93 599
Metal	...	...	478	1 049	2 615
Oxides	*24 900	30 100	28 571	29 658	28 319
Slovakia					
Oxides	2 600	3 000	...	2 293	...

Imports of Titanium

Country	1994	1995	1996	1997	1998
Spain					
Ilmenite	129 633	102 621	138 171	155 093	122 165
Other titanium minerals	2 109	2 185	...	1 706	2 181
Metal	1 188	1 523	1 465	1 583	1 957
Oxides	56 600	58 080	63 339	76 095	79 856
Sweden					
Titanium minerals	1 422	1 183	658	422	700
Metal	1 588	376	401	367	585
Oxides	30 027	33 690	33 705	36 856	35 384
Switzerland					
Oxides	20 399	18 667	18 452	19 861	19 737
Turkey					
Titanium minerals	3 933	3 161	7 343	5 514	5 824
Oxides	30 349	38 767	44 462	60 872	53 710
United Kingdom					
Ilmenite	104 384	128 270	164 050	156 649	100 765
Other titanium minerals	172 846	100 275	75 937	93 122	181 420
Titanium slag	67 668	74 027	91 045	99 308	119 386
Metal	15 758	17 682	18 495	28 117	30 572
Oxides	65 679	76 926	83 245	80 138	103 021
Yugoslavia, Federal Republic of					
Oxides	...	...	1 500	877	2 987
Algeria					
Oxides	6 400	8 000	7 717	5 778	...
Egypt					
Titanium minerals	600	1 200	1 400	1 346	...
Oxides	7 500	9 000	8 035	8 969	...
Morocco					
Oxides	6 900	7 098	6 000	6 468	...
South Africa					
Oxides	10 371	8 584	6 383	7 427	9 120
Tunisia					
Oxides	4 392	4 500	3 851	3 990	...
Canada					
Titanium minerals	34 963	33 596	7 382	8 458	4 737
Metal	1 842	2 037	2 033	1 692	1 908
Oxides	111 299	106 322	84 683	110 686	117 814
Mexico					
Ilmenite	99 524	119 720	143 836	119 540	174 418
Rutile sand	671	648	813	1 245	1 088
Titanium slag	22 540	15 002	20 199	37 343	20 001
Oxides	21 915	16 051	30 991	57 539	55 984
USA					
Ilmenite	379 478	583 247	608 336	565 461	402 961
Rutile (c)	318 117	310 861	324 482	345 842	386 983
Titanium slag	484 133	404 132	421 140	429 919	626 258
Metal	15 829	23 403	35 709	37 547	27 772
Oxides	175 969	182 863	167 044	194 269	199 913
Argentina					
Titanium minerals	2 204	1 478	2 061	1 948	2 321
Oxides	25 444	22 681	29 337	29 688	31 625
Brazil					
Rutile	827	1 168	863	1 195	1 062
Oxides	40 542	66 282	64 344	69 578	70 433
Chile					
Oxides	8 662	8 924	4 957	10 961	10 154
Colombia					
Oxides	16 212	14 274	12 612	16 052	13 812
Uruguay					
Oxides	2 410	2 593	1 750	2 582	2 771
Venezuela					
Oxides	8 244	14 867	8 508	13 578	...

Imports of Titanium

tonnes

Country	1994	1995	1996	1997	1998
China					
Titanium minerals	962	21 501	56 622	29 850	20 520
Metal	1 640	1 765	2 684	2 315	3 201
Oxides	59 235	59 966	92 886	100 610	89 782
Cyprus					
Oxides	940	1 113	850	1 148	963
Hong Kong					
Oxides	32 530	32 600	33 197	38 452	34 287
India					
Titanium minerals (d)	2 071	1 944	5 167	7 230	...
Oxides (d)	18 094	14 549	31 981	27 729	...
Indonesia					
Titanium minerals	2 167	2 794	2 535	1 500	2 575
Oxides	43 499	30 265	14 007	13 240	23 106
Israel					
Oxides	*15 000	*11 000	*10 000	12 833	10 424
Japan					
Titanium minerals	399 800	437 638	402 325	408 705	468 445
Metal	4 622	6 914	8 828	13 041	11 694
Oxides	90 666	96 152	100 243	102 809	82 817
Jordan					
Oxides	4 082	2 826	*2 900	3 487	...
Korea, Republic of					
Rutile sand	11 446	----	----	12 259	9 383
Titanium minerals	76 803	94 905	68 602	165 097	149 357
Metal	2 978	2 980	2 208	3 582	2 712
Oxides	80 540	85 447	78 255	91 455	65 826
Malaysia					
Titanium minerals	71 590	83 000	117 628	...	...
Oxides	22 728	13 552	44 161	...	...
Oman					
Oxides	600	500	*700	851	...
Pakistan					
Oxides (a)	6 515	...	7 249	7 895	9 611
Philippines					
Titanium minerals	2 637	2 390	2 414	1 422	...
Oxides	25 977	25 452	24 249	29 161	...
Saudi Arabia					
Titanium minerals	60 690	122 414	69 311	105 695	50 157
Oxides	5 981	2 665	2 579	1 598	2 814
Singapore					
Titanium minerals	39 100	46 200	43 700	52 849	32 307
Oxides	11 662	14 289	25 140	21 163	18 774
Taiwan					
Titanium minerals	47 313	84 493	75 232	117 431	103 828
Metal	724	1 213	1 950	3 467	2 419
Oxides	89 327	73 784	59 145	45 186	60 625
Thailand					
Rutile	5 127	6 103	5 725	6 153	...
Other titanium minerals	4 083	4 473	4 882	5 792	...
Oxides	41 582	39 920	38 993	42 550	...
Australia					
Titanium minerals	22 645	1 213	419	299	15 620
Metal	208	152	346	576	555
Oxides	1 447	1 125	1 004	330	1 082
New Zealand					
Oxides (a)	9 006	9 116	10 300	9 434	8 810

Note(s) :-

- (1) Significant quantities of titanium slag are traded, but it is not always possible to identify this material in national trade accounts
- (2) So far as possible, the term 'oxides', as used in this table, includes oxides and oxide based pigments classified under Standard International Trade Classification (Revision 3) items 522.56 and 533.1
- (3) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

- (a) Years ended 30 June of that stated
- (b) BGS estimates, based on known exports from certain countries
- (c) Including synthetic rutile
- (d) Years ended 31 March following that stated
- (e) Including ilmenite

Mine Production of Tungsten

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Austria	----	568	1 072	1 138	1 077
Portugal (a)	60	873	777	1 029	821
Russia (a)	3 392	4 568	4 500	4 500	...
Burundi	----	*22	*16	*16	*10
Congo, Democratic Republic (b)	*15	...	...	...	...
Rwanda	----	46	104	78	30
Uganda	12	17	----	...	8
Mexico	----	287	188	179	130
USA	*50	----	----	----	----
Bolivia	462	655	581	513	497
Brazil (c)	196	98	99	40	...
Peru	205	577	263	226	60
China	27 010	27 470	26 650	25 030	23 845
Kazakhstan	154	314	96	...	...
Korea, Dem. P.R. of	*900	*900	*900	*900	*900
Kyrgyzstan	*100	*100	*100	*100	...
Mongolia	17	62	22	48	67
Myanmar (b)	544	531	334	272	*200
Tajikistan	*100	*75	*50	----	----
Thailand (a)	115	45	35	28	29
Uzbekistan	*300	*300	*300	*250	*200
Vietnam	20	50	130	210	*60
Australia (d) (e)	21	31	61	2	4
World Total	33 700	37 600	36 300	34 700	32 700

Note(s):

