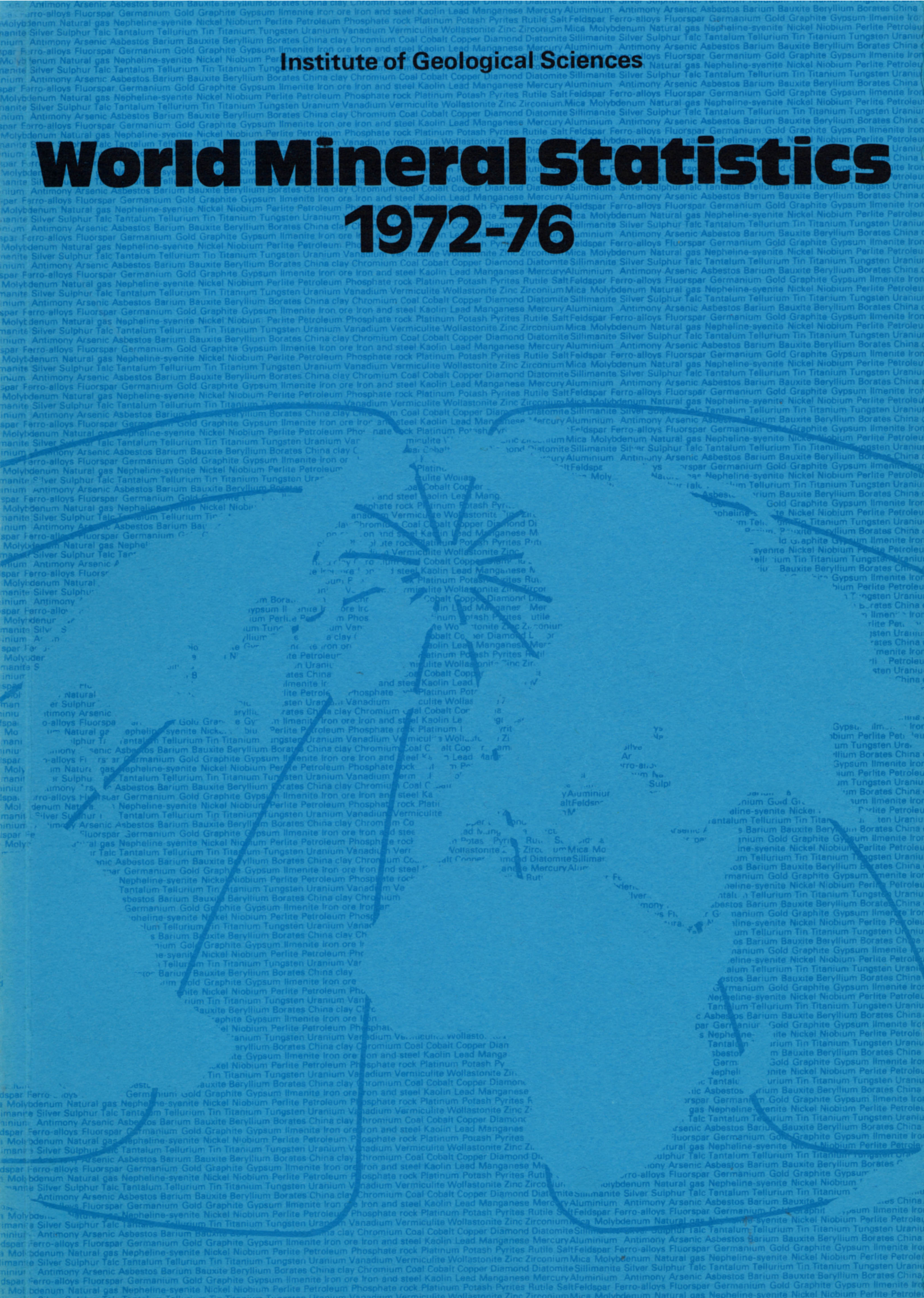


World Mineral Statistics 1972-76



INSTITUTE OF GEOLOGICAL SCIENCES

Natural Environment Research Council

WORLD MINERAL STATISTICS 1972–76

Production: Exports: Imports

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PREFACE

For over fifty years the Institute of Geological Sciences and its predecessors have compiled – and made available for the information of government, industry and the general public – detailed statistics of the production and trade of minerals throughout the world. The well-known series of annual publications, the *Statistical Summary of the Mineral Industry: World Production, Exports and Imports*, began with the volume containing particulars for the years 1913–18 and concluded with the edition published in 1973 covering the period 1966–71.

The present volume is the second in the succeeding series of annual publications called *World Mineral Statistics*. In order to overcome the time-lag caused by the cessation of the earlier series, the current volume has been updated by two years from 1974 to 1976, and it is planned that the next volume will be advanced by a further two years thus bringing the series up to date again. Having been generally well received, the modernised format introduced in the first volume has been continued in the current presentation with many improvements in detail and an extended coverage of countries. Information is given on most minerals of economic importance and two new tables, on production of alumina and cobalt metal, have been introduced. It is hoped to extend the range of materials covered in succeeding issues. An additional feature of the present work is the inclusion in the export tables, of re-exports in cases where they are identifiable and are deemed to be significant.

The span of years covered includes a period generally considered to be one of economic recession: this is to some extent reflected by the total world production figures presented in the tables. However, several commodities, among them, chrome ore, coal, iron ore, manganese ore, phosphate rock, potash, and zirconium all show significant increases in production over the period 1972–76. The tables illustrate such interesting developments as the establishment of Bougainville in Papua–New Guinea as a copper producer, the rapid rise in UK indigenous production of crude petroleum and the commencement of zinc production in Greenland. In keeping with the current interest in cobalt supplies, the cobalt trade tables have been considerably amplified.

As in the previous volume, the primary object of this work remains what it always has been: to present as comprehensively and accurately as possible factual data about the world mineral industry's activities, which are essentially the end-product of geology and a measure of the unceasing contribution of the geological sciences to man's material welfare and progress.

Austin W. Woodland

Director

Institute of Geological Sciences
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31 May 1979

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EXPLANATORY NOTES

Coverage

A somewhat smaller range of minerals and less detail on commodity subdivision is shown than in volumes of the *Statistical Summary of the Mineral Industry*, the predecessor of this series. (This is particularly so in the case of trade tables.) However, users of this compilation are advised that, at least for the years up to 1976, the full coverage of the *Statistical Summary* is held on file in the Mineral Statistics and Economics Unit and is available for consultation. Where figures are shown in the tables as 'estimated' the source of the estimate is not generally given.

Arrangement of countries

In each table, after the United Kingdom, countries are ordered alphabetically in geographical groupings as follows:

European Economic Community (EEC)
Europe other than EEC and including the Soviet Union
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 and United Nations usage.

Production of metals

Bauxite, chromium, iron and manganese are shown in the tables as gross ore mined. Mine production of other minerals is expressed as metal content (or equivalent). In addition, metal production (which may be derived from both domestic and imported ores), is given separately in the case of copper, iron, lead and zinc. So far as possible, the data given refers to primary metal production.

Trade

South Africa Where export data are not available from the Department of Mines, they are taken from the trade statistics of the common customs area, which includes Botswana, Lesotho, South Africa, Namibia, and Swaziland, and relate to this area as a whole.

USA Imports shown are general imports as distinct from imports for consumption. 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 the Virgin Islands, 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.

Mexico Foreign imports into the Mexican Free Trade area (Las Zonas y Perímetros Libres) have not been included in the coverage of Mexican trade.

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. In particular the absence of import or export figures for any country from the tables does not necessarily imply that there is no trade in that commodity, only that the item has not been separately identified in the available trade statistics.

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 Institute expresses its grateful acknowledgement for the information made available, whether in published form or provided by direct correspondence.

Among the numerous overseas government departments which have provided valuable information, particular acknowledgement is made to the United States Bureau of Mines; the Department of Energy, Mines and Resources of Canada; the Bureau of Mineral Resources, Geology and Geophysics of Australia; the Department of Mines of South Africa; the Indian Bureau of Mines; and the Mines Departments of other countries whose regular statements, yearbooks and other reports are worthy of direct consultation by readers in search of detail.

Specialist commodity organisations which have kindly allowed information to be reproduced, and whose own publications contain a wealth of authoritative data, include the World Bureau of Metal Statistics, the British Sulphur Corporation, Samuel Montagu & Company Ltd, the British Steel Corporation/Iron and Steel Statistics Bureau, the International Tin Council, ISMA Ltd, International Lead and Zinc Study Group, Metallgesellschaft AG, the UN Food and Agricultural Organisation, and the UNCTAD Committee on Tungsten.

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 35.31467 = cubic feet
1 tonne of crude petroleum equals on average 7 barrels crude petroleum

Conversion of national currencies to pounds sterling has been made using the annual period 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

Production of Bauxite

thousand tonnes

Country	1972	1973	1974	1975	1976
France	3 281	3 313	2 898	2 563	2 330
Germany, Federal Republic of	2	2	1	1	1
Italy	97	50	32	32	24
Greece	2 442	2 748	2 783	3 006	2 551
Hungary	2 358	2 600	2 751	2 890	2 918
Romania	893	900	858	779	890
Soviet Union (a)	* 7 400	* 7 900	* 8 400	6 470	6 620
Spain	6	8	8	11	13
Turkey	259	362	665	558	463
Yugoslavia	2 097	2 164	2 389	2 257	2 033
Ghana	335	316	324	314	267
Guinea	* 2 049	* 3 700	* 6 100	8 406	11 316
Mozambique	5	6	6	5	5
Sierra Leone	693	693	672	716	651
Dominican Republic (b)	1 087	1 086	1 196	785	516
Haiti (b)	770	790	793	(e) 523	(e) 739
Jamaica (b)	12 989	13 490	15 224	11 304	10 309
USA (b)	1 841	1 909	1 980	1 800	1 989
Brazil	765	849	858	969	998
Guyana (b)	3 727	3 622	3 606	3 829	3 108
Surinam	6 777	6 719	6 885	4 751	* 4 560
China (c)	* 550	* 600	* 700	* 800	* 850
India	1 684	1 292	1 114	1 274	1 448
Indonesia	1 277	1 229	1 290	993	940
Malaysia	1 076	1 143	948	704	660
Australia	14 437	17 596	19 994	21 003	24 084
World total (d)	69 000	74 700	82 400	76 700	80 300

(a) Includes nepheline concentrates and alunite

(b) Dried bauxite equivalent

(c) Excludes non-metallurgical bauxite

(d) Excluding small amounts of bauxite produced by Pakistan

(e) Exports

Production of Alumina

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	116 100	96 900	94 700	82 500	96 000
France	1 274 472	1 267 620	1 280 460	1 250 200	* 1 100 000
Germany, Federal Republic of	916 400	921 800	1 302 000	1 239 800	1 331 200
Italy	206 300	486 300	688 800	697 100	797 800
Czechoslovakia	* 85 000	* 95 000	* 100 000	* 100 000	* 90 000
German Democratic Republic	45 100	47 300	48 200	48 300	44 500
Greece	466 400	470 400	498 000	475 300	461 600
Hungary	519 800	655 100	690 900	756 200	731 200
Romania	* 200 000	* 282 000	* 374 000	* 400 000	* 400 000
Soviet Union	* 2 300 000	* 2 400 000	* 2 300 000	* 2 400 000	* 2 500 000
Turkey	* 84 000	* 109 400	* 123 700	* 81 700	* 139 100
Yugoslavia	126 000	275 000	273 000	283 000	455 000
Guinea	663 300	615 000	636 000	639 100	552 000
Canada	1 148 700	1 133 500	1 264 700	1 133 700	490 000
Jamaica	2 087 312	2 505 876	2 781 359	2 276 600	1 621 027
USA	6 114 000	6 662 000	6 885 000	5 135 000	* 5 806 000
Brazil	192 000	201 000	240 000	267 500	303 000
Guyana	260 647	237 726	315 492	298 340	285 000
Surinam	1 378 100	1 345 000	1 196 000	1 129 000	1 162 000
China	* 270 000	* 300 000	* 400 000	* 520 000	* 520 000
India	363 000	* 350 000	299 200	337 000	442 000
Japan	1 644 000	1 987 000	1 800 900	1 565 000	1 411 400
Taiwan	53 000	* 55 000	45 000	46 400	47 700
Australia	3 068 078	4 088 896	4 899 489	5 128 877	6 205 828
World total	23 600 000	26 600 000	28 500 000	26 300 000	27 000 000

thousand tonnes

Production of Primary Aluminium

Country	1972	1973	1974	1975	1976
United Kingdom	171	252	293	308	335
France	394	359	393	383	385
Germany, Federal Republic of	445	533	689	678	697
Italy	149	184	212	190	213
Netherlands	166	190	252	261	256
Austria	84	89	92	89	89
Czechoslovakia	43	48	50	43	36
German Democratic Republic	* 55	* 60	* 60	* 60	* 60
Greece	131	143	147	135	134
Hungary	68	68	69	70	70
Iceland	45	71	68	59	65
Norway	557	623	648	595	618
Poland	102	102	102	103	103
Romania	122	143	187	204	207
Soviet Union	* 1 900	* 2 000	* 2 100	* 2 150	* 2 200
Spain	143	160	191	210	211
Sweden	77	82	82	77	83
Switzerland	84	85	87	79	78
Turkey	—	—	2	17	31
Yugoslavia	47	91	148	168	198
Cameroon	46	44	47	52	49
Egypt	—	—	—	2	59
Ghana	133	152	157	143	151
South Africa	53	53	75	76	78
Canada	918	942	1 021	887	633
Mexico	39	39	41	40	42
USA	3 740	4 109	4 448	3 519	3 857
Argentina	—	—	1	24	43
Brazil	98	127	126	121	139
Surinam	43	55	57	35	46
Venezuela	23	28	46	50	47
Bahrain	63	103	118	116	122
China	* 145	* 150	* 160	* 200	* 200
India	179	154	129	167	210
Iran	7	34	49	51	31
Japan (a)	1 009	1 097	1 118	1 013	919
Korea, Republic of	15	17	18	18	18
Taiwan	32	35	31	28	26
Australia	206	207	219	214	232
New Zealand	88	116	110	109	140
World Total	11 600	12 700	13 800	12 700	13 100

(a) Including high-purity aluminium

Exports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Alumina	13 691	17 986	102 847	11 798	12 675
Alumina hydrate	5 737	15 342	11 324	12 872	30 314
Unwrought (a)	85 351	85 328	87 430	88 815	160 188
Belgium-Luxembourg					
Bauxite	362	247	175	75	55
Alumina	153	92	306	436	694
Unwrought	5 804	10 148	7 313	5 766	9 510
Unwrought alloys	2 642	10 072	12 984	4 206	4 685
Denmark					
Unwrought	1	33	297	47	—
Unwrought alloys	5 625	4 372	5 070	4 702	4 654
France					
Bauxite	85 848	55 242	114 366	46 006	32 307
Alumina	291 241	334 983	303 628	297 303	235 222
Alumina hydrate	92 756	73 358	87 311	70 376	76 695
Unwrought	94 166	111 473	84 511	105 773	72 269
Unwrought alloys	71 276	72 166	95 306	58 014	76 924
Germany, Federal Republic of					
Bauxite	5 960	6 360	12 548	10 178	4 615
Alumina	207 038	109 935	245 379	227 639	324 235
Alumina hydrate	95 844	105 864	123 398	111 172	132 026
Unwrought	24 855	35 737	70 901	79 060	133 366
Unwrought alloys	60 335	66 843	103 408	80 599	148 060
Italy					
Bauxite	3 449	3 777	5 278	5 912	1 390
Alumina	522	121 696	252 740	364 059	472 980
Alumina hydrate	45	445	241	136	2 584
Unwrought	5 209	1 920	11 367	24 216	3 608
Unwrought alloys	7 270	12 266	12 107	9 117	5 846
Netherlands					
Bauxite (b)	7 826	4 610	4 521	2 652	5 605
Alumina (b)	13 347	21 482	26 559	24 796	27 029
Unwrought (a)	153 807	193 664	293 982	264 182	290 357
Austria					
Unwrought	27 086	19 509	21 855	8 536	8 589
Finland					
Unwrought	9	112	218	—	—
Greece					
Bauxite	1 010 512	1 369 364	1 456 963	1 594 641	1 366 847
Alumina	217 111	162 404	190 208	200 008	194 732
Unwrought	100 978	104 834	101 769	89 072	88 912
Hungary					
Bauxite	662 000	659 000	559 000	603 000	633 000
Alumina	485 000	598 000	626 000	686 000	621 000
Unwrought	74 695	86 256	54 727	60 821	53 927
Norway					
Unwrought	423 210	426 977	404 258	309 266	375 475
Unwrought alloys	113 630	149 154	150 255	142 234	186 316
Soviet Union					
Unwrought	455 400	518 300	528 713	502 365	520 000
Spain					
Unwrought	883	936	641	10	3 712
Unwrought alloys	422	227	1 844	2 378	7 092
Sweden					
Unwrought (a)	14 946	20 322	11 765	8 019	13 337
Switzerland					
Alumina	153	147	219	145	155
Unwrought & scrap (a)	21 242	24 073	23 135	22 661	33 197
Turkey					
Bauxite	150 000	144 620	187 400	75 000	11 160
Yugoslavia					
Bauxite	1 812 537	1 706 626	1 611 243	1 283 147	1 023 950
Alumina	23 328	86 623	84 428	77 383	91 665
Unwrought	29 403	40 955	66 696	71 869	81 316
Unwrought alloys	1 356	1 262	3 063	95	1 459

Exports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
Cameroon					
Unwrought	29 836	27 878	21 250	25 034	21 100
Ghana					
Bauxite	316 231	312 228	398 317	320 494	...
Unwrought (a)	131 799	126 178	84 117	65 789	...
Guinea (f)					
Bauxite	* 400 000	* 500 000	* 3 600 000	* 7 300 000	* 9 300 000
Alumina	* 600 000	* 600 000	* 600 000	* 500 000	* 500 000
Mozambique					
Bauxite	5 516	5 620	1 695	3 846	920
Sierra Leone					
Bauxite	693 804	662 929	740 773	625 265	578 961
Canada					
Alumina	25 747	33 410	33 250	24 724	15 944
Unwrought	700 079	700 377	690 070	511 801	507 863
Dominican Republic					
Bauxite	1 226 783	1 415 850	1 473 555	...	...
Haiti					
Bauxite	770 438	790 457	793 048	522 707	738 758
Jamaica					
Bauxite (d)	7 162 067	7 390 300	7 999 839	5 482 681	6 284 034
Alumina	2 135 566	2 312 161	2 816 124	2 374 776	1 622 565
USA					
Bauxite	31 728	17 298	20 475	28 757	24 624
of which: Re-exports	2 136	4 898	4 486	9 160	9 382
Alumina	758 918	670 258	644 139	673 511	738 186
Alumina hydrate	37 982	23 934	25 614	22 085	31 575
Unwrought (a)	100 771	211 077	188 669	168 756	138 590
Brazil					
Bauxite	4 430	4 630	24 192	17 777	2 738
Guyana					
Bauxite, dried	1 665 040	1 688 822	1 382 057	1 377 390	934 284
Bauxite, calcined	661 587	674 599	779 718	784 023	742 432
Alumina	255 921	237 602	306 810	308 110	250 888
Surinam					
Bauxite	3 476 402	3 666 000	3 974 000	2 325 000	2 013 000
Alumina	1 279 189	1 209 000	1 077 000	1 088 000	1 078 000
Bahrain					
Unwrought (a)	3 944	14 455	98 198	90 093	120 903
China					
Bauxite	* 73 000	* 100 000	* 111 200	* 120 000	* 135 000
Alumina	* 3 000	* 6 000	* 2 000	...	...
Hong Kong					
Bauxite (Re-exports)	440	1 756	6 287	13 014	10 435
Alumina (Re-exports)	12	25	119	17	16
Alumina hydrate (Re-exports)	57	162	183	205	798
Unwrought (Re-exports)	2 262	3 383	4 418	2 925	4 281
India					
Bauxite	14 941	28 494	18 264	14 320	21 190
Unwrought (c)	4	14	20	10 108	25 319
Indonesia					
Bauxite	1 177 812	1 286 858	1 260 971	973 370	872 039
Iran (e)					
Unwrought	2 550	18 990	18 193	13 332	1 506
Japan					
Bauxite	7 905	316	146	860	1 066
Alumina	177 428	144 902	40 367	33 709	85 243
Alumina hydrate	42 161	38 274	39 129	23 443	38 224
Unwrought	6 539	1 669	24 161	77 364	52 024
Unwrought alloys	2 146	1 206	10 699	6 142	17 682

Exports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
Korea, Republic of					
Unwrought	6 952	1 335	(a) 5 027	...	10
Malaysia (g)					
Bauxite	987 374	1 018 954	814 954	649 371	523 818
Taiwan					
Unwrought	1 319	150	4 512	1 464	295
Australia					
Bauxite	* 5 200 000	* 6 200 000	* 6 800 000	* 6 100 000	* 5 900 000
Alumina	2 645 533	3 507 188	4 704 855	4 513 937	5 826 427
Unwrought (a)	94 538	57 420	52 731	76 661	64 532

Notes:

- 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 description 'unwrought' aluminium corresponds to item 684.1 of the Standard International Trade Classification (revised) and comprises ingots, blocks, unwrought bars, etc

(a) Including alloys

(b) Excludes exports to Belgium-Luxembourg, if any

(c) Years ended 31 March following that stated

(d) Estimated dry equivalent

(e) Years ended 20 March following that stated

(f) Official export data not available. Figures shown are IGS estimates only, based on known imports into certain countries

(g) From 1975 includes Sabah and Sarawak

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Bauxite, uncalcined	297 348	274 570	294 359	264 788	273 106
Bauxite, calcined	137 604	121 725	182 417	171 732	185 011
Alumina	313 646	544 657	599 949	670 834	522 491
Alumina hydrate	850	1 311	2 081	1 947	3 139
Unwrought	155 919	165 182	143 411	110 155	128 076
Unwrought alloys	110 944	122 135	137 304	49 489	90 170
Belgium-Luxembourg					
Bauxite	17 019	14 961	23 814	16 380	19 680
Alumina	4 212	5 672	5 012	4 257	8 242
Alumina hydrate	10 275	10 584	12 430	8 432	12 815
Unwrought	153 159	163 855	166 753	128 140	147 836
Unwrought alloys	56 073	70 885	86 252	60 036	110 412
Denmark					
Bauxite	35 709	1 777	3 107	130 418	93 064
Unwrought	988	2 814	3 140	596	710
Unwrought alloys	2 606	3 224	3 680	4 439	10 206
France					
Bauxite	517 905	587 765	1 012 251	1 456 369	2 269 601
Alumina	7 311	8 882	10 207	9 956	12 577
Alumina hydrate	2 445	11 701	3 955	2 118	6 903
Unwrought	135 013	157 138	183 100	137 185	140 011
Unwrought alloys	59 113	72 605	79 783	80 741	111 396
Germany, Federal Republic of					
Bauxite	2 330 177	2 748 634	4 340 342	4 213 076	4 086 997
Alumina	310 612	374 161	499 149	471 753	473 147
Alumina hydrate	1 475	2 596	1 570	2 541	2 652
Unwrought	224 826	263 918	215 254	169 111	245 280
Unwrought alloys	122 040	129 068	123 698	115 342	159 869
Irish Republic					
Unwrought (a)	3 479	6 008	6 325	5 336	7 705
Alumina	—	2 873	3 222	2 734	2 796
Italy					
Bauxite	676 158	815 876	1 972 367	1 829 887	1 836 634
Alumina	127 436	108 794	26 571	40 642	87 820
Alumina hydrate	57 520	80 089	23 327	25 825	23 304
Unwrought	117 625	114 114	160 778	81 623	128 166
Unwrought alloys	55 652	71 249	94 994	29 457	69 411
Netherlands					
Bauxite (b)	145 873	128 451	141 285	152 732	130 828
Alumina (b)	316 468	403 038	494 510	549 603	512 341
Alumina hydrate (b)	26 071	28 445	31 391	21 696	28 444
Unwrought (a)	65 174	96 831	158 758	121 365	162 108
Austria					
Bauxite	30 687	28 096	32 298	18 947	30 878
Alumina	174 270	189 961	188 519	186 948	188 489
Alumina hydrate	7 359	7 951	9 133	7 198	8 727
Unwrought	13 791	16 970	17 775	17 994	21 040
Finland					
Alumina	142	94	118	116	174
Alumina hydrate	18 377	28 245	21 565	24 625	22 401
Unwrought (a)	16 105	19 934	25 618	19 168	24 466
German Democratic Republic					
Bauxite	267 500	245 700	247 500	265 300	260 900
Alumina	96 897	83 467	90 450	94 524	92 648
Greece					
Alumina	130	—	—	—	—
Alumina hydrate	459	433	...	201	—
Unwrought	2 943	1 684	1 767	891	3 646
Hungary					
Unwrought	125 830	140 956	139 399	146 900	155 514
Iceland					
Alumina	2	138 751	195 209	169 919	130 966

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
Norway					
Bauxite	...	3 151	6 576	6 143	3 473
Alumina	1 009 499	1 226 042	1 258 210	1 234 914	1 313 561
Alumina hydrate	25 219	30 384	29 295	35 545	29 250
Unwrought	27 254	20 525	21 725	13 472	13 469
Unwrought alloys	8 332	11 902	6 186	5 911	10 092
Poland					
Bauxite	116 370	125 228	118 588	119 235	127 417
Alumina	230 934	243 193	262 566	271 588	281 060
Portugal					
Unwrought (a)	2 442	4 295	6 620	4 776	9 431
Romania					
Bauxite	226 300	385 300	561 548	...	...
Alumina	62 800	112 100	67 192	...	...
Soviet Union					
Bauxite	1 700 000	1 500 000	1 623 000	3 477 000	3 524 000
Alumina	698 300	902 500	886 446	1 028 846	1 000 000
Spain					
Bauxite	100 937	108 839	132 374	118 906	95 027
Alumina	304 298	326 716	399 777	445 564	408 641
Unwrought (a)	30 924	25 540	27 428	28 590	14 427
Sweden					
Bauxite	45 823	48 772	97 121	68 042	38 523
Alumina	202 294	188 020	188 165	220 221	189 849
Unwrought	21 874	22 570	34 179	22 307	25 579
Unwrought alloys	11 827	19 747	20 180	21 465	21 187
Switzerland					
Bauxite	11 046	9 924	15 990	20 230	25 534
Alumina	162 347	146 355	198 438	158 074	158 222
Unwrought & scrap (a)	24 891	29 371	41 600	16 100	31 143
Turkey					
Alumina	932	1 861	448	1 184	192
Unwrought (a)	31 609	40 363	50 266	51 681	26 861
Yugoslavia					
Bauxite	165 829	169 829	219 648	108 621	41 304
Alumina	46 810	46 220	100 584	175 463	38 327
Unwrought	42 492	55 775	43 970	29 680	32 283
Unwrought alloys	3 380	889	4 922	2 651	1 401
Cameroon					
Alumina	85 075	76 730	91 150	75 695	...
Egypt					
Unwrought & scrap	8 463	4 592	5 763	7 705	...
Ghana					
Alumina	311 038	220 493	327 137	273 801	...
Unwrought (a)	141	105	233	73	...
Morocco					
Bauxite	1 200	...	930	—	—
Alumina	726	929	1 533	1 115	1 415
Nigeria					
Unwrought (a)	110	350	1 258	3 298	5 334
South Africa					
Bauxite	13 275	20 589	7 188	32 130	13 248
Alumina	103 495	119 846	169 488	140 499	165 347
Unwrought	1 136	878	842	1 264	633
Tanzania					
Unwrought (a)	4 002	2 322	3 348	1 630	3 427
Canada					
Bauxite	2 623 135	2 655 762	2 715 604	2 420 669	1 230 053
Alumina	672 625	852 835	883 566	760 616	907 955
Unwrought	35 145	44 938	47 950	18 303	22 545
Mexico					
Bauxite, calcined	25 986	17 435	30 140	50 691	34 741
Alumina	80 706	82 421	92 150	85 246	93 065
Alumina hydrate	8 194	9 501	10 103	9 135	11 945
Unwrought	166	13 895	25 332	7 591	9 865

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
USA					
Bauxite, crude dried	13 138 028	12 827 680	14 049 811	11 815 032	12 796 409
Bauxite, calcined	250 817	298 538	309 125	353 797	314 136
Alumina	2 585 472	3 062 192	3 290 381	3 181 874	3 287 971
Unwrought	329 252	209 158	197 014	202 240	250 235
Unwrought alloys	259 250	251 723	264 617	213 152	266 591
Argentina					
Bauxite	40 869	17 252	38 673	29 071	20 691
Alumina	933	1 290	4 368	99 479	43 053
Alumina hydrate	7 692	8 613	8 936	6 021	7 518
Unwrought	79 632	73 456	86 059	48 931	21 570
Brazil					
Alumina	702	494	795	10 674	3 335
Alumina hydrate	1 003	1 214	1 135	1 053	1 321
Unwrought	41 456	41 319	81 388	62 900	57 783
Chile					
Unwrought	3 915	3 238	3 219	...	...
Colombia					
Bauxite	1 990	3 658	...	...	...
Alumina	627	832	...	...	...
Unwrought (a)	9 138	12 070	...	...	...
Uruguay					
Unwrought	1 583	1 758	1 934	20 164	...
Venezuela					
Alumina	28 664	57 140	82 435	61 053	...
Unwrought (a)	60	1 874	176	109	...
Burma					
Unwrought (a)	108	2	335	...	...
China					
Unwrought (a)	* 62 000	* 72 000	* 25 000	...	...
Hong Kong					
Bauxite	505	905	4 540	9 349	4 789
Alumina	187	253	264	229	228
Alumina hydrate	127	282	170	254	863
Unwrought	17 879	18 358	24 008	25 446	22 878
India (c)					
Alumina	539	593	466	385	421
Unwrought	438	129	166	4 981	330
Unwrought alloys	24	7	43	82	6
Indonesia					
Alumina	-	7 138	6 362	4 804	7 633
Unwrought	259	1 858	4 698	6 995	8 401
Iran (e)					
Alumina	47 510	54 708	51 843	36 961	19 494
Unwrought	10 131	340	711	5 222	9 543
Israel (g)					
Unwrought	11 974	2 980	3 840	582	409
Japan					
Bauxite	4 996 820	5 615 301	5 310 875	4 600 226	4 276 583
Alumina	548 204	565 000	646 748	561 260	627 417
Unwrought	271 335	373 101	384 816	328 256	340 425
Unwrought alloys	53 386	102 553	94 088	50 077	89 700
Korea, Republic of					
Alumina	28 575	39 689	43 924	41 772	49 243
Unwrought	1 020	4 383	(a) 17 546	(a) 16 532	(a) 32 445
Lebanon					
Unwrought & scrap	9 941	11 311	...	...	...
Malaysia (f)					
Alumina	2 873	4 447	4 049	4 332	4 201
Unwrought (a)	5 448	5 714	9 409	5 967	8 370

Imports of Bauxite, Alumina and Aluminium

tonnes

Country	1972	1973	1974	1975	1976
Philippines					
Bauxite	3 301	39	5 681	7 589	4 362
Unwrought	9 109	10 858	12 611	6 176	11 417
Unwrought alloys	2 319	4 402	5 782	2 282	5 962
Singapore					
Bauxite	1 153	301	3 528	12 612	5 397
Alumina	7 451	9 255	4 207	2 255	4 138
Unwrought	1 182	2 944	3 557	694	3 541
Syria					
Unwrought & scrap	498	845	1 024	1 250	1 933
Taiwan					
Bauxite	105 646	9 411	105 609	114 433	166 029
Alumina	15 318	14 797	25 690	6 250	21 542
Unwrought	6 287	14 672	18 338	11 573	36 358
Thailand					
Bauxite	...	3 065	500	6 804	3 086
Alumina	3 283	6 249	4 795	1 105	725
Alumina hydrate	5 765	4 268	6 777	2 660	1 022
Unwrought	12 894	21 850	22 793	18 089	26 102
Australia					
Alumina	2 568	2 216	2 748	2 555	3 199
Unwrought (a)	800	1 553	9 473	369	535
New Zealand (d)					
Alumina	143 063	179 314	296 875	151 618	297 647
Unwrought	9 806	2 776	1 235	2 220	75

Notes:

- 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 description 'unwrought' aluminium corresponds to item 684.1 of the Standard International Trade Classification (revised) and comprises ingots, blocks, unwrought bars, etc
- (a) Including alloys
(b) Excluding imports from Belgium-Luxembourg, if any
(c) Years ended 31 March following that stated
(d) Years ended 30 June of that stated
(e) Years ended 20 March following that stated
(f) From 1975 includes Sabah and Sarawak
(g) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Mine Production of Antimony

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Italy	1 201	1 358	1 177	1 028	1 009
Austria	535	577	540	555	568
Czechoslovakia	* 855	* 720	* 706	724	700
Soviet Union	* 7 500	* 7 500	* 7 500	* 7 500	* 7 700
Spain	138	114	134	80	157
Turkey	2 705	2 700	2 925	1 550	1 784
Yugoslavia	1 975	2 055	2 208	2 183	2 021
Algeria	* 60	* 60	* 60	* 60	* 60
Morocco	832	1 110	1 780	1 260	1 426
South Africa	14 706	15 780	15 380	15 958	10 699
Canada (a)	308	2 400	2 500	2 600	3 400
Guatemala	900	962	435	856	1 120
Honduras	30	96	80	103	117
Mexico (c)	2 976	2 388	2 407	3 137	2 546
USA	444	494	600	804	257
Bolivia	13 105	12 383	11 961	13 967	17 409
Peru (e)	749	686	317	122	603
Burma	131	143	166	278	475
China	* 12 000	* 13 000	* 12 000	* 12 000	* 12 000
India	894	517	393	238	404
Korea, Republic of	9	11	8	40	10
Pakistan	* 23	* 8	* 33	131	120
Sarawak	205	170	200	250	260
Thailand	5 865	4 217	5 232	3 870	4 534
Australia (b)	1 366	1 546	1 406	2 205	1 892
World total (d)	70 000	71 000	70 000	71 500	71 000

(a) Includes Sb content of antimonial lead alloys

(b) Includes Sb content of lead and zinc concentrates

(c) Includes Sb content of antimonial lead

(d) Excludes any antimony ore produced in Afghanistan, Hungary, Iran and Rhodesia

(e) Includes Sb content of antimonial lead plus Sb content of ores for export

Exports of Antimony

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Regulus & refined	674	671	2 747	803	902
France					
Crude & regulus (a)	112	217	219	386	157
Germany, Federal Republic of					
Ore	6	29	55	7	—
Regulus (a)	50	55	196	111	75
Oxide	267	201	301	327	268
Italy					
Regulus (a)	267	419	737	1 109	494
Netherlands					
Regulus (a)	13	61	38	60	66
Oxide	42	51	23	12	133
Austria					
Ore	357	450	297	329	488
Sulphide (b)	290	—	—	—	3
Soviet Union					
Regulus	105	1 054	...	...	...
Spain					
Metal	10	243	231	139	323
Sweden					
Regulus	11	5	22	108	56
Turkey					
Ore	3 278	5 068	13 174	1 766	2 795
Metal	103	169	545	205	347
Sulphide	2 402	1 700	1 394	...	—
Yugoslavia					
Regulus	1 315	1 114	1 775	1 305	775
Morocco					
Ore	3 302	2 796	4 084	3 102	3 795
South Africa					
Ore	34 653	29 794	22 530	12 247	18 115
Guatemala					
Ore & concentrate	1 096	2 227	1 460	2 361	1 525
Mexico					
Ore & concentrate	2 440	6 226	6 587	9 465	6 115
Regulus & refined	258	100	98	275	190
USA					
Metal & alloys (a)	121	493	834	419	471
Oxide	282	376	664	291	294
Bolivia					
Ore (c)(d)	13 149	14 779	13 071	11 784	15 665
Peru					
Ore & metal (c)	1 034	584	530	...	...
Burma					
Ore & concentrate	404	582	476	295	...
China (e)					
Ore & concentrate	* 2 200	* 3 000	* 2 000	* 2 500	* 1 400
Metal	* 3 100	* 3 400	* 1 900	* 2 800	* 2 000
Oxide	* 350	* 550	* 200	* 500	* 1 200
Thailand					
Ore	5 082	6 360	6 792	4 788	6 017
Metal	...	...	201	229	253
Australia					
Ore & concentrate	...	...	...	1 259	1 324

(a) Including scrap

(b) Believed to be crude liquated sulphide

(c) Sb content

(d) May include metal

(e) IGS estimate from various importing countries

Imports of Antimony

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Regulus & refined	98	168	260	398	116
Oxide	3	42	196	98	142
Sulphide	59	38	32	10	50
Belgium-Luxembourg					
Ore	8 459	12 024	8 969	8 707	11 170
Regulus (a)	50	352	72	222	210
Oxide	57	138	196	93	147
Denmark					
Regulus (a)	83	23	46	12	13
France					
Ore	4 643	6 286	8 184	5 045	10 829
Crude & regulus (a)	1 119	1 269	2 010	527	563
Germany, Federal Republic of					
Ore	3 326	3 012	3 369	2 129	3 514
Regulus (a)	1 363	1 377	924	841	1 064
Oxide	2 316	3 479	2 819	2 393	3 010
Italy					
Ore	1 464	2 688	2 326	728	1 090
Regulus (a)	203	173	132	185	230
Oxide	365	545	504	229	363
Netherlands					
Regulus (a)	99	110	64	43	47
Oxide	419	739	678	466	863
Austria					
Regulus	144	119	48	97	171
Greece					
Regulus	29	14	17	8	31
Norway					
Regulus	44	88	35	52	40
Romania					
Metal	900	1 100	...	...	...
Spain					
Ore	550	306	1 709	335	992
Regulus	295	367	317	137	99
Oxide	119	139	103	123	237
Sweden					
Regulus	65	44	22	47	25
Switzerland					
Regulus	212	95	62	122	160
Yugoslavia					
Ore & concentrate	1 383	1 677	2 863	3 276	1 935
Regulus	191	71	40	127	118
Algeria					
Metal	46	41	77	53	...
Morocco					
Metal (a)	13	36	7	4	12
Canada					
Oxide	467	675	796	395	734
Mexico					
Oxide	10	15	42	21	...
USA					
Ore (b)	15 614	15 131	13 295	7 548	9 093
Liquated	71	46	78	67	37
Metal (a)(c)	2 214	766	2 544	2 468	2 584
Oxide	4 565	4 247	5 727	8 937	10 533

Antimony

Imports of Antimony

tonnes

Country	1972	1973	1974	1975	1976
Argentina					
Ore	550	319	322	580	533
Brazil					
Ore	600	452	1 738	1 597	1 721
Regulus	135	126	206	35	119
Oxide	200	354	274	224	339
Sulphide	9	24	42	6	3
Chile					
Regulus	21	...	...	...	...
Colombia					
Regulus	8	21	...	...	...
Uruguay					
Regulus	4	3	8	...	...
Venezuela					
Metal (c)	32	11	16	60	...
India					
Ore	1 334	1 240	879	724	1 523
Regulus	91	26	1	11	46
Oxide (d)	59	47	24	42	68
Japan					
Ore & concentrate	13 312	13 959	10 857	9 012	12 703
Regulus	262	1 248	589	454	1 055
Sulphide	28	35	3	—	...
Malaysia (e)					
Metal	27	16	31	30	60
Australia					
Metal	40	117	73	497	33

(a) Including waste and/or scrap

(b) Sb content

(c) Including alloys

(d) Years ended 31 March following that stated

(e) From 1975 includes Sabah and Sarawak

Production of White Arsenic

Country	1972	1973	1974	1975	1976
France (b)(f)	6 930	6 925	6 848	5 495	* 8 000
Germany, Federal Republic of (a)	148	* 470	364	* 400	* 400
Portugal	261	362	263	256	278
Soviet Union	* 7 200	* 7 250	* 7 250	* 7 350	* 7 400
Spain	...	...	166	12	* 10
Sweden (b)	16 200	15 200	14 687	11 688	7 252
Namibia (c)	(d) 2 370	8 147	6 640	6 663	6 985
Mexico (e)	5 916	5 085	9 503	6 156	5 498
Brazil	164	77	18	13	* 10
Peru	1 019	1 386	1 973	1 260	789
Japan	427	450	193	60	* 60

Notes:

- 1 The production data in this table does not include calculated trioxide equivalents for output reported as arsenic metal
 - 2 Arsenic is known to have been produced also in the following countries: Argentina, Austria, Belgium, China, Czechoslovakia, German Democratic Republic, Finland, Hungary, Rhodesia and United Kingdom
- (a) Exports
 (b) Excluding metallic arsenic
 (c) Output of Tsumeb Corp. only trioxide equivalent of reported black arsenic
 (d) Years ended 30 June of that stated
 (e) Including trioxide equivalent of black arsenic
 (f) Byproduct of complex gold ores

Arsenic

Exports of Arsenic

tonnes

Country	1972	1973	1974	1975	1976
France					
White arsenic	8 887	9 543	9 311	8 940	5 759
Germany, Federal Republic of					
White arsenic	148	393	294	609	200
Italy					
White arsenic	23	0	69	1	1
Netherlands					
White arsenic	21	17	31	163	128
Portugal					
White arsenic	170	211	284	176	87
South Africa (a)					
White arsenic	2 376	5 242	* 3 000	* 4 000	* 2 000
Mexico					
White arsenic, pure	2 539	5 269	5 328	3 262	4 667
White arsenic, crude	258	82	72	-	50
Hong Kong					
White arsenic (Re-exports)	100	30	17	16	17
Japan					
White arsenic	128	47	20	6	5

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

(a) From 1974, IGS estimates, based on known imports into certain countries

Imports of Arsenic

Country	1972	1973	1974	1975	1976
United Kingdom					
White arsenic	2 776	6 284	5 917	4 611	4 879
Belgium-Luxembourg					
White arsenic	313	249	300	112	39
Denmark					
White arsenic	15	2	34	2	31
France					
Metallic arsenic	116	116	122	97	102
Germany, Federal Republic of					
Metallic arsenic (a)	98	52	81	32	61
Italy					
White arsenic	1 895	1 047	1 347	1 444	1 186
Metallic arsenic (a)	133	54	68	208	105
Netherlands					
White arsenic	756	830	839	740	645
Austria					
White arsenic	74	55	47	43	41
Finland					
White arsenic	358	500	723	719	836
Norway					
White arsenic	118	107	80	68	89
Switzerland					
White arsenic	24	48	58	43	30
Turkey					
Arsenic compounds	119	57	63	90	99
Yugoslavia					
Metallic arsenic	15	4	17	25	18
White arsenic	17	68	55	49	111
Morocco					
White arsenic	25	13	23	2	0
South Africa					
White arsenic	73	133	117	105	90
Metallic arsenic	...	...	1	2	17
USA					
Metallic arsenic	604	583	641	438	261
White arsenic	12 353	10 429	12 467	10 898	3 884
Argentina					
White arsenic	297	526	438	367	396
Brazil					
Metallic arsenic	26	31	44	17	38
White arsenic	732	722	851	691	1 285
Chile					
White arsenic	152	271	111	...	...
Colombia					
White arsenic	95	129	...	...	...
Hong Kong					
White arsenic	140	62	55	40	46
India (b)					
Metallic arsenic	273	83	95	12	34
White arsenic	471	651	704	340	986
Iran (d)					
White arsenic	...	112	90	40	66
Japan					
White arsenic	1 442	1 971	1 082	906	1 359
Korea, Republic of					
White arsenic	100	271	41	3	2
Malaysia (f)					
White arsenic	3 160	3 817	5 305	4 386	—

Arsenic

Imports of Arsenic

tonnes

Country	1972	1973	1974	1975	1976
Philippines					
White arsenic	159	176	98	108	106
Taiwan					
White arsenic	311	445	303	93	254
Thailand					
White arsenic	32	95	124	12	72
Australia					
White arsenic	597	1 127	1 154	366	584
New Zealand (c)					
White arsenic (e)	109	407	1 647	532	1 701

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

(a) May include some tellurium

(b) Years ended 30 March following that stated

(c) Years ended 30 June of that stated

(d) Years ended 20 March following that stated

(e) Includes pentoxide

(f) From 1975 includes Sabah and Sarawak

Production of Asbestos

tonnes

Country	1972	1973	1974	1975	1976
Italy	132 718	149 255	148 099	146 995	164 789
Bulgaria	* 1 500	* 13 000	* 25 000	* 22 000	* 20 000
Finland	6 388	6 337	5 593	2 791	—
Portugal	—	127	180	—	—
Soviet Union	* 1 220 000	* 1 280 000	* 1 360 000	* 1 900 000	* 2 290 000
Turkey	4 932	4 775	15 587	15 496	9 577
Yugoslavia	18 191	12 745	12 867	12 336	13 000
Egypt	441	329	283	479	1 096
Mozambique	544	566	190	—	—
Rhodesia	* 80 000	* 165 000	* 165 000	* 165 000	* 165 000
South Africa					
Amosite	102 278	106 477	94 543	88 411	78 898
Anthophyllite	—	425	822	1 912	1 506
Crocidolite	159 838	155 941	155 477	164 727	178 411
Chrysotile	58 512	69 807	82 430	99 660	111 025
Swaziland	28 683	36 993	37 917	37 601	39 327
Canada (a)					
Chrysotile	1 530 467	1 690 064	1 643 763	1 055 667	1 536 091
Mexico	—	15	5	26	1
USA (b)	119 443	136 110	98 966	89 497	104 183
Argentina	908	620	896	1 130	889
Brazil	32 883	44 868	61 871	73 978	92 703
China	* 200 000	* 210 000	* 150 000	* 150 000	* 175 000
Cyprus	29 780	31 706	28 086	31 602	34 518
India	12 539	12 460	23 272	20 312	23 740
Japan					
Chrysotile	4 788	) 8 255	5 130	4 612	7 703
Amphibole	9 639)			
Korea, Republic of	5 279	5 707	5 710	4 345	4 762
Taiwan	2 687	5 308	2 957	1 737	853
Australia					
Chrysotile	16 844	43 529	30 863	47 922	60 640
World total	3 800 000	4 200 000	4 200 000	4 100 000	5 100 000

(a) Sales and shipments

(b) Sold or used by producers

Exports of Unmanufactured Asbestos

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	3 710	2 826	4 698	1 698	1 996
Belgium-Luxembourg	778	433	645	1 721	269
Denmark	109	111	514	112	182
France	5 715	2 694	317	2 050	2 314
Germany, Federal Republic of	1 217	23 237	57 148	73 770	67 953
Italy	54 537	63 181	67 067	81 073	83 752
Netherlands	248	220	220	189	199
Austria	136	54	131	183	449
Finland	5 576	5 225	4 867	3 512	...
Soviet Union	432 700	448 900	528 000	613 303	630 000
Sweden	9	57	60	173	119
Switzerland	46	30	136	82	17
Yugoslavia	974	747	1 735	3 170	2 163
Mozambique	184	383	424	1 148	...
South Africa (a)					
Amosite	90 177	101 361	91 000)	
Crocidolite	120 037	157 249	160 000	) *	368 000
Chrysotile	37 178	57 737	70 000)	
Swaziland	28 683	39 632	32 421	41 219	41 847
Canada					
Crude	102	32	582	183	83
Fibre	711 987	842 810	817 446	568 683	708 494
Shorts	769 435	866 309	834 926	511 447	769 480
USA	53 183	60 275	55 994	33 064	42 568
Cyprus	27 988	28 999	37 166	28 378	33 552
Hong Kong (Re-exports)	7	1	21	705	433
Japan	758	257	180	2 158	3 529
Singapore	82	182	3 150	1 670	1 098
Australia	14 265	33 424	21 046	24 524	37 732

(a) From 1975, IGS estimates, based on known imports into certain countries

Imports of Unmanufactured Asbestos

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	150 296	198 073	153 004	139 185	144 938
Belgium-Luxembourg	89 865	85 615	82 662	60 549	70 373
Denmark	26 213	34 005	28 182	24 388	30 625
France	148 298	158 549	177 707	138 637	143 625
Germany, Federal Republic of	206 602	332 707	339 561	386 188	382 570
Irish Republic	4 174	3 717	7 609	6 848	5 275
Italy	47 490	60 289	66 373	66 273	77 179
Netherlands	26 414	37 718	48 217	35 852	49 466
Austria	39 991	39 592	33 067	34 343	38 552
Czechoslovakia	38 220	42 032	38 826	43 494	44 750
Finland	4 722	4 911	6 172	10 132	5 790
German Democratic Republic	59 657	51 691	56 318	65 725	58 002
Greece	8 929	14 339	19 371	13 315	20 420
Hungary	19 780	21 601	31 731	32 604	36 035
Iceland	13	7	8	7	9
Norway	5 114	4 748	5 892	5 629	5 134
Poland	70 520	83 883	102 609	94 412	108 261
Portugal	5 515	8 701	9 653	5 778	13 028
Romania	42 700	46 600	28 521	...	...
Spain	82 446	108 662	125 782	94 114	113 053
Sweden	15 532	18 679	17 339	15 529	10 366
Switzerland	16 764	19 730	17 731	17 262	18 929
Turkey	11 577	9 881	14 584	16 357	19 681
Yugoslavia	43 282	39 038	54 296	52 138	42 675
Algeria	3 414	2 449	3 872	4 582	11 852
Angola	887	1 081	...	...	...
Egypt	8 287	697	8 429	5 477	13 322
Ghana	1 494	4 008	21 613	13 188	...
Kenya	11	156	305	743	921
Libya	1 913	2 077	1 598	1 335	1 846
Morocco	3 145	3 400	6 718	7 160	6 621
Mozambique	98	153	288	740	2 570
Nigeria	37 234	32 190	46 178	29 024	55 258
Senegal	960	1 262	794	1 132	...
South Africa	16 162	19 388	30 385	28 560	30 428
Tunisia	2 288	1 121	1 019	1 619	1 474
Uganda	1 094	645	197	28	147
Zaire	...	...	1 162	170	1102
Zambia	2 430	3 322	3 017	...	...
Canada	5 952	4 499	3 932	5 166	6 002
Costa Rica	822	1 181	1 897	2 974	1 417
El Salvador	1 239	1 924	1 988	3 866	2 637
Guatemala	771	1 283	2 609	1 808	2 553
Jamaica	756	743	1 680	1 307	...
Mexico	39 222	51 400	56 132	60 395	50 668
Nicaragua	...	1 415	1 170	1 207	...
Panama	165	431	340	83	603
USA					
Amosite	6 525	7 114	7 274	3 533	1 428
Crocidolite	4 902	11 387	10 253	10 603	9 322
Chrysotile	648 793	690 316	649 805	462 336	550 817
Other unmanufactured	7 028	10 102	27 721	12 095	35 225
Argentina	24 668	13 484	17 831	15 548	20 868
Brazil	19 689	21 881	38 614	79 639	33 881
Chile	7 250	11 010	12 656	...	...
Colombia	18 277	19 656	...	...	...
Ecuador	1 995	...	...	...	...
Uruguay	...	...	2 086	1 927	...
Venezuela	6 692	8 626	9 671	15 548	...

Imports of Unmanufactured Asbestos

tonnes

Country	1972	1973	1974	1975	1976
Burma	1 143	662	150	...	...
Hong Kong	141	67	68	907	851
India	46 380	43 643	60 176	41 514	47 167
Indonesia	1 377	3 797	6 488	4 845	9 340
Iran (a)	12 773	15 462	26 058	24 814	40 109
Iraq	4 138	1 556	2 872	1 482	...
Israel (d)	9 402	5 182	8 099	856	3 542
Japan	278 582	341 540	352 110	253 097	325 346
Korea, Dem. P.R. of	* 4 400	* 4 700	* 4 600	...	...
Korea, Republic of	59 533	96 229	64 847	56 960	70 206
Kuwait	4 971	3 640	5 405	5 666	...
Lebanon	6 390	8 218	...	...	...
Malaysia (c)	12 763	15 229	19 207	19 932	19 281
Philippines	2 235	3 284	4 090	1 899	2 471
Singapore	2 523	3 155	10 701	10 341	9 154
Sri Lanka	1 850	...	2 547	...	2 908
Syria	339	5	1 508	3 391	1 349
Taiwan	7 175	13 096	16 348	13 363	19 157
Thailand	26 175	36 310	39 874	42 521	56 688
Australia	59 951	57 302	55 154	49 794	59 437
New Zealand (b)	6 713	8 812	7 117	12 484	9 168

(a) Years ending 20 March following that stated

(b) Years ending 30 June of that stated

(c) From 1975 includes Sabah and Sarawak

(d) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Barium Minerals

Country	1972	1973	1974	1975	1976
United Kingdom (a)	15 000	59 000	50 000	52 000	50 000
France	116 393	97 348	109 281	121 669	150 000
Germany, Federal Republic of	373 140	330 034	306 395	254 902	262 400
Irish Republic	237 000	270 370	345 000	295 000	323 000
Italy	175 868	175 069	183 420	212 416	179 412
Austria	202	428	361	279	81
Greece	127 683	124 485	165 000	174 596	90 620
Poland	* 50 000	* 50 000	* 51 500	53 548	80 342
Portugal	825	1 458	1 489	2 429	90
Soviet Union	* 310 000	* 320 000	* 326 000	* 350 000	* 400 000
Spain	89 546	123 719	103 962	77 095	88 965
Turkey	65 900	89 812	47 752	18 800	20 000
Yugoslavia	70 528	61 000	51 000	60 000	* 60 000
Algeria	35 200	65 000	55 000	68 000	75 000
Egypt	1 704	1 890	274	749	288
Kenya	628	903	442	376	359
Morocco	93 240	102 691	93 381	135 790	137 463
South Africa	2 517	2 014	1 547	795	1 915
Swaziland	150	116	296	219	368
Tunisia	* 1 000	18 556	17 366	5 923	23 573
Canada	70 090	92 152	78 019	81 356	100 266
Cuba	7 916	12 323	9 246	* 10 000	...
Mexico	261 403	255 257	271 710	299 985	270 063
USA (b)	822 000	1 002 000	1 003 000	1 196 000	1 119 000
Argentina	23 265	28 765	36 241	37 431	40 546
Brazil	87 614	53 563	60 715	53 675	51 238
Chile	5 902	4 696	4 194	5 982	17 123
Colombia	4 098	1 922	2 500	3 000	* 3 000
Peru	193 532	332 502	357 797	331 700	330 689
Burma	25 970	15 850	* 15 000	(e) 23 877	24 385
China	* 155 000	* 165 000	* 200 000	* 250 000	* 270 000
India	48 348	118 294	143 541	175 868	194 949
Iran (c)	80 000	80 000	* 95 000	149 359	* 170 000
Japan	65 681	63 950	38 402	37 608	53 704
Korea, Dem. P.R. of	* 120 000	* 120 000	* 120 000	* 120 000	* 120 000
Korea, Republic of	30	204	745	2 062	4 174
Malaysia	...	...	...	814	6 096
Pakistan	1 477	1 666	4 785	4 597	5 165
Philippines	...	...	...	3 803	3 199
Thailand	97 091	111 930	200 917	258 387	151 343
Australia	26 288	10 028	7 466	23 460	14 133
World total (d)	3 900 000	4 400 000	4 600 000	5 000 000	4 900 000

(a) Data include production of certain miscellaneous minerals

(b) Sold or used by producers

(c) Years ended 20 March following that stated

(d) Excluding Barium minerals known to have been produced in Afghanistan, German Democratic Republic, Philippines, Romania and Turkey

(e) Year ended 31 March following that stated

Barium

Exports of Barium Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Barytes & witherite	1 491	2 135	4 854	3 993	6 630
Belgium-Luxembourg					
Barytes & witherite	61	6 887	416	434	199
France					
Barytes & witherite	26 421	16 649	25 217	22 552	58 560
Germany, Federal Republic of					
Barytes & witherite	103 734	75 879	54 317	46 992	65 582
Irish Republic					
Barytes, unground	241 054	* 230 000	* 320 000	* 279 000	...
Italy					
Barytes & witherite	6 539	6 667	17 429	16 079	24 314
Netherlands (b)					
Barytes & witherite	2 608	34 039	73 644	81 545	102 895
Greece					
Barytes	79 352	69 043	101 811	83 402	33 695
Romania					
Barytes	25 000	27 800	(d) 6 391	...	...
Spain					
Barytes	77 302	82 104	67 484	50 666	52 801
Turkey					
Barytes	38 243	110 530	69 573	35 406	(e) 175 191
Yugoslavia					
Barytes	51 816	38 368	40 830	47 732	41 665
Morocco					
Barytes & witherite	84 934	94 160	83 307	125 005	120 556
Swaziland					
Barytes	150	116	296	94	369
Tunisia					
Barytes & witherite	...	13 050	6 050	5 000	4 000
Canada					
Barytes	18 314	45 370	31 263	45 606	60 297
Mexico					
Barytes	132 263	132 565	148 351	114 492	106 728
USA					
Barytes & witherite	47 976	61 767	55 570	52 060	37 402
Brazil					
Barytes	21 916	47 659	46	-	-
China					
Barytes & witherite	* 63 700	* 61 800	* 100 800	...	...
India					
Barytes, unground	36 229	34 143	144 578	173 610	151 426
Iran (c)					
Witherite	846	1 444	...	...	...
Israel					
Barytes	304	210	445	411	163
Japan					
Barytes & witherite	390	100	...	95	...
Korea, Dem. P.R. of					
Barytes	* 72 100	* 83 400	* 87 200	...	...
Pakistan (a)					
Barytes	—	1 016	—	...	...
Thailand					
Barytes	6 700	11 757	67 337	188 584	107 186
Australia					
Barytes, ground	13 218	581	1 843	13 957	4 017

(a) Years ended 30 June of that stated

(b) Excludes exports to Belgium-Luxembourg, if any

(c) Years ended 20 March following that stated

(d) Imports into Soviet Union only

(e) Including witherite

Imports of Barium Minerals

Country	1972	1973	1974	1975	1976
United Kingdom					
Barytes & witherite	58 780	89 383	54 029	28 200	36 448
Belgium-Luxembourg					
Barytes (a)	8 375	14 547	7 210	7 829	8 477
Denmark					
Barytes (a)	755	3 129	5 250	5 325	11 264
France					
Barytes (a)	64 423	54 430	77 584	44 429	11 411
Germany, Federal Republic of					
Barytes & witherite	90 330	128 686	165 336	91 156	124 162
Italy					
Barytes (a)	53 296	36 041	24 862	9 055	7 748
Netherlands (c)					
Barytes & witherite	65 386	93 109	126 723	118 777	121 874
Austria					
Barytes & witherite	4 914	4 160	3 082	3 288	4 008
Finland					
Barytes & witherite	1 332	1 783	2 688	2 038	1 272
Norway					
Barytes & witherite	27 673	33 525	60 387	75 914	51 589
Poland					
Barytes	26 224	26 522	19 271	24 442	35 058
Portugal					
Barytes & witherite	290	840	1 702	2 135	485
Romania					
Barytes	5 640	7 894	8 029	...	...
Soviet Union					
Barytes	231 900	261 900	239 000	329 544	300 000
Spain					
Barytes	1 031	1 011	609	847	10 197
Sweden					
Barytes & witherite	2 185	3 568	4 451	5 381	6 153
Switzerland					
Barytes & witherite	3 119	4 405	3 306	1 948	3 089
Algeria					
Barytes	2 971	31	10	27 495	...
Cameroon					
Barytes	226	685	2 232	...	...
Gabon					
Barytes & witherite	5 039	1 890	5 567	322	476
Senegal					
Barytes	351	32	20	20	...
South Africa					
Barytes	1 859	3 211	4 684	2 718	2 685
Tunisia					
Barytes	2 492	2 976	5 702	4 949	8 924
Canada					
Barytes	22 338	28 649	11 678	4 479	18 097
Trinidad & Tobago					
Barytes	31 875	22 031	15 018	30 545	30 474
USA					
Barytes (a)	567 689	662 183	697 116	609 077	833 257
Brazil					
Barytes	53	123	129	221	251
Venezuela					
Barytes	29 463	54 004	53 754	29 923	...
Hong Kong					
Barytes & witherite	214	157	265	198	1 013
Indonesia					
Barytes & witherite	...	46 950	62 506	69 730	51 835
Iran (b)					
Barytes & witherite	483	23	18	797	206
Iraq					
Barytes	(a) 687	(a) 10 427	8 729	27 540	...

Barium

Imports of Barium Minerals

tonnes

Country	1972	1973	1974	1975	1976
Japan					
Barytes	19 654	41 850	50 037	11 164	16 516
Malaysia (d)					
Barytes	120	1 611	193	9 545	8 270
Sabah (e)					
Barytes	4 960	307	—		
Philippines					
Barytes & witherite	4 069	2 361	1 617	2 060	272
Syria					
Barytes & witherite	17	3 462	2 180	35	810
Taiwan					
Barytes	10	1 050	160	1 080	7 386
Australia					
Barytes	1 547	5 564	5 270	947	1 435
New Zealand (f)					
Barytes & witherite	888	1 228	1 610	7 499	5 623

(a) Includes minor proportion of witherite

(b) Years ended 20 March following that stated

(c) Excludes imports from Belgium-Luxembourg, if any

(d) From 1975 includes Sabah and Sarawak

(e) From 1976 included with Malaysia

(f) Years ended 30 June of that stated

Production of Cadmium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	240	307	273	275	190
Belgium	432	1 128	1 044	972	1 175
France	572	606	643	602	586
Germany, Federal Republic of	914	1 221	1 338	1 018	1 275
Italy	416	397	505	411	436
Netherlands	122	62	75	272	398
Austria	26	29	31	30	29
Bulgaria	* 200	* 200	* 200	* 220	* 220
Finland	175	179	156	217	426
German Democratic Republic	* 15	* 15	* 15	* 18	* 18
Norway	89	88	90	47	80
Poland	* 350	* 350	* 350	* 370	* 400
Romania	* 90	* 90	* 90	* 90	* 100
Soviet Union	* 2 600	* 2 800	* 2 900	* 2 950	* 2 900
Spain	111	136	178	205	246
Yugoslavia	133	136	140	150	160
Namibia	142	104	114	118	118
Zaire	296	278	272	264	266
Zambia	16	15	13	6	7
Canada (a)	1 021	1 399	1 153	1 143	1 342
Mexico	186	182	527	586	710
USA (b)	3 760	3 403	3 024	1 989	2 047
Bolivia	51	56	110	156	141
Peru	210	232	182	160	174
China	* 100	* 100	* 110	* 110	* 110
India	35	33	59	53	34
Japan	3 029	3 170	3 027	2 657	2 500
Korea, Dem P.R. of	* 100	* 100	* 110	* 110	* 120
Australia	708	676	720	549	649
World Total	16 100	17 500	17 500	15 700	16 900

(a) Refined cadmium from all sources including that obtained from imported lead and zinc concentrates; includes cadmium in sponge

(b) Includes cadmium sponge and secondary metal

Cadmium

Exports of Cadmium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom (a)	195	134	181	165	105
Belgium-Luxembourg (a)	1 142	1 033	871	917	836
France					
Cadmium (a)	135	132	150	226	353
Cadmium sulphide	52	32	5	...	2
Germany, Federal Republic of					
Cadmium (a)	180	245	237	408	477
Cadmium oxide	...	...	...	18	28
Italy (a)	95	16	51	102	424
Netherlands (a)	158	74	98	341	474
Finland	185	176	241	189	450
Norway	78	80	59	61	93
Poland	—	230	277	277	...
Soviet Union	1 338	1 088	925	635	1 000
Spain	27	33	40	176	172
Yugoslavia	171	78	54	65	153
Zaire	315	295	...	90	76
Canada	1 039	1 480	902	643	1 556
Mexico (b)	604	404	903	449	261
USA (a)	461	138	37	183	229
Bolivia	51	56	110	156	141
Peru	620	678	...	...	...
Japan	1 018	1 513	1 606	1 471	1 841
Korea, Dem. P.R. of	* 33	* 34	* 78	...	...
Australia (a)	661	507	576	519	531

(a) Including scrap

(b) Including Cd content of flue dust, etc. exported for treatment

Imports of Cadmium

Country	1972	1973	1974	1975	1976
United Kingdom (a)	1 378	1 338	1 329	913	1 310
Belgium-Luxembourg (a)	1 070	1 258	1 477	978	1 376
Denmark	8	6	7	5	9
France					
Cadmium (a)	569	613	937	697	559
Cadmium sulphide	33	67	38	21	40
Germany, Federal Republic of					
Cadmium (a)	1 260	1 249	1 093	631	1 136
Cadmium oxide	341	451	332	248	503
Italy					
Cadmium (a)	33	96	129	143	259
Cadmium sulphide	34	59	36	20	28
Netherlands (a)	130	159	94	73	169
Austria	6	6	6	1	2
Spain	1	—	—	1	1
Sweden	168	160	170	264	403
Soviet Union	233	248	264	262	260
Yugoslavia	2	21	6	4	1
USA					
Cadmium (a)	1 099	1 765	1 800	2 375	3 095
Flue dust (c)	336	158	151	314	223
Brazil	101	102	175	72	143
India	227	46	4	5	—
Australia (b)	70	15	10	9	5

(a) Including waste and/or scrap

(b) Years ended 30 June of that stated

(c) Cd content

Production of Chrome Ore

tonnes

Country	1972	1973	1974	1975	1976
Albania	* 610 000	611 000	715 000	* 779 000	* 795 000
Finland (a)	97 000	147 510	165 479	331 540	413 981
Greece	22 130	18 442	9 589	24 528	* 27 000
Soviet Union	* 1 850 000	* 1 900 000	* 1 950 000	* 2 080 000	* 2 120 000
Turkey	680 200	568 500	666 000	670 000	740 000
Yugoslavia	28 137	6 100	400	1 700	2 000
Madagascar	111 770	102 500	155 874	194 127	211 426
Rhodesia	* 400 000	* 550 000	* 590 000	* 590 000	* 610 000
South Africa	1 483 159	1 649 630	1 876 913	2 075 378	2 409 235
Sudan	23 000	31 548	24 543	36 578	23 749
Cuba	37 104	37 164	37 734	* 38 000	* 38 000
Brazil	70 721	72 824	88 077	154 465	132 455
Colombia	* 200	* 12 000	* 12 000	* 12 000	...
Cyprus	29 644	29 749	33 809	27 623	9 156
India	281 025	290 537	396 535	500 294	402 118
Iran	* 140 000	* 140 000	* 175 000	155 456	* 160 000
Japan	24 819	23 174	28 858	23 149	22 150
Pakistan	30 683	20 388	9 479	9 961	10 872
Philippines	349 600	580 268	529 547	520 038	431 063
World Total	6 300 000	6 800 000	7 500 000	8 200 000	8 600 000

(a) Including foundry sand

Exports of Chrome Ore

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	769	10	4 450	2 771	965
Belgium-Luxembourg	5 994	—	475	208	323
France	325	207	581	368	396
Germany, Federal Republic of	7 722	3 337	3 678	3 014	13 551
Italy	883	1 303	1 642	3 811	2 962
Netherlands (c)	6 275	7 617	35 035	27 289	23 675
Albania	* 450 000	* 466 000	* 500 000	...	...
Finland	15 111	30 446	83 942	150 421	291 483
Greece	17 850	16 600	10 787	19 274	21 957
Soviet Union	1 112 000	1 251 000	1 139 000	1 171 000	975 000
Turkey	342 257	404 909	645 896	648 484	608 435
Yugoslavia	7 583	3 060	10 011	3 280	303
Madagascar	117 885	97 952	180 320	85 498	117 414
South Africa	931 875	1 093 164	1 072 467	1 246 382	1 196 434
Sudan	* 25 000	32 050	* 18 000	* 23 400	* 32 000
Cuba	1 005	18 455	14 348	...	...
USA	69 817	50 387	105 943	167 558	188 951
of which: Re-exports	51 693	31 241	89 495	41 122	76 795
Brazil	37 196	34 924	13 378	190	9 128
Cyprus	23 692	30 387	24 845	28 126	12 343
India	110 410	234 217	334 364	359 380	277 798
Iran (a)	101 105	150 811	149 400	77 078	5 400
Pakistan (b)	22 357	27 118	1 000	...	15 536
Philippines	382 807	598 153	641 817	501 350	378 104

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

(c) Excludes exports to Belgium-Luxembourg, if any

Imports of Chrome Ore

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	77 225	199 186	138 127	144 429	137 715
Belgium-Luxembourg	3 032	3 170	4 051	3 714	2 776
France	276 393	330 802	365 348	363 723	345 481
Germany, Federal Republic of	372 045	508 692	386 545	561 035	547 293
Irish Republic	—	12 119	13 051	9 240	7 758
Italy	193 590	199 624	149 853	160 728	236 915
Netherlands (a)	10 635	5 588	27 969	38 834	21 022
Austria	60 384	80 000	114 435	123 139	62 765
German Democratic Republic (b)	55 100	39 100	44 000	58 300	48 600
Hungary (c)	* 17 000	* 10 000	* 18 000	* 17 000	* 17 000
Norway	52 697	87 150	86 204	84 501	68 862
Poland	169 324	175 140	162 266	191 884	194 720
Spain	54 837	89 690	84 597	98 260	117 392
Sweden	146 177	247 349	270 287	395 735	377 465
Yugoslavia	58 660	161 398	176 465	172 486	234 335
South Africa	124 465	122 703	75 948	80 070	167 125
Canada (b)	32 787	36 591	42 057	43 354	43 647
Mexico	26 144	36 794	49 799	49 884	51 261
USA	958 000	845 000	1 000 000	1 136 000	1 157 000
Argentina	3 151	3 745	5 250	5 708	4 111
Brazil	4 737	11 554	30 686	9 300	12 232
Chile	3 200	2 884	3 509	...	...
Venezuela	...	...	6 481	5 000	...
Japan	874 996	1 163 616	1 154 911	1 268 875	1 217 404
Korea, Dem. P.R. of	* 21 000	* 11 000	* 20 000	...	...
Taiwan	4 026	26 722	21 173	3 467	4 579
Australia	396	4 752	18 056	9 569	3 496

(a) Excluding imports from Belgium-Luxembourg, if any

(b) Cr₂O₃ content

(c) Exports from Soviet Union

Production of Coal

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Mined –					
Anthracite	1 609 000	1 505 000	1 284 000	1 407 000	1 249 000
Bituminous	107 497 000	118 525 000	96 703 000	116 000 000	109 015 000
Opencast –					
Anthracite	1 596 000	1 631 000	1 353 000	1 127 000	1 114 000
Bituminous	8 829 000	8 502 000	7 877 000	9 286 000	10 830 000
Belgium					
Anthracite	2 325 000	2 014 000	2 038 000	1 506 993	) 7 238 000
Bituminous	8 175 000	6 828 000	6 073 000	5 971 710	
France					
Anthracite & bituminous	29 763 000	25 692 000	22 893 052	22 424 000	21 879 000
Lignite	2 962 000	2 764 000	2 759 086	3 186 000	3 188 000
Germany, Federal Republic of (a)					
Anthracite	6 413 665	) 97 388 787	94 876 248	92 393 000	89 269 000
Bituminous	96 056 438				
Brown coal	110 415 202	118 658 000	126 044 000	123 377 000	134 493 000
Irish Republic					
Anthracite & semi-bituminous	75 000	62 782	67 000	47 470	49 090
Italy					
Bituminous	151 210	4 827	3 681	2 055	1 340
Brown coal	839 108	1 301 217	1 960 066	2 050 056	2 027 991
Netherlands					
Anthracite & bituminous	2 811 000	1 722 000	758 000	—	—
Albania					
Brown coal & lignite	764 800	811 000	* 850 000	* 894 000	...
Austria					
Brown coal (d)	3 755 510	3 634 008	3 629 284	3 397 404	3 214 598
Bulgaria					
Anthracite	155 000	) 351 000	307 000	330 000	295 000
Bituminous	229 000				
Brown coal	5 959 000	) 26 459 000	23 998 000	27 515 000	25 184 000
Lignite	20 935 000				
Czechoslovakia					
Bituminous	28 009 000	27 768 000	27 907 000	28 052 000	29 083 000
Brown coal	81 726 000	78 237 000	79 171 000	83 535 000	86 838 000
Lignite	3 840 000	3 592 000	3 619 414	3 551 000	3 488 000
German Democratic Republic					
Bituminous	815 000	753 000	594 000	539 000	457 000
Brown coal	248 451 000	246 245 000	247 868 000	246 706 000	246 897 000
Greece					
Lignite	11 565 198	13 213 470	14 108 602	18 123 037	22 303 238
Hungary					
Bituminous	3 671 000	3 410 000	3 209 000	3 020 000	2 934 000
Brown coal	15 534 000	15 463 000	15 281 000	14 963 000	14 779 000
Lignite	6 636 000	7 908 000	7 271 000	6 904 000	7 544 000
Norway					
Spitzbergen –					
Bituminous	472 842	411 503	461 040	422 342	524 729
Poland					
Bituminous	150 700 000	156 630 000	162 002 000	171 625 000	179 303 000
Brown coal	38 221 000	39 200 000	39 826 000	39 865 000	39 305 000
Portugal					
Anthracite	251 704	220 808	230 209	221 621	193 434
Romania					
Anthracite & bituminous	8 073 000	8 294 000	8 523 000	8 809 000	8 696 000
Lignite	16 557 000	17 716 000	20 001 000	19 916 000	18 819 000
Brown coal	641 000	654 000	683 000	660 000	600 000
Soviet Union					
Anthracite & bituminous	451 119 000	461 223 000	473 374 000	484 675 000	494 377 000
Lignite	152 467 000	153 487 000	157 179 000	160 216 000	160 031 000
Spain					
Anthracite	3 013 010	2 988 917	2 947 980	3 154 386	3 548 099
Bituminous	8 050 650	6 976 078	7 390 778	7 469 454	6 969 235
Lignite	3 056 348	2 997 446	2 882 415	3 379 729	4 150 363

Production of Coal

tonnes

Country	1972	1973	1974	1975	1976
Turkey					
Bituminous	7 861 000	7 841 000	8 608 027	8 365 000	8 080 756
Lignite	10 248 000	10 538 000	11 050 575	11 760 000	13 694 645
Yugoslavia					
Bituminous	610 000	610 000	601 000	598 000	587 000
Brown coal & lignite	30 482 000	31 881 000	32 971 000	34 810 000	36 258 000
Algeria					
Anthracite & bituminous	12 360	12 800	...	...	...
Botswana	—	16 000	25 498	71 248	224 000
Morocco					
Anthracite	546 800	565 000	574 000	652 000	702 000
Mozambique					
Bituminous	309 912	394 195	425 843	574 843	* 372 000
Nigeria					
Sub-bituminous	341 000	355 415	312 304	284 494	* 280 000
Rhodesia (b)					
Bituminous	2 762 297	3 064 789	3 300 391	2 493 000	2 926 367
South Africa					
Anthracite	1 336 334	1 407 777	1 434 932	1 590 713	2 459 429
Bituminous	57 104 083	60 944 165	64 620 678	67 848 885	74 600 187
Swaziland					
Bituminous	126 035	142 220	139 541	126 872	126 140
Tanzania					
Bituminous	3 464	1 994	1 510	890	...
Zaire					
Bituminous	127 826	115 119	95 525	90 000	* 109 000
Zambia					
Bituminous	958 636	940 100	809 300	813 900	772 513
Canada					
Bituminous	11 358 706	12 337 123	12 708 479	15 751 913	14 388 822
Sub-bituminous	4 450 368	4 481 240	5 075 580	5 958 459	6 409 619
Lignite	2 978 105	3 654 395	3 485 531	3 548 585	4 677 597
Mexico					
Bituminous	3 613 929	4 263 137	5 165 739	5 193 448	5 649 628
USA					
Anthracite	6 446 723	6 196 037	6 002 721	5 627 549	5 650 159
Bituminous	530 147 000	523 966 000	531 160 000	570 274 000	592 863 000
Lignite	9 978 000	12 849 000	14 058 000	17 979 000	22 829 000
Argentina					
Lignite	694 426	453 192	625 647	502 158	614 585
Brazil					
Bituminous & lignite	5 875 907	5 574 250	5 498 194	6 393 725	7 032 649
Chile					
Bituminous	1 457 719	1 373 394	1 529 105	1 483 000	1 273 000
Colombia					
Bituminous	2 200 000	3 300 000	* 3 500 000	3 600 000	3 800 000
Peru					
Anthracite	29 344	10 220	* 10 000	22 929	* 20 000
Bituminous	75 000	96 000	* 100 000	* 100 000	...
Venezuela					
Bituminous	39 876	49 696	57 614	* 60 000	...
Afghanistan (c)					
Bituminous	* 200 000	* 180 000	136 000	140 000	...
Burma					
Bituminous	21 456	14 450	16 811	24 588	...
China	* 400 000 000	* 400 000 000	* 450 000 000	* 470 000 000	* 440 000 000
India					
Bituminous	74 771 000	77 086 000	84 102 000	95 911 000	101 036 000
Lignite	3 067 000	3 303 000	3 044 000	2 822 000	3 895 000
Indonesia					
Bituminous	179 240	148 855	156 153	206 388	192 911
Iran (c)					
Bituminous	1 000 000	1 000 000	1 200 000	879 900	* 1 000 000
Japan					
Anthracite & bituminous	28 990 000	22 414 000	20 333 303	18 999 000	17 664 000
Lignite	102 000	86 000	75 466	64 000	55 000

Production of Coal

tonnes

Country	1972	1973	1974	1975	1976
Korea, Dem. P.R. of	* 33 840 000	* 34 000 000	* 33 000 000	* 40 000 000	* 41 000 000
Korea, Republic of					
Anthracite	12 403 000	13 571 000	15 290 000	17 585 000	16 428 000
Mongolia	(e) 2 253 000	(e) 2 324 000	(e) 2 474 000	2 594 000	2 927 000
Pakistan					
Lignite	1 263 182	1 125 526	1 147 382	1 300 000	1 300 000
Philippines					
Bituminous	38 900	39 004	50 746	105 128	120 810
Taiwan					
Bituminous	3 913 218	3 327 107	2 934 427	3 140 578	3 235 810
Thailand					
Lignite	345 500	361 015	484 652	462 801	680 343
Vietnam, Democratic					
Anthracite	* 2 000 000	* 3 000 000	* 4 000 000	* 5 300 000	* 5 500 000
Australia					
Bituminous	62 417 000	67 867 000	66 474 000	69 676 000	69 370 000
Sub-bituminous	3 300 000	3 298 000	3 975 000	5 008 000	5 483 000
Brown coal	23 697 000	24 676 000	27 303 000	28 178 000	30 940 000
New Zealand					
Bituminous	382 000	422 107	422 215	457 414	418 000
Sub-bituminous	1 647 000	1 901 630	1 998 495	1 818 530	1 867 000
Lignite	152 000	144 806	143 607	136 449	171 000
World total	3 041 000 000	3 065 000 000	3 101 000 000	3 247 000 000	3 291 000 000

(a) Excluding production from 'small mines', and including production of brown coal from 'small mines' from 1974

(b) Years ending 31 August of that stated

(c) Years ending 20 March following that stated

(d) Includes some anthracite

(e) Including lignite

Exports of Coal

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Anthracite	630 873	871 700	1 220 680	1 490 013	1 033 725
Bituminous	1 117 757	1 821 409	629 483	691 849	400 672
Belgium-Luxembourg	661 204	646 470	588 143	562 258	391 034
France					
Anthracite	288 340	262 386	174 091	166 825	190 169
Bituminous	652 409	689 168	464 136	385 839	403 683
Lignite	23 260	29 112	26 247	14 999	19 007
Germany, Federal Republic of					
Brown coal	15 271	18 896	22 276	8 857	11 122
Other (b)	13 043 229	13 856 195	17 443 848	14 468 285	12 804 510
Irish Republic (b)	77 785	70 768	38 894	56 229	30 625
Italy (b)(c)	2 301	2 236	10 068	4 252	5 246
Netherlands (b)	1 700 623	1 511 418	1 022 741	288 124	460 909
Austria					
Brown coal	5 168	3 562	8 987	9 991	9 031
Czechoslovakia					
Brown coal	1 255 000	1 265 000	1 391 000	1 683 000	1 607 000
Other	3 310 000	3 480 000	3 717 000	3 666 000	3 770 000
Hungary	76 924	61 576	67 659	95 529	55 455
Norway	88 498	80 317	54 042	31 120	95 731
Poland					
Brown coal	4 106 000	4 968 000	5 199 000	3 442 000	3 084 000
Other	32 687 000	35 857 000	40 093 000	38 479 000	38 944 000
Soviet Union					
Anthracite	4 200 000	4 400 000	4 611 000	4 511 000	4 600 000
Other	20 200 000	20 000 000	21 400 000	21 440 000	22 300 000
Spain					
Anthracite	33 193	7 610	61 885	18 920	14 303
Sweden (b)	232	13 174	59 308	33 679	5 931
Switzerland	1 919	2 594	33 687	11 647	2
Turkey	...	600	300	200	500
Yugoslavia					
Brown coal	180 522	155 248	112 773	11 101	14 402
Lignite	409 341	362 666	444 664	327 970	240 761
Morocco					
Anthracite	19 185	21 249	32 435	19 322	30 030
Mozambique	55 481	52 740	129 801	266 143	204 843
Nigeria	19 102	25 541	17 214	31 024	10 416
South Africa					
Anthracite	697 934	905 483	1 034 758	1 121 834	1 530 151
Bituminous	544 595	1 039 183	1 242 459	1 565 469	4 430 991
Swaziland	62 922	80 200	62 061	67 212	109 819
Canada	7 723 350	10 979 645	10 833 159	11 694 657	11 772 151
USA					
Anthracite	707 579	650 040	678 511	580 236	558 070
Bituminous	50 766 246	47 963 228	54 364 853	59 573 586	53 891 778
Argentina	3 354	3 023	3 010	1 438	507
Colombia					
Anthracite	15 880	7 474	...	...	...
China	* 250 500	* 293 600	* 405 100	...	...
India (a)					
Anthracite	3 143	1 265	...	...	...
Other	411 631	387 181	450 837	402 444	598 836
Japan	9 041	23 698	132 488	26 110	51 213
Korea, Dem. P.R. of	* 61 700	* 46 100	* 236 800	...	...
Korea, Republic of					
Anthracite	159 053	219 150	25 200	—	—
Australia	23 511 000	28 434 000	29 356 000	30 353 000	31 103 000

Note: This table excludes bunker shipments

(a) Years ended 31 March following that stated

(b) Including anthracite

(c) Including bunkers

Imports of Coal

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	4 996 233	1 668 206	3 540 939	5 070 165	2 836 162
Belgium-Luxembourg	6 286 697	7 634 522	10 066 642	6 954 203	7 942 681
Denmark	2 187 746	3 023 803	3 627 952	4 131 845	4 177 022
France					
Anthracite	2 610 873	2 592 784	2 482 430	2 196 910	2 261 518
Bituminous	9 273 017	9 906 577	13 776 816	15 096 172	16 493 343
Lignite	15 502	19 838	23 470	10 100	11 836
Germany, Federal Republic of					
Brown coal	1 194 359	1 237 638	1 327 697	1 632 646	1 550 544
Other	6 929 611	7 020 823	5 837 224	6 244 033	5 970 316
Irish Republic					
Anthracite	61 244	—	57 418	26 807	27 102
Bituminous	891 561	806 672	834 349	663 003	579 326
Italy					
Anthracite & bituminous	10 718 476	10 843 398	12 246 923	12 330 633	11 841 203
Lignite	50 492	40 612	59 539	34 710	38 342
Netherlands					
Brown coal	22 372	19 954	18 235	12 719	13 283
Other	3 116 865	3 862 245	4 262 401	4 144 222	4 910 155
Austria					
Brown coal	512 061	467 218	524 968	345 877	259 595
Other	2 789 592	2 819 329	2 896 380	2 545 996	2 606 960
Bulgaria	5 699 000	5 762 000	6 052 000	6 271 000	6 184 000
Czechoslovakia	5 535 000	5 299 000	5 168 000	5 188 000	5 209 000
Finland					
Anthracite	103 556	60 224	93 587	104 602	105 964
Other	2 559 284	2 912 433	3 843 996	3 740 400	2 676 005
German Democratic Republic	7 601 000	8 341 000	7 200 000	6 440 000	6 096 000
Greece					
Anthracite	21 357	10 582	7 965	4 087	5 810
Other	444 397	640 019	832 723	704 821	565 664
Greenland	2 569	14 511	8 164	2	3 857
Hungary	1 660 000	1 470 000	1 430 000	1 438 000	1 297 000
Norway (a)	417 580	403 021	543 246	456 896	453 386
Poland					
Anthracite	37 000	30 000	30 000	36 000	50 000
Other	1 157 000	1 165 000	1 203 000	1 096 000	1 080 000
Portugal					
Anthracite	4 160	5 052	9 010	3 973	3 701
Other	362 645	425 478	297 228	367 529	404 155
Romania	754 100	1 355 900	1 871 500	2 221 700	2 480 000
Soviet Union	9 700 000	10 000 000	9 712 000	9 818 000	9 376 000
Spain					
Anthracite	9 547	21 280	6 131	17 835	35 523
Other	2 931 367	3 028 746	3 228 559	3 956 398	4 513 192
Sweden					
Anthracite	103 256	98 862	99 773	132 226	177 352
Other	882 102	927 703	1 401 027	1 499 293	1 840 325
Switzerland	147 416	132 811	243 168	123 486	114 024
Turkey	94	15 975	1 596	26 160	246 975
Yugoslavia					
Anthracite	141 171	179 970	196 883	181 362	130 492
Other	1 743 334	1 783 820	1 779 534	1 965 012	2 491 297
Algeria	58 558	59 523	47 390	36 493	...
Angola	3 375	7 817	...	...	...
Egypt	28 781	24 502	661 656	1 514 015	978 458
Ghana	...	17 933	5 893	10 160	...
Kenya	39 142	70 209	66 107	43 914	61 990
Madagascar	21 418	12 352	13 734	19 623	21 554
Malawi	53 257	56 499	52 734	...	62 471
Morocco	41 571	27 045	13 150	15 684	10 686
Mozambique					
Anthracite	1 171	406	429	389	...
Other	255 577	243 118	235 435	178 812	151 415