- (a) Wolframite and scheelite
- (b) Including tungsten content of tin-wolframite concentrates
- (c) Mainly scheelite
- (d) Scheelite
- (e) Years ended 30 June of that stated

Exports of Tungsten

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Metal	819	1 248	1 265	1 060	830
Belgium-Luxembourg					
Metal	168	146	207	177	157
Czech Republic					
Ores & concentrates	119	94	128	137	106
Metal	100	200	100	116	174
France					
Metal	508	362	398	518	449
Carbide	237	315	358	350	...
Germany					
Metal	1 482	1 245	1 494	1 555	1 426
Italy					
Metal	271	250	190	373	446
Netherlands					
Ores & concentrates	1 289	...	10	20	388
Metal	348	556	414	432	417
Poland					
Ores & concentrates	52	846	----	----	...
Metal	32	----	56	97	...
Portugal					
Ores & concentrates	...	...	1 319	1 881	1 269
Russia					
Ores & concentrates	(d) *5 000	(d) *4 700	3 226	8 843	5 446
Metal (d)	*250	*450	*930	*510	*730
Spain					
Metal	13	15	20	108	71
Sweden					
Metal	67	44	31	134	53
Carbide	575	...	...	255	...
Switzerland					
Metal	53	127	54	137	171
United Kingdom					
Metal	649	862	1 074	1 939	2 436
Carbide	116	781	807	270	292
Rwanda					
Ores & concentrates	----	19	43	63	...
Uganda					
Ores & concentrates	91	156	76	40	51
Mexico					
Ores & concentrates	124	367	234	279	198
USA					
Metal	1 839	2 034	1 586	1 832	2 693
Ammonium paratungstate (a)	250	289	152	121	287
Carbide	1 320	1 686	1 316	1 104	1 210
Bolivia					
Ores & concentrates	836	1 174	1 030	917	893
Peru					
Ores & concentrates	771	1 199	839	328	...
China					
Ores & concentrates	1 133	260	140	751	190
Metal	1 059	1 312	1 262	1 041	1 561
Ammonium paratungstate	12 946	17 731	12 425	14 596	12 675
Carbide (d)	*150	*100	...	...	...
Hong Kong					
Ores & concentrates (c)	2 611	157	3 179	362	245
India					
Metal (b)	18	50	203	95	...
Israel					
Metal (d)	*340	*160	*260	*340	*400
Japan					
Metal	1 348	1 424	1 437	1 300	1 586

Exports of Tungsten

Country	1994	1995	1996	1997	1998
Korea, Republic of					
Metal	352	480	567	608	700
Carbide	727	...	1 086	1 071	1 158
Myanmar					
Ores & concentrates	*300	*300	*300	...	...
Singapore					
Ores & concentrates (c)	850	843	776	464	311
Metal	117	143	151	189	177
Taiwan					
Metal	122	58	...	183	319
Thailand					
Ores & concentrates	227	164	213	303	...
Australia					
Ores & concentrates	104	280	----	16	20
Metal	16	88	7	52	34

Note(s):

- (1) Significant amounts of tungsten are traded in the forms of ammonium paratungstate (APT) and carbide. Though statistics are included where available, most countries do not separately distinguish these forms in their trade accounts
 - (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys
- (a) W content
 - (b) Years ended 31 March following that stated
 - (c) Re-exports
 - (d) BGS estimates, based on known imports into certain countries

Imports of Tungsten

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Ores & concentrates	3 014	1 000	300	1 800	...
Metal	563	747	730	355	459
Belgium-Luxembourg					
Metal	330	327	197	382	378
Carbide	183	207	137	100	...
Czech Republic					
Metal	100	200	100	125	89
Finland					
Metal	36	16	88	86	76
France					
Metal	398	628	*600	393	685
Carbide	427	387	329	224	...
Germany					
Ores & concentrates	604	947	378	272	479
Metal	2 019	2 331	2 329	2 376	3 131
Carbide	752	968	667	1 059	1 091
Irish Republic					
Metal	21	269	314	586	335
Italy					
Metal	179	169	135	173	278
Carbide	382	...	...	430	...
Netherlands					
Ores & concentrates	9	----	68	171	405
Metal	287	329	546	*400	270
Russia					
Metal	...	...	166	87	158
Spain					
Metal	115	154	99	45	52
Sweden					
Metal	547	304	388	393	338
Carbide	528	...	...	839	...
Switzerland					
Metal	88	88	120	146	112
United Kingdom					
Metal	1 180	1 222	1 614	1 889	2 139
Carbide	300	1 601	1 041	1 357	2 296
South Africa					
Metal	43	30	7	74	155
Carbide	210	----	...	260	262
Canada					
Metal	168	221	149	217	201
Carbide	421	402	400	...	...
Mexico					
Metal	189	213	219	...	305
USA					
Ores & concentrates	6 616	7 443	7 627	8 616	8 606
Metal	2 945	2 950	2 686	2 462	2 485
Ammonium paratungstate (a)	848	1 290	1 580	2 100	2 292
Carbide	308	533	491	699	999
China					
Ores & concentrates	909	2 814	2 693	2 564	1 474
Metal	171	118	151	138	127
Hong Kong					
Ores & concentrates	1 162	28	614	189	1
Metal	32	5	12	92	109
India					
Ores & concentrates (c)	839	480	315	440	...
Metal (c)	105	229	123	294	...
Indonesia					
Metal	55	31	41	316	128
Israel					
Metal (b)	*200	*100	...	...	...

Imports of Tungsten

Country	1994	1995	1996	1997	1998
Japan					
Ores & concentrates	236	551	478	1 473	1 881
Metal	807	970	871	895	750
Korea, Republic of					
Metal	141	120	110	124	170
Malaysia					
Metal	341	...	...	...	...
Singapore					
Ores & concentrates	858	913	317	103	66
Metal	176	143	137	167	147
Taiwan					
Metal	136	164	171	197	264
Australia					
Metal	86	167	85	110	96

Note(s) :-

- (1) Significant amounts of tungsten are traded in the forms of ammonium paratungstate (APT) and carbide. Though statistics are included where available, most countries do not separately distinguish these forms in their trade accounts
 - (2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys
- (a) W content
 (b) BGS estimates, based on known exports from certain countries
 (c) Years ended 31 March following that stated

Mine Production of Vanadium

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Hungary	*200	*200	*200	*200	*100
Russia	*11 900	*11 000	*11 000	*9 000	*9 000
South Africa	13 054	14 122	14 766	15 590	*17 000
USA	*1 500	*2 700	*900	...	...
China	*5 400	*13 700	*14 000	*14 500	*14 700
Kazakhstan	878	924	*900	*900	*1 000
World Total	32 900	42 600	41 800	41 100	42 700

Note(s):

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

Exports of Vanadium

Country	1994	1995	1996	1997	1998
Austria					
Pentoxide	163	817	472	...	...
Belgium-Luxembourg					
Vanadiferous residues	3 533	779	6 930	4 097	...
Pentoxide	13	176	60	4	28
Vanadium-titanium pig iron	----	...	16	149	...
Denmark					
Vanadium-titanium pig iron	16	39	135	13	67
France					
Pentoxide	361	178	17	2	86
Metal	21	3	...	59	2
Germany					
Vanadiferous residues	122	360	566	364	189
Pentoxide	99	70	201	296	163
Metal	374	511	320	659	581
Italy					
Vanadiferous residues	123	...	...	55	...
Netherlands					
Pentoxide	50	59	...	217	258
Russia					
Pentoxide	...	...	...	4 453	2 430
Metal	...	...	15	61	51
United Kingdom					
Metal	31	1	7	270	...
South Africa					
Pentoxide (b)	12 427	12 736	14 322	15 723	...
Mexico					
Vanadiferous residues	3 142	2 039	1 556	1 384	4 298
USA					
Pentoxide	1 389	1 244	2 974	1 108	743
China					
Vanadiferous residues	16 627	...	11 018	...	...
Pentoxide	7 421	6 457	4 299	6 465	7 586
New Zealand					
Vanadiferous residues (a)	5 210	4 000	----	----	----