Imports of Coal

tonnes

Country	1972	1973	1974	1975	1976
Nigeria	9	106	2 652	1 273	4 171
South Africa	15 353	727	95 896	130 194	302 894
Tunisia	24 543	32 518	35 531	52 919	23 229
Zaire	...	...	68 843	25 631	19 120
Zambia	18 133	634	...	...	...
Bahamas	13	16	184	...	...
Canada					
Anthracite	344 135	302 092	213 438	292 010	213 381
Bituminous	17 030 943	14 374 780	12 035 680	14 814 732	14 281 066
Other	101 741	153 642	132 001	148 166	90 557
Cuba	52 140	44 516	46 600	...	...
Mexico	379 829	229 963	363 059	456 520	88 460
Panama	8 160	12 326	4 332	499	9 583
St Pierre & Miquelon	1 409	1 009	...	...	...
USA					
Bituminous	4 641	86 799	1 708 557	681 387	865 136
Other	43 239	34 823	222 512	185 969	243 358
Argentina	427 830	782 055	822 483	1 029 873	807 268
Brazil					
Anthracite	5 528	3 799	3 806	8 266	6 806
Bituminous	1 856 185	1 695 868	1 593 731	2 711 764	3 094 110
Chile	132 631	240 541	363 243	...	...
Uruguay	...	...	34 907	13 730	...
Venezuela	12 887	25 233	2 694	7 274	...
Burma	126 755	64 460	80 394	...	...
Hong Kong	20 778	22 614	10 802	10 087	12 972
India	436	6 738	530	2 485	35
Indonesia	10 092	111	424	13 437	9 342
Iran (b)	1 917	50 507	22 312	24	183
Israel (d)	4 657	3 100	340	222	156
Japan					
Anthracite	755 570	1 030 818	1 516 838	1 025 781	1 071 987
Other	48 522 415	55 823 642	62 634 477	61 080 743	59 686 541
Korea, Dem. P.R. of	* 356 000	* 269 000	* 228 000	...	...
Korea, Republic of	8 845	611 711	773 415	671 492	1 493 951
Malaysia (c)					
Anthracite	4 318	13 037	18 661	15 762	22 119
Philippines	597	1 301	5 077	570	5 041
Syria	750	1 216	1 215	...	...
Taiwan	20 000	59 145	541 870	77 315	213 532
Thailand	300	1 176	2 331	3 995	3 450
Australia	8 714	10 586	15 460	6 078	11 050

(a) Excludes coal imported from Spitzbergen

(b) Years ended 20 March following that stated

(c) From 1975 includes Sabah and Sarawak

(d) Figures may be incomplete as value only given in Israeli trade returns for imports from some countries

Mine Production of Cobalt

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Finland	1 309	1 137	1 067	1 170	1 207
Soviet Union	* 1 600	* 1 700	* 1 750	* 1 800	* 1 800
Botswana	—	—	40	92	198
Morocco	1 602	1 400	1 750	1 960	1 010
Zaire	30 800	32 800	33 900	31 300	34 300
Zambia	5 200	4 900	3 000	4 900	3 800
Canada (a)	1 520	1 517	1 564	1 354	1 356
Cuba	* 1 500	* 1 600	* 1 600	* 1 600	* 1 600
Philippines	—	—	30	106	466
Australia	770	776	1 078	2 709	3 250
New Caledonia	3 300	3 500	4 200	4 000	3 500
World total	47 600	49 300	50 000	51 000	52 500

Note: Other countries also known to produce ores containing recoverable quantities of cobalt include Bulgaria, Cyprus, German Democratic Rep., Greece, Poland, Spain and Sweden

(a) Includes Co content of ores and residues shipped to overseas refineries including UK

Production of Cobalt Metal

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom (a)	...	...	...	...	...
Belgium (b)	...	...	...	...	...
France	774	836	885	769	858
Germany, Federal Republic of	412	287	339	315	384
Czechoslovakia (c)	...	...	...	...	...
Finland	803	1 010	812	821	892
Norway	320	912	1 238	773	576
Soviet Union	* 1 600	* 1 700	* 1 750	* 1 800	* 1 800
Zaire	13 043	15 052	17 545	13 638	10 686
Zambia	2 056	1 930	1 962	1 860	2 175
Canada (d)	...	* 600	326	254	298
USA	—	—	—	30	165
Japan	12	11	10	48	515
World total	19 600	22 900	25 500	20 900	18 900

(a) Details of production not known: it is believed that currently about 600 tonnes of cobalt in metal and compounds may be recovered annually in the United Kingdom from imported materials

(b) Production not reported. Much of the metal recorded under Zaire is believed to be further processed in Belgium

(c) Czechoslovakia is thought to recover cobalt from materials imported from Cuba. However no data are available to enable a reliable estimate to be made

(d) Metal produced from domestic and imported ores: up to 1974 includes cobalt produced in the United Kingdom

Exports of Cobalt

Country	1972	1973	1974	1975	1976
United Kingdom					
Cobalt (c)	371	499	283	502	1 428
Cobalt oxides	342	185	156	148	634
Belgium-Luxembourg (b)					
Cobalt (c)	* 3 300	* 3 800	* 4 100	* 2 000	* 3 700
Cobalt oxides	* 2 100	* 2 600	* 3 100	* 1 200	* 1 700
France					
Ingots & scrap (a)	465	763	552	461	943
Cobalt oxide	199	207	178	120	201
Germany, Federal Republic of					
Cobalt (c)	282	205	287	221	322
Cobalt oxide	14	27	56	44	67
Netherlands					
Cobalt (c)	97	155	142	117	124
Finland					
Cobalt	860	991	808	810	811
Cobalt oxides	24	—	—	33	19
Norway					
Cobalt	492	723	1 172	601	936
Sweden					
Cobalt	2	8	36	82	23
Cobalt oxides	2	0	0	0	—
Switzerland					
Cobalt oxides	0	0	—	2	7
Morocco					
Ore	12 606	10 549	14 547	13 144	8 550
Zaire					
Cobalt	11 375	17 144	...	7 237	3 589
Zambia					
Cobalt	2 329	1 145	1 894	...	...
Canada					
Cobalt	1 263	1 035	968	659	1 040
of which: Re-exports	872	484	489	228	516
Cobalt oxides	735	512	673	561	471
USA					
Cobalt (c)	1 219	1 816	1 747	1 965	1 967
Cobalt oxides	75	807	414	105	161
Japan					
Cobalt oxides	5	16	12	12	11

(a) Including alloys

(b) Exports of Cobalt are not separately recorded. Figures shown are IGS estimates based on known imports into certain countries

(c) Including alloys and scrap

Imports of Cobalt

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Cobalt (b)	1 311	1 936	2 808	2 168	2 262
Cobalt oxides	732	808	1 058	884	807
Denmark					
Cobalt	12	23	32	16	23
France					
Ore	7 815	8 499	8 625	9 158	8 679
Ingots & scrap (a)	409	939	855	681	796
Cobalt oxide	269	253	296	170	198
Germany, Federal Republic of					
Cobalt (b)	1 252	1 681	1 955	1 482	1 870
Cobalt oxide	391	456	509	153	346
Italy					
Cobalt (b)	211	402	422	282	256
Cobalt oxide	364	269	362	260	256
Netherlands					
Cobalt (b)	156	126	78	76	84
Austria					
Cobalt oxides	2	2	3	1	3
Finland					
Cobalt	3	2	21	5	3
Cobalt oxides	2	1	1	19	53
Norway					
Cobalt	7	9	5	5	4
Cobalt oxides	8	15	24	10	19
Portugal					
Cobalt oxide	82	57	13	5	12
Spain					
Cobalt oxides	84	148	194	109	218
Sweden					
Cobalt	297	341	521	573	545
Cobalt oxides	5	5	5	3	4
Switzerland					
Cobalt oxides	5	6	15	4	7
Yugoslavia					
Cobalt	37	46	42	41	83
Cobalt oxides	102	19	34	19	19
South Africa					
Cobalt oxides	15	18	15	16	12
USA					
Cobalt	5 934	8 328	6 709	2 763	6 862
Cobalt oxide	514	522	696	106	63
Cobalt salts	37	28	1	19	107
Argentina					
Cobalt	89	108	128	84	84
Brazil					
Cobalt	144	204	180	202	255
Cobalt oxide	82	93	154	50	93
Hong Kong					
Cobalt oxide	46	50	36	36	56
India					
Cobalt	115	180	203	111	59
Cobalt oxide	9	16	15	...	7
Iran (c)					
Cobalt oxides	...	543	21	28	79
Japan					
Cobalt (b)	2 952	4 657	3 716	1 581	3 932
Cobalt oxide	684	943	819	252	754
Korea, Republic of					
Cobalt oxides	8	24	17	20	18

Imports of Cobalt

Country	1972	1973	1974	1975	1976
Australia					
Cobalt, ingots, etc.	129	147	80	30	28
Cobalt oxide	16	12	94	6	23

(a) Including alloys

(b) Including alloys and scrap

(c) Years ended 20 March following that stated

Mine Production of Copper

tonnes (metal content)

Country	1972	1973	1974	1975	1976
United Kingdom	238	459	434	652	552
France	472	414	392	500	500
Germany, Federal Republic of	1 321	1 436	1 734	1 961	1 613
Irish Republic	13 656	13 046	12 700	9 839	4 097
Italy	1 049	858	900	800	1 000
Albania	6 700	7 000	7 000	9 000	10 000
Austria	2 231	2 713	2 612	1 923	1 138
Bulgaria	46 300	48 000	51 600	* 55 000	* 57 000
Finland	34 800	38 213	36 667	38 000	41 700
German Democratic Republic	* 20 000	* 18 000	* 18 000	* 16 500	* 16 000
Norway	26 007	29 947	24 120	28 115	31 080
Poland	135 000	152 000	185 000	230 000	267 000
Portugal	543	651	568	447	387
Romania	* 30 000	* 40 000	* 40 000	* 45 000	* 55 000
Soviet Union	* 1 030 000	* 1 060 000	* 1 060 000	* 1 100 000	* 1 130 000
Spain (a)	39 900	51 588	46 753	55 193	64 962
Sweden	30 619	44 819	40 637	40 634	44 860
Turkey	22 100	30 200	30 000	27 300	29 323
Yugoslavia	103 133	111 797	112 080	114 900	120 100
Algeria	428	353	350	378	* 400
Botswana	...	600	2 755	6 499	12 300
Congo	5 485	3 709	2 100	2 187	972
Kenya (b)	72	* 70	* 70	* 70	* 70
Mauritania	15 051	21 277	20 079	6 582	9 431
Morocco	3 831	4 149	4 670	4 600	4 400
Namibia	21 500	28 300	33 200	34 900	43 500
Rhodesia	31 800	35 000	40 000	48 000	44 000
South Africa	161 927	175 797	179 111	178 927	196 880
Uganda	(c) 14 169	14 200	11 500	* 8 500	* 7 000
Zaire	438 501	488 514	499 331	496 330	443 948
Zambia	717 700	706 574	697 956	676 921	709 000
Canada (d)	719 672	823 942	821 381	733 826	730 930
Cuba	1 827	2 107	2 901	* 3 000	* 3 000
Guatemala	—	—	1 600	3 300	3 500
Mexico	78 720	80 501	82 670	78 196	88 970
Nicaragua	2 188	1 545	1 775	645	631
USA (e)	1 510 318	1 558 489	1 448 776	1 282 184	1 456 564
Argentina	1 125	284	315	380	265
Bolivia	8 400	7 971	7 433	5 882	4 680
Brazil	4 455	3 412	3 075	1 922	54
Chile (e)	716 900	735 400	899 700	828 300	1 005 200
Ecuador	438	304	179	239	* 275
Peru (e)	219 126	202 686	211 593	165 813	220 300
Burma	* 80	* 75	* 70	* 86	* 92
China	* 115 000	* 120 000	* 130 000	* 140 000	* 150 000
Cyprus	16 767	14 217	12 828	9 866	7 900
India	15 669	15 785	20 457	25 155	25 400
Indonesia	5 000	37 900	64 600	63 500	66 800
Israel	11 175	10 165	9 488	8 035	...
Japan	112 114	91 280	82 135	84 639	81 606
Korea, Dem. P.R. of	* 13 000	* 13 000	* 13 000	* 13 000	* 13 000
Korea, Republic of	2 082	2 321	3 235	2 330	2 097
Malaysia	—	—	—	3 800	18 200
Philippines	213 695	221 195	225 485	225 775	237 588
Taiwan	1 996	2 400	2 500	1 900	2 000
Australia	185 843	220 335	251 340	218 961	218 480
Papua New Guinea	124 000	182 900	184 100	172 477	176 519
World total	7 000 000	7 500 000	7 600 000	7 300 000	7 900 000

(a) Excluding copper contained in iron pyrites

(b) Cu content of cement copper

(c) Smelter

(d) Blister copper plus recoverable copper in ores and matte exported

(e) Recoverable

(f) Estimated content of concentrates, cement copper and cupreous pyrites exported

Smelter Production of Copper

Country	1972	1973	1974	1975	1976
Belgium	66 000	66 000	78 500	40 000	72 000
France	6 500	8 800	9 300	2 800	2 200
Germany, Federal Republic of	203 500	232 486	244 671	224 600	244 500
Albania	6 700	6 900	7 400	8 500	10 000
Austria (a)	22 693	22 823	26 713	26 931	28 589
Bulgaria	* 48 000	* 53 000	* 55 000	* 60 000	* 70 500
Finland	41 500	48 100	48 400	46 200	50 300
German Democratic Republic	* 20 000	* 18 000	* 18 000	* 16 500	* 22 500
Norway	32 966	34 648	31 737	26 349	23 393
Poland	134 000	152 000	185 000	230 000	240 000
Romania	* 45 000	* 48 000	* 48 000	* 50 000	* 50 000
Soviet Union	* 1 030 000	* 1 060 000	* 1 060 000	* 1 100 000	* 1 144 000
Spain	80 120	86 721	105 365	109 706	112 500
Sweden	55 400	61 900	59 900	57 000	62 000
Turkey	18 000	25 000	29 664	27 000	38 000
Yugoslavia (a)	130 000	138 000	150 000	138 000	136 000
Namibia	26 100	35 400	45 800	35 700	36 100
Rhodesia	* 30 000	* 30 000	* 30 000	* 30 000	* 23 500
South Africa	171 700	165 500	172 600	166 800	168 000
Uganda	14 100	9 600	8 700	8 300	7 000
Zaire	427 000	460 479	470 000	462 600	408 200
Zambia	698 000	683 000	709 500	659 000	705 900
Canada (b)	473 700	495 000	515 600	496 300	488 600
Mexico	74 236	73 034	78 310	76 374	85 175
USA	1 533 499	1 582 097	1 424 113	1 312 813	1 392 186
Chile	589 900	556 500	724 300	724 400	856 300
Peru	177 120	174 029	181 142	157 714	185 549
China	* 135 000	* 140 000	* 150 000	* 160 000	* 165 000
India	10 467	12 011	11 773	22 020	24 696
Japan	777 700	1 000 500	952 500	821 500	838 200
Korea, Dem. P.R. of	* 13 000	* 13 000	* 13 000	* 13 000	* 13 000
Korea, Republic of (a)	3 200	9 246	12 399	21 957	30 911
Taiwan	4 767	6 649	9 859	8 539	11 660
Australia	145 341	162 568	196 129	180 037	167 346
World total	7 200 000	7 700 000	7 900 000	7 500 000	7 900 000

(a) Refined

(b) Cu content of blister and anode copper

Exports of Copper

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ore & concentrates	2 178	1 224	288	30	—
Unwrought –					
Matte & unrefined	—	1 431	1 859	746	1 866
Refined	18 821	66 090	35 023	15 730	12 291
Alloys	45 425	43 151	36 339	27 436	18 866
Scrap	2 170	10 775	29 688	35 285	39 056
Belgium-Luxembourg					
Copper ore	1 944	42	1 004	4 399	772
Unwrought (a)	271 594	327 937	301 230	255 891	316 456
Scrap	10 551	18 741	16 116	7 851	12 898
Denmark					
Unwrought	875	3	43	2	—
Unwrought alloys	2 453	1 633	1 545	541	819
Scrap	2 133	2 249	11 459	7 841	8 849
France					
Ore	—	749	2 710	1 682	455
Matte	358	1 112	557	397	551
Unwrought –					
Unrefined	6 334	6 835	7 770	2 183	4 439
Refined	1 386	3 565	2 789	377	6 488
Alloys	2 574	5 038	3 138	1 186	2 575
Scrap	57 863	75 170	74 413	55 713	100 508
Germany, Federal Republic of					
Ore	...	951	5 015	—	77
Copper matte	2 006	1 042	...	1 182	212
Unwrought –					
Unrefined	20 941	32 785	50 222	38 463	38 913
Refined	79 452	110 701	82 440	49 790	53 700
Alloys	7 932	5 866	8 439	7 321	9 576
Scrap	35 115	38 016	41 790	28 493	39 565
Irish Republic					
Ore & concentrates	57 154	11 142	32 222	41 268	18 529
Scrap	2 863	—	—	—	—
Italy					
Ore	3 760	5 891	3 095	2 961	2 817
Unwrought	3 945	8 983	10 739	6 865	7 117
Scrap	1 520	2 630	4 955	3 249	12 144
Netherlands					
Unwrought	5 143	7 295	16 751	10 477	7 354
Unwrought alloys	3 400	5 256	5 829	4 193	3 999
Scrap	30 712	42 081	37 513	25 211	37 357
Austria					
Ore	4 850	5 755	948	2 236	1 246
Unwrought	5 456	9 234	9 916	9 821	12 155
Unwrought alloys	883	774	1 077	1 118	1 662
Scrap	373	803	500	622	704
Finland					
Unwrought	7 761	23 006	12 192	14 461	23 633
Norway					
Ore	39 754	63 841	52 964	83 270	105 715
Unwrought –					
Unrefined	7 325	7 633	6 290	6 969	5 865
Refined	23 894	23 891	25 777	17 917	14 793
Alloys	2 272	2 905	2 266	446	1 318
Scrap	1 027	1 076	2 152	1 362	2 303
Poland					
Unwrought	49 767	40 303	58 036	90 329	96 062
Portugal					
Unwrought	140	382	466	22	—
Soviet Union					
Unwrought	209 200	246 400	251 725	209 859	227 000
Spain					
Unwrought	3 075	9 267	7 971	17 216	34 963
Scrap	107	1 390	176	22	102

Exports of Copper

Country	1972	1973	1974	1975	1976
Sweden					
Ore	14 087	36 687	33 855	20 884	32 064
Unwrought	23 554	12 417	16 631	19 499	33 153
Unwrought alloys	3 231	6 552	3 966	2 661	3 115
Scrap	795	423	353	932	1 053
Switzerland					
Unwrought	4 391	6 154	5 221	3 990	5 569
Scrap	10 878	19 114	15 034	6 854	7 266
Turkey					
Ore & concentrates	5 560	...	...	...	...
Unwrought	...	2 601	13 270	5 540	—
Yugoslavia					
Unwrought	90 339	78 076	72 235	47 132	60 639
Algeria					
Ore	934	961	820	1 690	...
Scrap	...	1 703	1 467	1 688	...
Angola					
Unwrought	171	40	...	...	...
Congo					
Ores & concentrates	3 174	...	...	3 274	* 1 000
Ivory Coast					
Matte & scrap	1 067	...	1 018	655	628
Mauritania					
Ore (b)	14 859	18 892	23 683	...	...
Morocco					
Ore	13 598	14 319	17 586	8 511	22 700
Scrap	954	968	1 389	352	1 548
Namibia (e)	...	...	...	...	...
Senegal					
Unwrought & scrap	641	665	677	442	...
South Africa (f)					
Ore & concentrates (g)	1 974	58 337	* 68 000	* 62 000	* 78 000
Unwrought (g)	129 932	132 012	* 163 000	* 144 400	* 151 600
Tunisia					
Unwrought & scrap	466	927	556	162	720
Uganda					
Unwrought	14 141	9 714	9 001	7 762	5 366
Zaire					
Ores & concentrates	* 25 000	* 75 000	...	80 435	30 413
Unwrought	432 318	464 168	451 300	258 520	166 656
Scrap	...	...	375	1 588	233
Zambia					
Unwrought –					
Blister	87 741	43 071	35 570	19 022	21 100
Electrolytic	621 083	625 465	636 399	616 058	712 400
Sludge, slimes & residues	2 005	1 449	1 428	...	...
Canada					
Ores, concentrates & matte (b)	269 805	347 616	344 271	314 518	303 055
Unwrought	309 124	289 310	289 650	319 958	317 455
Scrap	35 712	50 296	39 335	31 103	33 003
Mexico					
Concentrates	15 204	14 889	3 147	7 367	2 579
Unwrought –					
Unrefined	17 775	14 930	8 496	12 003	5 098
Refined	7 960	6 197	—	422	51
Nicaragua					
Ore & concentrates	...	39 147	6 862	3 310	...
USA					
Ore & concentrates (b)	15 661	20 427	11 309	7 345	7 138
Matte (b)	2 095	899	20	191	6 337
Unwrought –					
Blister	7 774	6 785	2 416	1 415	2 486
Refined	165 728	173 328	113 274	156 181	102 343
Master alloys	1 174	3 285	2 509	2 307	1 546
Scrap	77 159	138 578	144 853	130 900	103 712

Exports of Copper

tonnes

Country	1972	1973	1974	1975	1976
Bolivia					
Ore (b)	8 430	8 230	7 923	5 991	4 681
Chile					
Ore & concentrates	23 414	83 000	112 400	89 700	130 800
Copper cement	10 603	16 400	15 900	11 700	18 500
Unwrought –					
Blister	148 355	159 500	214 500	179 800	231 000
Refined	398 512	387 800	487 800	504 200	594 700
Peru					
Ore (b)	42 720	28 179	24 113	31 033	* 20 000
Unwrought	161 433	162 209	161 130	120 346	* 165 000
Cyprus					
Ores & concentrates	65 776	65 005	46 471	39 311	42 520
Cupreous pyrites	46 718	33 403	23 334	19 778	...
Copper cement	5 836	6 543	2 354	—	...
Hong Kong					
Scrap	10 304	10 560	6 425	5 287	8 157
Iran					
Ore (c)	660	1 100	...	8 700	4 200
Israel (i)					
Matte	929	2 070	2 083	173	239
Copper cement	16 384	11 621	12 512	9 595	4 180
Scrap	1 533	110	190	208	1 759
Japan					
Unwrought	25 480	29 619	279 837	21 974	29 333
Scrap	...	60	719	362	467
Malaysia (h)					
Ore	250	...	...	13 278	81 354
Scrap	843	1 341	1 149	2 351	1 794
Philippines					
Ore & concentrates	780 438	783 803	861 306	816 333	956 558
Unwrought	7	8	45	68	8
Scrap	3 366	2 520	2 235	100	1 305
Singapore					
Unwrought	304	171	49	54	13
Taiwan					
Ore & concentrates	575	1 038	708	792	264
Unwrought	6 656	5 909	361	440	5 151
Scrap	5 921	3 775	1 776	1 634	464
Australia					
Ores, concentrates & matte (b)	42 109	48 817	51 101	51 540	51 961
Unwrought –					
Blister	7 090	8 568	12 464	12 308	9 935
Refined	59 845	48 157	70 536	91 508	76 240
Alloys	41	36	6	40	23
Scrap	830	315	396	575	393
New Zealand (d)					
Unwrought	2 097	1 853	640	161	92
Scrap	720	955	498	490	1 016
Papua New Guinea					
Ores & concentrates (b)	122 888	175 876	191 256	169 862	179 194

Note: In this table the description 'unwrought' copper corresponds to item 682.1 of The Standard International Trade Classification and includes both blister and refined copper. Additionally the term 'unwrought' as used here includes alloys unless these are separately specified.

(a) Including matte

(b) Cu content

(c) Years ended 20 March following that stated

(d) Year ended 30 June of that stated

(e) See South Africa

(f) From 1974, IGS estimates, based on known imports into certain countries

(g) Figures up to 1973 are Department of Customs & Excise figures; these include data not only for South Africa but also for Botswana, Lesotho, Namibia and Swaziland

(h) From 1975 includes Sabah and Sarawak

(i) Figures may be incomplete as value only given in Israeli trade return for exports to some countries

Imports of Copper

Country	1972	1973	1974	1975	1976
United Kingdom					
Ore & matte	357	219	46	307	1 491
Unwrought –					
Blister	39 864	26 832	82 711	81 734	50 989
Electrolytic	381 918	374 631	361 753	352 588	353 710
Other refined	25 342	64 057	22 489	16 998	29 378
Alloys	404	911	2 459	669	838
Scrap	17 716	23 712	15 953	9 618	11 898
Belgium-Luxembourg					
Ore	25 447	30 990	32 406	46 651	24 053
Unwrought (a)	399 206	443 537	393 191	405 126	537 517
Scrap	51 478	89 449	100 321	58 545	82 098
Denmark					
Unwrought	5 880	5 518	4 153	3 787	4 859
Unwrought alloys	148	560	1 321	672	990
Scrap	246	231	747	1 564	1 473
France					
Matte	3 580	1 970	2 480	872	1 179
Unwrought –					
Unrefined	15 713	18 296	42 001	26 777	23 894
Refined	366 364	377 308	370 637	101 264	338 080
Alloys	3 645	4 066	6 821	3 995	4 760
Scrap	13 279	13 208	17 816	14 228	16 705
Germany, Federal Republic of					
Ore	417 117	514 806	571 146	564 352	615 285
Burnt cupreous pyrites	1 126 264	746 999	785 736	842 068	888 865
Matte	269	893	743	2 051	1 027
Unwrought –					
Unrefined	117 894	121 169	98 160	119 850	130 790
Refined	393 679	401 792	440 025	393 936	401 303
Alloys	57 139	52 630	34 193	40 320	49 566
Scrap	71 644	116 655	95 141	89 294	114 699
Irish Republic					
Unwrought	65	307	264	182	274
Italy					
Unwrought –					
Unrefined	7 252	1 654	3 582	2 379	4 853
Refined	280 189	273 522	304 467	282 154	292 496
Alloys	29 046	24 140	32 857	14 811	22 495
Scrap	48 819	57 097	66 762	55 940	69 060
Netherlands					
Unwrought	41 842	48 586	47 328	47 974	59 102
Unwrought alloys	1 937	1 168	1 589	1 341	1 408
Scrap	7 921	8 719	10 791	11 975	12 420
Austria					
Unwrought –					
Unrefined	8 635	5 909	6 569	8 268	9 706
Refined	28 889	25 182	26 477	15 869	10 348
Alloys	1 823	1 265	1 523	882	1 935
Scrap	7 878	11 880	8 937	11 904	12 938
Finland					
Ore	598	3 091	36 265	2 878	15 805
Unwrought	9 211	9 195	15 329	14 535	16 619
Greece					
Unwrought	15 567	18 161	14 812	23 993	23 663
Scrap	388	56	120	310	17
Hungary					
Unwrought (c)	31 771	35 422	42 633	44 528	30 248
Norway					
Unwrought	251	392	1 205	1 382	2 481
Unwrought alloys	491	558	498	1 657	960
Scrap	70	5	285	1 121	1 005
Poland					
Unwrought	32 134	23 704	10 404	1 139	1 512

Imports of Copper

tonnes

Country	1972	1973	1974	1975	1976
Portugal					
Ore	56	...	...	50	696
Unwrought	7 507	7 933	8 361	10 085	10 141
Scrap	1 516	2 476	1 728	502	732
Soviet Union					
Unwrought	8 800	6 100	4 900	8 532	8 000
Spain					
Ore	144 948	115 457	128 689	115 388	174 126
Unwrought	60 134	64 941	37 791	38 025	24 882
Scrap	16 752	18 411	11 906	14 978	8 740
Sweden					
Ore	39 693	44 902	40 360	56 387	57 946
Matte	7 159	10 589	3 118	6 685	8 643
Unwrought -					
Unrefined	2 764	—	—	—	—
Refined	62 490	59 517	66 190	68 531	65 668
Alloys	3 195	3 043	3 944	6 276	3 691
Scrap	4 974	6 155	5 036	8 484	3 189
Switzerland					
Unwrought	30 289	27 086	31 176	33 890	21 303
Unwrought alloys	3 366	1 233	1 437	1 238	1 629
Scrap	397	505	1 986	4 170	1 945
Turkey					
Ore	21 340	17 858	...	2	...
Yugoslavia					
Concentrates	61 911	34 957	78 325	9 991	30 701
Unwrought	73 532	59 357	61 159	37 549	31 812
Scrap	2	...	54	...	8
Algeria					
Unwrought	5 790	5 544	3 990	84	...
Egypt					
Unwrought & scrap	390	77	1 140	3 499	...
South Africa					
Ore & concentrates	34 792	37 138	76 770	11 076	8 227
Unwrought	6 487	6 371	10 066	4 221	3 821
Unwrought alloys	21	32	32	23	32
Scrap	80	278	1 088	369	709
Canada					
Ores, concentrates, scrap (d)	16 127	47 463	49 139	16 519	13 930
Unwrought	16 241	17 179	22 106	10 908	9 122
Unwrought alloys	9 105	8 546	8 839	5 937	6 663
Scrap alloys	3 506	5 372	5 191	3 728	4 743
Cuba					
Unwrought, electrolytic	2 700	2 761	2 627	...	...
Mexico					
Unwrought	25	17	5 419	58	9
USA					
Ore & concentrates (d)	48 675	38 224	48 463	58 856	64 126
Matte (d)	1 249	677	2 381	8 248	16 586
Unwrought -					
Blister (d)	142 820	139 800	188 540	80 695	40 355
Refined	172 268	181 353	275 737	132 416	346 112
Scrap	17 014	24 552	37 788	18 352	26 654
Argentina					
Unwrought, refined	37 313	36 667	44 696	38 932	28 526
Brazil					
Unwrought, refined	84 817	93 001	131 418	127 466	152 552
Colombia					
Unwrought & scrap	1 466	1 172	4	...	...
Uruguay					
Unwrought	709	1 196	...	22	...

Imports of Copper

Country	1972	1973	1974	1975	1976
China					
Unwrought (c)	* 18 500	* 65 200	* 63 400	...	...
Hong Kong					
Unwrought	2 311	231	1 533	146	163
Scrap	3 176	2 212	2 242	2 365	2 079
India					
Unwrought (e)	50 265	49 188	39 466	11 318	29 703
Scrap	774	31	28	1 139	7 113
Indonesia					
Unwrought	92	70	624	754	356
Iran (f)					
Unwrought	505	418	382	1 118	873
Scrap	677	439	1 529	2 691	2 499
Israel (h)					
Unwrought	13 257	110	310	...	...
Scrap	10	155	78	...	...
Japan					
Ore & concentrates	2 170 409	2 972 749	3 123 600	2 605 399	2 587 392
Matte	8 098	17 249	16 392	—	—
Unwrought	293 552	394 587	292 356	207 990	229 964
Unwrought alloys	9 614	15 283	11 098	4 261	3 158
Scrap	70 455	68 380	35 198	38 953	33 798
Korea, Republic of					
Ore	2 223	20 866	21 843	29 030	67 859
Unwrought	2 815	6 692	11 364	6 900	10 501
Scrap	8 393	20 393	24 079	24 643	28 988
Malaysia (b)					
Unwrought	85	59	63	53	18
Philippines					
Unwrought	3 271	3 375	4 781	3 404	4 789
Singapore					
Unwrought	52	108	268	399	353
Taiwan					
Ores & concentrates	—	...	12 743	10 000	8 025
Unwrought	18 646	16 959	22 588	19 555	24 443
Scrap	1 789	3 380	2 324	5 662	5 705
Thailand					
Unwrought	1 022	1 152	672	2 739	2 851
Scrap	632	1 638	712	631	393
Australia (g)					
Unwrought	31	553	381	160	5
Unwrought alloys	50	77	1 171	98	59
Scrap	2 739	7 949	2 249	3 360	10 503
New Zealand (g)					
Unwrought	1 024	939	2 261	1 055	1 141

Note: In this table the description 'unwrought' copper corresponds to item 682.1 of the Standard International Trade Classification and includes both blister and refined copper. Additionally the term 'unwrought' as used here includes alloys unless these are separately specified. The term 'scrap' includes scrap alloys

(a) Including matte

(b) From 1975 includes Sabah and Sarawak

(c) Including semi-manufactures

(d) Cu content

(e) Years ended 31 March following that stated

(f) Years ended 20 March following that stated

(g) Years ended 30 June of that stated

(h) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Diamond

carats

Country	1972	1973	1974	1975	1976
Soviet Union	* 9 200 000	* 9 500 000	* 9 500 000	* 9 700 000	* 9 900 000
Angola	2 155 057	2 124 720	1 959 272	991 000	340 000
Botswana	2 402 936	2 416 460	2 718 000	2 413 839	2 384 000
Central African Republic	524 102	380 100	337 800	337 671	286 000
Ghana (a)	2 658 717	2 306 788	2 571 745	2 328 278	2 283 000
Guinea	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
Ivory Coast	333 541	299 916	278 533	209 023	60 000
Lesotho (b)	9 018	9 000	11 798	3 466	7 051
Namibia	1 596 144	1 599 565	1 569 961	1 747 739	1 693 994
Sierra Leone	1 800 301	1 354 775	1 716 230	1 377 191	999 441
South Africa	7 394 974	7 565 374	7 510 075	7 295 133	7 022 770
Tanzania	652 045	501 459	489 569	447 800	438 000
Zaire	13 389 829	12 389 840	13 596 935	12 810 319	11 821 000
Brazil	99 087	112 751	254 032	261 641	76 045
Guyana	48 666	52 502	29 976	20 762	13 897
Venezuela	456 300	780 829	1 199 973	1 060 000	833 000
India	20 009	21 427	20 975	19 994	20 487
Indonesia	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
World total (c)	43 700 000	42 300 000	44 500 000	41 500 000	38 600 000

Note: This table does not show production of synthetic diamond

(a) Includes diamonds produced by companies and private diggers

(b) Exports

(c) Does not include an estimate for China

Exports of Diamond

carats

Country	1972	1973	1974	1975	1976
United Kingdom	£455 973 223	£794 794 377	£784 054 102	£838 710 561	£1 311 212 736
Belgium-Luxembourg					
Rough	6 150 698	5 732 503	5 478 689	8 458 788	15 330 053
Cut	2 388 597	2 502 501	2 277 308	2 255 639	2 627 110
Industrial	7 304 072	8 954 810	9 131 617	5 897 850	8 817 103
France					
Uncut	5 525	197 240	50 090	290	7 825
Cut and polished	34 680	30 285	34 075	60 565	34 075
Industrial	551 435	577 070	478 900	946 365	423 890
Germany, Federal Republic of					
Industrial	145 000	280 000	210 000	122 530	190 715
Other	60 000	90 000	85 000	129 090	158 595
Netherlands	1 591 234	2 519 749	1 997 342	1 750 547	6 260 392
Portugal					
Industrial	858 079	662 179	563 152	397 679	70 455
Other	1 432 717	1 456 701	1 438 693	1 035 946	290 253
Sweden					
Industrial	£19 459	£6 661	£39 884	£52 680	£36 860
Gem	£73 138	£2 779 930	£1 682 006	£291 805	£330 470
Angola	2 199 860	2 111 172	...	...	...
Central African Republic	506 000	352 293	342 000	332 000	...
Congo	£533 000	£544 000	£494 000	£742 000	...
Ghana					
Industrial	3 192 648	2 267 435	2 555 925	2 371 592	...
Ivory Coast	537 565	300 000	242 559	255 000	95 000
Lesotho	9 018	9 000	11 000	3 000	5 000
Liberia	879 575	812 257	635 723	420 014	320 298
Sierra Leone	1 846 733	2 104 000	1 631 202	1 466 645	919 871
South Africa (a)					
Uncut	£73 398 000	£141 343 000	£125 006 000	£149 656 000	£236 172 000
Cut and polished	£35 073 000	£63 630 000	£76 044 000	£55 570 000	£58 425 000
Industrial	£17 249 000	£4 328 000	£16 696 000	£31 997 000	£24 967 000
Tanzania	651 200	575 017	339 169	595 045	445 625
Togo	£174 700	£362 000	£115 300	£56 400	...
Zaire	12 948 000	14 189 000	...	1 765 312	1 083 998
Canada					
Industrial	241 583	175 918	228 413	370 936	251 198
of which: Re-exports	241 583	175 918	228 413	321 940	229 682
Cut and polished	19 270	14 704	27 398	26 976	38 333
of which: Re-exports	19 082	14 704	27 398	26 733	38 333
USA					
Uncut	1 335 951	1 389 340	1 059 089	1 055 169	1 025 923
of which: Re-exports	1 335 606	1 389 340	1 059 089	1 049 903	1 025 183
Cut	465 674	337 013	402 179	388 186	485 735
of which: Re-exports	94 638	77 894	117 043	128 579	173 622
Industrial	4 336 162	4 095 535	3 837 451	3 374 784	3 076 661
of which: Re-exports	3 851 838	3 579 466	2 856 323	2 425 083	2 437 573
Bort	383 999	457 692	476 675	373 647	432 808
of which: Re-exports	329 384	418 142	465 445	370 619	355 816
Brazil	35 000	10 000	...	10 000	...
Guyana	...	...	25 954	16 920	11 844
China					
Gem	...	* £506 800	* £99 600	...	...
Industrial	* £48 600	* £202 600	* £61 600	...	...
India					
Gem	£29 156 000	£37 629 000	£45 883 000	£47 359 000	£121 610 000
Israel (c)					
Polished	2 532 000	2 679 000	2 766 000	3 118 000	3 637 000

Diamond

Exports of Diamond

carats

Country	1972	1973	1974	1975	1976
Japan					
Industrial	103 315	93 355	11 405	3 675	479
Cut & polished	5 590	8 785	7 460	3 200	1 664
Malaysia (b)					
Cut & polished	£56 631	£60 402	...	£38 500	£54 000
Singapore					
Cut	£762 400	£827 900	£908 500	£3 625 400	£888 500
Rough	...	...	£57 900	£73 800	£332 800
Industrial	£6 000	£301 800	£194 700	...	£39 800
Australia					
Industrial	104 689	108 270	209 766	178 169	187 416

Note: 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. (See explanatory notes, page iv)

(a) Total of exports and re-exports

(b) From 1975 includes Sabah and Sarawak

(c) Figures may be incomplete as value only given in Israeli trade return for exports to some countries

Imports of Diamond

carats

Country	1972	1973	1974	1975	1976
United Kingdom	£478 477 813	£723 828 156	£773 322 227	£876 924 539	£1 124 873 744
Belgium-Luxembourg					
Rough	12 037 875	13 863 181	10 425 711	12 535 215	19 753 106
Cut	901 367	1 138 832	1 275 866	1 279 131	1 692 393
Industrial	8 294 370	6 660 200	8 573 186	7 778 513	9 392 852
France					
Uncut	130 125	51 635	35 185	27 915	30 820
Cut & polished	161 695	173 260	313 150	265 825	313 150
Industrial	878 590	662 575	859 370	851 845	781 350
Germany, Federal Republic of					
Industrial	750 000	855 000	900 000	891 525	774 880
Other	440 000	500 000	455 000	575 930	728 425
Netherlands	1 276 252	2 418 413	2 454 423	2 082 066	14 656 945
Norway					
Industrial	25 000	...	10 000	55 000	10 000
Sweden					
Gem	£964 000	£3 416 000	£4 996 000	£5 500 165	£7 082 820
Industrial	£273 000	£485 000	£688 000	£740 460	£487 820
Yugoslavia					
Industrial	101 150	225 585	375 000	66 700	537 105
Madagascar	35 000	35 000	20 000	160 000	...
South Africa					
Industrial	4 793 500	10 165 500	7 741 000	9 043 500	6 708 500
Rough	95 000	59 500	47 500	74 000	27 000
Cut & polished	3 500	3 500	14 000	9 000	13 000
Tanzania					
Cut	51 290	48 770	47 490	124 355	213 660
Zambia					
Industrial	£26 300	£111 100	£496 700	...	...
Canada					
Cut	103 787	116 250	128 872	157 978	191 538
Industrial	865 735	887 024	1 126 199	1 032 396	885 361
Mexico					
Cut	19 565	11 200	1 445	21 980	...
Industrial	2 040 000	5 200 000	4 895 000	170 000	...
USA					
Uncut	3 096 415	2 736 969	2 450 152	2 341 415	2 464 053
Cut & polished	2 457 144	2 420 211	2 142 517	2 266 265	3 111 993
Industrial	5 529 737	6 605 194	6 404 058	5 220 124	5 291 337
Bort	589 970	74 374	143 081	283 269	186 264
Argentina					
Industrial	25 000	45 000	90 000	...	145 000
Colombia					
Industrial	...	80 000	...	...	...
Costa Rica					
Industrial	90 000	130 000	125 000	15 000	135 000
China					
Gem	* £4 872 000	* £5 598 000	* £1 496 4000	...	...
Industrial	* £347 000	* £456 000	* £112 000	...	...
Hong Kong					
Gem	989 451	1 129 824	1 022 549	1 005 204	1 227 553
Industrial	£26 050	£749 500	£258 500	£28 000	£70 000
India					
Gem	£16 702 000	£31 792 000	£26 071 000	£38 426 000	£90 739 000
Industrial & bort	375 000	455 000	490 000	795 000	480 000
Iraq					
Cut	45 000	95 000	75 000	50 000	...
Israel (c)					
Rough	4 938 000	7 238 000	6 120 000	6 894 000	10 003 000
Industrial	320 000	1 488 000	1 486 000	1 745 000	2 250 000
Bort	616 000	615 000	...	...	...