Note(s):

- (1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any
(2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Years ended 30 June of that stated

(b) Includes vanadium content of pentoxide and vanadiferous residues

Imports of Vanadium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Vanadiferous residues	*25 000	*25 000	*25 000	*25 000	*25 000
Pentoxide	1 603	2 324	3 174	3 110	2 030
Metal	110	379	----	45	88
Belgium-Luxembourg					
Pentoxide	6 295	4 741	3 330	3 342	1 389
France					
Ores & concentrates	29	183	427	509	374
Pentoxide	231	335	246	406	476
Metal	30	36	...	875	114
Germany					
Vanadiferous residues	14	----	133	43	133
Pentoxide	1 874	1 496	730	926	918
Metal	7	5	32	24	47
Italy					
Pentoxide	124	...	...	373	447
Netherlands					
Pentoxide	11	1 078	...	640	2 983
Metal	81	9	10	5	9
Russia					
Pentoxide	...	...	...	204	232
Metal	...	...	158	534	316
Slovakia					
Pentoxide (a)	*380	...	...	...	...
Spain					
Vanadiferous residues	236	...	...	122	181
Sweden					
Metal	69	45	71	58	96
United Kingdom					
Pentoxide	139	116	73	161	156
Metal	61	236	368	628	690
Tunisia					
Pentoxide	134	...	134	334	...
Canada					
Pentoxide	1 532	2 250	1 986	2 316	2 332
USA					
Vanadiferous residues	4 754	7 713	5 593	9 543	24 069
Ores & concentrates	...	...	...	...	----
Pentoxide	442	1 036	873	1 425	1 381
Metal	713	847	96	525	11
Brazil					
Pentoxide	602	318	328	58	58
China					
Vanadiferous residues	20 434	18 671	2 001	3 001	10 123
Metal	3 205	----	1 022	30	1
Japan					
Pentoxide	4 501	4 920	4 675	5 322	5 043
Metal	134	166	148	226	190
Korea, Republic of					
Pentoxide	297	714	1 332	2 259	1 705
Taiwan					
Vanadiferous residues	...	47	...	171	336
Metal	28	44	...	63	27
Australia					
Pentoxide	7	17	23	232	31
Metal	106	135	152	123	10

Note(s) :-

- (1) In this table the term 'pentoxide' also includes vanadium oxides and hydroxides, if any
(2) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

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

Mine Production of Zinc

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Armenia	...	...	...	300	500
Bosnia & Herzegovina	*300	*300	*300	*300	*300
Bulgaria	30 000	30 000	28 000	25 700	16 000
Czech Republic	100	----	----	----	----
Finland	16 900	16 385	26 294	31 200	30 700
Georgia	*2 000	*2 000	*1 000	*1 000	*1 000
Greece	17 605	15 083	7 230	17 627	19 851
Irish Republic	194 000	183 500	164 500	193 100	177 200
Italy	22 906	23 100	11 000	8 500	2 500
Macedonia	21 500	20 800	21 400	26 800	27 000
Norway	15 586	11 180	8 990	6 700	1 800
Poland	151 000	154 500	159 000	158 271	157 900
Romania	35 357	36 737	30 945	31 737	25 620
Russia	147 000	131 100	120 000	121 000	114 000
Slovenia	1 000	----	----	----	----
Spain	151 370	172 381	145 468	147 098	128 200
Sweden	159 858	167 962	160 133	155 385	164 711
Turkey	34 000	65 300	68 000	63 800	57 700
Yugoslavia, Federal Republic of	6 794	5 976	15 100	12 800	15 200
Algeria	5 000	3 600	3 000	3 500	4 300
Congo, Democratic Republic	500	4 518	3 182	1 686	1 234
Morocco	78 561	79 849	81 316	89 141	112 000
Namibia	33 414	30 209	34 377	39 658	42 142
South Africa	76 361	71 118	76 853	71 062	69 630
Tunisia	12 900	44 200	31 920	2 967	31 367
Zambia	1 000	----	----	----	----
Canada	1 010 712	1 121 172	1 222 386	1 076 385	1 064 541
Honduras	23 611	27 117	37 037	39 483	36 639
Mexico	358 953	352 930	348 328	377 861	371 898
USA	597 576	643 877	628 063	631 900	755 000
Argentina	26 933	32 104	31 093	33 357	35 560
Bolivia	100 742	146 131	145 092	154 491	152 110
Brazil	177 585	188 472	117 341	152 634	87 475
Chile	31 038	35 403	36 004	33 934	15 943
Peru	690 017	692 290	760 353	867 691	868 757
China	990 300	1 000 600	1 161 000	1 209 900	1 273 200
India	147 300	154 500	154 000	142 200	194 500
Iran	72 900	72 500	76 300	76 500	97 400
Japan	100 653	95 274	79 709	71 569	67 670
Kazakhstan	148 070	148 068	158 053	224 051	224 300
Korea, Dem. P.R. of	*90 000	*90 000	*80 000	60 000	44 000
Korea, Republic of	7 122	7 747	8 384	8 992	10 489
Myanmar	1 316	721	572	*500	700
Saudi Arabia	----	----	----	619	3 550
Thailand	59 400	13 500	18 100	9 100	19 500
Uzbekistan	*31 000	*24 000	*12 000	*2 000	1 100
Vietnam	*11 900	*12 000	*16 000	*17 000	*26 000
Australia	955 000	937 000	1 076 000	1 035 000	1 066 000
World Total	6 800 000	7 100 000	7 400 000	7 400 000	7 600 000

Production of Slab Zinc

tonnes

Country	1994	1995	1996	1997	1998
Belgium	211 200	211 100	207 400	213 600	205 000
Bulgaria	76 700	79 700	79 800	81 800	83 100
Finland	173 244	176 583	175 635	175 333	198 940
France	304 900	313 900	324 300	317 300	320 400
Germany	359 880	322 460	328 100	317 679	333 968
Italy	255 900	260 200	268 700	268 300	231 600
Macedonia	41 984	40 600	54 700	54 900	54 000
Netherlands	212 600	206 300	207 400	200 500	217 100
Norway	136 761	130 800	135 100	142 249	137 925
Poland	154 400	162 700	163 100	170 600	174 800
Portugal	4 000	4 000	3 600	*3 600	*4 000
Romania	21 600	29 300	28 200	29 800	29 400
Russia	138 000	166 400	172 000	189 000	196 400
Spain	298 700	358 200	360 800	370 911	365 767
Turkey	19 600	18 900	23 700	37 458	35 800
Ukraine	14 000	5 000	*2 000	*2 000	*1 000
United Kingdom	101 300	105 998	96 867	107 704	99 600
Yugoslavia, Federal Republic of	4 000	5 976	29 954	29 454	13 600
Algeria	24 300	27 200	29 300	*30 000	*29 000
Congo, Democratic Republic	600	500	100	-----	-----
South Africa	92 800	98 700	101 100	109 900	112 000
Zambia	141	-----	-----	-----	-----
Canada	690 965	720 346	716 467	703 798	743 170
Mexico	209 200	222 748	221 736	231 444	230 325
USA	356 000	363 000	366 000	367 000	367 600
Argentina	38 014	38 567	39 292	41 772	41 777
Brazil	194 300	200 976	193 339	192 701	184 070
Peru	158 935	158 987	173 139	166 105	174 655
China	1 077 600	1 076 700	1 163 800	1 434 400	1 486 300
India	156 400	158 500	149 000	166 000	178 300
Iran (a)	709	2 437	5 742	*15 000	*18 000
Japan	665 502	663 562	599 053	603 112	607 899
Kazakhstan	172 531	169 171	170 081	188 996	241 551
Korea, Dem. P.R. of	*100 000	*95 000	*90 000	*55 000	*43 000
Korea, Republic of	271 875	279 335	286 604	335 488	390 079
Thailand	71 099	56 852	72 380	84 054	88 700
Uzbekistan	*40 000	70 000	45 000	53 000	38 000
Australia	333 000	330 000	336 000	318 000	320 000
World Total	7 200 000	7 300 000	7 400 000	7 800 000	8 000 000

Note(s):

(a) Years ended 20 March following that stated

Exports of Zinc

Country	1994	1995	1996	1997	1998
Austria					
Unwrought (a)	3 570	5 038	2 977	13 108	14 955
Scrap	1 922	2 607	2 869	3 079	3 537
Belgium-Luxembourg					
Ore	185 019	388 192	1 095 059	1 130 638	607 159
Unwrought	148 415	166 695	144 912	143 121	105 298
Unwrought alloys	132 272	156 204	147 851	-----	-----
Scrap	16 696	20 395	21 203	36 920	26 148
Bulgaria					
Unwrought (a)	57 800	62 623	72 093	67 196	...
Czech Republic					
Unwrought (a)	1 000	300	300	3 008	758
Scrap	4 000	4 100	3 700	4 794	2 509
Denmark					
Scrap	7 115	6 371	5 744	7 038	6 069
Estonia					
Unwrought (b)	*1 500	*200	...	...	...
Scrap (b)	...	*1 700	*1 400	*1 300	...
Finland					
Unwrought	137 476	125 664	137 317	128 746	155 494
Unwrought alloys	4 218	4 644	2 918	4 842	4 250
Scrap	8 567	9 517	7 700	9 344	8 363
France					
Ore	7 791	33 884	10 146	16 407	19 655
Unwrought	129 894	67 390	226 741	177 074	143 683
Unwrought alloys	3 952	3 940	5 567	7 479	15 376
Scrap	20 669	25 554	28 116	39 161	37 834
Germany					
Ore	29 539	43 318	46 030	41 710	56 509
Unwrought	109 632	63 397	70 130	49 088	53 350
Unwrought alloys	19 331	25 362	27 710	38 446	37 150
Scrap	20 218	24 589	29 044	33 795	35 691
Greece					
Ores & concentrates	26 578	28 778	8 503	32 501	42 878
Unwrought (a)	62	604	719	300	1 211
Scrap	1 396	1 873	1 198	1 552	700
Hungary					
Unwrought	...	...	467	1 153	841
Scrap	2 359	2 047	1 961	2 259	2 574
Irish Republic					
Ores & concentrates	340 281	325 529	282 567	347 300	315 099
Italy					
Ore	48	103	2 474	18 326	24 546
Unwrought	17 026	13 695	40 392	15 616	8 731
Unwrought alloys	11 218	9 807	13 329	15 425	10 739
Scrap	4 558	9 389	8 773	9 138	6 915
Latvia					
Unwrought (b)	...	*600	*200	*2 000	*1 000
Macedonia					
Unwrought (b)	*6 900	*13 700	*20 500	*33 400	*30 200
Netherlands					
Unwrought	164 897	192 938	166 630	193 761	254 995
Unwrought alloys	26 929	37 414	47 315	40 230	45 738
Scrap	15 812	18 050	20 608	24 966	21 793
Norway					
Unwrought	119 626	111 572	112 980	124 187	116 805
Unwrought alloys	4 882	8 571	8 430	6 651	9 168
Poland					
Ore	46 456	39 120	46 948	39 780	...
Unwrought	80 277	68 180	63 378	59 300	67 900
Unwrought alloys	1 531	1 201	2 437	2 605	...
Romania					
Ore	...	...	...	3 286	11 302
Unwrought	1 657	5 852	8 199	14 756	18 625
Russia					
Ores & concentrates	227 600	95 481	86 651	56 583	38 436
Unwrought (a)	108 898	103 253	119 498	120 577	117 167
Scrap	200	200	240	810	1 960

Exports of Zinc

tonnes

Country	1994	1995	1996	1997	1998
Spain					
Ore	89 009	137 214	116 180	136 282	121 884
Unwrought	156 824	165 521	183 142	180 175	122 746
Unwrought alloys	6 679	12 810	14 997	20 259	25 988
Scrap	87	540	2 251	2 419	1 402
Sweden					
Ore	321 097	298 492	315 030	292 797	293 053
Unwrought (a)	287	105	158	4 193	3 172
Scrap	6 141	7 506	6 524	5 580	6 224
Switzerland					
Scrap	1 941	1 755	2 127	2 026	2 894
Turkey					
Ores & concentrates	17 332	69 954	85 914	96 167	101 840
Unwrought	208	0	3 309	15 511	15 702
United Kingdom					
Unwrought	18 247	16 632	10 925	10 309	10 170
Unwrought alloys	22 015	25 070	23 008	24 730	23 515
Scrap	25 445	24 493	26 871	33 723	21 327
Yugoslavia, Federal Republic of					
Unwrought (a)	...	...	22 300	20 465	1 038
Algeria					
Unwrought (a)	11 915	10 300	26 558	24 244	...
Morocco					
Ore	151 161	171 466	178 175	191 172	...
Namibia					
Concentrates (c)	24 508	22 997	34 377	34 524	36 096
South Africa					
Ores & concentrates (c)	2 514	----	----	----	----
Unwrought	8 100	2 800	7 700	11 400	11 231
Tunisia					
Ore	17 856	87 636	73 938	6 914	...
Zambia					
Unwrought	4 000	*1 500	----	----	...
Canada					
Ores & concentrates (c)	382 489	604 408	706 735	489 373	391 133
Unwrought	552 714	536 041	581 609	547 597	576 926
Unwrought alloys	7 504	2 763	204	48	381
Scrap	55 454	41 263	28 608	27 304	27 111
Honduras					
Ores & concentrates (c)	23 611	27 117	37 037	39 483	36 639
Mexico					
Ores & concentrates	316 072	254 391	258 125	293 516	336 269
Unwrought	76 535	86 039	75 859	61 431	65 154
USA					
Ore (c)	388 625	431 312	470 213	483 511	571 373
of which, re-exports	----	7 483	45 280	24 555	19 181
Unwrought (a)	14 468	15 314	16 222	18 689	13 844
Scrap	39 647	38 020	31 594	34 744	26 676
Argentina					
Ores & concentrates	25	4 530	7 273	1 447	309
Unwrought	9 814	11 659	7 590	7 818	9 307
Bolivia					
Ore	210 031	292 812	296 440	284 693	311 271
Brazil					
Unwrought	59 548	51 649	49 447	23 200	14 765
Chile					
Concentrates	50 700	90 684	66 258	80 022	45 420
Peru					
Concentrates	976 000	968 517	1 090 687	1 235 089	1 010 549
Unwrought	97 100	80 731	122 155	107 802	121 712