Imports of Diamond

carats

Country	1972	1973	1974	1975	1976
Japan					
Industrial	814 240	1 157 475	822 675	421 255	627 109
Uncut	11 345	17 835	20 950	23 875	32 977
Cut & polished	521 070	662 740	518 310	619 845	683 028
Korea, Republic of					
Industrial	£26 500	£58 200	£96 200	£164 100	£366 100
Malaysia (a)					
Gem	£696 219	£920 419	£1 009 253	£556 700	£928 600
Philippines					
Industrial	53 269	81 100	85 580	82 020	54 905
Singapore					
Uncut	£159 300	£146 100	£256 600	£268 100	£48 500
Cut	£1 573 600	£2 414 500	£4 149 600	£6 871 200	£6 895 000
Industrial	£51 600	£147 200	£7 600	£5 300	£184 900
Thailand					
Industrial	653 158	175 594	19 351	26 901	18 990
Australia					
Industrial	626 240	900 662	1 199 805	698 403	849 684
Gem	62 277	65 692	77 646	94 307	94 818
New Zealand (b)					
Industrial	£25 356	£17 400	£30 300	£37 000	£51 500
Other	£426 400	£664 400	£1 045 400	£776 600	£831 600

Note: 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. (See explanatory notes, page iv)

(a) From 1975 includes Sabah and Sarawak

(b) Years ended 30 June of that stated

(c) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Diatomite

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	9 030	4 673	6 000	6 000	2 000
Denmark (a)					
Diatomite	5 899	5 309	6 119	4 409	5 196
Moler (e)	126 200	221 000	108 000	93 000	93 000
France (b)	197 098	203 701	205 205	188 075	* 210 000
Germany, Federal Republic of	(a) 29 087	(a) 13 064	(a) 10 586	53 035	* 55 000
Italy	35 695	48 670	31 715	* 32 000	* 32 000
Austria	2 453	2 135	1 986	1 570	1 882
Iceland	21 936	22 057	24 745	21 318	21 668
Portugal	1 651	1 153	1 933	2 090	3 150
Soviet Union	* 380 000	* 390 000	* 400 000	* 410 000	* 420 000
Spain (b)	19 189	19 358	27 297	20 370	18 931
Sweden	—	444	566	423	327
Algeria	4 564	4 600	8 000	10 000	15 000
Egypt	1 668	1 600	1 633	1 600	...
Kenya	1 812	1 241	1 657	1 799	2 668
South Africa	314	528	786	649	619
Canada (c)	* 500	* 500	* 500	* 500	* 500
Costa Rica	...	...	* 1 000	* 1 000	717
Mexico	9 077	19 559	23 630	22 723	26 294
USA (f)	522 619	552 390	602 646	519 438	572 778
Argentina	10 802	16 319	17 069	15 905	13 850
Brazil	893	702	1 096	3 740	5 036
Colombia	357	350	550	* 600	* 600
Peru	3 160	3 483	2 410	17 239	* 20 000
Korea, Republic of	1 955	3 982	11 688	19 285	13 483
Australia	1 537	4 602	7 438	5 543	1 480
New Zealand	4 996	4 501	4 558	3 055	1 425
World total (d)	1 400 000	1 500 000	1 500 000	1 500 000	1 500 000

(a) Sales

(b) Including tripoli

(c) Shipments

(d) Excluding diatomite known to have been produced in Hungary, Norway, Romania and Japan

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

(f) Sold or used by producers

Exports of Diatomite

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	3 676	3 080	1 912	1 390	2 220
Belgium-Luxembourg	673	900	5 491	8 162	6 829
Denmark					
Diatomite	5 943	5 579	6 041	4 408	6 451
Moler	50 477	57 337	58 872	56 203	57 428
Moler bricks	40 676	36 457	42 783	25 849	24 937
France	17 016	16 297	19 428	18 186	17 577
Germany, Federal Republic of	5 354	5 098	5 157	4 883	4 805
Italy	1 759	1 396	1 273	1 441	1 174
Netherlands	144	231	191	222	207
Austria	152	455	313	729	681
Finland	36	115	34	10	34
Iceland	19 690	22 269	24 055	20 264	22 699
Norway	27	14	15	16	83
Portugal	86	77	64	21	1 018
Spain	1 702	1 357	1 766	1 239	2 919
Sweden	197	182	216	124	195
Yugoslavia	—	41	11	12	...
Algeria	3 431	6 247	5 380	4 146	...
Mexico	9 338	8 835	15 505	3 305	3 606
USA	134 174	161 695	169 739	133 211	135 360
Japan	1 414	1 294	981	908	1 151
Korea, Republic of	96	129	82	70	300

Imports of Diatomite

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	12 059	13 948	13 950	12 034	12 221
Moler (a)(f)	5 731	5 610	4 209	2 622	1 541
Activated diatomite	8 947	10 085	12 490	11 222	14 750
Siliceous Insulating Bricks (g)	16 001	23 952	15 666	8 393	7 058
Belgium-Luxembourg	5 883	6 599	8 402	7 403	6 341
Denmark	2 950	4 116	4 024	3 869	4 059
France	5 760	7 376	6 116	7 688	6 861
Germany, Federal Republic of	55 194	59 918	59 961	57 842	54 507
Italy	4 831	5 544	6 635	2 973	3 273
Netherlands	8 948	9 318	13 736	15 482	15 964
Austria	3 761	4 099	6 741	5 675	6 474
Finland	948	854	1 361	1 114	1 077
Iceland	1 497	0	0	0	1
Norway	1 197	1 259	1 422	1 292	1 480
Poland	2 298	2 961	4 880	3 276	...
Portugal	2 425	3 272	3 847	2 772	3 032
Spain	2 482	2 973	2 801	2 815	2 434
Sweden	6 014	4 743	4 808	4 147	4 063
Switzerland	2 432	2 853	3 230	3 231	4 539
Turkey	306	273	294	231	818
Yugoslavia	2 586	691	731	109	77
Angola	488	491	...	...	...
Cameroon	359	322	521	...	...
Ivory Coast	106	131	353	257	375
Morocco	321	360	352	197	426
South Africa	3 680	6 625	8 805	8 745	4 922
Togo	80	18	17 489	23 128	...
Tunisia	141	71	104	137	150
Zaire	...	...	...	899	669
Zambia	778	236	419	...	...
Canada	31 195	34 012	29 098	30 270	35 765
Costa Rica	386	327	433	300	440
El Salvador	552	446	316	1 295	2 335
Guatemala	304	372	746	490	519
Honduras	571	1 717	899	626	888
Mexico	2	22	4	3	7
Nicaragua	285	244	1 841	...	...
USA	57	149	3 348	3 477	4 676
Argentina	3 158	1 651	4 353	2 351	3 027
Brazil	938	1 347	1 577	1 094	816
Chile	330	516	108	...	...
Colombia	487	773	...	...	...
Uruguay	...	...	99	154	...
Venezuela	2 553	3 591	5 284	3 978	...
Cyprus	119	128	42	90	83
Hong Kong	227	114	267	142	199
India (d)	1 490	848	2 318	1 121	1 127
Indonesia	—	1 014	337	463	375
Iran (c)	755	913	889	978	1 481
Israel	518	570	400	...	...
Japan	3 249	4 422	4 582	4 105	2 656
Lebanon	647	149	...	...	...
Malaysia (b)	70	256	307	24	177

Imports of Diatomite

tonnes

Country	1972	1973	1974	1975	1976
Philippines	645	693	1 974	1 306	2 485
Singapore	364	422	490	604	232
Taiwan	297	656	646	1 022	1 372
Thailand	86	260	11	5	21
Australia	8 276	8 258	13 316	8 468	9 059
New Zealand (e)	659	867	737	1 210	558

(a) In bulk

(b) From 1975 includes Sabah and Sarawak

(c) Years ended 20 March following that stated

(d) Years ended 31 March following that stated

(e) Years ended 30 June of that stated

(f) Based on Danish exports

(g) Mainly moler bricks from Denmark

Production of Feldspar

Country	1972	1973	1974	1975	1976
United Kingdom (a)	53 151	48 815	...	...	...
France (c)	147 000	237 360	105 562	192 001	* 165 000
Germany, Federal Republic of (b)	349 446	355 791	374 844	395 883	419 976
Italy	190 366	191 441	241 577	185 209	182 605
Austria	3 076	2 050	—	—	3 800
Finland	59 858	58 318	63 557	68 577	68 213
Norway (d)	221 696	256 707	168 116	44 957	37 690
Poland	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Portugal	18 011	24 018	29 900	16 374	10 051
Romania	...	...	*58 200	* 58 000	* 58 000
Soviet Union	* 260 000	* 270 000	* 275 000	* 280 000	* 280 000
Spain (c)	62 987	58 575	72 296	86 275	90 964
Sweden (e)	34 091	27 955	31 964	44 742	44 746
Yugoslavia	35 000	48 000	50 000	52 000	* 54 000
Egypt	3 234	3 033	2 228	850	2 128
Kenya	1 962	1 461	2 842	1 616	1 115
Mozambique	295	830	840	* 850	* 850
Nigeria	4 318	* 5 000	* 5 000	* 5 000	* 5 000
South Africa	25 322	31 692	39 540	30 354	46 138
Zambia	...	12	1 256	851	1 027
Mexico	98 363	97 107	185 304	143 808	73 239
USA (e)	676 952	718 400	691 931	607 721	671 030
Argentina	62 187	30 420	56 953	63 845	68 224
Brazil	67 373	90 581	97 292	76 429	85 114
Chile	2 196	530	2 806	382	96
Colombia	28 619	30 000	28 700	* 30 000	* 30 000
Peru	1 931	2 485	4 088	3 905	* 4 000
Uruguay	971	205	1 757	1 759	1 145
Burma	914	311	(i) 660	(i) 864	(i) 1 709
Hong Kong	1 149	1 340	5 566	2 059	2 299
India	52 801	42 802	54 496	42 572	54 893
Japan (f)	62 335	48 728	62 340	44 992	37 971
Korea, Republic of	14 689	28 460	24 617	20 138	26 208
Pakistan	240	1 192	3 396	2 704	2 993
Philippines	46 061	24 998	10 245	3 907	15 240
Sri Lanka	579	625	779	1 270	3 199
Thailand	1 500	4 510	6 998	13 025	12 257
Australia (g)	3 133	2 804	4 145	3 054	4 519
World total (h)	2 630 000	2 770 000	2 840 000	2 610 000	2 650 000

(a) China stone

(b) Including feldspar sand and pegmatite

(c) Including pegmatite

(d) Underground

(e) Sold or used by producers

(f) Excluding aplite and saba

(g) Including China stone

(h) Excluding feldspar known to have been produced in Czechoslovakia, Namibia and China

(i) Years ended 31 March following that stated

Exports of Feldspar

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	4 641	5 877	4 380	2 759	2 516
Belgium-Luxembourg (a)	639	6 849	11 902	8 867	6 744
France (a)	37 597	43 104	43 153	38 362	37 528
Germany, Federal Republic of (a)	11 735	17 449	22 884	10 324	13 553
Italy	30 873	32 559	32 929	21 926	23 633
Netherlands (a)(b)	9	77	15	30	241
Austria (a)	1 120	31	80	100	1
Finland (a)	44 136	40 993	46 369	49 169	51 681
Norway					
Crude	22 164	27 490	33 992	35 336	32 040
Ground	58 736	67 102	80 017	69 946	53 967
Portugal (a)	6 718	9 140	7 800	3 000	1 946
Spain (a)	495	1 346	5 656	1 406	2 474
Sweden (a)	13 445	22 687	39 060	31 776	30 106
Yugoslavia	13 166	18 223	17 449	10 483	6 974
South Africa	13 407	8 003	3 558	1 878	3 247
Tunisia (c)	38 525	33 020	25 566	12 050	16 670
USA (a)	4 822	8 758	17 312	8 748	5 711
China	* 107 400	* 175 000	* 210 800	...	...
Hong Kong (d)	234	602	406	161	1 667
of which: Re-exports	10	348	276	72	384
India	11 304	8 662	9 600	6 509	11 983
Japan	3 191	5 438	7 409	4 495	9 512
Korea, Dem. P.R. of (d)	*10 200	* 7 300	* 6 400	...	...
Korea, Republic of	5 200	7 830	10 350	5 268	10 951
Singapore	60	46	90	196	691
Thailand	...	...	1 355	962	221

(a) May include some leucite and nepheline

(b) Excludes exports to Belgium-Luxembourg, if any

(c) Trade return does not distinguish between feldspar and fluorspar: since 1972 probably mainly fluorspar

(d) Including fluorspar

Imports of Feldspar

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	118 710	127 211	137 519	132 310	132 725
Belgium-Luxembourg (a)	52 499	72 562	78 559	61 531	66 232
Denmark (a)	9 527	8 229	10 145	9 537	10 426
France (a)	31 757	7 374	15 211	8 669	10 806
Germany, Federal Republic of (a)	92 026	52 010	59 120	49 279	41 250
Italy	14 790	11 719	13 542	6 678	7 745
Netherlands (a)(b)	34 479	10 437	7 852	4 703	20 910
Austria (a)	9 577	9 507	9 776	6 488	6 650
Finland (a)	11	15	38	46	27
Greece (a)	6 069	4 745	7 183	7 497	10 810
Poland	14 783	15 842	14 152	15 800	16 383
Spain (a)	9 433	14 390	16 448	16 633	13 452
Sweden (a)	5 353	5 941	4 947	4 488	11 803
Switzerland (a)	13 944	17 366	18 391	9 250	12 308
Turkey	68	21	96	85	105
Yugoslavia	51	20	81	1 070	629
Algeria (a)	96	44	1 344	952	...
Morocco (a)	25	179	119	27	25
South Africa (a)(c)	210	5 811	1 159	95	135
Tunisia (c)	504	1 206	1 458	800	750
Mexico	1 161	2 203	1 718	2 259	1 416
USA	1 027	332	83	263	84
Venezuela	680	76	400	147	...
Hong Kong (c)	2 469	1 355	1 127	1 910	2 312
Indonesia (a)	—	1 068	1 355	1 144	2 584
Iran (a)(c)(e)	...	2 806	641	1 972	2 224
Israel (a)(g)	4 300	1 600	2 700	459	610
Japan (a)	2 400	9 696	20 633	5 091	5 346
Malaysia (f)	3 536	5 913	6 763	2 497	6 333
Philippines (c)	2 509	2 564	4 456	2 649	3 695
Singapore	1 046	2 929	4 462	2 013	4 906
Taiwan (a)(c)	9 716	14 989	20 153	7 933	17 885
Thailand (a)	3 786	1 276	910	737	1 207
Australia (a)	8 329	11 017	12 913	10 591	4 577
New Zealand (a)(c)(d)	3 240	614	2 157	1 608	1 243

(a) May include some leucite and nepheline

(b) Excludes imports from Belgium-Luxembourg, if any

(c) Including fluorspar

(d) Years ended 30 June of that stated

(e) Years ended 20 March following that stated

(f) From 1975 includes Sabah and Sarawak

(g) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Fluorspar

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom (a)	222 000	227 000	227 000	235 000	217 000
France (b)	640 000	570 000	690 000	730 000	675 000
Germany, Federal Republic of	93 045	92 081	74 118	74 642	67 329
Italy	283 882	235 580	249 831	231 253	210 812
Czechoslovakia	* 90 000	* 90 000	* 90 000	* 90 000	* 90 000
German Democratic Republic	* 80 000	* 80 000	* 90 000	* 90 000	* 90 000
Romania	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Soviet Union	* 430 000	* 440 000	* 450 000	* 475 000	* 490 000
Spain	541 275	453 057	360 574	334 864	293 469
Sweden	—	4 636	4 074	3 405	3 324
Turkey	* 1 100	1 967	* 2 000	1 405	1 300
Egypt	898	1 509	1 121	2 365	...
Kenya	10 439	26 733	38 500	54 600	75 027
Morocco	...	...	19 050	47 421	51 450
Rhodesia	* 150	* 150	* 180	* 180	* 200
South Africa	210 806	210 324	207 933	202 583	290 718
Tunisia	40 547	43 304	28 318	33 917	34 500
Canada (d)	* 145 800	* 137 000	* 136 000	* 64 000	* 64 000
Mexico	1 042 392	1 085 894	1 112 247	1 088 816	896 535
USA (d)	227 111	225 527	182 449	126 927	170 796
Argentina	60 177	45 968	40 672	54 358	40 077
Brazil	97 679	110 157	105 873	109 176	49 396
China	* 254 000	* 250 000	* 300 000	* 350 000	* 350 000
India	43 386	38 095	14 458	14 345	17 632
Korea, Dem. P.R. of	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Korea, Republic of	28 975	29 877	32 981	28 296	20 270
Mongolia	* 100 000	* 240 000	* 250 000	* 302 000	* 302 000
Pakistan	2 383	1 595	68	11	10
Thailand	395 070	398 005	428 691	286 149	200 364
Australia	877	1 569	238	—	—
World total (c)	5 100 000	5 100 000	5 200 000	5 100 000	4 700 000

(a) Including fluorspar recovered from old lead and zinc mine dumps

(b) Washed or sorted

(c) Excludes fluorspar known to have been produced in Belgium and Bulgaria

(d) Ex-mine shipments

Exports of Fluorspar

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	* 66 200	* 82 800	84 996	48 443	34 531
France	75 163	122 828	146 743	109 339	92 135
Germany, Federal Republic of	9 991	17 391	15 907	20 925	14 478
Italy	67 063	91 053	75 512	84 416	104 609
Spain	176 797	239 705	249 461	224 302	226 175
Sweden	1 526	470	352	381	651
South Africa	121 764	114 536	123 588	126 554	215 915
Mexico	1 021 973	1 018 347	1 077 146	902 253	663 166
USA	2 507	6 335	10 712	8 215	4 601
Argentina	4 274	7 100	995	2 034	5 739
Brazil	26 835	24 935	31 360	11 075	202
China (c)	*159 700	* 227 900	* 295 500	* 194 000	* 220 000
Korea, Republic of	27 623	17 388	9 776	10 730	6 607
Singapore (a)(b)	2 708	5 001	4 276	1 333	4 414
Thailand	274 450	275 508	305 541	211 699	284 287

Note: Tunisia is also known to export fluorspar; but it is not specified separately from feldspar in trade returns

(a) May include some leucite and nepheline

(b) Including feldspar

(c) IGS estimate from various importing countries

Imports of Fluorspar

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	...	...	2 561	70	20
Belgium-Luxembourg	12 331	12 779	15 433	9 101	16 202
Denmark	2 792	2 070	2 368	2 885	3 969
France	3 776	6 071	4 343	16 089	2 152
Germany, Federal Republic of	158 453	207 613	285 472	261 093	244 644
Italy	71 671	37 458	64 361	36 066	50 062
Netherlands (b)	24 394	20 551	26 177	23 232	26 452
Austria	13 367	17 305	14 395	14 533	14 609
Finland	5 124	4 208	5 191	4 385	3 775
Norway	34 071	32 960	41 173	48 180	38 306
Poland	39 849	36 132	48 911	45 130	48 548
Romania	25 215	28 194	...	...	...
Soviet Union	234 900	391 000	487 361	493 890	500 000
Sweden	11 819	15 802	14 373	13 357	15 054
Turkey	2 347	1 176	654	160	110
Yugoslavia	4 641	4 449	5 708	6 638	5 618
Canada	65 236	153 816	142 246	157 222	137 310
USA	1 131 439	1 143 962	1 202 140	1 005 836	889 170
Chile	942	1 309	3 876	...	...
Venezuela	725	3 492	828	390	...
India	9 956	677	16 857	4 206	4 062
Japan	490 104	573 631	541 304	362 500	383 390
Malaysia (a)(c)(d)	4 611	5 004	7 458	1 308	2 533
Singapore (a)(c)	3 372	3 510	1 554	668	666
Australia	28 306	23 721	29 076	20 042	36 046

(a) May include some leucite and nepheline

(b) Excludes imports from Belgium-Luxembourg, if any

(c) Including feldspar

(d) From 1975 includes Sabah and Sarawak

Production of Gold

kilograms

Country	1972	1973	1974	1975	1976
France	1 808	2 694	1 521	1 556	1 898
Germany, Federal Republic of	84	65	41	66	* 70
Finland	548	615	645	690	820
Portugal	520	456	357	356	312
Romania	* 1 900	* 1 900	* 1 900	* 1 900	* 1 900
Soviet Union	* 378 900	* 398 200	* 420 700	* 407 900	* 443 600
Spain (e)	5 629	5 864	4 140	3 361	3 963
Sweden	1 790	2 517	2 126	1 965	1 934
Yugoslavia	3 920	4 619	4 041	3 856	3 963
Angola	* 1	* 62	* 62	* 31	* 31
Cameroon	3	2	2	3	3
Congo	65	39	19	16	8
Ethiopia	646	780	525	621	933
Gabon	355	349	327	130	96
Ghana	22 529	22 669	19 098	16 326	16 561
Guinea	* 120	* 120	* 120	...	...
Liberia (a)	(b) 41	—	* 93	* 140	* 140
Madagascar	6	2	2	5	2
Mauritania	...	* 1 740	* 1 620	* 1 305	* 690
Rhodesia	* 15 800	* 16 000	* 25 000	* 25 000	* 25 000
South Africa	909 631	855 179	758 559	713 447	713 390
Tanzania	7	2	2	2	0
Zaire	2 539	4 157	4 064	3 210	3 200
Zambia (c)	* 355	* 265	* 265	* 265	341
Canada	64 652	60 788	52 826	51 433	52 621
Costa Rica	311	482	560	* 560	* 300
El Salvador	89	163	190	271	95
Honduras	63	25	31	78	71
Mexico	4 543	4 123	4 182	4 501	5 064
Nicaragua	2 650	2 458	2 570	2 186	2 359
USA	45 099	36 571	35 051	32 729	32 598
Bolivia	674	1 152	1 309	1 649	896
Brazil	7 188	6 358	5 861	5 351	4 922
Chile	2 942	3 048	3 696	4 064	4 017
Colombia	5 811	6 726	8 244	9 624	9 274
Ecuador	393	324	241	254	361
French Guiana	31	42	35	76	87
Guyana	125	235	381	562	487
Peru	3 966	2 949	3 123	3 135	* 2 500
Surinam	17	2	10	5	1
Venezuela	633	592	515	570	451
China	* 1 500	* 1 500	* 1 500	* 1 500	* 1 500
India	3 290	3 278	3 145	2 825	3 132
Indonesia	339	352	265	329	355
Japan	7 559	5 838	4 346	4 464	4 282
Kampuchea, Democratic	* 124	* 124	* 124	* 15	* 30
Korea, Dem. P.R. of	* 5 000	* 5 000	* 5 000	* 5 000	* 5 000
Korea, Republic of	531	506	740	415	583
Malaysia	169	116	135	114	141
Philippines	18 872	17 802	16 682	15 632	15 589
Sarawak	51	29	31	37	30
Taiwan	556	702	710	688	838
Australia	23 361	17 174	15 944	16 386	15 637
Fiji	2 537	2 686	2 144	2 138	2 045
New Zealand	382	344	146	85	102
Papua New Guinea	11 939	20 545	20 506	18 163	20 233
Solomon Islands	20	30	27	25	24
World total (d)	1 600 000	1 500 000	1 400 000	1 400 000	1 400 000

(a) Years ended 31 August of that stated

(b) Purchased by the Bank of Monrovia

(c) Contained in blister copper, refinery muds and electrolytic copper

(d) Gold is also produced in Bulgaria, Czechoslovakia and in small quantities in Argentina, Burma, German Democratic Republic, Hungary, Kenya, Mali, Mozambique, Niger, Nigeria, Sudan and Thailand

(e) Gold content of bullion produced from 1975

Gold

Exports of Gold

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom					
Bullion – refined	457 396	527 219	678 324	510 206	563 674
Belgium-Luxembourg					
Bullion	11 265	11 929	17 670	14 362	4 485
France					
Bullion & alloys	128 941	120 204	134 056	107 211	85 207
Germany, Federal Republic of					
Bullion & alloys	7 873	8 530	8 951	15 219	18 140
Netherlands					
Bullion	3 040	2 880	7 138	10 474	6 895
Sweden					
Bullion	900	1 000	1 000	2 000	2 000
Switzerland					
Bullion	26 007	13 971	13 535	17 440	42 287
Ghana					
Bullion	22 913	22 472	21 650	15 962	...
Zaire					
Bullion	3 942	4 211	...	466	6 367
Canada					
Ores & concentrates (b)	...	...	5 847	6 544	5 724
Bullion – refined	118 685	50 793	39 441	49 488	57 655
Bullion – unrefined	5 015	5 673	...	...	...
Honduras					
Ore & base bullion	10	23	...	...	...
Mexico					
Bullion	35	...	...	180	—
Nicaragua					
Bullion	...	2 458	2 255	2 153	1 920
USA					
Ore & base bullion (a)	8 267	10 396	9 583	12 254	10 498
Bullion – refined	37 523	82 454	110 581	96 479	99 323
Bolivia					
Ore	5	1	2	...	...
Colombia					
Bullion	2 064	1 282	...	...	...
Ores	...	160 814	...	...	...
Guyana					
Unrefined	...	40	2 572	344	16
Peru					
Ores	1 431	1 304	1 142	1 006	...
Hong Kong					
Bullion (Re-exports)	18 025	13 933	56 073	14 903	12 081
Lebanon					
Crude	11 991	37 347	...	...	...
Philippines					
Bullion	5 589	5 657	5 191	4 833	4 358
Australia					
Ores, concentrates & unrefined	6 638	4 041	5 914	5 155	4 549
Bullion – refined	7 588	4 699	5 641	3 187	10 140
Fiji					
Bullion	2 528	2 476	2 143	...	...
Papua New Guinea					
Bullion	12 589	20 416	22 051	17 902	20 536

(a) Including scrap

(b) Gold content

Imports of Gold

Country	1972	1973	1974	1975	1976
United Kingdom					
Bullion – refined	593 246	667 975	554 558	479 216	602 607
Bullion – unrefined	12 235	11 544	5 996	7 706	5 455
Belgium-Luxembourg					
Bullion	10 447	22 956	105 122	74 550	33 490
France					
Bullion & alloys	104 263	128 098	146 730	108 991	86 574
Germany, Federal Republic of					
Bullion & alloys	85 527	82 532	97 130	66 163	90 885
Italy					
Bullion & alloys	389 446	79 253	49 067	85 272	161 284
Netherlands					
Bullion	9 094	14 845	19 268	27 758	32 446
Austria					
Bullion	27 961	8 516	58 457	7 982	29 143
Finland					
Bullion	1 039	705	409	262	423
Malta					
Bullion	474	170	880	551	527
Norway					
Bullion	946	438	324	135	320
Sweden					
Bullion	600	1 000	1 000	0	1 000
Switzerland					
Bullion	2 033	2 743	2 597	2 285	1 790
Ivory Coast					
Bullion	495	...	5	60	196
Kenya					
Bullion	223	...	163	115	...
Morocco					
Bullion	1 507	440	48	3 447	5 748
Tunisia					
Bullion	711	814	636	992	624
Canada					
Bullion	11 926	10 993	22 338	18 031	7 005
USA					
Ore & base bullion (a)	8 257	7 300	10 244	9 737	5 173
Bullion – refined	182 290	112 286	72 223	73 062	77 439
Brazil					
Bullion	3 766	2 091	1 039	4 689	2 618
Brunei					
Bullion	353	5	...	5	93
Cyprus					
Bullion (b)	711	515	120	343	533
Hong Kong					
Bullion	13 681	13 435	15 727	21 494	115 560
Iran (d)					
Bullion (a)	1 539	503	4 266	30 128	89 121
Lebanon					
Bullion (a)	39 523	21 864	...	...	...
Syria					
Bullion (a)(c)	...	74	41	200	6 600
Taiwan					
Bullion	328	10 354	3 267	3 211	95
Australia					
Bullion	3 254	3 051	2 524	2 842	3 015

(a) Including scrap

(b) Including partly worked

(c) Gross weight

(d) Years ended 20 March following that stated

Production of Graphite (Natural)

tonnes

Country	1972	1973	1974	1975	1976
Germany, Federal Republic of (d)	11 348	13 525	16 485	13 557	14 026
Italy	773	4 150	2 530	1 492	3 848
Austria (a)	18 772	17 211	29 550	30 586	33 057
Norway	8 538	6 891	9 698	8 925	9 071
Romania	* 6 000	* 6 000	* 6 000	* 6 000	* 6 000
Soviet Union	* 80 000	* 85 000	* 90 000	* 90 000	* 95 000
Madagascar (b)	18 320	13 963	17 280	13 313	16 216
South Africa	847	1 029	1 554	523	530
Mexico	55 110	65 392	62 551	60 814	60 337
Argentina	25	94	60	15	145
Brazil (a)	27 347	25 784	28 625	27 383	31 395
Burma	91	(f) 183	(f) 305	(f) 102	—
China	* 30 000	* 30 000	* 40 000	* 50 000	* 50 000
India	...	22 728	26 456	31 255	39 475
Korea, Dem. P.R. of	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Korea, Republic of	40 758	43 604	104 861	47 232	41 690
Sri Lanka	7 141	7 811	10 427	7 918	8 290
World total (e)	381 000	419 000	522 000	464 000	484 000

(a) Crude

(b) Flake and powder

(c) Flake

(d) Including production from imported crude graphite

(e) Excludes graphite known to have been produced in Czechoslovakia, India, Rhodesia, Namibia and USA

(f) Years ended 31 March following that stated

Exports of Graphite (Natural)

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	1 909	1 815	1 824	2 795	1 717
Belgium-Luxembourg	130	148	474	250	508
France	2 132	1 606	1 079	589	1 029
Germany, Federal Republic of	7 077	9 259	10 790	6 107	7 284
Italy	1 497	2 295	2 858	1 792	1 314
Netherlands	134	324	327	217	493
Austria	18 791	15 004	16 914	15 500	16 374
Norway	8 667	8 038	9 570	8 395	9 019
Soviet Union	(a) 2 605	(a) 2 388	...	...	...
Sweden	126	82	246	73	97
Madagascar	18 334	17 568	17 451	14 490	17 021
South Africa	360	901	954	434	—
Mexico	44 359	57 228	58 429	47 798	45 706
USA	6 744	7 287	11 058	9 603	11 100
China	* 7 100	* 9 000	* 11 900	* 12 000	* 12 200
Hong Kong (Re-exports)	870	1 669	2 031	2 559	1 886
India	199	150	176	50	14
Japan	420	440	418	860	1 704
Korea, Dem. P.R. of	* 9 400	* 17 500	* 20 400	...	...
Korea, Republic of	28 402	44 935	69 959	35 500	41 141
Sri Lanka	6 260	7 582	9 776	6 744	7 609

(a) Exports to German Democratic Republic

(b) Years ended 31 March following that stated

Imports of Graphite (Natural)

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	9 441	13 644	15 706	13 998	13 244
Belgium-Luxembourg	1 167	5 518	1 454	1 915	1 069
Denmark	174	221	363	459	493
France	4 456	8 316	8 859	6 564	5 890
Germany, Federal Republic of	22 075	22 199	26 787	26 043	29 665
Italy	6 943	4 797	5 554	3 287	4 782
Netherlands	453	402	437	388	479
Austria	890	274	286	796	269
Finland	271	389	824	516	188
German Democratic Republic	6 569	5 376	5 173	5 216	5 553
Greece	292	321	331	205	246
Norway	328	181	493	892	981
Poland	13 030	9 224	11 014	11 583	12 207
Portugal	436	332	286	217	284
Spain	1 114	1 429	1 649	1 545	1 501
Sweden	1 035	1 284	1 271	861	1 501
Switzerland	255	237	272	179	219
Turkey	355	521	517	573	586
Yugoslavia	2 045	1 934	1 867	1 569	1 853
Algeria	...	3	57	98	...
Ethiopia	2	71	...	73	...
Morocco	22	12	9	11	11
Mozambique	14	4	7	12	2
South Africa	333	234	557	894	480
Sudan	8	3	58	—	—
Mexico	709	294	337	154	176
USA	57 845	69 848	73 545	58 322	70 486
Argentina	328	345	705	488	425
Brazil	131	103	182	142	108
Chile	92	176	249	...	...
Colombia	14	40	...	...	...
Uruguay	10	11	29	12	...
Venezuela	251	225	356	279	...
Burma	6	9	—	...	...
Hong Kong	1 046	1 650	2 359	2 891	2 171
India	1 703	1 074	780	404	647
Indonesia	...	158	142	165	93
Iran (a)	962	1 901	1 847	2 522	756
Israel (d)	86	13	38	4	8
Japan	40 242	65 721	86 015	57 638	33 539
Lebanon	78	20	...	...	...
Malaysia (c)	199	297	365	357	427
Philippines	209	146	160	168	113
Singapore	232	272	199	198	215
Taiwan	4 247	4 197	7 471	5 825	5 451
Thailand	746	1 312	1 234	1 217	1 457
Australia	1 112	1 821	1 938	983	1 367
New Zealand (b)	88	74	264	141	55

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

(c) From 1975 includes Sabah and Sarawak

(d) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Gypsum

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Gypsum	3 468 000	3 849 000	3 506 000	3 258 000	3 324 000
Anhydrite	696 000	359 000	296 000	221 000	26 000
Belgium (a)	106 000	114 000	102 000	221 000	220 000
France (a)	6 192 000	6 159 400	6 265 200	5 814 000	5 850 000
Germany, Federal Republic of					
Gypsum	2 512 595	2 653 378	1 967 314	1 726 835	) * 2 300 000
Anhydrite	170 397	294 535	334 905	357 158	
Irish Republic	419 000	436 000	384 000	331 000	355 000
Italy	3 551 095	3 886 373	4 226 993	* 3 856 000	* 3 500 000
Luxembourg	8 252	5 938	5 613	5 266	5 037
Austria					
Gypsum	633 213	716 941	678 931	619 713	661 849
Anhydrite	126 794	154 060	124 811	95 230	108 370
Bulgaria	199 000	165 000	* 288 000	* 288 000	* 288 000
Czechoslovakia (a)	501 000	578 000	629 000	637 000	660 000
German Democratic Republic (c)	* 340 000	* 340 000	* 651 000	* 646 000	* 650 000
Greece	399 751	420 360	441 759	416 357	444 686
Poland (g)	314 000	297 000	322 000	326 000	326 000
Portugal	135 496	99 839	143 039	149 873	101 699
Soviet Union	*4 700 000	* 4 700 000	* 6 000 000	* 6 300 000	* 6 400 000
Spain	4 300 000	4 471 000	4 173 000	4 220 024	4 908 673
Turkey	* 330 000	* 358 000	* 38 000	* 38 000	* 32 000
Yugoslavia	284 000	355 000	403 000	454 000	548 000
Algeria	...	* 175 000	* 48 000	* 50 000	* 50 000
Angola	34 787	46 655	39 916	* 40 000	* 40 000
Egypt	427 470	523 717	561 515	600 426	* 500 000
Kenya	73 000	* 100 000	* 100 000	* 100 000	78 020
Libya	* 4 000	* 4 000	3 483	* 4 000	* 4 000
Mauritania	...	1 955	8 312	12 669	10 000
Niger	1 600	1 700	2 200	1 017	3 000
South Africa	419 392	483 239	563 448	538 622	482 375
Sudan	...	1 778	838	16 257	7 523
Tanzania	14 121	12 872	21 124	12 839	* 14 000
Zambia	...	480	1 669	6 610	4 650
Canada (a)(d)	7 347 726	7 610 530	7 225 203	5 719 451	6 002 154
Dominican Republic	* 300 000	229 260	* 135 000	147 000	121 000
Guatemala	* 8 000	* 8 000	* 13 000	12 000	14 000
Jamaica	379 366	370 669	233 517	239 579	248 963
Mexico	1 497 715	1 514 431	1 386 813	1 255 903	1 414 237
Nicaragua	11 585	13 341	13 714	* 13 000	* 13 000
USA	11 184 000	12 300 000	10 885 000	8 846 000	10 868 000
Argentina	513 124	454 382	510 872	612 733	507 125
Brazil	237 964	352 055	395 753	403 847	545 463
Chile	127 667	155 650	135 000	181 000	122 000
Colombia	201 292	225 000	198 000	200 000	* 200 000
Paraguay	* 11 000	* 10 500	14 600	15 000	16 000
Peru	64 753	25 850	348 548	210 543	* 200 000
Venezuela	* 100 000	170 000	164 564	212 000	172 000

Gypsum

Production of Gypsum

tonnes

Country	1972	1973	1974	1975	1976
Burma	14 895	15 647	(b) * 27 000	(b) 23 369	(b) 36 577
China	* 600 000	* 650 000	* 800 000	* 900 000	* 1 000 000
Cyprus	772	27 082	22 353	30 481	66 043
India	1 104 710	886 204	1 073 441	816 000	727 000
Iran (e)	* 2 400 000	* 2 400 000	* 4 000 000	* 5 400 000	* 6 500 000
Israel	80 000	* 150 000	* 200 000	* 200 000	* 200 000
Japan	459 229	368 441	333 939	187 105	64 831
Pakistan (a)	70 043	308 463	262 608	280 000	443 000
Philippines	86 226	101 782	126 126	117 983	62 000
Saudi Arabia	* 40 000	* 45 000	* 45 000	30 482	* 30 000
Syria	* 15 000	* 15 000	* 15 000	* 15 000	* 27 000
Taiwan	5 889	5 964	3 975	3 687	2 303
Thailand	89 805	236 265	311 795	255 242	267 822
Australia	959 095	1 165 187	1 068 852	932 638	941 944
World total (f)	58 800 000	61 500 000	62 300 000	58 700 000	63 300 000

(a) Including anhydrite

(b) Years ended 31 March following that stated

(c) Crude estimated from production of calcined gypsum

(d) Producer's shipments

(e) Years ended 20 March following that stated

(f) Excluding gypsum produced in Cuba, Ethiopia, Honduras, Jordan, Lebanon, Mongolia, Romania, Switzerland and Zambia

(g) Calcined

Exports of Gypsum

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Crude (a)	3 842	6 754	4 863	4 708	3 600
Calcined	7 325	7 958	9 696	10 013	11 594
Belgium-Luxemboug					
Crude	2 949	24 840	24 163	12 542	13 854
Calcined	8 534	4 918	9 841	34 465	53 640
Denmark					
Crude & calcined	38	1 232	1 527	56	67
France					
Crude	1 031 170	1 032 228	1 030 698	842 878	723 997
Calcined	160 785	201 218	222 961	225 225	208 380
Germany, Federal Republic of					
Crude & calcined	313 452	304 604	333 012	286 121	272 026
Irish Republic					
Crude	103 106	143 352	85 296	67 594	66 504
Italy					
Crude (a)	2 091	1 796	5 297	151	712
Calcined	16 345	18 994	21 275	10 408	9 311
Netherlands					
Crude & calcined	3 691	1 089	3 479	11 081	13 538
Austria					
Crude	163 177	149 345	106 400	91 062	96 626
Calcined	8 945	17 390	28 851	36 496	56 842
German Democratic Republic					
Calcined	92 963	84 686	89 701	64 471	76 730
Norway					
Crude (a)	8 411	14 026	13 362	20 297	17 014
Poland	531 560	564 097	523 133	342 142	261 541
Romania	117 800	183 500	...	...	...
Spain					
Crude & calcined	137 919	146 044	211 540	133 096	363 196
Switzerland					
Ground & calcined	5 593	6 506	5 673	3 190	2 447
Angola					
Crude	13 713	21 495	...	...	...
Mauritania	—	1 995	8 312	...	...
Morocco					
Crude (a)	130 587	205 020	179 082	195 496	146 172
Calcined	1 517	1 535	2 158	2 460	3 140
South Africa	43 710	22 039	10 165	14 069	11 400
Tanzania	3 165	4 218	3 474	—	—
Canada					
Crude	5 409 520	5 754 099	5 212 454	3 691 676	3 798 243
Dominican Republic	117 186	240 867	269 881	...	...
Jamaica	(c) 398 000	327 338	219 439	248 355	...
Mexico					
Crude	1 464 334	1 187 140	1 227 280	959 214	1 086 799
Calcined	17	52 645	10 528	16	33
Nicaragua	11 585	13 352	13 814	...	...
USA					
Crude	8 135	7 834	12 919	8 661	19 314
Calcined	37 941	49 352	107 277	59 824	239 006
Argentina	12 517	11 217	16 809	23 373	16 727
Bolivia	2 308	1 400	3 251	570	...
Venezuela	14 830	18 600	15 500	16 960	...
Cyprus					
Crude	96	23 171	10 713	20	10 324
Calcined	20	71	20	—	884
Iran (b)					
Crude	90	393	864	1 942	) 176
Calcined	1 914	(a) 3 804	(a) 613	(a) 1 636)
Iraq					
Crude & calcined	1 075	5 000	3 000	7 243	...
Japan					
Crude	60	40	35	52	342
Calcined	2 477	2 506	2 808	2 532	15 370

Gypsum

Exports of Gypsum

tonnes

Country	1972	1973	1974	1975	1976
Korea, Republic of					
Crude	20 777	218 901	144 290	680	15
Calcined	5 351	144 850	109 280	65 790	89 745
Saudi Arabia					
Crude & calcined	5 752	5 417	...	19 411	...
Singapore					
Crude & calcined	1 726	533	815	357	610
Syria	67 047	37 334	40 714	46 504	3 689
Thailand					
Crude	7 593	41 724	117 387	92 030	65 850
Calcined	...	2	85	507	439
Australia					
Crude & calcined	282 268	437 283	303 166	215 776	189 975

(a) Including anhydrite

(b) Years ended 20 March following that stated

(c) Imports into USA

Imports of Gypsum

Country	1972	1973	1974	1975	1976
United Kingdom					
Crude	118 624	160 673	60 922	13 201	44 490
Calcined	25 456	50 398	61 472	75 021	41 438
Belgium-Luxembourg					
Crude	410 252	377 932	420 162	345 896	353 155
Calcined	72 087	85 322	106 700	96 217	63 679
Denmark					
Crude (e)	222 665	299 696	405 294	272 875	287 910
Calcined	4 488	4 304	4 081	3 666	4 011
France					
Crude	1 282	5 821	5 007	9 639	13 529
Calcined	40 845	1 328	3 282	4 442	5 225
Germany, Federal Republic of					
Crude & calcined	242 262	274 820	285 100	303 320	327 705
Italy					
Crude (e)	843	758	165	211	192
Calcined	1 802	2 010	3 520	8 786	14 353
Netherlands					
Crude (a)	168 302	182 205	222 981	265 211	239 750
Calcined (a)	117 299	111 726	116 256	101 048	82 356
Austria					
Crude	1 570	1 500	635	1 371	1 990
Calcined	37 015	29 940	24 302	6 774	9 413
Finland					
Crude (e)	98 294	124 838	180 755	148 557	120 610
Calcined	37 550	10 507	3 853	3 115	3 063
Greece					
Crude	104	128	213	24	48
Calcined	1 366	1 511	1 239	853	885
Hungary					
Calcined	46 799	47 251	52 741	60 418	66 359
Iceland					
Crude	5 820	7 719	8 691	10 986	6 873
Norway					
Crude (e)	232 740	241 774	237 187	210 857	185 867
Calcined	4 416	6 361	4 542	4 084	3 337
Portugal					
Crude (e)	30 570	31 877	23 299	19 932	24 569
Calcined	59	165	976	1 204	535
Sweden					
Crude (e)	480 845	451 271	410 760	285 675	213 357
Calcined	20 939	19 683	17 174	9 721	6 522
Switzerland					
Crude	87 235	93 834	73 797	54 640	40 973
Ground & calcined	48 207	64 832	46 073	25 312	21 482
Algeria					
Crude & calcined	—	241	9 235	5 881	...
Cameroon					
Crude & calcined	5 165	21 839	8 799	...	34 619
Ghana					
Crude & calcined	6 195	10 108	17 502	16 590	...
Ivory Coast					
Crude	21 440	34 733	32 610	35 699	41 367
Calcined	3 918	—	2 974	3 426	3 456
Liberia					
Crude & calcined	1 006	5 559	10	1 008	...
Libya					
Crude & calcined	1 048	3 877	4 612	4 593	2 870
Madagascar					
Crude & calcined	4 174	3 069	3 225	5 298	2 064
Mozambique					
Crude	15 086	22 715	15 391	8 939	6 952
Calcined	99	163	8	19	14
Senegal					
Crude	10 833	8 528	1 438	—	...
Calcined	497	529	473	608	...
South Africa					
Crude & calcined	5 949	7 184	6 179	5 616	5 826

Imports of Gypsum

tonnes

Country	1972	1973	1974	1975	1976
Togo					
Crude & calcined (e)	400	10 900	3 198	8 709	...
Tunisia					
Calcined	...	21	40	151	172
Zaire					
Crude & calcined	...	...	7 086	6 362	17 683
Zambia	33 211	926	208	...	...
Canada					
Crude	56 599	83 725	56 251	55 338	54 769
Calcined	14 734	19 258	15 301	19 705	25 613
Costa Rica					
Crude	11 514	13 865	13 628	16 400	14 330
Calcined	247	584	577	508	601
El Salvador					
Crude	3 086	3 082	7 500	8 293	8 201
Calcined	163	141	93	132	184
Mexico (b)					
Crude & calcined	779	521	477	705	600
Panama	16 978	14 900	25 050	9 850	20 708
USA					
Crude	7 002 000	6 950 000	6 735 000	4 942 000	5 653 000
Ground & calcined	2 000	2 000	2 000	2 000	2 000
Brazil					
Crude	2 076	1 873	3 484	410	9
Colombia					
Crude	2 652	9 130	...	...	...
Calcined	105	128	...	...	...
Uruguay					
Crude & ground	20 512	39 526	15 387	21 616	...
Venezuela	429	418	570	589	...
Hong Kong	15 412	14 857	31 571	27 542	25 657
Iran (c)(e)	943	1 026	983	1 546	1 275
Israel (g)	106	160	150	29	23
Japan					
Crude	138 180	206 306	110 657	14 507	35 029
Calcined	226	525	253	127	365
Korea, Republic of	512	577	1 737	865	3 416
Kuwait					
Crude & calcined	460	15 167	16 304	15 789	...
Lebanon	67 497	56 866	...	...	...
Malaysia (f)					
Crude & calcined	13 095	32 257	54 940	51 049	58 645
Philippines					
Crude & calcined	20 239	44 260	10 631	28 242	69 777
Singapore					
Crude & calcined	38 482	40 773	25 226	46 120	69 988
Sri Lanka	...	10 781	16 257	...	...
Taiwan					
Crude	141 311	111 873	79 567	15 333	55 774
Calcined	905	1 020	14 316	6 718	1 713
Thailand					
Crude & calcined	696	185	336	217	316
Australia	696	825	959	1 001	1 183
New Zealand (d)					
Crude	104 375	127 503	199 219	168 574	129 579
Calcined	1 190	2 539	1 201	1 096	638

(a) Excludes imports to Belgium-Luxembourg, if any

(b) Excludes imports through Perimetros Libres

(c) Years ended 20 March following that stated

(d) Years ended 30 June of that stated

(e) Including anhydrite

(f) From 1975 includes Sabah and Sarawak

(g) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Iron Ore

Country	1972	1973	1974	1975	1976
United Kingdom	9 048	7 105	3 602	4 490	4 582
Belgium	113	116	123	93	63
France	54 246	54 232	54 260	49 647	45 181
Germany, Federal Republic of (a)	4 825	5 069	4 439	3 288	2 256
Italy	616	525	598	632	514
Luxembourg	4 116	3 782	2 686	2 315	2 079
Albania (h)	594	384	* 400	* 420	* 425
Austria	4 132	4 211	4 245	3 833	3 784
Bulgaria	3 207	2 773	2 684	2 337	2 316
Czechoslovakia	1 581	1 672	1 688	1 773	1 904
Finland	573	589	569	348	602
German Democratic Republic	268	52	53	59	60
Hungary	695	681	545	642	602
Norway	3 881	3 970	3 904	4 109	3 972
Poland	1 654	1 440	1 296	1 192	674
Portugal (f)	43	57	53	56	49
Romania	3 361	3 234	3 265	3 065	2 835
Soviet Union	208 000	216 000	225 000	232 800	239 100
Spain	6 685	6 621	8 237	7 641	7 050
Sweden	33 979	34 727	36 153	30 867	29 861
Turkey	1 992	2 537	2 285	2 238	3 448
Yugoslavia	3 960	4 666	5 034	5 285	4 260
Algeria	3 669	3 135	3 820	3 189	2 800
Angola	4 831	6 052	5 606	5 604	5 500
Egypt	427	656	1 032	1 086	1 243
Liberia	22 978	23 541	25 706	18 400	20 783
Mauritania	9 298	10 445	11 666	8 686	9 664
Morocco	234	375	534	554	343
Rhodesia	* 550	* 550	* 600	* 600	* 600
Sierra Leone (b)	2 321	2 205	2 014	1 339	—
South Africa (c)	11 223	10 955	11 553	12 298	15 663
Swaziland	2 566	2 145	2 077	2 240	1 936
Tunisia	890	809	795	616	512
Canada (g)	38 735	47 498	46 785	44 893	55 416
Mexico	5 089	5 189	5 564	5 615	6 073
USA	76 644	89 076	85 709	80 132	80 536
Argentina	259	237	415	286	506
Brazil	39 324	50 506	73 955	89 000	92 611
Chile	8 640	9 401	10 271	11 050	10 389
Colombia	416	439	444	537	* 550
Peru	9 414	8 964	9 525	7 753	4 776
Venezuela	17 327	22 155	25 983	24 772	* 18 200
China	* 60 000	* 56 000	* 60 000	* 65 000	* 65 000
Hong Kong	162	151	160	167	37
India	35 476	35 562	35 485	41 794	43 443
Indonesia	...	281	365	353	292
Iran	2	850	1 000	1 022	1 100
Japan (d)	1 347	1 007	778	726	758
Korea, Dem. P.R. of	* 8 700	* 8 900	* 9 400	* 9 400	* 9 500
Korea, Republic of	492	595	625	644	755
Malaysia	521	517	481	348	308
Philippines	2 205	2 255	1 608	1 352	571
Thailand	28	36	36	32	25
Australia	64 401	84 828	96 950	97 651	93 255
New Zealand	1 380	2 182	2 353	2 297	2 473
World total (e)	778 000	841 000	893 000	897 000	901 000

(a) Marketable production

(b) Exports

(c) Including by-product magnetite

(d) Including iron sand

(e) Iron ore also produced in other countries including Cuba, Lebanon and Socialist Rep. of Vietnam

(f) Including manganiferous iron ore

(g) Mine shipments including shipments of by-product iron ore

(h) Nickeliferous iron ore

Exports of Iron Ore

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	81	103	374	249	383
Belgium-Luxembourg					
Iron ore	2 983	76 729	69 154	70 731	26 710
Burnt pyrites	158 460	169 113	173 713	156 033	178 193
Denmark					
Bog ore (a)	8 403	6 154	6 033	12 656	8 442
Burnt pyrites	95 527	70 729	22 996	—	—
France					
Iron ore	19 071 770	19 454 040	19 833 116	15 990 720	15 849 360
Burnt pyrites	120 293	109 357	29 329	12 664	4 509
Germany, Federal Republic of					
Iron ore	4 803	6 130	5 086	4 551	3 836
Burnt pyrites	46 817	192 019	195 784	139 198	106 754
Irish Republic					
Burnt pyrites	13 963	38 426	29 019	27 645	27 776
Italy					
Iron ore	141	82	17 908	12 055	2
Burnt pyrites	254 333	166 115	243 860	223 723	142 878
Netherlands					
Iron ore (b)	90 093	497 104	196 292	95 949	34 613
Austria	640	950	1 243	1 131	1 710
Finland					
Iron ore	8 273	—	22	862	2 811
Greece					
Burnt pyrites	50 422	36 330	21 200	19 804	18 575
Norway					
Iron ore	2 918 603	3 162 589	2 657 165	3 267 338	2 729 241
Burnt pyrites	164 658	174 524	152 508	113 194	137 842
Portugal					
Burnt pyrites	3	4	42 997	37 681	106 254
Soviet Union					
Iron ore	40 800 000	41 400 000	43 267 000	43 626 000	43 126 000
Spain					
Iron ore	1 895 742	1 660 647	2 917 660	1 959 610	2 187 541
Burnt pyrites	838 380	481 046	476 308	530 825	627 882
Sweden					
Iron ore	27 610 000	32 917 000	33 105 000	20 332 000	22 030 000
Burnt pyrites	457 000	379 000	418 000	430 000	388 000
Switzerland (b)	8 318	3 737	33	40	39
Turkey	...	5 370	...	—	—
Yugoslavia					
Iron ore	—	150	141	30 000	...
Burnt pyrites	1 783	1 846	909	5 998	25 423
Algeria					
Iron ore	2 300 493	1 255 168	2 912 514	1 386 003	...
Burnt pyrites	—	...	74 109	236 012	42 870
Angola	5 046 862	6 329 602	5 271 400	* 2 500 000	...
Liberia	22 978 366	25 573 573	25 591 746	18 400 778	20 533 153
Mauritania	8 617 901	10 480 000	11 667 891	8 877 054	...
Morocco					
Iron ore (b)	308 210	490 085	540 497	293 665	338 483
Sierra Leone	2 320 601	2 404 977	2 064 428	1 453 557	...
South Africa (f)	2 669 484	3 418 736	2 892 529	* 2 743 000	* 3 535 000
Swaziland	2 303 979	1 993 485	2 481 248	1 964 472	1 744 464
Tunisia	664 100	423 830	526 354	295 612	112 632
Canada	29 274 629	37 667 605	37 447 874	36 060 194	44 684 874
Mexico	24	...	4	2 674	...
USA (b)	2 128 910	2 790 058	2 360 517	2 578 374	2 960 061
Bolivia (c)	1 021	10 364	7 587	19 740	...
Brazil	30 512 459	44 962 858	59 439 451	72 521 995	67 137 606
Chile	5 454 091	8 121 716	9 390 299	9 401 000	...
Peru (c)	5 459 347	5 484 171	6 332 631	3 556 336	...
Venezuela	16 509 000	21 659 000	26 277 000	19 405 000	15 672 000

Exports of Iron Ore

tonnes

Country	1972	1973	1974	1975	1976
Hong Kong	172 687	158 813	179 107	164 562	55 547
India	21 864 000	21 285 000	21 900 000	22 796 000	23 403 000
Korea, Dem. P.R. of	* 527 100	* 423 300	* 304 500	...	...
Korea, Republic of	474 639	260 930	75 994	61 639	4 076
Malaysia (d)	370 948	223 801	176 366	94 008	8 936
Philippines					
Iron ore	2 276 730	1 965 608	1 121 117	1 305 085	835 806
Burnt pyrites	29 450	42 610	5 000	16 751	34 090
Singapore	13 761	10 630	...	...	18
Australia					
Iron ore	54 078 000	74 181 000	83 654 000	80 363 000	80 999 000
New Zealand (e)	700 431	1 580 515	2 102 400	2 389 716	2 236 308

(a) Used for purposes other than iron-making

(b) Including burnt pyrites

(c) Fe content of concentrates

(d) From 1975 includes Sabah and Sarawak

(e) Years ended 30 June of that stated

(f) From 1975, IGS estimates, based on known imports into certain countries

Imports of Iron Ore

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Iron ore	17 360 604	22 868 240	19 951 686	15 770 712	18 578 558
Burnt pyrites	360 844	237 258	289 959	304 499	225 460
Belgium-Luxembourg					
Iron ore	28 078 151	32 416 545	33 429 641	25 520 025	26 978 608
Burnt pyrites	134 614	568 413	496 740	213 634	233 447
Denmark (a)	15 589	37 294	29 350	31 126	40 735
France					
Iron ore	11 558 605	11 529 581	15 821 542	13 169 862	13 888 931
Burnt pyrites	89 112	114 006	131 826	107 092	80 312
Germany, Federal Republic of					
Iron ore	40 669 611	50 324 885	57 719 818	44 321 709	46 775 277
Burnt pyrites	1 194 513	751 729	791 555	842 622	905 680
Irish Republic	750	...	...	101	1
Italy (a)	13 307 866	14 194 166	18 094 880	15 649 542	17 304 469
Netherlands	5 666 276	6 973 366	7 061 432	7 372 230	6 532 791
Austria					
Iron ore	1 504 204	1 969 938	2 799 808	2 577 732	2 876 479
Burnt pyrites	176 192	141 411	211 160	181 487	119 143
Czechoslovakia	13 152 000	13 211 000	13 985 000	14 802 000	15 400 000
Finland	770 630	947 840	1 133 316	1 206 359	972 529
German Democratic Republic (b)	1 601 400	1 774 500	1 802 400	2 118 400	2 053 300
Greece	426 770	854 093	1 025 382	786 017	370 313
Hungary	3 526 000	3 712 000	4 105 000	4 261 000	4 234 000
Norway	13 435	43 802	35 821	37 766	163 512
Poland	12 548 000	13 668 000	15 609 000	15 423 000	15 829 000
Portugal	366 000	489 000	387 361	386 028	534 395
Romania	7 614 800	9 501 000	10 001 800	10 878 700	11 740 000
Spain (a)	4 146 712	5 115 752	5 280 498	6 205 514	6 149 472
Sweden					
Iron ore	—	—	82 000	319 000	189 000
Burnt pyrites	1 000	—	—	1 000	—
Switzerland (a)	28 729	28 466	39 489	44 640	31 835
Turkey	245 210	301 027	310 217	233 922	413 000
Yugoslavia	282 709	389 870	430 529	597 924	481 892
Kenya	10	...	2	—	10 500
Libya	8 990	1 205	6 305	30	9 000
Nigeria	3 935	3 920	...	16	1 944
South Africa	—	1	10 978	8 244	2
Tanzania	874	1 158	1 601	1 500	1 050
Canada	1 752 510	2 689 389	2 333 194	4 844 417	3 020 131
Mexico	109 667	74 671	37 203	34 144	159
USA					
Iron ore (a)	36 334 469	44 026 597	48 799 831	47 492 262	45 101 857
Argentina	1 029 173	1 235 293	1 003 483	1 520 153	1 744 805
India	218	275	322	—	181
Japan					
Iron ore	111 501 442	134 723 787	141 950 764	131 748 610	133 727 497
Burnt pyrites	18 120	...	68	4 173	8 924
Korea, Republic of	20 200	467 568	1 394 791	1 493 705	1 187 669
Singapore	2 952	50 522	10 134	23 712	77
Taiwan					
Iron ore	81 615	132 029	143 862	143 342	151 143
Burnt pyrites	...	330	5 000	17 590	29 479
Australia	16 284	14 682	28 140	16 759	50 716

(a) Including burnt pyrites

(b) Fe content of concentrates

Production of Pig-Iron and Blast-Furnace Ferro-Alloys

thousand tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	15 316	16 839	13 902	12 131	13 835
Belgium	11 900	12 655	13 020	9 072	9 864
France (a)	19 001	20 306	22 518	17 921	19 023
Germany, Federal Republic of	32 003	36 828	40 221	30 068	31 849
Italy	9 446	10 097	11 761	11 411	11 696
Luxembourg	4 670	5 089	5 468	3 889	3 756
Netherlands	4 289	4 707	4 804	3 970	4 265
Austria (a)	2 846	3 006	3 443	3 056	3 273
Bulgaria (a)	1 518	1 566	1 483	1 509	1 558
Czechoslovakia	8 361	8 534	8 905	9 281	9 475
Finland	1 184	1 412	1 381	1 368	1 329
German Democratic Republic	2 151	2 202	2 280	2 456	2 528
Hungary	2 064	2 120	2 290	2 219	2 221
Norway (a)	658	698	648	638	656
Poland	7 815	8 137	8 213	8 206	8 320
Portugal	364	387	281	327	344
Romania	4 890	5 713	6 081	6 602	7 415
Soviet Union	92 327	95 933	99 868	102 968	105 384
Spain	5 927	6 269	6 900	6 842	6 626
Sweden	2 355	2 569	2 979	3 300	2 989
Switzerland	28	27	35	35	23
Turkey	1 249	1 044	1 317	1 337	1 214
Yugoslavia (a)	1 820	1 955	2 207	2 000	1 918
Egypt (a)	* 300	400	275	420	569
Rhodesia	* 290	* 290	* 300	* 310	* 310
South Africa	4 896	4 886	5 256	5 177	5 797
Canada (a)	8 495	9 535	9 452	9 150	9 801
Mexico (a)	2 672	2 775	3 208	2 962	3 528
USA (a)	80 627	91 913	86 615	72 322	78 787
Argentina (a)	833	803	1 047	1 045	1 367
Brazil (a)	5 300	5 479	5 816	7 053	8 170
Chile (a)	487	458	516	416	403
Colombia (a)	288	271	269	293	286
Peru (a)	163	253	303	302	223
Venezuela (a)	536	546	545	535	427
China	* 30 000	* 33 000	* 30 000	* 32 000	* 30 000
India (a)	7 207	7 369	7 342	8 433	9 751
Japan (a)	74 055	90 007	90 437	86 876	86 576
Korea, Dem. P.R. of	* 2 600	* 2 700	* 3 000	* 2 900	* 3 000
Korea, Republic of (a)	18	455	987	1 186	1 937
Taiwan (a)	81	150	111	67	105
Thailand (a)	12	14	17	13	12
Australia (a)	6 491	7 658	7 250	7 475	7 417
World total	457 000	507 000	513 000	480 000	498 000

(a) Pig-iron only

Production of Steel Ingots and Castings

thousand tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	25 293	26 594	22 323	20 098	22 274
Belgium	14 537	15 528	16 232	11 592	12 144
Denmark	505	453	535	559	722
France	24 054	25 264	27 023	21 530	23 221
Germany, Federal Republic of	43 705	49 521	53 232	40 415	42 415
Irish Republic	77	116	112	82	80
Italy	19 815	20 995	23 803	21 836	23 447
Luxembourg	5 457	5 924	6 448	4 624	4 566
Netherlands	5 585	5 624	5 840	4 823	5 189
Austria	4 070	4 238	4 698	4 068	4 477
Bulgaria	2 121	2 246	2 188	2 265	2 460
Czechoslovakia	12 727	13 158	13 640	14 323	14 693
Finland	1 456	1 615	1 656	1 618	1 644
German Democratic Republic	5 670	5 892	6 165	6 472	6 732
Greece	671	671	612	1 100	* 800
Hungary	3 325	3 377	3 157	3 730	3 712
Norway	916	951	956	907	898
Poland	13 746	14 057	14 566	15 004	15 639
Portugal	425	460	386	417	464
Romania	7 401	8 161	8 848	9 549	10 733
Soviet Union	125 589	131 459	136 206	141 325	144 805
Spain	9 530	10 484	11 473	11 137	11 086
Sweden	5 249	5 651	5 972	5 614	5 178
Switzerland	543	585	593	420	524
Turkey	1 448	1 169	1 464	1 464	1 405
Yugoslavia	2 588	2 676	2 837	2 916	2 750
Egypt	3 554	4 036	7 750	...	...
Rhodesia (a)	* 200	* 300	* 270	* 300	* 300
South Africa (a)	5 340	5 631	5 834	6 580	6 926
Canada	11 860	13 386	13 623	13 025	13 136
Mexico	4 413	4 760	5 138	5 272	5 298
USA (c)	120 874	136 803	132 195	105 816	116 120
Argentina	1 869	1 870	2 036	2 070	2 431
Brazil (a)	6 518	7 150	7 507	8 308	9 169
Chile (a)	581	508	596	457	456
Colombia	275	263	244	266	252
Peru	181	356	450	432	349
Uruguay	13	12	14	16	15
Venezuela	1 128	907	895	920	754
Burma	* 20	* 20	* 40	* 40	* 40
China	* 23 000	* 27 000	* 27 000	* 29 000	* 27 000
India	6 842	6 882	6 820	7 829	8 354
Israel	* 120	* 120	* 75	* 60	* 70
Japan	96 900	119 323	117 131	102 314	107 399
Korea, Dem. P.R. of	* 2 500	* 2 600	* 2 700	* 2 900	* 3 000
Korea, Republic of	585	1 157	1 935	2 010	2 698
Taiwan	457	507	570	520	597
Thailand	182	190	220	236	163
Australia (b)	6 743	7 682	7 755	7 843	7 774
World total	631 000	698 000	712 000	652 000	682 000

(a) Ingots only

(b) Includes recovery from scrap

(c) Source: American Iron and Steel Institute

Production of Ferro-Alloys

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Blast furnace ferro-alloys –					
Spiegeleisen	11 000	15 000	8 000	—	—
Ferro-manganese	141 000	145 000	83 000	85 000	122 000
France					
Blast furnace ferro-alloys –					
Spiegeleisen & ferro-					
manganese	449 000	545 000	533 000	427 000	367 000
Electric furnace & alumin-					
thermic ferro-alloys –					
Ferro-silicon (50% Si)	197 235	243 611	236 600	242 303	236 531
Silico-spiegeleisen &					
silico-manganese	31 965	33 263	36 743	51 251	36 164
Ferro-chrome & silico-					
chrome	112 539	138 473	114 490	56 485	111 975
Ferro-titanium, ferro-					
tungsten, ferro-					
molybdenum, ferro-					
vanadium (a)	5 858	6 784	9 550	7 092	7 222
Other ferro-alloys	83 882	78 338	82 520	77 880	93 097
Germany, Federal Republic of					
Spiegeleisen & ferro-					
manganese	210 000	247 000	320 000	210 000	220 000
Electric furnace ferro-					
alloys	218 000	265 000	283 000	257 000	239 000
Italy					
Spiegeleisen	2 619	4 358	5 203	3 208	2 635
Ferro-manganese	58 007	71 616	80 078	71 466	78 459
Ferro-silicon	73 381	75 400	65 372	70 970	78 934
Silico-manganese	28 798	32 633	41 100	36 289	41 386
Ferro-chrome	41 593	37 033	40 041	44 511	45 264
Ferro-titanium & silico-					
titanium	1 049	876	1 049	1 025	1 126
Ferro-vanadium	478	710	370	339	258
Ferro-molybdenum	1 563	3 366	3 207	2 804	1 931
Silicon metal	21 250	21 070	16 190	14 100	17 703
Silicon-pig iron (10-12% Si)	2 162	2 807	2 959	1 629	2 246
Silico-spiegeleisen	1 502	952	1 780	1 176	—
Silico-chrome	32	—	—	85	—
Calcium-silicide	5 999	5 950	5 272	4 003	2 473
Ferro-phosphorus	606	516	454	529	416
Silico-magnesium	1 512	2 268	1 929	2 089	2 063
Austria					
Electric furnace ferro-					
alloys	5 700	6 300	6 300	8 000	8 000
Czechoslovakia					
Blast furnace ferro-alloys	28 000	27 000	34 000	28 000	2 000
Electric furnace ferro-					
alloys	116 000	122 000	127 000	132 000	136 000
Greece					
Ferro-nickel (d)	11 270	13 946	14 761	14 862	16 448
Hungary					
Ferro-manganese	19 498	16 595	—	—	—
Ferro-silicon	6 784	6 807	7 755	7 329	6 925
Norway					
Ferro-manganese	226 664	235 451	335 764	338 801	375 196
Ferro-silicon	239 797	304 099	310 098	294 780	278 027
Silico-manganese	155 449	106 825	187 443	162 860	168 476
Ferro-chrome & silico-chrome	31 185	31 811	31 550	28 303	32 351
Other ferro-alloys	10 790	13 560	9 529	30 345	30 506
Portugal					
Electric furnace ferro-					
alloys	12 996	9 255	10 819	8 866	11 951

Production of Ferro-Alloys

tonnes

Country	1972	1973	1974	1975	1976
Soviet Union					
Spiegeleisen	...	83 000	107 000	104 000	* 102 000
Ferro-manganese	...	888 000	859 000	878 000	* 850 000
Other blast furnace ferro-alloys	...	25 000	26 000	27 000	* 28 000
Spain					
Ferro-manganese	84 532	108 940	112 681	126 613	132 696
Ferro-silicon	38 310	44 157	54 439	55 442	56 529
Other ferro-alloys	49 360	118 950	100 670	102 750	109 874
Sweden					
Ferro-manganese	34 857	16 289	—	—	—
Ferro-silicon	57 776	57 885	51 813	52 102	37 498
Silico-manganese	36 656	17 571	9 910	8 776	7 549
Ferro-chrome	58 295	80 399	103 997	96 146	120 005
Ferro-tungsten	515	890	585	722	422
Ferro-molybdenum	1 688	1 988	2 035	1 659	1 880
Ferro-vanadium	565	402	456	407	575
Silicon metal	17 959	19 381	...	...	...
Silico-chrome	48 333	50 238	45 008	44 743	36 998
Yugoslavia					
Ferro-alloys	132 054	154 573	189 790	195 000	200 000
South Africa					
Ferro-manganese	)		362 534	425 690	469 010
Ferro-chrome	)		184 398	216 630	238 470
Ferro-silicon	) 486 900	554 800	89 068	104 480	115 220
Other ferro-alloys	)		200	200	300
Canada					
Ferro-alloys (b)	227 426	202 635	247 939	159 989	224 980
Dominican Republic					
Ferro-nickel (d)	17 400	28 298	30 492	26 900	24 400
Mexico					
Ferro-manganese	47 846	54 535	46 915	64 598	54 418
Ferro-silicon	14 916	14 634	19 834	17 824	17 957
Silico-manganese	11 929	12 306	14 351	15 720	17 580
Ferro-chrome	1 975	—	—	—	3 246
USA					
Ferro-manganese	726 404	619 675	493 836	522 365	437 864
Silico-manganese	139 012	166 652	177 935	129 965	116 952
Ferro-silicon	763 293	796 325	) 845 362	717 456	780 904
Silvery pig-iron	147 937	122 478)		
Ferro-chrome	216 389	299 146	279 582	155 687	177 141
Silico-chrome	89 106	73 290	89 788	47 166	49 153
Other chromium alloys	14 110	14 793	25 751	22 869	17 962
Ferro-phosphorus	118 256	117 613	96 602	93 346	100 610
Ferro-niobium	1 052	1 059	1 065	558	1 093
Ferro-titanium	3 311	1 618)		
Other ferro-alloys (e)	73 244	73 417	) 61 636	58 237	51 242
Argentina					
Ferro-manganese	16 353	14 341	15 337	18 892	23 309
Ferro-silicon	15 548	14 414	15 690	13 871	18 947
Other ferro-alloys	3 346	4 368	5 557	5 082	6 169
Brazil					
Ferro-chrome	11 656	15 492	37 801	52 986	59 730
Ferro-manganese	73 334	76 920	79 560	86 850	98 738
Ferro-nickel	10 813	9 507	9 852	9 646	9 971
Ferro-silicon	23 745	40 221	52 178	54 276	45 252
Silico-manganese	16 806	23 324	32 626	38 828	63 843
Ferro-niobium	2 782	6 093	6 951	3 996	10 010
Chile					
Ferro-manganese	)		8 000	6 000	* 7 000
Ferro-silicon	)		3 000	4 000	4 000
Silico-manganese	) 14 000	11 000	3 000	3 000	3 000
Other ferro-alloys	)		1 000	1 000	* 1 000

Production of Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
India					
Ferro-manganese	160 020	141 063	146 015	142 549	175 558
Ferro-silicon	31 481	24 264	29 682	40 928	53 945
Ferro-chrome	1 525	6 633	15 300	10 282	16 971
Silico-chrome	—	1 949	1 312	3 200	5 002
Japan					
Ferro-chrome	303 000	443 000	542 000	486 067	463 541
Ferro-manganese	553 000	617 000	624 000	649 834	632 160
Ferro-nickel	189 000	200 000	251 000	200 569	198 411
Ferro-silicon	309 000	354 000	369 000	327 478	313 077
Silico-manganese	343 000	376 000	448 000	435 107	373 196
Other ferro-alloys	46 000	37 000	33 000	40 000	27 462
Taiwan					
Ferro-silicon	10 806	13 400	27 180	23 178	15 761
Australia (c)					
Ferro-chrome	1 396	2 802	2 351	1 611	—
Ferro-manganese	56 631	40 066	42 660	38 784	49 927
Ferro-silicon	9 271	8 361	8 982	247	5 399
Silico-manganese (60% Mn)	16 607	24 853	21 573	11 297	14 651
New Caledonia					
Ferro-nickel (d)	35 936	35 759	48 533	52 802	38 169

(a) Ti, W, Mo, V content

(b) Factory shipments

(c) Years ended 30 November of that stated

(d) Ni content

(e) Includes ferro-boron and other complex boron additive alloys, ferro-nickel, ferro-molybdenum, ferro-tungsten, ferro-vanadium, spiegeleisen, ferro-zirconium and other miscellaneous alloys

Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Pig-iron –					
Forge & foundry	1 595	254	21 346	5 888	46 046
Other including refined	10 363	8 030	10 633	12 609	14 846
Iron & steel powders, shot & sponge	24 785	25 236	30 360	25 825	21 940
Ferro-chrome	1 317	676	2 314	2 098	588
Ferro-manganese	236	173	1 087	1 176	617
Ferro-molybdenum	604	1 063	1 597	1 091	1 811
Ferro-niobium & ferro- niobium-tantalum	314	611	826	609	357
Ferro-titanium	1 692	2 217	3 058	2 591	3 675
Ferro-tungsten	2 533	2 480	3 457	2 488	3 503
Ferro-vanadium	63	22	62	50	144
Other ferro-alloys	5 220	4 034	7 507	6 156	10 321
Ingots, blooms, billets	240 306	194 596	221 162	255 582	257 619
Old & scrap (a)	1 091 600	740 115	314 094	915 552	597 807
Belgium-Luxembourg					
Pig-iron	9 564	17 172	11 126	11 957	33 503
Spiegeleisen	777	1 388	514	859	351
Ferro-manganese	56 738	59 210	58 387	43 417	70 377
Ferro-titanium & ferro- silico-titanium	735	1 134	2 615	1 643	1 664
Ferro-tungsten & ferro- silico-tungsten	7	155	254	108	495
Other ferro-alloys	6 425	27 681	14 842	13 584	23 445
Ingots	18 022	124 744	201 285	118 676	11 355
Blooms & billets	795 311	986 861	1 046 847	1 275 248	1 060 189
Old & scrap	393 957	559 075	726 571	531 778	527 292
Denmark					
Ingots, blooms & billets	868	16 439	12 173	983	1 084
Old & scrap	88 853	112 388	129 642	90 698	115 673
France					
Pig-iron	110 490	185 685	358 788	220 992	226 780
Spiegeleisen	714	1 286	123	710	433
Ferro-chrome	7 393	10 206	4 963	12 681	22 526
Ferro-manganese	303 362	374 877	397 743	267 796	266 616
Ferro-molybdenum	568	230	306	392	1 178
Ferro-nickel	37 186	50 102	74 013	59 352	55 424
Ferro-titanium & ferro- silico-titanium	2 588	2 610	2 730	1 433	1 486
Ferro-tungsten & ferro- silico-tungsten	596	642	832	410	859
Ferro-vanadium	252	288	516	356	553
Ferro-silicon	55 204	82 098	106 213	47 709	84 797
Other ferro-alloys	43 893	53 975	67 077	38 139	50 216
Ingots	112 266	125 948	96 972	78 480	45 134
Blooms & billets	576 972	412 889	349 894	491 406	320 517
Old & scrap	3 079 920	2 787 530	3 724 123	2 809 306	3 421 382
Germany, Federal Republic of					
Pig-iron	819 329	1 164 838	1 360 934	742 937	821 077
Spiegeleisen	13 204	2 122	4 445	2 205	1 514
Ferro-chrome & ferro- silico-chrome	36 011	38 450	42 189	32 125	70 619
Ferro-manganese	32 317	47 092	78 614	40 730	45 918
Ferro-molybdenum	348	469	431	426	1 540
Ferro-silicon	14 068	15 105	23 845	15 936	16 612
Ferro-vanadium	966	821	737	1 207	1 595
Other ferro-alloys	9 789	11 697	17 244	10 293	15 373
Ingots, blooms, billets	956 298	1 038 155	793 320	987 554	1 048 794
Old & scrap	2 099 052	2 265 016	2 475 126	2 205 545	2 596 883
Irish Republic					
Old & scrap	11 695	12 683	11 196	7 528	8 207

Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Italy					
Pig-iron	3 065	5 310	2 819	694	103
Ferro-chrome	13 130	10 829	10 206	13 240	18 482
Ferro-manganese	8 744	6 084	13 667	5 021	2 155
Ferro-silico-manganese	129	108	874	613	327
Ferro-molybdenum	948	1 927	1 872	852	376
Ferro-vanadium	197	342	248	133	232
Ferro-silicon	4 218	2 956	1 844	5 501	9 456
Other ferro-alloys	1 199	1 387	1 445	1 639	2 074
Ingots, blooms, billets	212 467	149 384	192 183	371 170	123 363
Scrap	14 500	9 776	11 411	5 231	23 936
Netherlands					
Pig-iron	413	153 629	55 750	7 381	756
Sponge iron & powder	98	274	76	41	68
Ferro-vanadium (f)	564	570	480	597	776
Other ferro-alloys (f)	1 086	6 141	5 537	4 961	14 186
Ingots, blooms, billets	151 099	156 152	548 542	664 989	669 512
Old & scrap	664 102	1 120 730	1 373 067	1 095 313	1 103 234
Austria					
Pig-iron	7	20 209	20 762	2 391	412
Ferro-alloys	5 852	6 685	7 606	8 505	9 130
Ingots & blooms	1 307	7 763	85 217	160 661	51 070
Scrap	12 883	7 008	12 865	50 482	43 806
Finland					
Pig-iron	163 395	141 688	169 835	95 563	85 205
Ferro-chrome & ferro-silico-chrome	25 547	38 818	44 573	30 997	32 745
Blooms & billets	262 734	299 096	240 252	236 938	232 957
Old & scrap	11 133	6 383	8 545	5 106	3 662
Greece					
Ferro-nickel	22 161	71 296	81 569	49 525	57 035
Hungary					
Pig-iron	157 167	206 781	281 203	99 398	136 050
Iceland					
Scrap	3 022	3 345	5 276	3 445	2 992
Malta					
Scrap	7 054	8 668	9 173	6 173	4 260
Norway					
Pig-iron	103 960	140 166	120 986	100 857	96 613
Ferro-chrome & ferro-silico-chrome	33 713	29 816	27 558	21 204	28 023
Ferro-manganese	210 284	225 254	309 365	256 639	327 222
Ferro-silicon	212 366	278 363	308 848	222 187	247 787
Ferro-silico-manganese	145 613	162 848	189 658	126 319	153 044
Ferro-vanadium	543	694	658	729	733
Other ferro-alloys	440	448	686	15 531	16 740
Ingots, blooms, billets	185 583	231 246	212 418	185 312	207 116
Old & scrap	15 518	24 538	34 446	19 515	17 826
Poland					
Pig-iron	28 202	9 960	3 165	4 996	46
Ferro-alloys					
Portugal					
Pig-iron	4	729	343	7 527	4 328
Ferro-tungsten	355	328	378	298	290
Other ferro-alloys	8 968	10 396	9 997	42 870	57 189
Old & scrap	19 256	50 109	2 501	1 710	2 808
Soviet Union					
Pig-iron	5 082 300	5 207 700	4 910 300	4 729 229	4 527 340
Ferro-chrome	48 700	46 400	46 430	44 601	48 777
Ferro-manganese	129 700	135 000	118 300	129 188	125 273
Ferro-silicon	139 300	148 400	151 420	154 492	160 246
Ferro-vanadium	1 300	1 200	1 600	1 427	1 658
Scrap	1 600 000	1 800 000	1 465 281	1 138 660	1 836 591

Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Spain					
Pig-iron	1	103	29	906	827
Ferro-chrome	4 532	11 025	8 381	7 244	6 376
Ferro-silicon	5 238	4 390	15 365	4 625	16 483
Other ferro-alloys	26 054	44 736	59 422	30 776	56 462
Ingots, blooms, billets	517 454	833 296	23 668	12 506	48 801
Sweden					
Pig-iron	6 216	42 941	207 018	193 332	53 904
Sponge iron	9 838	9 062	10 828	14 235	16 285
Ferro-manganese	14 897	14 772	3 200	1 190	3 039
Ferro-silicon	22 447	32 421	32 634	29 300	20 051
Ferro-silico-manganese	741	2 870	6 462	3 792	3 482
Ferro-chrome & ferro-silico-chrome	28 397	32 920	41 435	31 055	54 552
Ferro-molybdenum	484	809	906	689	1 217
Ferro-tungsten	31	95	174	163	200
Other ferro-alloys	336	484	656	573	367
Ingots, blooms, billets	80 539	93 641	192 793	120 456	168 873
Old & scrap	11 711	12 447	10 624	10 820	8 624
Switzerland					
Pig-iron	12	21	302	2	—
Ferro-alloys	9 342	3 646	2 028	363	686
Old & scrap	92 342	109 421	116 999	117 217	70 689
Turkey					
Ferro-chrome	12 421	10 297	9 388	6 063	8 050
Yugoslavia					
Pig-iron	106 213	321 795	353 582	107 110	50 146
Ferro-chrome	21 188	25 844	33 057	18 475	23 389
Ferro-manganese	7 000	4 677	4 552	4 091	4 625
Ferro-silico-manganese	11 292	8 380	10 411	9 193	10 278
Ferro-silicon	30 847	43 836	57 003	32 741	50 039
Ingots, blooms, billets	2 452	47 873	21 985	6 196	35 174
Scrap	4 152	7 083	9 635	1 007	19 641
Algeria					
Pig-iron	...	97 618	106 477	194 331	...
Scrap	...	33 593	61 098	70 801	...
Egypt					
Pig-iron & spiegeleisen	...	2 183	75 482	97 420	39 584
Ferro-alloys	131	5 485	2 474	2 000	1 000
Ivory Coast					
Scrap	11 858	...	33 114	25 028	17 576
Kenya					
Scrap	2 729	5 996	4 707	4 675	4 827
Morocco					
Old & scrap	34 866	61 015	79 650	29 122	48 954
Mozambique					
Scrap	13 364	8 334	10 087	8 908	8 487
Nigeria					
Scrap	911	282	628	27	336
Senegal					
Scrap	9 192	11 917	32 587	20 875	...
South Africa (i)					
Pig-iron	495 176	442 203	* 240 800	* 2 000	* 250
Ferro-manganese	230 106	276 269	* 243 000	* 219 000	* 302 000
Ferro-silicon	25 104	36 474	* 37 000	* 32 000	* 31 500
Ferro-chrome	151 862	175 193	* 250 000	* 277 000	* 419 000
Other ferro-alloys	12 095	25 388	* 38 000	* 12 000	* 6 000
Ingots, blooms, billets	8 095	90 807	* 68 000	* 42 000	* 22 000
Scrap	5 442	733	* 9 000	* 22 000	* 29 000
Sudan					
Scrap	6 484	3 927	4 313	1 959	5 179
Tanzania					
Scrap	1 198	655	299	110	387
Tunisia					
Pig-iron	850	15 518	7 116	751	...
Ingots, blooms, billets	23 433	59 571	39 347	2 164	...
Scrap	4 896	3 896	1 974	3 571	1 300

Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Canada					
Pig-iron	625 070	582 401	517 580	406 272	281 558
Ferro-manganese	2 360	3 024	10 295	1 240	9 861
Ferro-silicon	48 522	46 631	47 650	29 101	34 257
Other ferro-alloys	5 660	7 740	7 040	2 024	7 275
of which: Re-exports	2 981	1 937	3 575	778	5 543
Ingots, blooms, billets	117 633	123 853	249 508	35 499	130 098
Old & scrap	422 745	630 202	257 352	417 414	1 020 901
Tin-plate scrap	12 761	7 052	8 666	6 317	5 202
Trinidad & Tobago					
Old & scrap	11 528	8 037	13 818	1 424	7 722
USA					
Pig-iron	13 624	13 753	91 246	56 342	52 424
Spiegeleisen	628	965	497	304	4 988
Powders & sponge	13 017	18 476	48 890	14 372	22 725
Ferro-phosphorus	1 070	17 264	3 335	396	1 484
Ferro-manganese	6 252	7 791	9 455	29 908	6 445
Ferro-chrome	11 738	14 272	7 638	13 288	12 865
Ferro-molybdenum	412	1 009	1 857	1 017	1 631
Ferro-vanadium	246	1 286	1 211	926	1 098
Ferro-silicon	6 683	14 519	5 965	37 035	14 910
Other ferro-alloys	14 657	21 145	16 574	7 549	6 132
Ingots, blooms, billets (b)	378 440	498 240	731 724	293 958	236 847
Scrap (c)	6 834 203	10 219 383	7 898 208	8 718 861	7 371 317
Argentina					
Ingots, blooms, billets	47 432	42 664	6 208	...	...
Brazil					
Pig-iron	255 712	428 040	252 255	510 524	774 947
Ferro-manganese	22 720	21 413	5 245	10 080	11 028
Ferro-nickel	7 195	3 368	2 929	3 838	1 736
Other ferro-alloys	13 490	19 415	43 719	47 087	74 006
Chile					
Ferro-manganese	—	1 745	514	...	...
Ferro-molybdenum	836	770	1 048	...	...
Ingots, blooms, billets	4 773	...	...	...	...
Venezuela					
Ingots	...	...	51 669	...	...
Brunei					
Scrap	3 770	1 234	6 377	1 391	1 626
Hong Kong					
Old & scrap	189 246	213 049	258 434	157 478	175 152
of which: Re-exports	14 801	23 994	12 639	4 339	3 708
Tin plate scrap	1 999	4 027	2 167	1 100	1 450
India					
Pig-iron	263 640	562 895	126 534	210 399	855 868
Ferro-chrome	1 605	917	4 767	3 115	4 813
Ferro-manganese	51 783	46 430	32 961	...	24 154
Ferro-silicon	2 001	989	2 006	—	8 316
Ingots, blooms, billets (d)	11 109	7 286	22 770	155 197	327 959
Old & scrap	86 111	123 593	96 535	126 446	218 154
Israel (h)					
Scrap	200	56	150	1 055	3 414
Japan					
Pig-iron	381 744	108 183	72 070	406 846	146 331
Ferro-chrome	22 977	17 214	57 578	85 228	54 509
Ferro-manganese	50 742	26 412	54 265	130 625	121 934
Ferro-silicon	2 703	1 781	22 574	26 163	8 224
Ferro-silico-manganese	7 020	1 433	36 002	8 933	9 863
Ferro-nickel	19 053	1	2 274	4 566	13 262
Ferro-titanium	405	72	196	116	...
Ferro-vanadium	188	150	115	54	39
Other ferro-alloys	3 505	3 248	4 063	4 409	2 995
Ingots, blooms, billets	284 370	779 611	629 006	1 890 376	1 060 057
Scrap	221 588	208 381	301 163	274 759	202 659

Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Korea, Dem. P.R. of					
Pig-iron	* 135 700	* 107 100	* 106 200	...	...
Korea, Republic of					
Pig-iron	5 693	2 912	3 657	150	419
Ferro-manganese	355	...	250	100	15
Ferro-silicon	3 475	7 006	3 775	5 506	17 212
Ferro-silico-manganese	...	800	770	2 165	1 995
Other ferro-alloys	2 067	850	...	9	24
Ingots, blooms, billets (b)	205	661	28 043	16 380	11 662
Kuwait					
Scrap	18 429	51 680	72 072	18 864	...
Lebanon					
Scrap	23 615	53 199	...	...	...
Malaysia (g)					
Scrap	1 995	4 934	86	2 518	14 070
Saudi Arabia					
Scrap	5 690	10 502	...	5 737	...
Singapore					
Pig-iron	298	3 073	6 934	7 407	5 130
Ingots & blooms	2 143	7 122	15 676	8 448	5 726
Scrap	4 237	1 070	1 945	1 539	3 102
Syria					
Scrap	3 913	8 050	11 205	1 225	6 000
Taiwan					
Pig-iron	20 250	224	243	2 802	1 000
Ferro-manganese	2 862	1 254	1 957	25 714	9 192
Ferro-silicon	9 364	4 388	19 290	25 113	30 400
Ingots, blooms, billets	34 807	899	5 068	5 657	858
Scrap	59 952	8 374	43 072	32 348	63 290
Australia					
Pig-iron	581 993	853 309	735 111	519 942	698 176
Ferro-alloys	235	343	1 309	432	783
Ingots, blooms, billets	597 076	770 706	774 950	1 635 836	1 534 499
Scrap	396 071	626 069	811 901	577 401	631 800
Tin-plate scrap (e)	8 149	4 226	5 588	10 799	4 908
New Caledonia					
Ferro-nickel	155 576	136 587	181 321	168 542	124 180
New Zealand (e)					
Scrap	3 412	3 768	2 489	2 550	1 847

(a) Excluding ships intended for breaking up

(b) Including alloys

(c) Including tin-plate and terne-plate scrap

(d) Years ended 31 March following that stated

(e) Years ended 30 June of that stated

(f) Excludes exports to Belgium-Luxembourg, if any

(g) From 1975 includes Sabah and Sarawak

(h) Figures may be incomplete as value only given in Israeli trade return for exports to some countries

(i) From 1974, IGS estimates, based on known imports into certain countries

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Pig-iron –					
Forge & foundry	16 442	4 124	10 422	15 216	30 722
Hematite	56 261	74 294	62 414	23 768	100 371
Basic	66 876	3 250	) 44 566	31 986	34 471
Other	37 173	45 247			
Iron & steel shot					
& powder	7 090	8 236	6 822	5 077	13 416
Sponge iron	14 825	13 064	14 109	11 447	42 584
Ferro-chrome	29 578	43 388	62 394	59 587	99 414
Ferro-silico-chrome	8 064	7 720	5 555	5 245	8 974
Ferro-silicon	120 155	118 251	114 623	117 199	112 315
Ferro-manganese	91 775	79 682	124 396	95 925	118 257
Ferro-silico-manganese	22 132	22 511	20 432	20 106	21 260
Ferro-molybdenum	525	872	727	650	834
Ferro-nickel	4 650	11 670	17 612	11 233	11 746
Ferro-niobium	493	885	429	404	1 157
Ferro-titanium	97	5	66	11	254
Ferro-tungsten	113	149	215	255	360
Ferro-vanadium	201	595	460	349	281
Other ferro-alloys	13 005	12 500	13 695	14 000	13 682
Iron & steel ingots	3 389	18 848	13 587	11 008	2 754
Blooms, billets, slabs	308 786	109 079	123 434	207 289	395 353
Old & scrap (a)	39 967	222 844	138 324	88 352	693 301
Belgium-Luxembourg					
Pig-iron					
Sponge iron	338	257	3 336	1 581	1 108
Spiegeleisen	884	342	263	398	74
Ferro-chrome & ferro-silico-chrome					
Ferro-chrome	16 717	30 891	28 347	34 230	43 508
Ferro-manganese	98 033	113 937	121 951	75 238	100 658
Ferro-silico-manganese	10 545	17 475	20 224	10 614	13 411
Ferro-molybdenum	90	258	466	157	216
Ferro-nickel	1 585	4 278	5 989	3 173	5 386
Ferro-titanium & ferro-silico-titanium					
Ferro-titanium	363	425	736	417	250
Ferro-tungsten & ferro-silico-tungsten					
Ferro-tungsten	12	31	52	10	194
Ferro-vanadium	79	131	177	80	68
Ferro-silicon	33 842	37 376	41 352	27 134	31 313
Other ferro-alloys	2 836	3 531	4 377	2 853	3 561
Ingots	197 103	310 744	261 211	57 381	115 120
Blooms & billets	263 638	258 438	259 874	233 780	315 505
Old & scrap	826 369	697 836	1 239 902	707 238	586 001
Denmark					
Pig-iron					
Ferro-chrome & ferro-silico-chrome	1 028	815	997	958	979
Ferro-manganese	8 340	9 271	6 038	8 213	8 621
Ferro-silico-manganese	1 797	2 021	3 005	2 721	1 604
Ferro-molybdenum	20	16	28	25	22
Ferro-silicon	4 144	3 825	3 924	4 408	5 681
Other ferro-alloys	1 110	220	280	566	2 209
Ingots, blooms, billets	124 000	78 333	64 660	52 678	14 968
Old & scrap	3 382	4 228	4 347	3 191	7 072
France					
Pig-iron –					
Hematite	334 777	374 883	285 171	293 133	402 316
Other	40 051	10 698	4 821	5 018	1 971
Sponge iron	4 569	18 469	22 685	15 335	36 860
Spiegeleisen	475	662	1 101	247	205
Ferro-chrome	12 132	16 616	24 322	13 591	41 397
Ferro-manganese	26 199	39 332	42 136	21 021	32 620
Ferro-nickel	100 668	93 247	121 824	159 924	104 316
Ferro-silicon	3 481	3 736	3 835	5 097	9 337
Other ferro-alloys	3 583	4 261	5 165	3 932	5 562
Ingots	33 327	106 612	106 205	78 517	89 727
Blooms, billets	502 262	429 382	488 462	298 981	700 402
Old & scrap	238 533	435 669	326 980	276 290	273 632

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Germany, Federal Republic of					
Pig-iron	184 237	227 941	188 810	158 092	291 534
Spiegeleisen	4 105	1 498	351	503	301
Ferro-chrome	63 997	79 405	80 826	88 369	138 673
Ferro-silico-chrome	16 670	19 585	21 637	12 541	20 086
Ferro-manganese	160 787	181 902	166 811	156 501	174 052
Ferro-molybdenum	1 916	2 312	3 665	2 674	3 681
Ferro-nickel	30 304	54 530	56 026	37 649	55 650
Ferro-vanadium	1 346	1 344	1 371	1 304	1 513
Ferro-silicon	128 616	144 639	133 978	116 066	136 137
Ferro-silico-manganese	58 706	74 756	73 357	70 274	70 649
Other ferro-alloys	11 915	11 857	7 864	8 634	12 550
Ingots, blooms, billets	820 540	1 113 187	1 290 926	1 272 977	1 154 391
Old & scrap	1 204 000	1 344 082	1 661 756	1 716 219	1 540 029
Irish Republic					
Pig-iron & sponge iron	21 923	14 983	5 904	1 206	739
Ferro-alloys	2 059	1 083	1 421	1 492	1 379
Ingots, blooms, billets	1 211	3 209	2 150	1 556	1 483
Italy					
Pig-iron	1 170 447	1 016 789	1 035 867	660 117	770 184
Spiegeleisen	4 314	4 485	4 554	1 402	3 069
Ferro-chrome & ferro-silico-chrome	41 599	49 656	54 666	48 495	63 764
Ferro-manganese	88 099	120 628	154 563	124 823	117 185
Ferro-molybdenum	545	459	402	1 495	3 190
Ferro-silicon	24 703	28 315	52 023	34 329	40 588
Ferro-silico-manganese	19 734	23 244	31 041	17 161	19 846
Ferro-titanium & ferro-silico-titanium	653	630	854	774	801
Ferro-tungsten & ferro-silico-tungsten	84	153	158	179	55
Ferro-vanadium	243	279	332	972	330
Ferro-nickel	11 166	15 203	16 672	13 796	19 555
Other ferro-alloys	2 640	3 476	8 598	3 071	5 748
Ingots, blooms, billets	685 366	583 716	453 418	294 107	583 547
Old & scrap	5 678 526	5 638 820	6 299 497	5 413 472	6 329 498
Netherlands					
Pig-iron (b)	55 977	57 801	65 691	48 352	41 557
Sponge iron & powder	3 680	2 519	5 112	3 964	3 887
Ferro-chrome (c)	3 343	3 650	3 169	6 579	7 194
Ferro-manganese (c)	25 638	35 593	36 658	27 168	30 177
Ferro-silico-manganese (c)	1 747	1 183	3 096	2 230	3 167
Ferro-molybdenum (c)	40	42	64	71	215
Ferro-silicon (c)	8 618	8 051	11 009	9 603	10 157
Ferro-titanium & ferro-silico-titanium (c)	170	69	77	30	73
Ferro-tungsten & ferro-silico-tungsten (c)	16	52	51	2	25
Ferro-vanadium (c)	23	45	2	5	58
Other ferro-alloys (c)	284	404	632	611	921
Ingots, blooms, billets	850 810	642 405	593 168	296 743	458 721
Old & scrap	169 996	181 547	148 380	204 098	199 037
Austria					
Pig-iron	86 992	115 966	79 256	45 431	101 587
Spiegeleisen	152	369	187	97	87
Ferro-chrome	23 325	24 798	21 707	17 861	25 643
Ferro-manganese	19 720	22 496	23 791	21 257	21 364
Ferro-molybdenum	27	1	10	41	7
Ferro-titanium	302	342	354	229	371
Ferro-tungsten	...	200	127	1	173
Ferro-vanadium	—	176	74	12	89
Ferro-silicon	13 342	15 279	16 509	10 969	14 071
Other ferro-alloys	10 514	16 296	13 227	11 198	9 823
Ingots & blooms	49 224	99 268	117 840	71 521	116 584
Scrap	51 764	99 768	88 277	33 316	44 802
Bulgaria					
Pig-iron	307 000	268 000	340 414	330 070	336 000

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Czechoslovakia					
Pig-iron	802 000	730 000	802 000	1 108 000	826 000
Finland					
Pig-iron	1 493	9 847	40 006	52 186	371
Ferro-chrome & ferro-silico-chrome	865	1 009	1 468	1 065	904
Ferro-manganese	4 099	3 667	4 857	2 915	2 326
Ferro-molybdenum	124	100	162	106	200
Other ferro-alloys	17 788	21 012	21 114	20 608	19 442
Blooms, billets	22 779	18 194	6 712	23 377	65 367
Old & scrap	67 046	61 787	84 795	94 940	54 191
German Democratic Republic					
Pig-iron	753 000	867 000	868 000	(g) 805 735	(g) 636 570
Ferro-alloys	17 000	16 700	27 600	23 700	26 600
Greece					
Pig-iron	17 637	15 054	15 329	15 431	14 599
Ferro-alloys	6 084	7 397	12 932	5 786	8 058
Ingots, blooms, slabs	83 854	102 651	47 526	39 200	29 708
Old & scrap	96 404	148 560	23 780	98 167	90 700
Hungary					
Pig-iron	193 018	228 946	256 481	253 000	288 052
Ferro-chrome	5 038	5 341	7 155	...	4 989
Ferro-manganese	17 761	21 625	43 306	40 349	46 536
Ferro-molybdenum	287	191	366	...	569
Ferro-silicon	5 150	5 518	5 099	6 617	4 775
Other ferro-alloys	6 798	5 412	8 107	14 730	8 337
Ingots	198 855	202 158	142 782	262 000	298 023
Malta					
Ingots	2 202	3 818	1 893	773	—
Norway					
Pig-iron	10 492	10 118	18 072	10 267	11 725
Ferro-alloys	1 000	1 900	1 319	2 018	1 379
Ingots, blooms, billets	4 474	7 844	17 142	21 239	10 169
Old & scrap	59 643	26 475	50 995	53 337	71 326
Poland					
Pig-iron)					
Ferro-alloys)	1 478 932	1 508 541	1 675 967	1 812 215	1 988 848
Scrap	42	203	3 024	2 121	47 099
Portugal					
Iron & steel ingots	8	5	140	2	12
Old & scrap	24 095	6 288	8 113	5 482	28 588
Romania					
Pig-iron	527 800	490 200	540 000	583 000	560 600
Ferro-alloys	118 400	151 200	153 500	172 000	223 300
Soviet Union					
Pig-iron	157 900	333 200	138 879	134 848	228 855
Ferro-alloys	17 600	18 700	30 218	40 420	33 269
Spain					
Pig-iron	34 294	42 903	59 886	35 440	53 713
Ferro-chrome	4 969	8 306	8 712	10 174	16 426
Ferro-manganese	4 707	3 969	543	428	233
Other ferro-alloys	10 890	10 786	13 915	10 876	9 034
Ingots & blooms	62 843	69 687	131 904	672 593	1 960 077
Old & scrap	1 825 204	2 012 207	1 924 586	2 197 923	2 657 123
Sweden					
Pig-iron	344 295	337 622	208 872	223 820	227 306
Sponge iron	1 686	1	—	15	154
Ferro-manganese	29 060	53 490	49 518	54 185	50 146
Ferro-chrome & ferro-silico-chrome	35 449	49 884	48 417	38 585	49 658
Ferro-molybdenum	1 776	2 233	2 714	1 890	2 439
Ferro-nickel	26 194	45 155	64 601	49 356	29 633
Ferro-silicon	14 351	22 054	24 704	20 176	21 991
Ferro-silico-manganese	12 640	22 228	17 247	14 537	16 065
Ferro-tungsten	366	318	657	459	602
Ferro-vanadium	457	798	807	836	757
Other ferro-alloys	8 729	7 677	5 904	5 570	4 647
Blooms, billets	121 994	139 612	124 269	198 167	136 934
Old & scrap	198 065	278 333	368 234	338 257	137 046

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Switzerland					
Pig-iron	48 804	74 796	71 894	54 611	61 922
Ferro-alloys	22 793	20 500	27 483	11 641	21 924
Ingots, blooms, billets (m)	240 711	137 036	109 288	58 539	32 760
Old & scrap	78 458	63 396	110 355	96 803	43 793
Turkey					
Pig-iron	99 792	111 156	52 924	107 337	79 749
Ingots, blooms, billets	153 039	324 967	295 276	550 413	540 830
Ferro-manganese	10 423	8 762	14 171	20 030	25 204
Ferro-silicon	7 104	4 106	2 923	5 328	9 398
Other ferro-alloys	282	190	169	367	428
Scrap	109 272	187 052	118 795	84 999	235 975
Yugoslavia					
Pig-iron	88 341	34 506	62 325	105 103	40 248
Ferro-manganese	1 541	3 619	2 762	3 092	998
Ferro-molybdenum	317	351	451	647	519
Ferro-tungsten	93	55	106	94	126
Other ferro-alloys	3 112	3 267	4 223	3 751	4 139
Ingots, blooms, billets	165 115	168 809	258 488	394 500	411 054
Scrap	261 696	298 636	427 781	346 398	342 345
Algeria					
Pig-iron	2 717	6 054	607	9 059	...
Ferro-manganese	...	1 466	959	888	1 371
Ferro-silicon	...	1 093	1 008	1 780	1 751
Ferro-silico-manganese	...	4	304	266	70
Egypt					
Pig-iron & spiegeleisen	96 317	45 360	23 257	57 341	37 781
Ferro-alloys	13 208	3 106	9 902	7 537	1 078
Ingots & billets	86 243	104 599	37 708	68 068	8 878
Scrap	66 462	44 156	73 758	80 718	69 323
Ghana					
Pig-iron	178	996	455	1 524	...
Ferro-manganese	166	510	284	854	...
Ingots & blooms	...	10	68	179	...
Scrap	...	4 009	5 908	6 949	...
Ivory Coast					
Ingots, blooms, billets	12 105	14 500	10 462	8 076	10 858
Kenya					
Pig-iron & ferro-alloys (b)	1 739	...	273	1 023	641
Ingots & blooms	22 152	20 389	19 437	13 485	29 906
Libya					
Pig-iron	5	2 161	213	1 817	157
Ingots, blooms, billets	410	82	2 261	1 498	2 674
Mauritius					
Pig-iron & ingots	5 696	8 659	11 593	3 829	...
Morocco					
Pig-iron	1 499	2 067	3 418	2 250	3 690
Ferro-manganese	169	175	205	157	219
Ferro-silicon	32	67	106	135	199
Ferro-silico-manganese	30	44	48	36	40
Ferro-chrome	13	8	22	18	34
Ingots, blooms, billets	8 345	8 057	13 850	15 779	21 707
Scrap	431	28	—	—	—
Nigeria					
Ingots & blooms	43 728	71 900	109 627	61 560	63 946
South Africa					
Pig-iron (d)	48	143	89	36 699	79 252
Ferro-silicon	913	1 570	2 098	1 600	1 054
Ferro-chrome	3 400	2 820	2 420	3 656	2 705
Other ferro-alloys	1 497	778	1 412	1 402	794
Ingots & blooms	60 091	27 428	27 484	144 168	10 892
Scrap	50 371	24 846	10 383	18 022	34 261
Tanzania					
Pig-iron & ferro-alloys (b)	1 086	...	1 082	2 664	1 187
Ingots & blooms	4 838	6 260	13 950	9 074	11 857

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Tunisia					
Pig-iron	191	85	63	71	51
Ferro-alloys	711	932	648	920	317
Old & scrap	534	283	941	662	1 586
Uganda					
Pig-iron & ferro-alloys (b)	82	...	171	—	150
Ingots & blooms	5	107	109	—	—
Zambia					
Pig-iron	1 282	135	542	...	...
Ferro-alloys	542	957	889	...	...
Ingots, blooms, billets	520	1	45	...	...
Scrap	20 999	5 793	2 164	...	...
Canada					
Pig-iron	3 742	1 862	2 243	4 078	8 836
Sponge iron	2 126	3 035	12 627	5 838	3 869
Ferro-manganese & spiegeleisen	17 141	24 050	17 114	35 701	25 054
Ferro-chrome	13 793	34 727	38 392	41 109	21 923
Ferro-silicon	8 676	12 920	10 560	26 353	10 386
Ferro-tungsten	115	78	186	45	77
Ferro-vanadium	105	152	370	100	105
Ferro-silico-manganese & silico-spiegel	15 093	9 752	542	5 732	12 022
Other ferro-alloys	12 607	29 368	17 699	8 880	24 972
Ingots, blooms, billets	243 294	86 512	47 804	106 572	22 348
Scrap	1 110 500	914 587	766 539	929 349	823 552
Costa Rica					
Ingots & blooms	23 703	23 146	27 521	28 854	44 549
El Salvador					
Ingots, blooms, billets	27 072	35 364	31 689	27 074	10 626
Scrap	925	2 967	1 073	44	30
Honduras					
Ingots & blooms	1 048	1 255	3 395	777	5 618
Jamaica					
Pig-iron & sponge iron	435	260	328	302	...
Ingots & blooms	20 922	3 777	9 381	14 161	...
Mexico					
Pig-iron	11 773	119 141	53 896	122 952	110 021
Ferro-manganese	1 323	1 479	4 381	5 694	...
Ferro-silicon	497	353	346	3 380	...
Ferro-chrome	516	1 636	3 738	4 205	...
Ferro-vanadium	192	29	163	16	...
Ferro-nickel	226	230	102	10	...
Other ferro-alloys	360	693	1 010	655	...
Ingots, blooms, billets	4 104	6 765	126 051	153 168	49 795
Scrap	523 782	949 128	777 153	1 165 431	506 705
Tin-plate scrap	2 955	15 303	14 211	17 652	16 199
Trinidad & Tobago					
Pig-iron	...	37	9	16	51
Ingots	592	1 907	2 294	4 634	11 776

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
USA					
Pig-iron	577 816	404 265	310 573	433 730	376 176
Ferro-chrome	128 159	148 712	147 586	289 219	220 079
Ferro-manganese	316 189	354 338	382 126	360 344	487 530
Ferro-silicon	35 925	91 155	129 228	63 899	89 171
Ferro-titanium & ferro-silico-titanium	83	232	2 083	486	816
Ferro-tungsten & ferro-silico-tungsten	460	632	458	232	473
Ferro-silico-chrome	7 645	11 827	6 852	3 752	14 265
Ferro-silico-manganese	35 084	40 605	61 463	49 644	72 682
Ferro-vanadium	524	274	204	163	393
Ferro-zirconium	2 362	1 133	771	497	609
Ferro-nickel	46 938	81 447	92 923	59 009	50 549
Sponge iron	13 429	10 703	11 275	14 394	90 283
Ingots, blooms, billets	237 756	156 534	166 241	220 607	217 824
Scrap	268 000	306 000	171 000	266 000	450 000
Tin-plate scrap	15 000	11 000	12 000	11 000	10 000
Argentina					
Pig-iron	72 057	110 443	146 601	179 404	71 534
Ferro-manganese	941	890	823	1 681	1 034
Ferro-silicon	204	24	217	3 328	2 008
Ferro-silico-manganese	15	...	...	508	...
Ferro-molybdenum	323	472	473	212	412
Ferro-titanium	80	52	55	68	64
Blooms & billets	495 402	922 444	410 057	619 980	423 362
Old & scrap	210 710	234 476	148 335	319 049	72 372
Brazil					
Ferro-manganese	819	845	2 242	2 525	68
Ferro-silicon	4 832	983	3 055	1 124	1 713
Ferro-chrome	2 207	3 972	6 131	1 624	542
Ferro-molybdenum	189	152	94	6	6
Ferro-vanadium	23	12	28	7	—
Other ferro-alloys	1 147	801	3 322	1 360	649
Ingots, blooms, billets	282 240	282 820	215 943	454 117	260
Chile					
Pig-iron (b)	518	395	3 501	...	...
Ferro-manganese	—	2	52	...	...
Ferro-chrome	658	131	504	...	...
Other ferro-alloys	460	92	184	...	...
Colombia					
Pig-iron	2 575	25	...	...	...
Ingots, blooms, billets	16 513	...	...	...	...
Ferro-manganese	3 705	4 681	...	...	...
Ferro-silico-manganese	365	79	...	...	...
Ferro-silicon	697	2 058	...	...	...
Ferro-chrome	45	74	...	...	...
Other ferro-alloys	136	151	...	...	...
Scrap	2 107	12 582	...	...	...
Guyana					
Pig-iron & ingots	307	64	139	...	...
Uruguay					
Ingots	...	...	26 881	19 623	...
Ferro-alloys	188	128	284	234	...
Venezuela					
Pig-iron	25 875	133 279	65 437	139 599	...
Ferro-alloys	7 727	14 831	21 868	9 909	...
Scrap	292 437	69 597	164 736	56 174	...
Ingots, blooms, billets	1 014	1 457	1 698	413 260	...

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Burma					
Pig-iron (d)	1 202	2 957	1 530	...	...
Ingots, blooms, billets	14 682	13 263	6 948	...	...
China					
Pig-iron & ferro-alloys	* 474 000	* 756 000	* 692 000	...	...
Scrap	* 163 000	* 518 000	* 173 000	...	...
Cyprus					
Pig-iron	147	855	662	524	553
Hong Kong					
Pig-iron	8 739	12 808	6 195	14 858	16 449
Ferro-manganese	454	407	710	230	958
Other ferro-alloys	127	181	325	425	308
Ingots, blooms, billets	40 551	107 271	80 939	73 628	70 575
Old & scrap	51 757	78 250	104 663	49 136	121 651
Tin-plate scrap	76	167	670	170	640
India					
Ingots, blooms, billets (e)	99 062	16 564	13 592	23 094	4 685
Ferro-chrome	7	6	29	11	106
Ferro-manganese	3	26	7	—	—
Ferro-silicon	1 198	33	66	76	43
Ferro-molybdenum	108	2	80	271	128
Other ferro-alloys	288	352	855	507	517
Old & scrap	12 011	21 108	12 013	15 714	28 135
Iran (f)					
Pig-iron	4 756	13 300	17 193	6 194	9 810
Ingots, blooms, billets	22 387	254 913	196 452	507 814	266 549
Ferro-manganese	...	4 036	2 137	6 231	2 214
Other ferro-alloys	5 225	18 055	5 589	7 119	11 731
Old & scrap	12 525	15 084	6 129	7 238	502
Iraq					
Pig-iron	348	1 028	27 955	7 509	...
Israel (I)					
Pig-iron	13 000	8 429	6 472	1 408	451
Spiegeleisen	—	1 101	—	...	400
Ferro-manganese	260	700	520	631	25
Other ferro-alloys	778	850	770	190	509
Ingots, blooms, billets	86 493	61 800	70 900	17 125	24 567
Japan					
Pig-iron	1 003 412	1 528 391	1 232 076	370 787	531 925
Ferro-manganese	220	22 080	16 153	1 900	1 850
Ferro-silicon	17 130	47 853	70 658	33 905	46 717
Ferro-chrome	14 409	31 371	38 815	29 104	93 002
Ferro-nickel	6 662	11 718	18 001	9 858	14 307
Ferro-molybdenum	516	2 291	2 172	646	1 036
Ferro-tungsten	77	598	231	121	555
Other ferro-alloys	20 678	26 943	40 624	14 654	21 647
Ingots, blooms, billets	64 001	131 531	132 252	69 389	111 682
Old & scrap	2 499 307	5 409 393	3 559 283	3 092 847	1 802 320
Jordan					
Pig-iron	5 000	26 223	30 694	13 401	10 030
Ingots, blooms, billets	22 412	...	...	24 196	87 678
Korea, Republic of					
Pig-iron	82 540	85 969	90 735	75 201	8 770
Ferro-chrome	84	404	424	412	904
Ferro-manganese	152	570	2 926	494	1 245
Other ferro-alloys	125	181	185	247	1 469
Scrap	520 124	805 660	1 119 543	844 193	1 093 699
Ingots & blooms	163 258	413 167	108 155	191 431	132 882
Kuwait					
Scrap	4 826	8 477	9 942	5 828	...
Lebanon					
Pig-iron	10 552	15 925	...	...	...
Ferro-alloys	134	101	...	...	...
Old and scrap	8 185	41 552	...	...	...
Ingots & blooms	162 834	216 150	...	...	...

Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1972	1973	1974	1975	1976
Malaysia (j)					
Pig-iron	1 018	8 855	7 462	8 520	7 093
Ferro-manganese	2 321	2 408	3 299	1 407	1 824
Other ferro-alloys	1 179	2 269	1 519	1 437	1 191
Ingots & slabs	21 994	19 442	8 423	10 017	24 724
Scrap	10 267	2 335	8 678	4 443	2 478
Philippines					
Pig-iron	32 710	22 255	45 903	28 102	62 851
Ferro-alloys	3 856	5 142	10 861	3 019	2 001
Ingots, blooms, billets	165 619	103 530	207 294	152 727	259 707
Scrap	44 607	4 314	17 316	61 363	95 715
Sabah (k)					
Ingots	452	1 817	569	...	...
Singapore					
Pig-iron (d)	32 470	31 713	26 261	71 901	21 800
Ferro-alloys	1 523	6 080	4 543	3 006	4 787
Ingots & blooms	17 089	38 235	38 052	101 024	136 697
Scrap	106 354	61 591	33 099	96 052	54 754
Sri Lanka					
Ingots, blooms, billets	...	...	35 001	19 075	16 537
Syria					
Pig-iron	1 636	1 663	1 491	2 889	10 682
Ingots, blooms, billets	65 975	66 073	25 404	23 576	204 797
Scrap	3 651	4 045	2 901	4 153	6 105
Taiwan					
Pig-iron	13 382	68 973	52 158	6 213	68 556
Ingots, blooms, billets	23 695	58 914	70 437	16 496	81 305
Ferro-manganese	216	303	2 271	215	421
Ferro-silicon	96	44	...	83	110
Ferro-chrome	271	279	296	94	297
Other ferro-alloys	129	263	348	170	5 260
Old & scrap	603 362	715 759	785 874	407 913	297 090
Thailand					
Pig-iron (d)	488	68	2 133	2 313	553
Ferro-alloys	3 922	4 392	4 838	3 918	5 124
Scrap	280 654	365 891	255 920	257 187	275 609
Australia					
Ferro-manganese (i)	9 251	7 518	10 874	4 424	4 882
Ferro-chrome	5 184	10 616	13 816	4 964	6 019
Ferro-molybdenum	106	273	620	149	92
Ferro-silicon	8 318	11 020	17 618	17 161	11 800
Ferro-nickel	751	1 648	1 506	1 207	5
Other ferro-alloys	2 313	3 261	3 313	2 502	3 799
Ingots & billets	1 510	553	1 306	1 023	300
Scrap (h)	187	141	114	492	359
New Zealand (h)					
Pig-iron	5 155	3 516	4 277	4 307	2 718
Spiegeleisen	100	257	209	50	142
Ferro-manganese	997	2 374	2 041	3 096	993
Other ferro-alloys	477	1 274	1 905	2 085	1 022
Billets & blooms	2 217	29 554	17 071	23 024	7 095
Solomon Islands					
Billets & blooms	1 037	1 050	895	1 313	575

(a) Excluding ships intended for breaking up

(b) Including spiegeleisen

(c) Excludes imports from Belgium-Luxembourg, if any

(d) Including cast iron

(e) Years ended 31 March following that stated

(f) Years ended 20 March following that stated

(g) Exports from Soviet Union

(h) Years ended 30 June of that stated

(i) Including powder

(j) From 1975 includes Sabah and Sarawak

(k) From 1975 included with Malaysia

(l) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

(m) Excluding high carbon steel, if any

Production of Kaolin

Country	1972	1973	1974	1975	1976
United Kingdom	2 961 000	3 409 000	(a) 3 023 000	(a) 2 266 000	(a) 2 533 000
Belgium	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
Denmark (a)	55	84	67	195	* 80
France (b)	583 764	666 114	723 311	304 757	300 000
Germany, Federal Republic of (i)	368 821	381 900	395 000	335 000	365 000
Italy	71 051	72 208	90 081	76 800	81 709
Austria (d)	329 336	300 742	312 425	281 200	270 742
Bulgaria	* 150 000	* 150 000	* 150 000	* 150 000	* 150 000
Czechoslovakia (c)	422 000	450 000	484 000	526 000	545 000
Greece	70 586	80 136	66 651	73 785	70 350
Hungary (c)	65 000	83 000	79 000	89 000	72 000
Poland	76 200	72 900	85 600	83 800	94 800
Portugal (d)	44 636	53 602	60 724	51 708	50 516
Romania	* 50 000	* 50 000	* 87 400	* 87 400	* 90 000
Soviet Union	* 2 000 000	* 2 100 000	* 2 100 000	* 2 200 000	* 2 200 000
Spain (h)	135 491	136 384	202 057	207 378	207 180
Sweden (h)	68	124	50	—	...
Yugoslavia (h)	28 000	46 000	46 000	44 000	...
Algeria	4 279	6 350	9 072	10 500	* 11 000
Angola	416	667	0	0	—
Egypt	24 629	30 305	25 840	33 364	28 267
Ethiopia	* 26 000	* 27 000	* 40 000	* 50 000	* 50 000
Kenya	718	947	—	—	2
Madagascar	...	1 823	3 505	4 307	25 397
Mozambique	1 662	572	475	454	* 450
South Africa	38 218	38 615	48 844	56 808	59 733
Swaziland	2 177	1 602	2 236	2 660	989
Tanzania	1 460	870	792	1 004	* 1 000
Mexico	71 891	94 364	93 372	120 440	71 350
USA (e)	4 824 080	5 437 193	5 799 475	4 839 059	5 559 011
Argentina	90 321	99 205	93 237	113 482	83 726
Brazil (d)	542 718	515 333	591 348	617 884	710 254
Chile	67 056	44 753	75 000	60 000	67 000
Colombia	101 056	* 100 000	* 105 000	* 125 000	* 150 000
Ecuador	1 600	1 068	1 737	2 270	* 2 300
Paraguay	* 4 000	* 8 000	* 12 000	* 12 000	* 14 000
Peru	1 086	1 180	4 077	9 516	* 10 000
Bangladesh	* 2 000	* 6 000	1 200	4 472	3 367
Hong Kong	3 162	6 753	3 320	1 490	1 305
India (c)	404 935	374 244	426 000	371 000	433 000
Indonesia (c)	6 013	29 610	25 972	25 132	* 25 000
Iran	55 000	* 75 000	* 100 000	* 100 000	127 400
Japan	126 654	399 034	413 329	215 607	212 965
Korea, Republic of	108 205	208 537	271 812	381 734	379 595
Malaysia	104 978	105 398	146 371	16 807	26 252
Pakistan	3 582	789	983	1 424	572
Sri Lanka	3 946	4 868	5 888	3 698	4 360
Thailand	15 289	18 995	60 878	15 782	16 660
Australia (c)(f)	65 663	79 973	98 152	80 674	69 303
New Zealand	9 000	9 218	16 711	26 997	58 834
World total (g)	14 200 000	15 900 000	16 500 000	14 200 000	15 400 000

(a) Sales

(b) Including kaolinitic clay

(c) Partly beneficiated material

(d) Crude

(e) Sold or used by producers

(f) White clays: including kaolin and ball clay

(g) Other countries known to produce kaolin include China, German Democratic Republic, Lebanon, Nigeria, Rhodesia, Republic of Vietnam and Turkey

(h) Beneficiated

(i) Washed and calcined

Exports of Kaolin

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	2 071 930	2 392 175	2 456 640	1 767 802	2 061 921
Belgium-Luxembourg	10 981	15 175	8 778	3 656	9 220
France	101 811	91 781	135 397	110 954	104 472
Germany, Federal Republic of	101 855	101 145	111 390	108 378	97 734
Italy	1 659	32 019	47 834	40 918	51 012
Netherlands	50 274	53 905	64 825	52 192	71 535
Austria	16 501	17 615	26 648	13 188	16 630
Czechoslovakia	243 000	266 000	297 000	296 000	397 000
Germany, Democratic Republic	105 334	90 459	95 443	80 250	108 260
Portugal	2 094	266	535	3	0
Soviet Union (b)	36 507	28 303	33 817	—	—
Spain	55 369	62 699	61 973	47 693	59 237
Sweden	131	259	263	147	78
Turkey	7 774	5 957	13 285	1 506	66
Algeria	1 682	1 028	4 233	800	...
South Africa	336	629	2 135	634	941
Swaziland	2 177	1 598	2 236	2 642	989
USA	606 113	664 664	772 369	798 140	764 135
Argentina	66	77	117	...	...
Brazil	2 511	2 878	3 224	2 845	815
Hong Kong	6 085	4 884	4 031	1 932	1 830
India	991	759	3 239	1 818	3 778
Japan	5 511	3 836	3 995	4 341	3 926
Korea, Republic of	77 694	112 358	164 092	109 340	119 818
Malaysia (a)	5 187	9 842	14 617	9 865	11 921
Singapore	191	868	244	144	611

(a) From 1975 includes Sabah and Sarawak

(b) Imports from Soviet Union into Japan

Imports of Kaolin

Country	1972	1973	1974	1975	1976
United Kingdom	3 196	4 588	9 588	9 466	5 350
Belgium-Luxembourg	229 540	277 598	301 766	237 206	252 834
Denmark	36 580	41 725	50 828	29 721	25 162
France	304 567	348 505	353 893	278 500	288 500
Germany, Federal Republic of	644 508	714 497	767 992	554 821	653 325
Italy	515 919	635 484	742 567	430 841	565 442
Netherlands	230 129	324 417	412 558	309 345	377 792
Austria	70 478	82 515	95 837	73 043	89 085
Finland	267 921	318 108	379 203	221 627	290 678
German Democratic Republic	25 342	25 894	28 873	32 128	27 825
Hungary	23 632	22 019	24 423	28 533	28 797
Norway	73 946	85 406	86 521	77 800	76 585
Poland	119 592	129 354	127 871	155 699	163 651
Portugal	5 335	5 827	7 406	4 760	6 211
Romania	33 000	32 800	...	...	...
Spain	92 468	106 676	139 804	121 382	134 504
Sweden	212 241	253 645	262 728	222 855	224 857
Turkey	4 322	37	2 599	5 334	4 973
Yugoslavia	38 330	48 768	48 332	59 528	60 389
Algeria	5 867	7 500	6 281	1 040	8 541
Angola	44	92	...	...	...
Morocco	3 050	3 904	4 959	1 868	4 583
Canada	210 499	185 455	181 260	148 378	176 751
Costa Rica	854	802	991	810	1 694
Guatemala	3 542	4 286	2 572	3 419	13 457
Mexico	28 955	34 533	41 921	32 696	39 598
Nicaragua	...	4 525	6 163	3 324	...
USA	23 116	31 028	17 337	17 351	20 962
Argentina	12 536	15 513	17 812	12 400	16 853
Brazil	6 543	10 831	20 312	3 877	14 812
Chile	1 374	669	563	...	...
Colombia	3 736	2 732	...	...	...
Uruguay	1 392	1 739	2 356	1 114	...
Venezuela	10 311	17 824	17 075	16 542	...
Hong Kong	769	2 567	2 380	5 653	3 387
India	239	92	310	10	5
Iran (a)	9 482	13 194	17 034	18 848	22 663
Japan	275 529	342 486	351 372	284 389	373 820
Korea, Republic of	2 852	10 828	12 676	8 129	14 301
Malaysia (c)	1 234	1 100	1 457	1 313	1 544
Philippines	5 023	5 844	8 545	4 686	5 226
Singapore	1 568	3 936	4 171	2 464	2 741
Taiwan	16 490	27 913	30 219	20 857	28 119
Thailand	5 160	7 174	5 055	2 546	6 844
Australia	30 584	35 160	36 495	1 718	5 262
New Zealand (b)	1 961	2 194	1 998	2 288	1 394

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

(c) From 1975 includes Sabah and Sarawak

Mine Production of Lead

tonnes (metal content)

Country	1972	1973	1974	1975	1976
United Kingdom	4 500	3 700	3 800	6 400	7 100
France	26 618	25 009	22 976	22 305	27 996
Germany, Federal Republic of	37 559	34 496	30 514	32 343	31 667
Irish Republic	59 622	56 188	37 695	36 247	32 612
Italy	33 700	25 900	23 300	25 500	30 100
Austria	6 668	6 139	5 785	6 101	5 393
Bulgaria	* 102 000	* 105 000	* 110 000	* 114 000	* 117 500
Czechoslovakia	4 917	* 5 300	* 5 400	* 4 700	* 4 700
Finland (a)	3 849	2 134	1 532	900	1 100
German Democratic Republic	* 5 000	* 3 000	—	—	—
Greece	16 235	17 640	22 100	13 206	* 27 000
Greenland	—	—	(c) 37 000	32 000	38 000
Hungary	2 368	2 540	1 239	864	259
Norway	3 419	3 335	3 376	3 229	3 861
Poland	68 000	60 500	64 000	* 65 000	* 65 000
Portugal	1 157	460	—	—	—
Romania	* 40 000	* 45 000	* 45 000	* 45 000	* 45 000
Soviet Union	* 495 000	* 570 000	* 590 000	* 600 000	* 600 000
Spain	69 443	64 408	64 127	58 518	66 396
Sweden	75 841	75 777	73 656	70 383	81 625
Turkey	9 400	9 600	7 400	6 500	4 900
Yugoslavia	120 173	119 312	119 826	126 896	122 500
Algeria	4 989	3 880	3 000	3 200	2 100
Congo	473	1 340	1 650	1 997	2 100
Morocco	86 600	94 000	92 537	67 812	64 146
Namibia	53 000	63 200	55 200	53 100	46 400
Nigeria	* 321	* 356	* 220	* 130	* 130
South Africa	182	2 164	3 316	3 605	—
Tunisia	19 905	15 740	12 664	10 600	10 500
Zambia (b)	26 005	25 015	24 596	18 832	13 583
Canada	370 029	387 768	301 362	340 882	244 000
Guatemala	65	102	112	71	* 100
Honduras	20 725	18 544	18 433	23 263	18 590
Mexico	161 358	179 296	218 021	178 615	200 027
USA (a)	561 470	547 054	602 253	563 783	552 971
Argentina	38 365	35 120	37 826	30 046	33 004
Bolivia	19 200	20 904	17 623	16 018	18 581
Brazil	29 880	25 946	25 922	22 365	22 615
Chile	462	252	420	309	1 816
Colombia	126	153	126	114	* 110
Peru (a)	184 381	183 413	165 798	154 168	169 273
Burma	7 600	9 800	4 500	9 800	7 100
China	* 125 000	* 130 000	* 140 000	* 140 000	* 140 000
India	3 700	7 300	8 900	12 300	12 800
Iran (d)	30 000	37 500	47 500	50 000	35 000
Japan	63 449	52 900	44 248	50 566	51 666
Korea, Dem. P.R. of	* 90 000	* 100 000	* 120 000	* 120 000	* 120 000
Korea, Republic of	14 717	12 870	10 498	12 164	14 533
Philippines	—	—	1 303	3 381	4 530
Thailand	1 712	3 846	1 452	1 443	851
Australia	* 396 000	402 796	375 304	407 801	397 403
World total	3 500 000	3 600 000	3 600 000	3 600 000	3 500 000