Exports of Zinc

Country	1994	1995	1996	1997	1998
China					
Ores & concentrates	279 187	154 770	109 391	381 309	201 325
Unwrought	269 704	181 211	217 413	543 841	370 612
Unwrought alloys	8 299	10 314	9 364	13 167	12 282
Scrap	1 075	3 187	2 105	2 298	5 108
Hong Kong					
Unwrought (a)	98 357	105 319	100 304	97 120	109 077
of which, re-exports	87 610	105 319	91 264	90 808	100 634
Scrap	23 481	28 744	14 416	15 258	15 307
of which, re-exports	...	24 890	13 268	15 228	14 999
India					
Ore (e)	20 500	140	31 239	92 364	...
Unwrought (a) (e)	2 670	23	949	11 752	...
Indonesia					
Ore	10 000	...	...	28 425	39 103
Iran					
Ores & concentrates (f)	28 518	----	...	194 807	...
Japan					
Unwrought	38 635	27 970	28 500	23 531	46 683
Unwrought alloys	2 503	1 962	1 823	1 755	12 837
Scrap	4 702	7 865	6 930	7 093	5 876
Jordan					
Scrap	569	2 014	3 203	2 603	...
Kazakhstan					
Ore	...	10 400	23 075	57 964	74 538
Unwrought	...	147 691	149 549	186 905	214 530
Korea, Dem. P.R. of					
Unwrought (a) (b)	*19 400	*11 100	*8 100	*6 000	*2 700
Korea, Republic of					
Unwrought (a)	84 910	35 550	24 494	91 573	167 207
Scrap	34	2 326	2 192	2 210	671
Malaysia					
Scrap	6 087	5 200	2 500	*2 500	...
Myanmar					
Concentrates (e)	*2 500	*4 000	*2 500	...	...
Singapore					
Unwrought	24 700	217 539	34 858	123 959	135 404
of which, re-exports	24 312	216 716	33 608	...	133 259
Scrap	2 561	2 244	1 049	2 944	2 509
Taiwan					
Unwrought (a)	4 226	7 722	6 968	9 881	9 342
Scrap	975	3 976	1 400	2 504	3 788
Thailand					
Unwrought	----	----	20	22 117	33 120
Unwrought alloys	----	1	----	1 561	6 927
Uzbekistan					
Unwrought (b)	*10 200	*15 100	*5 500	*6 800	*14 600
Vietnam					
Ores & concentrates	...	...	...	55 000	85 000
Australia					
Ores & concentrates	1 385 145	1 353 713	1 487 647	1 478 789	1 565 066
Unwrought	257 050	224 754	239 722	218 420	227 836
Scrap	2 908	1 587	1 509	1 145	1 312
New Zealand					
Scrap (d)	924	1 152	928	1 054	253

Note(s):

(1) In this table the term 'unwrought' zinc corresponds to item 686.1 of the Standard International Trade Classification (Revision 3) and comprises blocks, pigs, slabs, etc.

(a) Including alloys

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

(c) Zn content

(d) Years ended 30 June of that stated

(e) Years ended 31 March following that stated

(f) Years ended 20 March following that stated

Imports of Zinc

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Unwrought	42 783	37 646	43 104	46 741	58 890
Unwrought alloys	7 667	13 030	14 428	17 913	18 882
Scrap	1 269	1 129	893	1 310	947
Belgium-Luxembourg					
Ore	520 721	553 969	1 393 376	1 605 860	1 048 756
Unwrought	120 702	147 995	220 790	247 904	232 249
Unwrought alloys	21 040	10 698	12 062	11 221	13 567
Scrap	13 312	15 819	23 822	48 650	48 518
Bulgaria					
Ore	(b) *109 800	104 054	116 953	147 283	(b) *70 000
Croatia					
Unwrought (a)	1 400	1 754	2 358	2 501	3 039
Czech Republic					
Unwrought (a)	14 884	18 000	17 100	20 101	22 323
Denmark					
Unwrought	11 601	13 483	10 645	10 795	14 305
Unwrought alloys	926	552	1 389	1 707	828
Scrap	510	148	21	517	390
Finland					
Ore	337 384	211 074	288 603	292 378	376 747
Scrap	1 608	1 854	1 809	2 089	4 046
France					
Ore	632 892	622 177	604 490	634 286	563 460
Unwrought	115 493	135 057	108 023	114 185	116 935
Unwrought alloys	50 897	46 027	49 102	43 838	46 526
Scrap	7 068	13 600	11 952	16 031	12 966
Germany					
Ore	612 293	588 845	439 315	323 616	378 135
Unwrought	243 410	229 384	187 880	236 170	258 576
Unwrought alloys	54 727	63 275	52 863	70 458	75 088
Scrap	13 837	12 067	10 021	7 839	5 826
Greece					
Unwrought (a)	17 934	19 002	21 179	25 331	22 637
Hungary					
Unwrought (a)	13 133	11 952	13 660	15 701	20 456
Irish Republic					
Unwrought (a)	2 177	1 083	2 845	3 587	3 788
Italy					
Ore	505 943	457 915	518 843	517 834	495 111
Unwrought	91 256	113 677	101 735	98 129	148 873
Unwrought alloys	19 170	20 658	27 639	33 696	40 263
Scrap	14 684	13 765	21 825	21 981	17 571
Lithuania					
Unwrought	500	73	698	1 889	301
Netherlands					
Ore	388 960	371 759	334 142	312 478	412 481
Unwrought	131 890	213 770	115 621	119 536	159 018
Unwrought alloys	339	1 666	783	375	4 959
Scrap	4 692	4 707	3 882	7 875	5 470
Norway					
Ore	149 168	123 148	124 025	194 381	221 918
Unwrought (a)	2 174	1 835	1 347	2 359	3 819
Scrap	2 703	2 167	2 423	1 371	660
Poland					
Ore	74 972	72 800	86 488	72 800	...
Unwrought (a)	2 624	2 301	3 745	*5 500	...
Portugal					
Unwrought	(a) 12 217	(a) 19 700	6 395	7 421	11 718
Unwrought alloys	...	...	9 012	7 976	9 590
Romania					
Unwrought (a)	1 503	3 159	1 000	654	15 798
Russia					
Ore	69 373	(b) *66 500	140 525	230 577	206 605
Unwrought (a)	4 335	6 212	38 101	40 468	40 129
Slovakia					
Unwrought (a)	24 531	26 062	25 305	23 294	26 172