(a) Recoverable

(b) Smelter

(c) Includes 5 months production from 1973

(d) Years ended 20 March following that stated

Production of Refined Lead

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom (a)	270 600	265 100	276 900	241 300	251 500
Belgium (a)	106 700	113 688	109 608	114 948	121 524
Denmark	12 000	13 400	14 900	13 700	18 600
France	186 853	186 410	177 738	150 746	172 231
Germany, Federal Republic of	273 443	302 577	321 402	260 166	278 305
Italy	69 200	46 600	65 200	43 900	64 200
Netherlands	22 000	25 300	26 400	23 900	21 900
Austria (a)	15 418	14 740	14 668	14 792	16 191
Bulgaria	* 102 000	* 100 000	* 105 000	* 110 000	* 112 000
Czechoslovakia	18 163	16 724	17 870	18 447	19 116
German Democratic Republic (a)	* 33 000	* 35 600	* 35 000	* 36 000	* 36 000
Greece	20 400	24 000	14 600	16 300	18 600
Norway	700	900	1 200	600	—
Poland	65 300	68 400	71 600	76 200	80 600
Portugal	717	841	687	340	388
Romania	* 45 000	* 45 000	* 45 000	* 48 000	* 48 000
Soviet Union	* 600 000	* 640 000	* 660 000	* 660 000	* 600 000
Spain	84 400	90 700	82 000	80 100	77 800
Sweden	47 594	46 681	45 247	38 673	49 822
Turkey	2 400	5 500	5 600	3 000	3 200
Yugoslavia	87 500	98 033	114 001	125 691	111 000
Morocco	—	—	—	7 900	26 400
Namibia	64 700	66 700	64 200	44 300	39 600
Tunisia	25 900	26 900	27 500	23 700	23 500
Zambia	26 005	25 015	24 596	18 832	13 583
Canada	186 860	186 891	126 443	171 516	175 700
Guatemala	* 100	65	175	189	* 200
Mexico	137 391	154 143	182 668	154 261	163 189
USA	617 248	611 911	610 557	577 080	592 306
Argentina	35 300	32 200	37 200	36 000	50 000
Brazil	25 007	38 400	41 686	37 540	43 672
Peru	86 009	83 268	80 557	71 142	74 100
Burma	7 600	9 800	4 900	3 200	3 100
China (a)	* 125 000	* 130 000	* 140 000	* 140 000	* 140 000
India	2 740	2 636	3 986	4 769	5 435
Japan	223 226	228 036	227 960	194 217	219 053
Korea, Dem. P.R. of	* 70 000	* 70 000	* 80 000	* 80 000	* 70 000
Korea, Republic of	3 807	4 640	4 606	5 739	7 781
Australia	179 743	190 350	192 757	159 793	181 941
World total	3 900 000	4 000 000	4 100 000	3 800 000	3 900 000

(a) Including secondary metal

Exports of Lead

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	5 832	9 173	5 871	10 414	9 272
Unwrought	117 968	117 552	116 560	79 643	77 072
Unwrought alloys	29 528	29 929	22 590	26 889	26 562
Scrap	550	7 422	24 856	19 046	11 616
Belgium-Luxembourg					
Ore	23	526	4 866	2	7
Unwrought	38 191	58 792	47 996	55 387	67 383
Unwrought alloys	8 405	9 224	4 872	5 102	5 827
Scrap	8 919	10 262	11 253	6 642	8 328
Denmark					
Unwrought	733	1 722	2 857	1 362	4 028
Unwrought alloys	3 057	3 500	5 129	3 933	6 892
Scrap	650	2 169	621	402	468
France					
Ore	95	105	104	7 513	64
Unwrought	10 469	10 994	6 878	7 807	16 829
Unwrought alloys	8 753	13 836	12 891	13 357	16 016
Scrap	14 140	18 507	14 035	5 139	15 055
Germany, Federal Republic of					
Ore	1 548	645	3 689	3 434	7 094
Unwrought (a)	66 645	65 871	87 750	80 902	72 198
Scrap	14 920	15 543	16 701	17 769	21 710
Irish Republic					
Ore & concentrates	123 628	126 175	74 195	58 641	56 836
Unwrought (a)	—	1 375	3 825	2 029	2 194
Scrap	2 687	...	...	...	...
Italy					
Ore	23 362	13 130	12 584	20 017	26 554
Unwrought (a)	446	1 846	1 602	3 529	4 145
Netherlands					
Unwrought	11 964	8 854	10 620	12 218	7 795
Unwrought alloys	10 486	16 418	9 757	12 376	15 118
Scrap	17 267	19 565	21 602	11 611	16 671
Austria					
Unwrought	681	167	908	404	204
Scrap	—	125	499	638	877
Finland					
Ore	5 911	11 627	3 803	...	4 089
Unwrought (a)	1	88	195	66	9
Greece					
Ore	12 050	16 000	28 480	12 988	37 708
Norway					
Ore	6 015	6 533	6 015	4 100	4 599
Unwrought (a)	663	520	362	575	430
Scrap	5 501	4 554	4 748	4 744	7 017
Poland					
Concentrates	5 138	33 521	25 522	15 263	17 827
Portugal					
Ore	1 735	1 335	...	—	—
Unwrought (a)	360	43	21	3	40
Soviet Union					
Unwrought	92 600	97 000	95 513	98 889	99 000
Spain					
Unwrought (a)	285	38	342	1 563	1 444
Sweden					
Ore	55 129	57 129	46 690	49 520	61 036
Unwrought	35 278	29 193	26 802	26 561	37 590
Unwrought alloys	1 773	1 620	2 310	1 487	1 621
Scrap	—	13	25	0	118
Switzerland					
Unwrought	1 020	1 359	1 391	1 768	1 512
Scrap	7 169	9 606	9 105	5 485	7 549
Turkey					
Ore (e)	11 351	8 390	40 123	4 875	...
Concentrates	—	—	850	1 750	9 450

Exports of Lead

Lead
tonnes

Country	1972	1973	1974	1975	1976
Yugoslavia					
Unwrought	39 152	40 014	44 556	50 845	47 035
Unwrought alloys	656	467	281	178	118
Concentrates	21 890	18 220	23 289	...	11 288
Algeria					
Ore	6 151	5 085	77 183	4 695	...
Ivory Coast					
Scrap	351	...	947	324	434
Kenya					
Ores & concentrates	...	...	797	1 774	800
Scrap	...	...	689	2 431	459
Morocco					
Ore	138 194	136 144	125 905	74 762	71 239
Unwrought	...	...	...	5 364	17 547
Nigeria					
Ore & concentrates	173	314	242	177	40
Senegal					
Unwrought & scrap	211	189	148	165	...
South Africa					
Concentrates	5 504	1 687	1 141	5 557	1 626
Unwrought	40 332	49 304	34 700	26 800	16 700
Sudan					
Scrap	150	238	100	830	598
Tanzania					
Scrap	...	...	292	253	145
Tunisia					
Ore	6 266	6 176	...	...	5 859
Unwrought	13 170	15 422	23 578	20 132	20 750
Scrap	600	...	24 478	450	—
Zambia					
Unwrought	26 684	20 012	18 776	17 900	15 000
Canada					
Ore (b)	161 990	201 765	194 089	211 909	140 942
Unwrought	128 912	113 672	76 027	110 776	114 551
Scrap	11 213	21 789	9 868	12 144	14 911
Honduras					
Ore & concentrates	...	...	...	36 604	28 651
Mexico					
Ores & concentrates	199	3 224	17 263	10	7 434
Unwrought –					
Refined	66 253	56 013	108 104	98 338	56 354
Base bullion	8 617	8 030	5 348	3 368	9 116
Antimonial lead	20	34	...	...	...
USA					
Lead & zinc concentrates	39 776	94 510	100 857	141 391	135 988
Unwrought	4 658	45 213	43 645	16 028	2 020
Unwrought alloys	1 334	4 929	6 857	846	1 946
Scrap	32 190	54 390	53 932	45 400	42 553
Bolivia					
Ore (b)	19 047	20 152	19 353	17 665	18 580
Chile					
Ore & concentrates	...	347	...	...	...
Colombia					
Ore	411	452	...	...	...
Peru					
Refined (b)	74 777	60 738	80 465	62 474	...
Ores & concentrates (b)	109 136	188 611	83 633	65 397	...
Burma					
Unwrought	8 582	7 500	4 713	6 796	...
Hong Kong					
Scrap	5 204	4 102	1 927	1 258	2 001
Iran (c)					
Ore	66 765	88 764	45 813	82 381	4 444

Exports of Lead

tonnes

Country	1972	1973	1974	1975	1976
Japan					
Ores & concentrates	1 466	...	7 405	...	3 728
Unwrought (a)	4 722	4 272	33 097	39 494	8 641
Scrap	878	1 019	1 131	1 468	2 855
Korea, Republic of					
Ore	16 650	15 979	7 638	6 710	8 360
Thailand					
Ore	2 160	1 520	170	821	1 234
Australia					
Ore & concentrates (b)(d)	45 680	55 175	45 599	61 000	40 278
Base bullion (b)	144 997	145 458	148 302	142 414	172 032
Unwrought	137 469	139 958	133 264	116 254	157 852
Unwrought alloys	3 831	6 662	5 587	4 950	6 644
Scrap	288	596	786	1 162	1 027

Note: In this table the description 'unwrought' lead corresponds to item 685.1 of the Standard International Trade Classification (Revised) and comprises base bullion, pigs, unwrought bars, etc

(a) Including alloys

(b) Pb content

(c) Years ended 20 March following that stated

(d) Including lead content of matte, slags, etc

(e) Complex lead-zinc ore

Imports of Lead

Country	1972	1973	1974	1975	1976
United Kingdom					
Ore & concentrates (b)	22 774	30 611	42 664	29 563	12 724
Unwrought (a)	206 889	216 046	216 756	201 968	236 716
Scrap	3 034	2 630	3 685	1 560	1 762
Belgium-Luxembourg					
Ore	113 813	105 161	88 030	90 268	132 588
Unwrought	12 241	9 422	19 243	16 203	28 334
Unwrought alloys	4 073	4 192	5 543	4 133	5 048
Scrap	12 093	12 445	11 497	12 439	9 619
Denmark					
Unwrought	9 171	8 403	10 922	6 245	6 516
Unwrought alloys	1 156	1 105	1 371	1 376	835
Scrap	6 401	6 848	5 631	6 013	12 545
France					
Ore	159 837	150 422	165 544	129 816	96 536
Unwrought	34 286	30 556	36 652	50 825	47 433
Unwrought alloys	5 992	8 214	7 288	6 973	8 955
Scrap	13 393	12 619	21 757	12 575	6 611
Germany, Federal Republic of					
Ore	200 859	162 265	184 036	208 978	190 104
Unwrought (a)	122 025	136 143	128 693	122 829	110 453
Scrap	17 052	31 007	35 773	10 205	23 769
Irish Republic					
Unwrought (a)	1 981	2 293	1 691	1 679	2 424
Italy					
Ore	24 699	38 478	61 144	13 616	19 969
Unwrought (a)	150 831	142 436	164 623	129 511	159 586
Scrap	20 874	20 383	30 213	18 531	22 312
Netherlands					
Unwrought	37 360	38 459	38 265	35 823	39 641
Unwrought alloys	13 356	13 213	8 623	8 056	12 216
Scrap	12 885	35 606	20 489	19 291	9 805
Austria					
Ore	7 145	6 391	5 116	7 424	7 561
Unwrought	14 814	15 453	20 199	15 909	22 999
Scrap	1 169	662	1 133	1 609	2 435
Finland					
Unwrought (a)	12 267	10 192	13 549	13 982	14 605
Greece					
Ore	20 308	16 007	4 848	7 614	19 294
Unwrought	18 702	18 238	14 763	7 875	9 995
Hungary					
Unwrought & semi-manufactures	11 208	12 991	12 051	12 392	14 319
Iceland					
Unwrought	66	82	60	17	98
Norway					
Unwrought	8 710	9 643	9 224	8 224	7 211
Unwrought alloys	2 994	2 941	4 479	4 647	7 453
Poland					
Unwrought	16 504	23 195	20 298	13 170	12 076
Portugal					
Unwrought (a)	10 493	9 955	14 086	8 362	13 796
Scrap	261	309	263	77	182
Soviet Union					
Unwrought	50 400	59 300	77 214	56 700	60 000
Spain					
Ore	24 727	33 011	14 638	26 028	17 887
Unwrought (a)	3 511	6 338	22 663	6 848	8 995
Scrap	127	984	1 214	454	2 494
Sweden					
Unwrought	2 459	912	4 753	3 176	2 031
Unwrought alloys	2 171	3 232	3 693	1 497	2 541
Scrap	2 546	2 078	1 740	1 452	2 456
Switzerland					
Unwrought	21 830	17 034	22 378	14 355	14 748

Imports of Lead

tonnes

Country	1972	1973	1974	1975	1976
Turkey					
Unwrought (a)	6 590	4 468	9 192	4 724	7 468
Scrap	53	213	1 829	2 069	1 286
Yugoslavia					
Concentrates	3 048	3 768	6 233	20 106	8 123
Unwrought	5 093	12 880	16 149	15 597	3 824
Scrap	...	1 173	2 088	3 130	938
Algeria					
Unwrought (a)	3 011	3 638	4 641	8 985	3 961
Egypt					
Unwrought & scrap	8 059	6 220	5 994	15 242	...
Ghana					
Unwrought (a)	131	127	190	141	...
Kenya					
Unwrought (a)	537	729	2 204	329	563
Libya					
Unwrought	726	1 315	1 464	3 358	343
Madagascar					
Unwrought (a)	344	328	393	377	223
Mauritius					
Unwrought (a)	13	18	3	8	...
Morocco					
Unwrought	1 861	2 166	2 021	2 084	225
Unwrought alloys	110	232	118	205	84
Mozambique					
Unwrought	428	472	3 883	268	478
Nigeria					
Unwrought (a)	848	808	51	115	154
South Africa					
Ore	11 025	10 420	25 508	1 004	5 766
Unwrought	10 046	6 129	4 043	3 297	5 009
Scrap	1 928	2 684	4 665	8 299	12 474
Sudan					
Unwrought	85	254	204	88	360
Tanzania					
Unwrought (a)	110	190	29	32	38
Tunisia					
Ore	200	...	26 715	24 089	18 523
Uganda					
Unwrought (a)	40	...	34	...	2
Barbados					
Unwrought (a)	34	36	63	25	20
Canada					
Unwrought	10 603	3 639	11 357	1 962	1 941
Costa Rica					
Unwrought & semi-manufactures (a)	94	177	243	144	277
El Salvador					
Unwrought (a)	317	250	50	164	65
Honduras					
Unwrought (a)	22	21	85	75	95
Jamaica					
Unwrought (a)	81	67	41	186	...
Mexico					
Unwrought	10	13	12	309	465
Nicaragua					
Unwrought (a)	...	239	171	166	...
Trinidad & Tobago					
Unwrought (a)	13	98	223	177	286

Imports of Lead

tonnes

Country	1972	1973	1974	1975	1976
USA (b)					
Ores & concentrates	91 881	92 858	85 546	79 434	69 278
Base bullion	812	4	754	419	2 117
Unwrought	208 980	151 321	96 778	79 589	119 852
Unwrought alloys	10 911	10 244	10 603	11 593	8 454
Scrap	692	949	713	1 177	2 023
Argentina					
Unwrought	1 913	681	1 763	6 115	299
Brazil					
Unwrought (a)	8 025	20 352	20 168	13 254	9 144
Chile					
Unwrought & scrap	4 091	3 212	3 306	...	...
Colombia					
Unwrought (a)	1 934	3 355	...	...	...
Ecuador					
Unwrought	268	...	...	...	...
Guyana					
Unwrought & semi-manufactures (a)	161	199	123	...	...
Uruguay					
Unwrought	671	704	892	1 191	...
Venezuela					
Unwrought (a)	3 268	1 295	524	3 194	...
China					
Unwrought (a)	* 7 300	* 10 000	* 3 100	...	...
Hong Kong					
Unwrought	393	520	675	508	1 017
Scrap	3 819	3 812	1 116	96	540
India					
Ore	9	28	18	30	145
Unwrought (c)	41 352	35 030	36 697	22 251	45 825
Unwrought alloys (c)	30	37	412	1 575	412
Indonesia					
Unwrought (f)	1 459	3 023	2 235	2 598	3 414
Iran (d)					
Unwrought	2 098	2 682	6 016	602	1 001
Iraq					
Unwrought (a)	1 342	523	2 676	19	...
Israel (g)					
Unwrought	2 036	1 117	1 100	106	1
Japan					
Ore	198 948	242 753	217 568	200 758	154 601
Unwrought	4 320	59 560	33 731	15 822	32 203
Unwrought alloys	921	4 923	2 823	1 380	2 826
Scrap	4 133	7 928	1 677	1 103	1 402
Jordan					
Unwrought	3 030	2 335	1 770	1 760	3 176
Korea, Republic of					
Ore	3 960	1 410	1 138	...	...
Unwrought (a)	2 984	4 760	6 812	4 528	6 568
Scrap	1 229	8 194	6 907	3 728	4 394
Lebanon					
Unwrought & scrap	1 333	1 987	...	...	...
Malaysia (h)					
Unwrought (a)	271	1 146	1 034	1 000	1 497
Scrap	615	206	1 172	739	903

Imports of Lead

tonnes

Country	1972	1973	1974	1975	1976
Philippines					
Unwrought (a)	5 652	5 094	4 565	6 354	4 978
Singapore					
Unwrought	1 058	3 031	3 524	2 590	3 629
Syria					
Unwrought & scrap	1 672	1 251	1 310	2 547	3 169
Taiwan					
Unwrought	5 532	6 281	4 384	5 171	6 341
Scrap	1 787	5 372	3 350	4 474	7 575
Thailand					
Unwrought	4 155	6 961	5 396	(a) 7 779	(a) 7 528
New Zealand (e)					
Unwrought (a)	7 032	6 126	7 529	7 770	8 889

Note: In this table the description 'unwrought' lead corresponds to item 685.1 of the Standard International Trade Classification (Revised) and comprises base bullion, pigs, unwrought bars, etc

(a) Including alloys

(b) Pb content

(c) Years ended 31 March following that stated

(d) Years ended 20 March following that stated

(e) Years ended 30 June of that stated

(f) Up to 1974 including semi-manufactures

(g) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

(h) From 1975 includes Sabah and Sarawak

Production of Manganese Ore

tonnes

Country		1972	1973	1974	1975	1976
Italy	(27%)	25 637	25 529	14 008	—	4 461
Bulgaria	(28%)	30 000	38 000	34 000	35 000	40 000
Czechoslovakia (d)	(17%)	—	1 000	973	999	1 100
Greece	(49%)	5 305	6 222	7 950	8 284	6 730
Hungary	(23%)	155 000	136 000	114 000	131 000	125 000
Portugal	(38%)	5 348	187	71	—	—
Romania	(22%)	* 130 000	* 140 000	* 140 000	* 140 000	...
Soviet Union	(35%)	7 819 000	8 245 000	8 155 000	8 459 000	* 8 500 000
Spain	(31%)	13 171	6 792	—	—	—
Turkey	(40%)	15 100	5 552	3 240	18 637	33 783
Yugoslavia	(34%)	15 340	9 718	13 000	17 000	19 000
Angola	(38%)	24 200	6 238	...	...	...
Botswana	(40%)	687	340	8	...	...
Egypt	(35%)	2 409	2 636	4 947	3 581	4 256
Gabon	(50%)	1 936 660	1 978 359	2 137 932	2 245 000	2 217 000
Ghana	(48%)	508 838	290 130	252 130	408 742	312 000
Morocco	(50%)	96 067	146 149	174 691	130 947	117 304
South Africa (e)	(45%)	3 373 160	4 242 157	4 834 988	5 880 735	5 503 222
Sudan	(41%)	* 1 200	782	...	...	465
Zaire	(48%)	369 481	333 963	308 775	308 525	* 260 000
Mexico	(35%)	295 600	364 000	403 100	428 500	452 800
USA (a)	(13%)	134 026	184 425	247 578	144 447	232 813
Argentina	(30%)	14 289	12 588	26 062	51 219	53 086
Brazil	(45%)	1 715 063	1 518 585	1 678 096	2 033 279	1 545 429
Chile	(41%)	16 085	15 405	28 695	20 016	23 639
Peru	(37%)	9 089	7 779	1 634	740	2 045
China	(30%)	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
India (f)	(35%)	1 642 456	1 488 939	1 501 856	1 605 000	1 835 000
Indonesia	(40%)	7 500	16 077	18 037	13 870	8 780
Iran (b)	(34%)	9 700	* 22 000	* 30 000	* 36 000	40 000
Japan	(31%)	260 747	188 573	166 578	157 931	141 742
Korea, Republic of	(42%)	1 999	1 721	2 107	3 160	1 383
Malaysia (d)		28 312	28 346	85 262	133 308	94 112
Philippines	(40%)	2 411	3 973	857	—	10 576
Thailand	(48%)	19 852	36 318	28 966	24 914	50 225
Australia	(48%)	1 164 831	1 522 424	1 521 989	1 554 909	2 154 167
New Hebrides	(42%)	27 801	30 133	33 624	39 817	31 444
World total (c)		20 900 000	22 100 000	23 000 000	25 000 000	25 000 000

Note: Figures shown in this table refer to gross tonnage of ore mined; estimated average Mn content is given in parentheses for each country

- (a) Shipments of manganiferous iron ore only
(b) Years ended 20 March following that stated
(c) Excludes Cuba and Socialist Republic of Vietnam
(d) Manganiferous iron ore
(e) Includes metallurgical, chemical and ferruginous ores
(f) Includes ore grading 54% to less than 35% Mn

Exports of Manganese Ore

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	2 543	3 520	5 613	3 784	8 087
Belgium-Luxembourg	3 040	2 846	7 634	8 886	9 507
France (a)	3 827	9 923	2 212	4 509	9 225
Germany, Federal Republic of (a)	20 524	4 023	1 295	3 474	4 919
Netherlands	44 427	35 247	33 553	26 030	31 854
Greece	8 009	8 363	7 623	2 966	1 515
Norway	657	3 030	1 831	2 730	420
Portugal	7 360	3 386	3 680	—	14 005
Romania	37 000	20 800	54 800	29 200	—
Soviet Union	1 291 900	1 306 700	1 482 000	1 411 000	1 342 000
Sweden	303	341	849	413	2 672
Turkey	—	520	2 000	—	20
Yugoslavia	—	380	4 818	5 415	1 611
Angola	38 981	8 162	* 60 000	...	* 32 000
Gabon	2 161 500	1 957 590	2 077 719	1 967 990	(f) * 1 740 000
Ghana	475 250	290 130	280 501	372 902	(f) 355 500
Morocco	117 693	151 108	164 940	110 960	104 438
South Africa (e)	2 450 461	3 677 173	* 3 605 000	* 3 788 000	* 3 472 000
Zaire	304 782	485 000	...	87 570	...
Mexico	144 257	191 242	256 919	199 069	179 165
USA	24 070	57 005	236 618	203 530	173 547
Brazil	1 174 682	788 435	1 483 370	1 556 703	1 072 128
China	* 44 000	* 47 800	* 61 300	...	...
India (b)	860 948	628 898	1 034 603	793 359	714 438
Iran (d)	9 652	* 22 000	* 20 000	* 30 000	...
Japan	3 350	1 812	4 887	3 976	6 128
Malaysia (c)	33 530	62 594	107 663	108 351	23 737
Philippines	3 965	2 464	2 127	1 518	6 800
Singapore	1 095	2 320	2 404	2 808	6 356
Thailand	10 490	17 240	18 780	23 626	42 710
Australia	* 726 000	* 1 116 000	1 203 000	1 133 000	* 1 310 000
Fiji	—	—	559	...	...
New Hebrides	36 695	30 682	47 311	46 250	45 208

(a) Includes manganiferous iron ore

(b) Includes ferruginous manganese ore

(c) From 1975 includes Sabah and Sarawak

(d) Years ended 20 March following that stated

(e) From 1974, IGS estimates, based on known imports into certain countries

(f) IGS estimate, based on known imports into certain countries

Imports of Manganese Ore

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	360 590	588 916	388 151	253 201	498 869
Belgium-Luxembourg	356 520	423 992	400 246	313 263	328 969
Denmark	4 810	3 385	2 816	2 772	2 520
France (b)	1 122 730	1 432 318	1 428 444	1 157 613	1 014 559
Germany, Federal Republic of (b)	475 926	716 337	828 337	733 479	610 496
Italy (b)	272 356	282 057	308 613	315 982	356 078
Netherlands	73 779	79 379	69 681	47 330	45 654
Austria	707	742	898	479	573
Czechoslovakia	388 000	441 000	475 000	456 000	448 000
German Democratic Republic (c)	76 000	61 600	67 400	74 200	79 700
Greece	16 532	2 394	22 570	2 422	11 081
Norway	721 194	714 776	1 033 047	1 072 944	982 384
Poland	505 463	525 488	555 624	555 900	538 351
Portugal	362	123	508	50 617	37 658
Spain	259 677	331 098	384 103	437 378	410 151
Sweden	101 820	60 391	37 870	35 149	40 101
Turkey	7	2 973	3 381	4 852	3 130
Yugoslavia	58 670	56 654	74 136	77 610	101 684
Kenya	305	...	535	639	1 056
South Africa	738	606	1 029	830	3 112
Canada (c)	89 064	133 397	125 103	69 773	118 972
USA (d)	1 469 868	1 369 661	1 111 331	1 427 950	1 194 592
Argentina	41 706	55 919	98 673	77 600	67 263
Brazil	4 437	9 289	11 552	17 682	18 275
Hong Kong	461	662	680	620	547
India	5 298	4 123	2 776	5 430	190
Indonesia	...	3 725	3 281	4 802	4 826
Japan (b)	2 981 118	3 411 606	4 042 317	3 832 379	3 378 130
Korea, Dem. P.R. of	* 21 000	* 21 000	...	...	...
Korea, Republic of	11 644	30 345	56 168	45 550	109 619
Malaysia (a)	282	834	1 179	1 047	2 027
Philippines	5	2 433	1 192	2 571	3 216
Singapore	200	16 222	4 932	23 709	18 293
Taiwan	9 367	10 788	28 885	79 371	41 310
Thailand	424	334	8 292	185	4 838
Australia	4 693	4 475	3 380	179	1 120

(a) From 1975 includes Sabah and Sarawak

(b) Includes manganiferous iron ore

(c) Manganese content

(d) Over 35% Mn

Mercury

Production of Mercury

kilograms

Country	1972	1973	1974	1975	1976
Irish Republic	43 100	46 300	26 800	11 000	—
Italy	1 441 000	1 127 000	897 000	1 092 000	768 000
Czechoslovakia	228 000	224 000	191 000	204 000	191 000
Finland	7 309	6 760	6 310	10 654	13 186
Soviet Union	* 1 724 000	* 1 750 000	* 1 862 000	* 1 898 000	* 1 932 000
Spain	1 861 336	2 139 712	1 897 569	1 621 569	1 384 140
Turkey	260 400	322 126	305 000	186 888	156 129
Yugoslavia	566 000	538 000	546 000	584 000	431 000
Algeria	462 000	455 000	525 000	974 400	1 067 000
Tunisia	8 200	3 850	2 913	—	—
Canada	504 581	430 912	482 622	413 676	—
Mexico	776 000	197 000	894 000	490 000	518 000
USA	253 342	76 771	75 461	253 928	797 464
Chile	22 046	27 496	31 750	3 344	448
Colombia	5 274	5 170	2 700	—	—
Peru	125 182	123 429	112 117	52 739	...
China	* 896 000	* 896 000	* 900 000	* 900 000	* 900 000
Japan	173 036	128 881	19 125	—	—
Philippines	115 207	74 461	28 069	8 414	—
Australia	593	544	71	210	140
World total	9 500 000	8 600 000	8 700 000	8 700 000	8 200 000

Exports of Mercury

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom	71 384	46 904	153 891	54 500	38 741
Belgium-Luxembourg	19 900	50 300	184 100	57 900	34 000
France	10 000	5 000	5 000	2 000	39 000
Germany, Federal Republic of	48 700	35 700	85 900	58 300	70 300
Italy	377 286	645 997	626 663	1 705 200	1 426 507
Netherlands (a)	39 000	17 000	12 000	43 000	79 000
Austria	12 500	11 700	15 900	13 100	12 400
Norway	66 000	16 000	2 000	—	0
Spain	1 068 000	1 643 000	1 346 000	649 000	801 000
Sweden	14 000	10 000	7 000	4 000	16 000
Switzerland	4 117	10 287	4 865	3 336	1 083
Turkey	292 255	276 151	159 142	3 296	108 429
Yugoslavia	471 506	467 135	327 870	289 632	289 632
Algeria	462 000	525 262	530 265	296 625	46 575
Tunisia	1 725	3 105	19 345	...	...
Mexico	824 346	746 189	1 011 514	396 563	296 960
USA	33 202	11 783	16 077	17 003	17 660
Peru	153 820	96 980	93 500	...	...
China	* 50 000	* 68 000	* 150 000	...	...
Japan	12 759	67 402	33 012	66 276	42 166
Philippines	100 444	45 311	8 619	—	...
Singapore	3 586	20 392	576	459	4 125

(a) Excludes exports to Belgium-Luxembourg, if any

Imports of Mercury

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom	785 447	741 719	833 366	734 329	407 550
Belgium-Luxembourg	208 200	79 300	1 985 500	308 900	72 700
Denmark	12 700	14 600	22 700	14 100	19 900
France	257 000	395 000	336 000	268 000	221 000
Germany, Federal Republic of	483 500	668 100	418 900	264 500	686 900
Italy	182 717	182 021	152 258	8 600	26 353
Netherlands (d)	60 000	41 000	72 000	94 000	104 000
Austria	17 700	18 100	32 800	61 700	34 200
Finland	17 700	13 200	23 100	48 000	20 200
Greece	2 338	2 000	2 000	14 000	1 000
Norway	3 000	6 000	6 000	9 000	14 000
Poland	203 000	182 000	205 000	261 000	...
Portugal	24 400	10 500	20 000	15 400	43 800
Sweden	47 000	76 000	73 000	51 000	74 000
Switzerland	54 027	11 177	20 324	25 332	21 311
Yugoslavia	24 150	689	11 385	58 000	15 006
Algeria	3 516	426	1 194	567	...
Angola	1 788	1 668	...	...	...
Morocco	3 386	2 555	2 340	1 653	597
Mozambique	19	118	78	17	—
South Africa	63 100	59 000	62 900	81 700	39 500
Tunisia	1 388	570	72	13 147	524
Canada	79 243	48 172	108 817	73 527	62 641
USA	1 005 979	1 588 370	1 796 138	1 533 075	1 529 407
Argentina	34 572	19 293	59 148	39 745	82 755
Brazil	114 928	128 951	169 263	166 000	179 000
Chile	88	563	7 169	...	...
Colombia	25 964	30 816	...	...	...
Uruguay	1 265	24 180	3 300	...	...
Venezuela	5 391	2 309	5 940	15 723	...
Burma	...	36 019	1 372	...	...
Hong Kong	23 021	24 062	33 982	32 039	93 855
India	187 000	294 000	341 000	242 000	329 000
Indonesia	4 137	2 999	...	23 578	5 688
Iran (b)	17 790	22 794	16 277	27 076	22 600
Iraq	92	2 640	14 512	19 225	...
Israel (e)	11 000	1 000	3 000	1 000	1 000
Japan	448 324	544 467	264 985	88 476	77 299
Korea, Republic of	10 757	28 917	31 349	31 725	42 075
Malaysia (a)	652	2 427	4 654	39 672	12 823
Philippines	213	276	190	5 492	29 966
Singapore	10 106	5 774	11 400	235	9 661
Syria	316	386	1 015	202	705
Taiwan	44 001	58 111	...	123 179	54 407
Thailand	16 858	10 459	8 718	2 117	7 448
Australia	40 974	70 215	47 702	55 616	44 736
New Zealand (c)	6 397	2 925	4 050	2 601	2 521

(a) From 1975 includes Sabah and Sarawak

(b) Years ended 20 March following that stated

(c) Years ended 30 June of that stated

(d) Excludes imports from Belgium-Luxembourg, if any

(e) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Mica

Country	1972	1973	1974	1975	1976
France	3 926	4 296	* 4 000	* 4 000	* 4 000
Norway (b)	(a) 4 126	(a) 4 445	6 465	6 165	(a) 3 100
Soviet Union	* 39 000	* 40 000	* 41 000	* 42 000	* 43 000
Yugoslavia	126	29	87	86	* 80
Madagascar					
Phlogopite (c)	586	888	857	544	69
Mozambique	230	310	852	900	* 900
South Africa					
Sheet	2	—	1	0	0
Waste	4 247	6 009	2 696	2 511	2 380
Tanzania					
Sheet	18	32	9	6	7
Mexico	826	782	844	620	1 303
USA (d)					
Sheet (e)	6	14	* 9	* 2	* 2
Waste (f)	134 157	139 096	124 253	122 091	115 496
Argentina					
Sheet	116	435	426	412	329
Waste	2 640	2 505	2 771	2 490	2 291
Brazil (a)	2 577	1 738	2 613	1 100	2 799
India					
Crude	14 114	13 830	13 804	11 501	9 356
Waste	4 842	5 107	4 876	...	4 227
Sri Lanka	428	272	180	2 504	137
World total (g)	214 000	220 000	206 000	202 000	189 000

(a) Exports

(b) Crude only

(c) Blocks and splittings

(d) Sold or used by producers

(e) Uncut

(f) Including mica recovered from kaolin and mica schists

(g) Other countries known to produce mica include, China, Romania and Namibia

Exports of Mica

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Unmanufactured	108	112	132	84	225
Ground & waste	5 736	5 447	1 967	1 519	2 275
Belgium-Luxembourg					
Unmanufactured (b)	87	132	69	108	376
France					
Unmanufactured (b)	106	43	88	103	62
Ground	1 289	1 818	2 879	2 643	3 080
Germany, Federal Republic of					
Unmanufactured (b)	711	832	912	767	924
Italy					
Ground	13	81	530	365	1 026
Unmanufactured (a)	338	125	72	135	58
Netherlands					
Unmanufactured (a)	203	536	600	1 137	527
Austria					
Unmanufactured (a)	1	17	3	9	15
Norway					
Unmanufactured	4 126	4 445	4 158	3 577	3 083
Portugal					
Unmanufactured (a)	377	—	—	—	498
Sweden					
Unmanufactured (a)	3	1	4	13	4
Switzerland					
Unmanufactured (a)	63	90	87	44	92
Madagascar					
Unmanufactured	1 143	1 796	1 871	1 315	841
Mozambique					
Unmanufactured	300	300	952	801	515
South Africa					
Unmanufactured (b)	8 555	9 181	4 572	3 052	1 176
Tanzania					
Unmanufactured (b)	21	18	10	7	7
USA					
Unmanufactured (b)	6 720	7 108	7 788	5 070	6 667
Argentina					
Unmanufactured	2 848	2 552	1 332	223	1 367
Brazil					
Unmanufactured	2 578	1 738	2 613	1 100	2 799
India					
Blocks	1 325	1 018	940	574	882
Splittings	6 159	5 379	6 105	3 482	3 546
Condenser films	164	111	138	126	146
Powder	3 337	7 010	9 080	7 878	9 238
Waste & scrap	13 338	14 410	18 952	22 457	8 055
Japan					
Unmanufactured (b)	300	97	148	123	162
Korea, Republic of					
Unmanufactured (b)	772	3 228	3 576	1 900	1 057
Singapore					
Unmanufactured (b)	18	78	104	312	150
Sri Lanka					
Scrap	194	272	180	...	...

(a) Including splittings and waste

(b) Including block, film and splittings; waste and scrap; and ground mica

Imports of Mica

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Block	123	222	212	165	205
Splittings	441	868	796	543	350
Ground & waste	6 880	8 450	7 001	9 578	11 304
Belgium-Luxembourg					
Unmanufactured (e)	2 064	3 397	3 171	7 033	2 034
Denmark					
Unmanufactured (b)	283	375	264	247	274
France					
Unmanufactured (e)	3 545	2 864	6 342	8 706	3 316
Ground	2 186	2 256	1 256	544	922
Germany, Federal Republic of					
Unmanufactured (e)	8 520	8 722	9 505	8 008	8 058
Italy					
Unmanufactured (a)	670	411	897	494	320
Ground	1 015	737	563	461	833
Netherlands					
Unmanufactured (e)	1 610	1 994	1 737	1 653	2 215
Austria					
Unmanufactured (a)	398	444	285	257	296
Finland					
Unmanufactured (a)	315	230	257	231	245
German Democratic Republic	1 259	1 490	2 907	2 250	2 779
Greece					
Unmanufactured	58	72	55	124	51
Norway					
Unmanufactured	890	280	331	280	202
Waste	4 940	2 975	3 724	3 878	2 585
Poland					
Unmanufactured	1 666	1 848	1 390	1 763	1 152
Portugal					
Unmanufactured (a)	274	391	294	314	448
Romania					
Unmanufactured	181	231	...	...	...
Soviet Union					
Unmanufactured	539	160	725	498	500
Spain					
Unmanufactured	1 230	1 422	1 104	892	1 041
Sweden					
Unmanufactured (a)	957	1 108	883	589	534
Switzerland					
Unmanufactured (a)	747	697	695	493	657
Turkey					
Unmanufactured	6	41	53	104	123
Yugoslavia					
Unmanufactured	191	187	266	396	315
Algeria					
Unmanufactured	...	439	297	15	—
Kenya					
Unmanufactured (a)	12	13	18	21	14
Morocco					
Ground	20	26	17	3	23
Mozambique					
Unmanufactured	7	27	47	9	—
South Africa					
Unmanufactured (a)	420	469	357	423	775
Mica & micanite sheets	44	22	56	44	47
Tanzania					
Unmanufactured (a)	8	17	25	19	18
Tunisia					
Unmanufactured (b)	1	7	43	26	68

Imports of Mica

tonnes

Country	1972	1973	1974	1975	1976
Canada					
Unmanufactured	4 700	5 786	4 876	5 111	4 696
Costa Rica					
Unmanufactured	2	8	12	17	19
Guatemala					
Unmanufactured	12	9	28	9	59
Jamaica					
Unmanufactured	192	308	135	165	...
Mexico					
Unmanufactured	156	238	296	21	149
Waste	51	18	51	9	54
Trinidad & Tobago					
Unmanufactured (a)	47	59	61	39	110
USA					
Block	406	451	264	112	158
Splittings	2 069	1 646	2 255	1 719	776
Ground	10	102	102	92	248
Waste	1 198	2 301	3 009	4 841	1 911
Other unmanufactured	274	86	130	300	593
Argentina					
Unmanufactured	42	28	20	48	20
Brazil					
Unmanufactured	—	10	8	2	23
Chile					
Unmanufactured	39	17	49	...	...
Colombia					
Unmanufactured	43	67	...	...	...
Venezuela					
Unmanufactured	479	379	460	412	...
Brunei					
Unmanufactured (a)	61	65	72	106	152
Hong Kong					
Unmanufactured	98	158	51	28	61
Indonesia					
Unmanufactured (a)(f)	57	469	999	208	418
Iran (c)					
Unmanufactured	347	(a) 1 819	(a) 1 612	(a) 2 733	2 291
Israel (g)					
Unmanufactured (a)	37	34	29	8	1
Japan					
Unmanufactured (b)	2 663	5 261	5 092	3 731	5 114
Waste	4 671	4 671	4 364	2 597	4 209
Korea, Republic of					
Unmanufactured (a)	80	124	195	176	151
Lebanon					
Unmanufactured	35	36	...	...	...
Malaysia (h)					
Unmanufactured (a)	6	22	14	19	141
Philippines					
Unmanufactured (a)	68	93	50	81	38
Singapore					
Unmanufactured (a)	994	650	2 227	878	389
Taiwan					
Unmanufactured (a)	277	289	295	109	199
Thailand					
Unmanufactured (a)	48	150	93	34	44

Imports of Mica

Country	1972	1973	1974	1975	1976
Australia					
Block & sheet	5	3	7	5)
Splittings	92	64	53	92)
Ground	463	464	463	340	) 970
Other	302	662	588	135)
New Zealand (d)					
Unmanufactured (a)	£14 128	£13 100	£28 800	£40 600	£76 500

(a) Including waste

(b) Including ground

(c) Years ended 20 March following that stated

(d) Years ended 30 June of that stated

(e) Including block, film and splittings; waste and scrap; and ground mica

(f) Up to 1974 includes manufactured

(g) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

(h) From 1975 includes Sabah and Sarawak

Production of Molybdenumtonnes (MoS₂ content or equivalent)

Country	1972	1973	1974	1975	1976
Bulgaria	* 230	* 230	* 230	* 230	* 230
Norway	522	188	—	—	—
Soviet Union	* 13 700	* 14 200	* 14 600	* 15 100	* 15 600
Canada	21 540	22 975	23 237	21 712	24 365
Mexico	130	68	72	28	27
USA	84 800	87 600	84 700	80 100	85 600
Chile	9 808	8 072	16 274	15 152	18 165
Peru	1 278	1 056	1 085	739	772
China	* 2 500	* 2 500	* 2 500	* 2 500	* 2 500
Japan	374	274	177	234	* 250
Korea, Republic of	84	85	126	126	200
Australia	7	7	* 5	—	—
World total (a)	135 000	137 300	143 000	136 000	148 000

Notes:

1 This table includes byproducts of other metal mining and processing

2 1.668 tonnes MoS₂ = 1 tonne Mo

(a) Excluding molybdenum ore known to be produced in other countries including Argentina, Korea Dem. P.R., Namibia, Nigeria and Romania

Exports of Molybdenum

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	712	931	439	1 705	1 442
Molybdenum metal	58	118	149	128	121
Belgium-Luxembourg					
Ores & concentrates	1 601	2 376	3 317	3 964	6 542
France					
Oxides & hydroxides	33	117	35	48	273
Germany, Federal Republic of					
Ores & concentrates	929	240	327	654	631
Molybdenum metal	226	292	172	199	259
Netherlands					
Molybdenum metal	117	119	75	191	137
Oxide & hydroxide (b)	5	6	146	770	1 576
Austria					
Molybdenum metal	491	591	706	569	763
Norway					
Ores & concentrates	584	218	—	—	—
Canada					
Ores & concentrates (a)	14 211	11 313	12 690	15 689	14 554
USA					
Ores & concentrates (a)	20 576	33 553	35 680	28 401	28 352
Metal, alloys & scrap	40	67	48	144	101
Chile					
Ores & concentrates	7 352	3 606	6 391	...	...
Oxides	3 258	...	...	...	...
Peru					
Ores & concentrates (a)	1 176	633	* 800	...	...
Japan					
Metal	22	35	21	16	18
Korea, Republic of					
Ores & concentrates	112	45	75	52	50
Philippines					
Ores & concentrates	...	...	17	32	—

(a) Molybdenum content

(b) Excludes exports to Belgium-Luxembourg, if any

Imports of Molybdenum

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	9 050	11 234	10 569	13 528	13 617
Molybdenum metal	162	164	196	167	133
Belgium-Luxembourg					
Ores & concentrates	9 542	10 987	12 545	13 175	11 909
Oxide	56	89	16	61	22
France					
Ores & concentrates	5 331	7 544	8 836	7 138	7 633
Oxides & hydroxides	64	153	134	136	75
Molybdenum metal	152	178	158	183	168
Germany, Federal Republic of					
Ores & concentrates	14 192	18 795	17 556	14 736	41 674
Molybdenum metal	271	403	354	365	482
Italy					
Ores & concentrates	5 705	6 699	8 230	6 229	5 397
Molybdenum metal	54	70	79	91	260
Netherlands					
Ores & concentrates (b)	18 000	28 000	29 000	25 000	24 000
Molybdenum metal	128	158	170	172	201
Austria					
Oxide	891	675	1 351	688	1 421
Poland					
Ores & concentrates	354	...	...	...	...
Sweden					
Ores & concentrates	5 903	8 237	8 456	7 052	7 477
Molybdenum metal	51	65	71	74	50
South Africa					
Metal	29	5	8	24	18
Canada					
Oxide	12	90	86	56	111
Mexico					
Ores & concentrates	433	522	981	874	589
USA					
Metal	63	60	71	40	197
Argentina					
Oxides & molybdates	97	99	105	125	173
India					
Metal	13	16	67	44	106
Japan					
Ores & concentrates	10 235	16 613	17 778	12 128	17 916
Molybdenum metal	142	288	146	106	84
Oxide	123	447	520	90	482
Malaysia (a)					
Metal	45	13	56	18	13
Philippines					
Metal	95	113	147	62	3
Australia					
Ores & concentrates	134	483	713	213	...
Oxide	6	3	31	...	...