Imports of Zinc

Country	1994	1995	1996	1997	1998
Slovenia					
Unwrought (a)	6 651	7 500	14 068	19 696	20 927
Spain					
Ore	341 715	427 416	521 113	516 042	509 558
Unwrought	941	2 787	2 366	3 815	822
Unwrought alloys	5 797	5 443	9 487	9 688	10 497
Scrap	87	540	319	2 576	2 446
Sweden					
Unwrought	31 334	23 512	32 029	30 943	37 829
Unwrought alloys	7 823	15 098	7 587	6 440	8 804
Switzerland					
Unwrought	18 655	21 010	17 091	19 098	20 126
Unwrought alloys	2 832	3 062	2 770	2 215	3 065
Turkey					
Ore	2 351	5 080	32 066	68 240	83 377
Unwrought (a)	23 531	38 821	47 442	64 941	67 404
Ukraine					
Unwrought	8 371	6 340	12 172	9 122	15 470
United Kingdom					
Ores & concentrates	248 419	214 849	154 230	135 209	139 806
Unwrought	125 040	137 882	133 989	136 217	160 928
Unwrought alloys	5 810	5 716	4 124	12 035	10 827
Scrap	3 796	2 295	2 995	3 238	3 180
Yugoslavia, Federal Republic of					
Concentrates	...	(b) *2 000	(b) *8 000	29 746	20 216
Unwrought	...	...	14 700	10 581	4 149
Algeria					
Ores & concentrates	*6 000	*4 000	1 556	4	...
Egypt					
Unwrought (a)	4 902	17 700	9 058	12 331	...
Kenya					
Unwrought (a)	9 471	12 975	13 234	13 989	8 729
Morocco					
Unwrought (a)	6 996	7 733	6 314	7 138	...
South Africa					
Unwrought (a)	348	7 518	1 035	6 452	2 217
Scrap	195	567	723	142	307
Tunisia					
Unwrought (a)	5 197	4 974	5 552	6 514	...
Uganda					
Unwrought (a)	...	...	1 661	1 859	29 099
Canada					
Ores & concentrates (c)	152 305	176 628	181 783	187 547	210 494
Unwrought	12 490	11 766	11 651	18 949	13 749
Scrap	1 049	2 128	2 131	2 234	680
Costa Rica					
Unwrought (a)	5 306	5 423	4 913	6 649	...
El Salvador					
Unwrought (a)	178	262	282	774	399
Guatemala					
Unwrought (a)	1 323	1 648	1 480	2 189	4 205
Honduras					
Unwrought (a)	275	593	685	922	864
USA					
Ore (c)	29 543	13 032	17 320	51 451	46 250
Unwrought (a)	788 955	848 910	818 870	876 447	872 056
Scrap	51 676	42 260	31 862	29 555	29 239
Argentina					
Ores & concentrates	15 938	16 941	17 144	18 107	8 170
Unwrought	5 553	5 332	8 361	9 326	9 161
Brazil					
Ores & concentrates	112 795	131 395	213 088	211 610	176 910
Unwrought (a)	11 214	37 470	4 003	3 388	8 389
Chile					
Unwrought (a)	7 621	11 861	9 612	8 339	8 670

Imports of Zinc

tonnes

Country	1994	1995	1996	1997	1998
Colombia					
Unwrought (a)	16 018	20 867	17 266	22 376	21 001
Ecuador					
Unwrought (a)	2 728	4 500	3 387	4 962	4 839
Uruguay					
Unwrought	1 622	1 389	1 467	1 170	1 764
Venezuela					
Unwrought	9 313	17 946	8 772	11 204	...
Unwrought alloys	6 375	15 033	6 586	8 269	...
Bangladesh					
Unwrought	...	...	31 896	413	...
China					
Ores & concentrates	30 310	102 454	295 079	166 503	52 508
Unwrought	7 258	13 955	10 612	10 800	12 090
Unwrought alloys	41 358	52 749	58 899	61 171	75 385
Scrap	22 036	22 491	20 374	23 493	25 667
Hong Kong					
Unwrought	36 338	32 331	29 603	24 977	38 344
Unwrought alloys	76 562	97 609	91 725	83 674	92 287
Scrap	26 344	32 833	16 894	11 089	12 701
India					
Ores & concentrates (d)	49 905	39 516	42 661	31 776	...
Unwrought (d)	30 552	53 900	81 453	73 892	...
Unwrought alloys (d)	318	1 383	524	1 839	...
Scrap (d)	1 905	7 202	18 341	41 943	...
Indonesia					
Unwrought	84 255	96 419	88 743	83 747	59 987
Unwrought alloys	7 303	6 069	5 458	5 652	5 667
Scrap	1 865	813	180	5	0
Iran					
Unwrought (e)	20 566	15 095	*15 000	*15 000	...
Israel					
Unwrought (a)	(b) *12 200	...	(b) *13 200	15 700	...
Japan					
Ore	992 025	1 072 653	922 875	989 373	945 295
Unwrought	64 156	116 986	134 798	179 672	113 370
Unwrought alloys	8 718	9 956	10 027	11 849	8 012
Scrap	1 472	991	305	339	48
Jordan					
Unwrought (a)	1 178	2 205	1 396	990	...
Kazakhstan					
Ores & concentrates	...	3 445	11 628	21 403	14 495
Korea, Dem. P.R. of					
Ores & concentrates (b)	*64 300	*40 400	*47 300	*30 000	*17 000
Korea, Republic of					
Ores & concentrates	576 231	534 362	530 786	661 456	800 136
Unwrought (a)	71 999	52 792	89 553	68 779	71 019
Macao					
Unwrought	542	798	521	205	...
Malaysia					
Unwrought (a)	36 079	47 400	54 800	...	...
Pakistan					
Unwrought (a) (f)	16 228	...	11 098	13 530	15 029
Philippines					
Unwrought (a)	44 797	56 973	55 420	53 549	...
Saudi Arabia					
Unwrought	11 253	12 589	11 628	10 112	13 791
Singapore					
Unwrought	167 146	38 708	45 457	240 041	168 951
Scrap	4 735	3 511	2 424	3 685	2 181
Sri Lanka					
Unwrought (a)	1 678	2 022	1 869	1 558	...
Syria					
Unwrought	*2 500	*2 900	...	1 599	...

Imports of Zinc

Country	1994	1995	1996	1997	1998
Taiwan					
Unwrought	170 234	205 648	196 420	228 896	240 737
Unwrought alloys	22 320	25 227	14 094	13 699	14 827
Scrap	68 872	66 870	62 456	53 718	50 027
Thailand					
Ores & concentrates	52 997	43 831	62 222	136 904	...
Unwrought	28 207	44 461	37 748	21 472	...
Unwrought alloys	4 935	9 517	10 002	6 662	...
Australia					
Ores & concentrates	26 577	10 559	10 431	...	10 275
Unwrought (a)	3 580	1 507	413	805	1 785
New Zealand					
Unwrought (a) (f)	21 404	19 352	...	16 310	15 915

Note(s) :-

(1) In this table the term 'unwrought' zinc corresponds to item 686.1 of the Standard International Trade Classification (Revision 3) and comprises blocks, pigs, slabs, etc.

- (a) Including alloys
- (b) BGS estimates, based on known exports from certain countries
- (c) Zn content
- (d) Years ended 31 March following that stated
- (e) Years ended 20 March following that stated
- (f) Years ended 30 June of that stated

Production of Zirconium Minerals

tonnes

Country	1994	1995	1996	1997	1998
Russia (a)	2 622	2 652	5 080	5 745	6 293
Ukraine	*65 000	*60 000	*55 000	*65 000	*65 000
South Africa	226 000	260 000	260 000	265 000	*270 000
USA	*120 000	*120 000	*120 000	*120 000	*150 000
Brazil (b)	17 064	16 343	15 560	19 252	19 300
China	6 078	14 074	2 293	3 428	134
India	*18 000	*18 000	*19 000	*19 000	*19 000
Indonesia	*2 500	*2 000	*2 000	*2 000	*2 000
Malaysia	1 656	3 790	4 511	4 050	*4 000
Sri Lanka	22 321	21 971	15 863	12 451	8 814
Thailand	326	-----	5	-----	-----
Australia	511 000	505 000	460 000	418 000	394 000
World Total	993 000	1 024 000	959 000	934 000	939 000

Note(s):

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

(a) Baddeleyite concentrate

(b) Including caldasite rock containing zircon and baddeleyite

Exports of Zirconium

Country	1994	1995	1996	1997	1998
Belgium-Luxembourg					
Concentrates	159	574	5 269	464	1 587
Metal	48	153	123	142	167
France					
Concentrates	1 659	1 954	821	685	458
Germany					
Concentrates	3 110	3 607	4 354	4 461	6 174
Metal	173	216	132	152	229
Italy					
Concentrates	13 636	20 910	19 435	20 567	20 831
Metal	1 759	4 421	1 426	368	330
Netherlands					
Concentrates	14 544	14 199	16 810	17 331	7 568
Metal	114	4	8	...	...
Norway					
Concentrates	1 295	2 041	4 230	1 637	170
Russia					
Concentrates	...	...	4 383	5 200	4 877
Metal	...	...	62	117	170
Spain					
Concentrates	(c) 1 205	(c) 3 823	3 027	2 033	3 399
Ukraine					
Concentrates	...	14 042	15 079	18 722	15 746
United Kingdom					
Concentrates	2 614	2 436	2 819	4 492	2 980
Metal	99	318	669	281	215
South Africa					
Concentrates (a)	*216 600	*276 600	*292 800	*310 300	*242 700
Canada					
Metal	78	245	128	92	205
USA					
Concentrates	34 085	42 441	36 546	44 341	41 200
Metal	1 219	1 700	1 089	1 305	1 169
Brazil					
Concentrates	930	818	1 004	712	276
China					
Concentrates	1 500	3 090	834	1 770	1 419
Metal	63	57	233	174	140
Hong Kong					
Concentrates (b)	55 991	71 027	60 181	25 243	22 019
Indonesia					
Concentrates	16	216	1 100	1 000	2 001
Malaysia					
Concentrates	1 858	2 560	3 000	...	...
Taiwan					
Metal	275	301	232	430	621
Australia					
Concentrates	504 228	513 532	423 853	341 805	398 761

Note(s):

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

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

(b) Re-exports

(c) Including zirconium sand

Imports of Zirconium

tonnes

Country	1994	1995	1996	1997	1998
Austria					
Concentrates	1 404	1 216	2 177	591	900
Belgium-Luxembourg					
Concentrates	3 679	3 117	2 859	2 782	3 062
Metal	201	1 082	253	387	1 014
Czech Republic					
Concentrates	1 900	2 100	2 000	2 106	3 151
Metal	...	...	...	170	200
Finland					
Concentrates	1 915	76	84	2	14
France					
Concentrates	56 158	64 417	63 530	56 561	54 164
Metal	187	189	146	314	156
Germany					
Concentrates	52 286	65 239	64 751	60 265	...
Metal	379	384	318	489	496
Italy					
Concentrates	96 848	144 390	115 945	121 271	144 636
Metal	106	117	229	94	377
Netherlands					
Concentrates	28 329	49 893	56 821	28 197	26 225
Metal	41	309	62	155	170
Poland					
Concentrates	734	572	1 142	1 455	...
Metal	312	315	433	191	...
Portugal					
Concentrates	800	3 400	3 004	4 718	4 375
Romania					
Concentrates	500	1 200	800	215	178
Metal	263	102	0	18	...
Russia					
Concentrates	*3 000	*5 000	6 072	3 457	5 119
Spain					
Concentrates	61 115	83 388	83 582	104 929	98 066
Metal	140	110	...	164	170
Sweden					
Concentrates	1 698	1 170	788	369	506
Metal	198	180	...	...	...
Switzerland					
Metal	81	125	60	96	61
Turkey					
Concentrates	278	149	382	251	1 680
Zirconium sand	14 340	18 718	9 490	...	...
United Kingdom					
Concentrates	39 728	56 128	57 432	57 830	54 986
Metal	359	461	386	534	618
Egypt					
Concentrates	1 500	100	245	...	...
Tunisia					
Concentrates	641	2 300	1 589	368	...
Canada					
Concentrates	12 622	17 788	22 512	5 765	8 654
Metal	337	556	349	358	322
Mexico					
Zirconium sand	12 672	13 343	16 606	17 971	19 251
USA					
Concentrates	80 802	93 601	92 483	62 361	89 542
Metal	625	736	620	759	894
Brazil					
Concentrates	10 316	9 115	7 972	8 707	6 632

Imports of Zirconium

Country	1994	1995	1996	1997	1998
China					
Concentrates	125 770	129 075	118 848	81 988	98 616
Metal	569	587	535	781	665
Hong Kong					
Concentrates	63 313	85 572	63 010	27 662	23 216
India					
Concentrates (a)	167	3 198	4 646	7 540	...
Indonesia					
Concentrates	3 692	2 590	1 475	2 066	1 170
Japan					
Concentrates	129 226	129 199	113 203	90 496	78 626
Metal	610	628	617	714	671
Korea, Republic of					
Concentrates	13 109	17 732	12 289	14 259	6 252
Metal	111	104	138	86	135
Malaysia					
Concentrates	3 093	5 070	30 379	...	...
Philippines					
Zirconium sand	176	498	248	454	...
Singapore					
Concentrates	2 600	4 700	3 100	4 088	2 940
Metal	70	33	2	2	10
Taiwan					
Concentrates	15 971	14 150	12 086	11 815	15 737
Zirconium sand	10 409	8 745	10 124	10 751	15 737
Thailand					
Concentrates	453	106	1 507	2 167	...
Australia					
Concentrates	339	461	29 094	447	443

Note(s) :-

(1) Metal traded in ferro-alloy form is included under Iron, Steel and Ferro-alloys

(a) Years ended 31 March following that stated

Production of Beryl

tonnes

Country	1994	1995	1996	1997	1998
Russia	*1 000	*1 000	*1 000	*1 000	*1 000
Madagascar (a)	*3	32	*11	28	*30
Zambia	1	2	1	1	1
Zimbabwe	4	0	----	----	----
USA	4 330	5 040	5 260	5 770	6 080
China	*1 400	*1 400	*1 400	*1 400	*1 400
Kazakhstan	*100	*100	*100	*100	*100

Note(s):

(a) Includes ornamental and industrial products

Production of Borates

tonnes

Country	1994	1995	1996	1997	1998
Germany	*2 000	*2 000	*2 000	*2 000	...
Russia	13 000	*13 000	*13 000	*13 000	...
Turkey	1 139 980	1 143 994	1 446 697	1 568 571	...
USA (a)	1 110 000	1 190 000	1 150 000	1 190 000	*1 200 000
Argentina	215 021	244 933	342 210	422 556	400 000
Bolivia	10 433	6 891	9 231	12 469	15 930
Chile	85 935	211 312	149 008	170 605	280 140
Peru	40 991	40 581	39 982	46 988	17 945
China (b)	188 200	294 600	...	248 300	247 100
Iran	*1 000	*1 000	*1 000	*1 000	...
Kazakhstan	8 100	5 800	4 600	2 300	...

Note(s):

(a) Sold or used by producers

(b) B₂O₃ equivalent**Production of Germanium Metal**

tonnes

Country	1994	1995	1996	1997	1998
Belgium	...	...	22	23	...
Ukraine	...	...	0	0	1
USA (a)	*10	*10	*18	*20	*22
China	1	10	11	...	...
Japan	2	2	2	1	0

Note(s):

(1) Significant quantities of germanium are also believed to be recovered from imported or domestic material in France, Germany, Russia and to a lesser extent in Italy

(a) Including production of secondary metal

Production of Primary Magnesium Metal

tonnes

Country	1994	1995	1996	1997	1998
France	12 500	14 450	14 000	13 700	14 700
Norway	27 600	32 000	37 790	34 200	35 400
Russia	35 400	37 500	35 000	39 500	*40 000
Ukraine	12 000	13 000	12 896	7 654	5 040
Yugoslavia, Federal Republic of	-----	2 560	3 090	3 942	3 965
Canada	*30 000	*46 000	*46 000	*49 000	*60 000
USA	128 475	142 100	133 100	124 800	106 100
Brazil	*9 700	*9 700	*9 000	*9 000	*9 000
China	24 000	93 600	73 200	75 985	70 464
India	1 000	1 000	1 000	1 000	1 500
Israel	...	...	...	7 400	24 500
Japan	3 000	-----	-----	-----	-----
Kazakhstan	2 967	8 972	13 431	8 972	*9 000

Production of Nepheline Syenite

tonnes

Country	1994	1995	1996	1997	1998
Norway	278 646	293 684	299 610	*300 000	...
Russia (a)	...	...	827 814	939 020	859 698
South Africa (b)	131 556	145 459	145 000	114 201	...
Canada	601 000	618 000	606 000	647 000	641 000

Note(s):

- (a) Nepheline concentrates
- (b) Mostly used as aggregate

Production of Perlite

tonnes

Country	1994	1995	1996	1997	1998
Armenia	*45 000	*45 000	*45 000	*45 000	*45 000
Bulgaria	25 000	32 500	25 500	...	...
Georgia	*7 000	*5 000	*5 000	*5 000	...
Greece	468 699	565 479	598 640	695 917	658 332
Hungary	72 239	109 913	*110 000	*130 000	*130 000
Italy	*65 000	*60 000	*60 000	*60 000	*60 000
Russia	*80 000	*60 000	*45 000	*45 000	...
Slovakia	28 270	21 850	25 160	25 200	24 240
Turkey	164 582	171 058	157 580	103 416	124 312
Ukraine	*25 000	*25 000	*25 000	*25 000	...
Morocco	...	...	...	51 195	...
South Africa	914	1 338	682	403	*400
Mexico	31 918	33 529	37 417	51 758	54 840
USA	664 000	813 000	811 000	656 000	832 000
Argentina	21 201	20 058	21 547	27 578	30 000
China	*300 000	*300 000	*350 000	*370 000	*400 000
India (a)	274	452	310	80	207
Iran (b)	443	1 300	2 300	...	...
Japan	268 800	275 600	304 300	288 010	...
Philippines	15 846	17 134	19 638	25 941	7 451
Thailand	100	1 100	1 200	700	...
Australia (c)	*6 000	*6 000	*6 000	6 304	6 068
New Zealand	----	1 800	(d) 1 880	(d) 4 960	...

Note(s):

(1) In addition to the countries listed, Algeria, Canada, Iceland, Mozambique and former Yugoslavia are believed to produce perlite

(a) Years ended 31 March following that stated

(b) Years ended 20 March following that stated

(c) Years ended 30 June of that stated

(d) Including zeolite

Production of Selenium Metal

tonnes

Country	1994	1995	1996	1997	1998
Belgium	*250	*250	*250	*250	*200
Finland	30	27	43	43	43
Germany	*120	*115	*115	*115	*100
Poland	60	73	73	76	...
Russia	*40	*40	*40	*40	*40
Sweden	20	26	20	*20	*20
Yugoslavia, Federal Republic of	27	40	38	45	41
Zambia (a)	23	18	20	19	15
Canada	566	561	694	592	384
USA	360	373	379	353	...
Chile (b)	43	51	73	63	29
Peru	18	15	13	13	18
China	*65	*65	*65	*65	*65
India (a)	11	11	12	13	13
Japan	613	548	588	546	550
Kazakhstan	*40	*40	*40	*40	*40
Philippines	41	42	44	38	40
Uzbekistan	*20	*20	*20	*20	*20

Note(s):

(1) In addition to the countries listed, Australia, India and the Republic of Korea are believed to produce selenium metal

(a) Years ended 31 March following that stated

(b) Exports

Production of Strontium Minerals

tonnes

Country	1994	1995	1996	1997	1998
Spain	102 046	105 866	114 829	95 162	111 000
Turkey (a)	...	...	...	(a) 47 250	(a) 32 040
Algeria	*5 400	*5 400	*5 400	*5 400	*5 400
Mexico	111 485	138 342	141 142	134 707	118 230
Argentina (b)	8 484	9 325	3 775	1 905	2 020
Iran (c)	*20 000	*20 000	*20 000	*20 000	*20 000
Pakistan (d)	1 342	1 427	1 221	706	1 299
Turkmenistan	...	...	*20 000	...	...

Note(s):

(1) In addition to the countries listed, China, Germany and Poland are believed to produce strontium minerals

(a) Exports

(b) May contain unbeneficiated material

(c) Years ended 20 March following that stated

(d) Years ended 30 June of that stated

Production of Tellerium Metal

tonnes

Country	1994	1995	1996	1997	1998
Canada	42	102	59	59	57
USA	50	50	50	50	...
Peru	25	30	25	25	22
Japan	47	43	40	25	33

Note(s):

(1) In addition to the countries listed, Australia, Germany and former Soviet Union are believed to produce tellurium metal

Mine Production of Uranium

tonnes (metal content)

Country	1994	1995	1996	1997	1998
Czech Republic	537	611	589	624	611
France	1 027	981	930	748	508
Hungary	415	221	200	200	----
Portugal	24	19	14	17	19
Romania	*120	*100	*100	*100	*100
Russia	2 968	2 250	*2 000	*2 000	*2 000
Spain	255	254	254	254	255
Ukraine	*500	*500	*500	*500	*500
Gabon	589	630	560	472	731
Namibia	1 901	2 005	2 450	2 903	2 778
Niger	2 964	2 974	3 326	3 492	3 713
South Africa	1 616	1 443	1 447	1 123	965
Canada	9 644	10 462	11 689	12 020	11 041
USA	1 289	2 324	2 420	2 170	1 872
Argentina	80	58	23	35	35
Brazil	50	125	----	----	----
China	780	*500	*500	*500	*500
India	*200	*200	*200	*200	*200
Kazakhstan	2 240	1 630	1 320	1 000	1 250
Pakistan	*23	*23	*23	*23	*23
Uzbekistan	2 015	1 800	1 459	1 764	1 930
Australia	2 208	3 712	4 976	5 490	4 901
World Total	31 400	32 800	35 000	35 600	33 900
World Total (U ₃ O ₈ equivalent)	37 100	38 700	41 300	42 000	40 000

Production of Vermiculite

tonnes

Country	1994	1995	1996	1997	1998
Russia	*40 000	*40 000	*30 000	*25 000	*25 000
Egypt (a)	1 659	...	140	54	*50
Kenya	1 113	457	734	1 418	353
South Africa	223 478	221 748	196 000	211 001	*210 000
Zimbabwe	8 184	13 742	10 249	14 841	14 804
USA (b)	177 000	171 000	*170 000	...	...
Brazil (c)	17 233	18 806	21 999	23 000	*24 300
India (d)	1 458	1 798	3 755	4 699	4 035
Japan	*15 000	*15 000	*15 000	*15 000	*15 000
Australia (a)	...	...	5 000	3 327	7 589

Note(s):

(1) In addition to the countries listed, China and Malawi are believed to produce vermiculite

(a) Years ended 30 June of that stated

(b) Sold or used by producers

(c) Including beneficiated and directly shipped material

(d) Years ended 31 March following that stated

Production of Wollastonite

tonnes

Country	1994	1995	1996	1997	1998
Czech Republic	----	800	800	----	...
Finland	27 757	29 592	22 304	20 700	16 700
Namibia	1 309	967	248	194	267
Mexico	29 000	20 194	28 365	20 655	41 264
USA	*130 000	*130 000	*150 000	*150 000	...
China	...	*100 000	*200 000	*200 000	*300 000
India (a)	68 920	96 017	93 060	97 742	94 642

Note(s):

(1) In addition to the countries listed, Japan, Kazakhstan, Dem P R of Korea, Pakistan, South Africa and Turkey are believed to produce wollastonite

(a) Years ended 31 March following that stated