(a) From 1975 includes Sabah and Sarawak

(b) May include other ores

Mine Production of Nickel

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Albania	* 4 600	* 6 000	* 6 000	* 6 000	* 6 000
Finland	5 350	5 800	6 300	5 700	6 400
Greece (d)	11 300	13 900	15 100	14 800	16 400
Norway	377	465	536	304	* 600
Poland	* 1 500	* 1 500	* 2 000	* 2 500	* 2 800
Soviet Union	* 115 000	* 115 000	* 120 000	* 125 000	* 130 000
Botswana	—	500	2 572	6 467	12 581
Morocco	* 230	* 300	* 500	* 500	* 200
Rhodesia	* 12 000	* 11 800	* 11 500	* 10 000	* 16 000
South Africa (a)	11 656	19 426	* 22 100	20 754	22 371
Canada (b)	234 949	249 047	269 071	242 180	240 825
Cuba (c)	36 789	35 199	33 879	37 300	36 800
Dominican Republic (d)	17 400	28 298	30 492	26 900	24 400
USA	15 299	16 576	15 076	15 410	14 940
Brazil	3 398	4 122	3 536	3 190	5 273
Burma (e)	15	21	22	19	24
Indonesia	14 100	18 800	16 000	14 600	13 800
Philippines	384	399	326	9 364	15 239
Australia	35 500	40 100	45 981	75 825	82 532
New Caledonia (f)	108 061	115 372	136 800	133 282	118 945
World total (g)	630 000	680 000	740 000	750 000	770 000

(a) Refined nickel and nickel in matte

(b) Refined nickel and nickel in oxide and salts plus nickel in matte and concentrate exported

(c) Ni content of sulphide slurry and oxide

(d) Ni content of ferro-nickel

(e) Ni content of nickel speiss. Years ending 31 March following that stated

(f) Ni + Co content

(g) Ores containing nickel are also known to be produced in German Democratic Republic

Exports of Nickel

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Matte & other intermediate products of nickel metallurgy	2 680	952	1 558	774	72
Unwrought (a)	33 343	36 545	40 070	31 526	29 653
Scrap	2 644	2 379	4 237	4 065	5 550
Nickel oxide	1 065	1 127	1 498	901	380
Belgium-Luxembourg					
Unwrought	61	148	253	321	99
Unwrought alloys	127	91	107	132	152
Scrap	1 708	1 971	2 002	1 037	1 603
Denmark					
Scrap	212	165	134	122	131
France					
Matte & speiss	325	33	137	8	401
Unwrought	5 662	3 697	6 733	5 196	4 398
Unwrought alloys	105	89	514	40	71
Scrap	2 508	2 278	3 406	1 744	2 746
Germany, Federal Republic of					
Unwrought & scrap (a)	4 203	3 696	5 850	5 124	7 083
Netherlands					
Unwrought (a)	4 786	7 669	6 305	4 037	3 764
Scrap	3 075	1 667	1 835	2 461	3 933
Austria					
Scrap	261	228	379	438	973
Finland					
Unwrought (a)	4 749	5 619	5 509	5 862	6 143
Norway					
Unwrought	40 218	43 254	43 778	29 489	34 071
Scrap	297	240	309	354	394
Ores	7 946	11 535	13 515	6 885	12 522
Sweden					
Unwrought (a)	2 830	2 827	2 507	2 902	2 382
Scrap	679	1 223	622	714	845
Switzerland					
Unwrought & scrap	707	789	1 086	463	594
South Africa (b)					
Matte & speiss	207	337	* 3 000	* 5 000	* 4 500
Unwrought	10 193	9 173	* 17 400	* 14 900	* 17 600
Canada					
Ores, concentrates, matte & speiss (c)	104 144	91 068	85 240	84 391	72 688
Unwrought	126 147	139 662	134 528	100 370	99 241
Scrap	1 986	2 291	2 728	3 322	2 510
Nickel oxide (c)	33 245	59 710	51 118	38 527	47 958
Cuba					
Nickel oxide (e)	12 522	18 839	16 033	...	...
Nickel sulphide (e)	19 201	19 482	18 012	...	...
Dominican Republic					
Ferro-nickel (c)	* 17 000	* 30 000	* 31 000	...	...
USA					
Unwrought (a)	2 414	3 807	2 891	6 157	13 284
Scrap	7 656	5 673	6 116	6 468	14 493
Burma					
Unwrought	166	...	345	...	...
Indonesia					
Ores & matte	837 674	566 562	928 368	639 020	565 357

Exports of Nickel

Nickel

tonnes

Country	1972	1973	1974	1975	1976
Japan					
Unwrought (a)	—	200	523	1 478	2 340
Philippines					
Ores & concentrates	2 513	2 841	2 437	225	—
Unwrought	...	...	...	6 298	11 030
Taiwan					
Unwrought	181	230	56	93	275
Scrap	674	118	195	202	639
Australia (d)	* 26 000	* 25 000	* 32 000	* 43 000	* 62 000
New Caledonia					
Ores	2 164 439	2 449 790	3 146 607	2 466 429	2 692 729
Matte	21 362	24 326	26 183	25 082	27 830
Ferro-nickel	155 576	136 587	181 321	168 542	124 180

Note: In this table the description 'unwrought' nickel corresponds to item 683.1 of the Standard International Trade Classification (Revised) which excludes all electro-plating anodes

(a) Including alloys

(b) Figures up to 1973 are Department of Customs & Excise figures: these include data not only for S. Africa but also for Botswana, Lesotho, Namibia and Swaziland. From 1974, IGS estimates, based on known imports into certain countries

(c) Ni content

(d) IGS estimates; Unwrought metal and Ni content of ores, concentrates, matte etc., based on known imports into certain countries

(e) Ni-Co content (mainly nickel)

Imports of Nickel

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Matte & other intermediate products of nickel metallurgy	60 390	48 174	49 854	66 876	54 382
Unwrought	16 954	21 497	22 371	21 685	18 609
Unwrought alloys	870	2 437	2 408	2 246	2 130
Scrap	2 696	4 832	4 198	2 688	4 199
Nickel oxide	1 081	1 720	1 589	1 880	667
Belgium-Luxembourg					
Unwrought	2 334	1 933	2 703	2 689	2 431
Unwrought alloys	276	936	1 285	894	1 091
Scrap	1 504	1 380	1 323	1 059	1 171
Denmark					
Unwrought	11	22	135	153	166
Unwrought alloys	27	38	56	109	46
France					
Matte & other intermediate products of nickel metallurgy	18 905	15 481	13 377	15 203	15 161
Unwrought	14 019	10 236	14 418	15 994	15 370
Unwrought alloys	162	263	889	1 036	673
Scrap	751	1 986	1 544	1 537	1 499
Germany, Federal Republic of					
Ore	4	20	—	—	—
Matte & speiss	2 309	3 587	6 145	6 550	13 820
Unwrought (a)	35 126	34 470	44 306	36 387	43 080
Scrap	7 009	6 968	8 160	6 454	7 408
Irish Republic					
Unwrought (a)	29	256	82	433	141
Italy					
Matte & speiss	4 349	5 113	4 462	4 907	5 426
Unwrought (a)	14 229	14 314	15 364	7 068	7 941
Scrap	1 220	1 297	1 609	833	1 450
Nickel oxides	467	481	2 536	1 897	3 070
Netherlands					
Unwrought (e)	4 055	4 367	4 705	4 255	3 095
Unwrought alloys (e)	127	213	115	139	64
Scrap	3 817	2 847	3 317	2 396	1 576
Nickel oxide	1 194	1 137	1 019	465	579
Austria					
Matte & speiss	949	1 603	1 444	904	1 165
Unwrought (a)	2 385	1 755	2 369	1 904	2 255
Scrap	239	322	381	1 056	902
Finland					
Unwrought (a)	120	133	831	297	558
Norway					
Matte & speiss	85 492	89 646	93 243	79 337	71 329
Scrap	—	15	—	—	—
Spain					
Matte & speiss	312	468	150	211	234
Unwrought (a)	3 789	4 853	6 010	4 783	7 724
Sweden					
Matte & speiss	1 488	3 789	1 852	2 989	4 651
Unwrought	14 732	11 240	12 774	13 105	10 921
Unwrought alloys	645	829	972	433	347
Scrap	453	472	1 056	1 960	3 464
Switzerland					
Unwrought & scrap	1 531	1 104	1 392	1 899	2 321
Yugoslavia					
Unwrought	418	1 140	1 030	1 282	1 207
South Africa					
Matte & speiss	—	—	29	375	321
Unwrought	152	60	39	718	951
Canada					
Ore, concentrates & scrap (b)	23 273	13 208	10 677	17 894	24 566
Unwrought (a)	16 783	15 699	16 083	13 369	17 308
Mexico					
Unwrought	1 147	400	818	2 699	1 428
Nickel oxide	214	238	234	116	309

Imports of Nickel

Country	1972	1973	1974	1975	1976
USA					
Ore (b)	9	206	1	16	155
Unwrought (a)	113 631	109 370	124 848	98 507	101 157
Scrap	2 092	2 397	3 356	2 135	2 140
Argentina					
Unwrought	655	642	766	480	415
Brazil					
Unwrought (a)	1 904	1 591	3 159	1 499	1 892
Chile					
Unwrought	262	65	61	...	...
Hong Kong					
Unwrought	204	274	490	289	526
India					
Unwrought (c)	514	841	1 412	1 831	3 391
Unwrought alloys (c)	1 716	396	427	676	1 235
Scrap	125	506	97	221	852
Japan					
Ore	3 152 016	3 539 381	4 218 308	3 396 775	3 450 189
Matte	13 196	30 391	39 780	27 442	45 133
Unwrought	11 980	14 299	16 298	8 451	11 986
Unwrought alloys	331	939	401	188	277
Scrap	313	88	19	—	60
Scrap alloys	1 515	1 137	1 417	1 535	4 677
Korea, Republic of					
Unwrought	10	326	535	541	1 583
Scrap	26	518	651	159	226
Malaysia (f)					
Unwrought (a)	2	60	117	227	239
Taiwan					
Unwrought (a)	1 190	1 748	1 601	233	968
Australia					
Matte & speiss	579	2 108	408	528	1 931
Unwrought	1 465	2 814	1 345	726	1 436
Unwrought alloys	100	341	905	543	172
New Zealand (d)					
Unwrought (a)	89	88	250	105	38

Note: In these trade tables the description 'unwrought' nickel corresponds to item 683.1 of the Standard International Trade Classification (Revised) which excludes all electro-plating anodes

(a) Including alloys

(b) Ni content

(c) Years ended 31 March following that stated

(d) Years ended 30 June of that stated

(e) Excludes imports from Belgium-Luxembourg, if any

(f) From 1975 includes Sabah and Sarawak

Production of Crude Petroleum

thousand tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	89	88	88	1 222	11 630
Denmark	76	68	86	167	199
France	1 484	1 254	1 080	1 028	1 058
Germany, Federal Republic of	7 098	6 638	6 191	5 741	5 524
Italy	1 152	1 048	1 025	1 118	1 109
Netherlands	1 597	1 492	1 461	1 419	1 371
Albania	1 920	2 120	2 200	2 300	2 350
Austria	2 478	2 578	2 238	2 037	1 931
Bulgaria	248	190	144	122	117
Czechoslovakia	191	171	149	142	131
German Democratic Republic	101	64	54	56	53
Hungary	1 977	1 989	1 997	2 006	2 142
Norway	1 626	1 584	1 700	9 241	13 689
Poland	347	392	550	553	455
Romania	14 128	14 287	14 486	14 590	14 700
Soviet Union	421 000	429 000	458 948	490 801	519 677
Spain	140	814	1 976	2 028	1 772
Turkey	3 410	3 604	3 304	3 095	2 595
Yugoslavia	3 200	3 332	3 458	3 692	3 880
Algeria	50 048	52 500	47 182	45 766	50 100
Angola	7 055	8 175	8 750	* 7 840	* 4 494
Congo	336	2 054	2 455	1 789	2 002
Egypt	10 720	8 479	7 789	12 233	16 756
Gabon	6 304	7 598	10 206	11 316	11 305
Libya	108 800	105 300	75 300	72 400	92 500
Morocco	28	42	25	20	9
Nigeria	89 782	100 900	110 000	95 816	103 000
Tunisia	3 965	3 870	4 139	4 609	3 710
Canada	81 505	95 120	89 162	75 534	69 729
Cuba	112	138	168	* 170	* 170
Mexico	22 163	23 257	29 594	36 456	41 336
Trinidad & Tobago	7 433	8 806	9 889	11 411	11 274
USA	465 809	453 074	431 732	412 076	401 211
Argentina	22 067	21 364	21 246	20 119	20 437
Bolivia	1 975	2 135	2 054	1 822	1 837
Brazil	9 077	9 216	9 638	9 383	9 127
Chile	1 817	1 658	1 458	1 298	1 215
Colombia	10 403	9 737	8 910	8 311	7 747
Ecuador	4 148	11 060	9 378	8 528	9 922
Peru	3 432	3 740	4 074	3 829	4 055
Venezuela	168 437	175 776	156 167	122 400	120 250
Abu Dhabi	50 486	62 671	68 061	66 628	77 687
Bahrain	3 478	3 401	3 363	3 050	2 902
Brunei	8 950	7 156	9 545	* 9 350	* 10 100
Burma	822	826	763	972	1 187
China (a)	* 45 000	* 54 000	* 64 000	* 75 000	* 85 000
Dubai	7 671	11 414	12 108	12 762	15 776
India	7 373	7 198	7 491	8 283	8 430
Indonesia	53 703	66 486	68 296	64 874	74 900
Iran	249 501	290 262	298 223	264 946	294 200
Iraq	72 343	99 369	97 032	110 952	112 284
Israel (b)	6 375	4 673	5 298	3 969	38
Japan	760	746	716	643	616
Kuwait	151 180	138 255	114 390	104 769	113 965
Neutral Zone (c)	28 600	26 500	26 600	26 526	25 153
Oman	14 920	15 530	15 356	18 085	19 420
Pakistan	381	351	317	306	305

Production of Crude Petroleum

thousand tonnes

Country	1972	1973	1974	1975	1976
Qatar	23 486	27 700	25 059	21 102	24 018
Sabah	—	—	30	475	2 439
Sarawak	4 362	4 339	3 845	4 208	5 587
Saudi Arabia	304 571	402 422	408 360	351 940	416 174
Sharjah	—	—	2 576	1 826	1 802
Syria	5 868	5 543	6 426	9 572	10 039
Taiwan	132	153	192	196	226
Australia	17 333	20 635	24 559	21 740	22 122
New Zealand	139	161	163	180	477
World total	2 599 000	2 825 000	2 803 000	2 684 000	2 891 000

Note: The figures shown in this table exclude natural gasoline

(a) Including oil from shale and coal

(b) Figures up to and including 1975, include estimated production from occupied Sinai

(c) Neutral zone of Kuwait and Saudi Arabia

Production of Natural Gas

Million m³

Country	1972	1973	1974	1975	1976
United Kingdom	26 571	28 801	34 834	36 266	38 503
Belgium	52	55	61	50	33
France	7 372	7 410	7 330	7 394	6 938
Germany, Federal Republic of	13 132	19 248	19 732	18 248	18 659
Italy	14 062	15 242	15 228	14 562	15 640
Netherlands	58 420	70 834	83 725	90 853	97 302
Austria	1 963	2 270	2 207	2 359	2 144
Bulgaria	220	226	180	111	31
Czechoslovakia	813	845	827	811	801
German Democratic Republic	5 055	7 012	7 732	* 7 300	*8 600
Hungary	4 110	4 821	5 101	5 182	6 082
Poland	5 823	6 027	5 739	5 963	6 699
Romania	27 713	29 239	30 440	33 306	36 330
Soviet Union	221 000	236 326	260 553	289 268	320 953
Yugoslavia	1 242	1 329	1 447	1 484	* 1 700
Algeria	3 390	4 740	6 773	7 932	10 300
Gabon	35	40	46	47	50
Libya	* 2 540	* 3 240	* 2 700	* 3 400	* 3 800
Morocco	61	65	59	71	46
Nigeria	272	300	404	456	632
Tunisia	38	128	201	210	218
Barbados	2	4	2	2	4
Canada	82 520	88 368	86 273	87 520	87 650
Mexico	12 020	13 100	13 950	14 402	14 032
Trinidad & Tobago	1 900	1 823	1 666	1 522	1 704
USA	638 027	641 307	611 659	569 414	564 990
Argentina	6 183	6 729	7 242	7 640	7 710
Bolivia	1 190	1 757	1 714	1 728	1 769
Brazil	* 240	254	498	560	646
Chile	* 1 200	* 1 235	* 1 230	* 1 230	* 1 245
Colombia	1 727	1 842	1 863	1 797	1 711
Peru	486	* 410	* 430	* 449	* 476
Venezuela	25 506	27 643	23 340	17 040	16 632
Afghanistan	2 894	2 800	2 946	2 964	2 541
Bahrain	1 132	1 602	1 975	2 079	2 178
Bangladesh	502	693	648	666	887
Brunei	453	* 2 500	4 296	* 6 000	* 7 800
China	* 25 500	* 27 000	* 35 000	* 40 000	* 80 000
India	925	913	1 010	1 253	1 514
Indonesia	4 128	5 031	5 729	6 294	8 839
Iran	17 830	19 869	22 296	21 830	22 477
Iraq	934	1 210	1 162	1 654	1 985
Israel	124	54	66	60	58
Japan	2 475	2 595	2 572	2 462	2 437
Kuwait (a)	5 144	5 268	4 980	5 205	5 600
Pakistan	3 577	4 424	4 992	5 140	5 047
Qatar	1 103	* 1 580	* 1 300	2 209	1 476
Sarawak	—	90	78	80	90
Saudi Arabia (a)	2 806	* 4 500	* 6 200	* 5 700	* 5 900
Taiwan	1 264	1 454	1 586	1 575	1 836
Australia	3 188	4 099	4 677	5 026	5 929
New Zealand	354	303	484	525	1 421
World total	1 239 000	1 309 000	1 337 000	1 339 000	1 432 000

Note: So far as possible the figures in this table represent gas utilised as fuel

(a) Includes one-half of the output of the Neutral Zone

Exports of Crude Petroleum

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	3 322 249	2 878 500	1 011 832	1 053 382	3 397 242
Belgium-Luxembourg	15 485	302 779	58 660	81 505	335
Germany, Federal Republic of	—	—	39	14 285	31 061
Norway	1 690 620	1 531 133	1 982 464	7 771 166	13 623 874
Soviet Union	76 200 000	85 300 000	80 600 000	93 070 000	110 790 000
Yugoslavia	104 842	90 756	46	4 010	—
Algeria	52 706 200	46 012 402	41 959 307	38 436 725	42 571 857
Angola	5 989 597	7 323 304	7 604 000	7 263 900	579 378
Congo	...	1 461 065	2 450 729	2 400 000	1 845 844
Egypt	5 224 871	9 681 436	940 072	922 747	3 922 421
Gabon	3 152 817	3 960 000	9 121 886	10 508 565	9 911 525
Libya	106 629 543	104 730 266	72 015 356	68 925 584	89 183 262
Nigeria	85 864 151	94 302 190	96 437 049	81 696 514	95 871 533
Tunisia	3 699 144	3 674 342	3 726 783	4 759 695	3 686 782
Canada	49 555 763	61 406 581	48 466 191	38 093 491	26 514 965
Netherlands Antilles	1 115 000	3 375 000	5 894 000	1 260 000	950 000
Trinidad & Tobago	2 736 396	4 334 572	5 186 141	7 362 951	7 259 185
USA (h)	110 884	101 248	155 715	2 720	323 189
Bolivia	1 353 808	1 465 000	1 335 700	1 024 500	997 600
Colombia	2 049 639	1 339 946	70 000	...	...
Ecuador	3 405 985	9 383 377	8 600 000	7 700 000	8 900 000
Peru	142 900	17 200	...	150 000	300 000
Venezuela	113 280 000	112 499 000	93 679 000	77 992 000	72 793 000
Abu Dhabi	48 861 700	60 739 300	65 006 700	66 825 400	...
Brunei (a)	9 330 615	11 334 752	22 516 058	8 835 306	10 351 980
Dubai	7 500 000	11 000 000	12 000 000	12 500 000	...
Indonesia	40 707 000	49 438 000	54 450 000	52 506 623	59 267 473
Iran (b)	216 831 191	272 587 683	212 013 043	166 313 693	122 350 711
Iraq	68 380 000	94 696 000	91 038 000	100 995 000	102 635 000
Israel (g)	5 579 400	3 649 500	4 909 800	3 593 700	...
Japan	1 103 704	37 491	2 281	565	...
Kuwait	136 864 000	134 220 097	111 488 700	91 684 636	* 95 156 000
Malaysia (e)	159 264	3 826 866	3 167 970	3 794 538	7 217 652
Neutral Zone (c)	28 411 300	25 656 700	26 154 400	23 563 100	23 101 000
Oman	14 979 000	15 516 000	15 356 000	18 114 000	19 492 700
Qatar	23 197 358	27 485 092	24 635 604	20 695 172	23 200 000
Sarawak (d)(f)	3 424 000	3 174 008	2 991 226	...	...
Saudi Arabia	269 478 000	346 272 924	391 084 528	304 515 700	390 874 100
Sharjah	...	...	1 100 000	1 900 000	...
Singapore	61 044	20 851	9 521	247 520	1
Syria	4 197 488	4 325 428	6 159 929	9 529 750	9 661 691

(a) Exported to Sarawak for refining

(b) Years ended 20 March following that stated

(c) Neutral zone of Kuwait and Saudi Arabia

(d) Including crude imported from Brunei and re-exported

(e) From 1975 includes Sabah and Sarawak

(f) From 1975 included with Malaysia

(g) Figures may be incomplete as value only given in Israeli trade return for exports to some countries

(h) Partly refined

Imports of Crude Petroleum

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	107 037 226	115 298 890	113 286 344	88 514 919	88 618 428
Belgium-Luxembourg	43 977 591	35 950 322	29 301 947	26 168 207	28 811 418
Denmark	9 895 164	9 755 876	9 355 520	7 915 462	7 583 897
France	121 065 264	136 510 651	130 351 074	107 004 656	122 354 540
Germany, Federal Republic of	102 600 061	110 493 097	102 542 676	88 413 924	97 669 209
Irish Republic	2 608 116	2 465 073	2 625 058	2 405 863	1 698 738
Italy	119 756 338	127 739 505	111 456 183	94 443 439	100 590 258
Netherlands	90 483 906	100 105 989	60 647 000	55 225 000	62 587 039
Austria	5 205 368	6 041 567	6 358 131	6 045 035	7 267 468
Bulgaria	8 279 000	9 652 000	10 629 000	10 459 000	10 839 000
Czechoslovakia	12 571 000	14 176 000	14 655 000	15 839 000	17 082 000
Finland	9 234 480	9 522 034	9 365 798	9 622 045	11 135 668
German Democratic Republic	14 858 000	16 045 000	16 434 000	16 997 000	18 036 000
Greece	6 995 803	12 320 524	12 196 574	12 891 494	11 637 787
Hungary	6 065 000	6 555 000	6 817 000	8 431 000	8 785 000
Norway	6 404 090	7 050 380	6 729 164	5 745 726	8 076 284
Poland	9 703 000	11 140 000	10 582 000	13 306 000	15 095 000
Portugal	4 253 264	4 305 893	5 686 739	5 554 710	5 926 172
Romania	2 872 500	4 143 300	4 538 000	5 085 000	8 475 000
Soviet Union	7 780 000	13 200 000	4 390 000	6 499 000	6 425 000
Spain	31 240 374	34 899 054	36 332 007	41 345 552	48 955 999
Sweden	11 202 979	10 605 743	10 051 427	11 866 000	13 448 000
Switzerland	4 817 568	6 092 931	6 008 689	4 385 046	4 014 478
Turkey	6 769 298	7 827 391	10 464 484	8 920 133	11 512 727
Yugoslavia	4 234 307	8 317 439	7 422 063	7 415 955	8 312 569
Egypt	1 375 418	429 000	36 300	2 320 000	1 281 600
Ethiopia	398 254	473 761	470 562	519 197	469 900
Ghana	1 301 068	933 108	1 195 976	1 242 488	...
Ivory Coast	1 115 068	930 431	1 655 681	1 464 822	1 529 627
Kenya	2 499 151	2 715 981	2 807 206	2 825 542	2 489 976
Liberia	511 415	475 487	634 876	549 833	601 576
Madagascar	634 950	646 373	604 094	781 564	554 024
Morocco	1 753 072	2 261 687	2 584 895	2 620 151	2 802 013
Mozambique	776 111	791 828	254 573	328 554	360 760
Senegal	578 843	667 660	612 302	652 805	...
Sierra Leone	318 465	287 233	277 956	188 904	219 620
South Africa (a)	12 449 749	14 505 100	* 14 000 000	* 17 790 000	* 16 000 000
Sudan	1 156 600	1 237 300	1 132 100	1 220 100	1 132 300
Tanzania	818 894	879 420	802 964	729 149	957 211
Tunisia	758 799	1 030 192	843 157	1 014 089	1 240 800
Zaire	719 000	732 000	744 200	628 500	401 300
Zambia	...	697 721	896 806	1 285 700	994 800
Bahamas	1 724 931	11 572 339	8 560 755	8 146 936	* 6 000 000
Barbados	92 932	124 106	115 891	119 748	107 223
Canada	40 823 496	47 629 152	42 253 965	43 313 843	40 124 139
Costa Rica (a)	391 762	447 146	390 717	271 435	251 388
Cuba	4 749 000	5 243 000	5 875 000	...	...
Dominican Republic	...	832 000	1 523 000	1 329 000	1 767 000
El Salvador (a)	435 050	616 499	603 217	517 267	514 298
Guatemala	353 312	1 018 438	977 800	2 647 229	2 155 596
Honduras	628 855	681 121	311 897	699 081	397 000
Jamaica	1 433 115	1 522 000	* 2 220 000	1 508 190	1 290 000
Mexico	1 355 257	3 198 000	13 751 572	...	...
Netherlands Antilles	39 054 000	45 293 000	41 334 000	25 522 000	* 40 000 000
Nicaragua	...	457 307	622 409	714 151	737 000
Panama	3 948 664	3 647 784	3 505 841	4 159 307	2 843 940
Trinidad & Tobago	14 569 230	14 489 135	14 591 616	7 743 275	12 057 702
USA	143 532 415	201 771 243	212 765 025	241 082 904	307 108 329
Argentina	1 375 178	2 358 239	3 079 238	2 099 112	2 979 459
Brazil	22 940 613	32 110 673	32 730 692	34 205 975	40 094 943
Chile	21 867 032	2 289 908	4 746 732	3 657 000	3 542 000
Ecuador	1 162 000	894 000	860 000	* 1 000 000	* 1 000 000
Uruguay	1 641 000	1 791 000	1 735 900	1 374 988	* 1 500 000

Imports of Crude Petroleum

tonnes

Country	1972	1973	1974	1975	1976
Bahrain	8 246 000	8 852 450	8 864 700	7 556 000	10 511 500
Bangladesh	896 500	572 700	621 200	837 800	1 262 600
Burma	188 501	...	460 455	...	...
Cyprus	717 151	707 489	544 608	383 980	426 450
India	12 310 000	13 443 000	13 972 000	14 006 000	14 032 000
Indonesia (a)	260 822	201 408	269 203	492 338	328 838
Israel (a)	5 883 367	6 411 140	7 696 100	7 383 800	7 677 100
Japan	227 318 837	264 269 888	253 956 666	240 255 207	231 843 542
Jordan	643 401	706 145	773 263	860 366	1 168 566
Korea, Republic of	12 638 580	22 089 049	16 456 788	15 394 639	18 298 761
Kuwait	...	...	4 156 500	4 164 000	4 065 700
Lebanon	2 321 900	2 507 500	2 572 100	2 205 200	2 407 200
Malaysia (b)	2 759 163	3 493 752	2 885 358	3 159 642	3 625 098
Pakistan	3 502 200	3 204 300	3 120 300	2 988 100	2 839 500
Philippines	9 180 831	9 256 268	8 484 799	9 138 106	9 562 189
Sarawak (c)	1 541 000	1 142 161	692 595		
Singapore	19 775 183	21 741 295	23 059 420	18 101 445	21 254 959
Sri Lanka	1 818 290	1 753 233	1 526 469	1 598 300	1 544 320
Syria	611 098	1 037 341	1 725 810	2 412 770	2 763 745
Taiwan	11 183 817	5 447 257	13 740 155	7 532 457	12 392 048
Thailand (d)	5 631 107	4 562 969	1 988 754	1 419 236	910 472
Yemen, People's Dem. Rep. of	3 385 374	3 124 843	2 699 912	1 596 816	1 707 292
Australia	8 942 537	8 960 781	9 138 665	8 140 691	8 591 330
New Zealand (e)	2 771 073	3 175 643	3 276 968	3 438 217	2 762 561

(a) Partly refined

(b) From 1975 includes Sabah and Sarawak

(c) From 1975 included with Malaysia

(d) Topped

(e) Year ended 30 June of that stated

Production of Phosphate Rock

tonnes

Country	1972	1973	1974	1975	1976
France (d)	25 000	29 000	40 000	18 000	28 000
Germany, Federal Republic of	71 367	92 510	85 064	81 278	86 000
Soviet Union					
Apatite	* 12 000 000	* 13 000 000	* 15 300 000	* 15 300 000	* 15 400 000
Phosphate rock	* 10 500 000	* 10 750 000	* 11 000 000	* 15 000 000	* 17 000 000
Algeria	490 000	611 000	790 000	707 000	820 000
Egypt	562 840	553 395	506 890	536 274	550 000
Kenya					
Guano	747	682	352	297	219
Morocco	15 105 000	17 077 000	19 600 000	14 119 400	15 656 155
Rhodesia					
Apatite	110 000	* 150 000	* 130 000	* 130 000	* 130 000
Senegal					
Phosphate rock	1 250 000	1 533 000	1 472 000	1 599 971	1 591 000
Aluminium phosphates	166 000	218 000	405 000	201 445	208 000
South Africa (a)	1 966 000	2 063 000	7 824 000	11 626 130	11 768 542
Spanish Sahara (f)	150 000	696 000	2 174 000	2 682 000	173 000
Togo	1 928 000	2 272 000	2 552 000	1 161 000	2 068 000
Tunisia	3 387 000	3 474 000	3 823 000	3 488 209	3 294 000
Uganda					
Apatite	14 600	15 000	* 11 000	* 10 000	* 5 000
Mexico	62 674	71 542	194 095	282 480	224 428
Netherlands Antilles	111 584	92 533	107 000	82 000	54 000
USA (c)	37 041 000	38 226 000	41 446 000	44 285 000	44 671 000
Argentina					
Guano	410	541	279	—	—
Brazil					
Apatite	* 173 200	257 042	327 274	406 030	489 617
Chile					
Guano	15 272	12 976	19 000	14 000	16 000
Colombia	6 821	10 421	10 000	* 13 000	10 000
Peru					
Guano	23 000	* 20 000	...	...	* 2 000
Venezuela	30 000	30 000	141 500	155 000	80 000
China					
Apatite	* 2 600 000	* 3 000 000	* 3 000 000	* 3 400 000	* 3 750 000
Christmas Island (b)(e)	1 074 476	1 493 408	1 808 854	1 391 400	1 033 000
India					
Apatite	11 614	9 980	12 034	30 338	38 180
Phosphate rock	216 693	136 512	433 438	429 089	644 119
Israel	873 000	633 000	951 000	882 000	639 000
Jordan	694 000	1 106 000	1 595 000	1 351 529	1 683 141
Korea, Dem. P.R. of	* 300 000	* 360 000	* 400 000	* 450 000	* 450 000
Philippines					
Phosphate rock	2 618	12 228	26 506	5 401	12 000
Guano	2 012	10	13 552	125 813	2 000
Syria	112 000	150 000	660 430	857 300	511 000
Thailand	—	810	5 603	5 805	7 250
Vietnam, Democratic					
Apatite	* 280 000	* 500 000	* 1 200 000	* 1 400 000	* 1 500 000
Australia	1 051	1 144	1 484	123 883	275 600
Nauru(b)	1 340 272	1 581 579	2 323 182	1 533 728	754 474
Ocean Island (b)	511 632	742 350	548 450	520 400	422 050
World total	93 200 000	101 000 000	121 000 000	124 000 000	126 000 000

(a) Including apatite and aluminium phosphate

(b) Exports

(c) Marketable production

(d) 10% P₂O₅

(e) Including phosphate dust

(f) Since 1976, not administered by Spain

Exports of Phosphate Rock

tonnes

Country	1972	1973	1974	1975	1976
Belgium-Luxembourg	45 421	38 134	39 805	27 996	9 104
France	3 494	1 494	2 759	3 704	1 952
Germany, Federal Republic of	7 070	7 728	11 902	7 797	1 880
Netherlands	6 258	39 681	81 990	25 998	73 676
Soviet Union					
Apatite ore	27 000	24 800	...	26 000	26 000
Apatite concentrates	6 300 000	6 600 000	6 000 000	5 830 053	5 900 000
Sweden	199	4 822	22 200	23 617	13 868
Algeria	341 500	218 455	353 784	213 365	555 290
Egypt	212 372	153 201	120 260	104 670	152 000
Morocco (a)	13 580 780	16 101 884	18 700 096	13 110 058	14 684 162
Senegal					
Calcium phosphate,	1 334 168	1 302 881	1 582 994	1 317 209	1 458 000
Aluminium phosphate	91 945	112 951	315 046	199 706	...
Seychelles					
Guano	9 217	7 112	3 541	3 988	5 670
South Africa					
Phosphate rock	3 684	15 232	37 097	13 229	11 118
Guano (c)	2 256	5 191	* 5 800	* 7 000	* 3 000
Spanish Sahara (d)	73 000	655 000	2 179 000	2 677 000	277 000
Togo	1 655 981	2 196 826	2 580 088	1 125 919	1 997 000
Tunisia (a)	2 468 114	2 376 814	2 650 745	2 053 772	1 961 841
Mexico	6 482	1 973	5 239	257	747
Netherlands Antilles	90 053	70 087	106 500	54 341	...
USA	12 693 107	12 642 041	12 889 022	11 450 681	9 995 786
Christmas Island					
Phosphate rock	923 640	1 328 500	1 637 300	1 197 100	895 300
Phosphate dust	150 836	164 908	171 544	145 350	141 650
Israel (b)	503 162	302 000	422 000	259 127	341 445
Jordan	952 371	1 088 575	1 468 958	1 111 877	1 653 244
Singapore	24 733	24 530	17 959	33 467	30 986
Syria	62 364	188 530	489 096	307 905	421 376
Nauru	1 340 272	1 581 579	2 323 182	1 533 728	754 474
Ocean Island	511 632	742 350	548 450	520 400	422 050

(a) Including hyperphosphates

(b) Figures may be incomplete as value only given in Israeli trade return for exports to some countries

(c) From 1974, IGS estimates, based on known imports into certain countries

(d) Since 1976, not administered by Spain

Imports of Phosphate Rock

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	1 661 800	1 962 767	2 016 674	1 561 535	1 764 068
Belgium-Luxembourg	2 194 219	2 286 694	2 406 599	1 771 440	1 582 138
Denmark	324 355	344 959	350 879	257 688	260 718
France	4 048 571	4 692 903	5 573 575	3 303 860	3 956 346
Germany, Federal Republic of	2 872 153	2 849 090	3 089 146	2 291 581	2 369 872
Irish Republic	297 307	434 189	449 270	146 253	188 292
Italy	2 198 564	1 851 377	2 138 425	1 639 130	1 540 881
Netherlands	2 026 638	2 092 672	2 365 380	1 591 134	1 762 720
Austria	471 077	421 228	611 983	408 316	307 865
Finland	443 054	591 225	570 010	623 003	337 963
German Democratic Republic (a)	516 600	499 700	527 900	509 700	518 000
Greece	261 966	413 066	330 376	454 638	346 544
Hungary	504 000	522 000	603 000	702 000	504 000
Norway	370 517	403 925	418 001	414 490	318 641
Poland					
Apatite concentrates	1 232 000	971 000	741 000	806 000	598 000
Phosphate rock	1 633 000	1 554 000	2 120 000	2 502 000	2 634 000
Portugal	297 829	298 349	308 075	310 044	333 718
Romania (a)	404 400	510 600	561 300	516 000	684 900
Spain	1 988 307	1 926 620	1 188 695	1 068 237	1 367 345
Sweden	545 969	626 985	695 850	675 781	580 840
Switzerland	15 849	18 833	13 799	8 737	8 124
Turkey	360 658	329 231	590 994	907 787	793 112
Yugoslavia	1 062 337	1 035 040	1 199 220	846 484	880 487
Ivory Coast	11	1 786	3 480	6 897	1 584
Madagascar	1 771	148	150	—	—
Mauritius					
Guano	9 630	9 095	7 546	6 023	...
Mozambique	...	...	3 000	4 000	2 000
South Africa					
Calcium phosphates, natural	3	386	34	1 810	74
Guano, etc.	1 050	4 552	6	1 534	260
Tanzania	26 800	38 770	80 145	22 213	49 387
Tunisia	118	404	400	560	1 395
Zambia	180	335	1 720	...	...
Canada	2 708 039	3 337 186	3 366 339	3 282 257	2 241 086
Mexico	1 147 095	1 289 972	1 492 270	813 108	172 722
USA	51 995	60 111	166 194	33 231	46 434
Brazil	858 473	933 043	1 304 037	855 643	1 417 660
Colombia	9 572	—	...	...	...
Uruguay	...	...	305 986	77 473	...
Bangladesh	...	...	86 000	30 000	40 000
China	1 132 000	1 424 000	1 220 000	1 194 000	1 229 000
India	809 476	874 746	1 106 161	567 314	471 521
Japan	3 040 339	3 189 935	3 844 959	2 903 715	2 334 970
Korea, Dem. P.R. of	30 000	43 000	39 000	91 000	125 000
Korea, Republic of	528 934	530 581	562 270	705 880	746 367
Lebanon	102 169	342 601	383 400	127 000	—
Malaysia (b)	123 273	150 780	134 082	140 698	152 026
Sabah (d)	161	246	5	...	...
Sarawak (d)	5 831	5 530	2 674	...	...
Pakistan	21 000	22 000	43 000	...	48 000
Philippines	164 023	171 401	116 856	174 403	60 776
Singapore	29 828	28 423	20 802	24 611	27 199
Sri Lanka	...	42 674	32 813	...	50
Taiwan	163 575	139 547	251 340	210 600	227 578
Australia	1 625 000	2 877 000	3 056 000	1 937 000	1 201 000
New Zealand (c)	1 163 741	1 096 387	1 070 554	1 209 676	935 597

(a) P₂O₅ content

(b) From 1975 includes Sabah and Sarawak

(c) Years ended 30 June of that stated

(d) From 1975 included with Malaysia

Production of Platinum Group Metals

kilograms (metal content)

Country	1972	1973	1974	1975	1976
Finland (a)	* 20	* 23	* 20	* 13	* 15
Soviet Union					
Crude platinum	* 73 100	* 76 200	* 77 800	* 82 430	* 87 100
Ethiopia					
Crude platinum	7	9	7	6	* 6
South Africa					
Platinum	* 43 500	* 73 400	* 87 950	* 80 795	* 83 900
Osmiridium (c)(d)	* 93	* 87	* 78	* 75	* 75
Canada					
Platinum metals (e)	12 630	11 018	11 963	12 417	12 965
USA					
Platinum metals (b)					
Platinum	115	173	128	165	85
Palladium	337	408	269	341	125
Iridium	18	30	12	7	8
Osmium	5	5	2	1	1
Rhodium	2	3	1	1	1
Colombia					
Crude platinum	740	820	656	688	810
Japan					
Platinum	132	212	170	189	270
Palladium	176	311	417	461	563
Philippines					
Platinum	84	77	42	18	—
Palladium	150	131	72	26	—
Australia					
Platinum	—	) 30	60	10	6
Palladium	—	)	164	299	286
World total	131 000	163 000	180 000	178 000	186 000

(a) Recovered from copper refining

(b) Recovered by refineries from domestic platinum, gold and copper ores

(c) From gold ores

(d) Sales

(e) Platinum metals content of concentrates (produced from Ni-Cu ores), residues and matte exported

Exports of Platinum Group Metals

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom					
Platinum –					
Ingots, sponge & powder	17 659	20 813	) 40 855	25 893	20 159
Other (a)	9 288	9 790)		
Other platinum metals (a)	16 632	17 642	15 455	13 286	18 714
Belgium-Luxembourg					
Platinum, unwrought or partly worked (a)	2 094	2 358	2 560	3 205	2 823
France					
Unwrought platinum (a)	2 580	1 732	2 337	2 357	2 256
Palladium (a)	661	1 423	697	2 320	1 497
Germany, Federal Republic of					
Platinum, unwrought or partly worked (a)	18 001	14 449	15 155	10 090	10 644
Italy					
Unwrought platinum (a)	1 287	1 167	1 365	1 362	887
Netherlands					
Unwrought platinum & platinum metal	1 043	826	863	1 187	1 030
Norway					
Platinum	1 397	1 205	959	1 448	1 508
Soviet Union					
Export data not available					
Imports of platinum metals from Soviet Union into the following countries					
United Kingdom	4 390	2 489	—	595	2 034
France	2 506	4 416	2 608	1 664	1 028
Germany, Federal Republic of	9 757	7 361	8 445	4 593	7 176
Netherlands	67	463	56	32	157
United States	22 793	26 813	31 433	10 038	20 276
Japan	37 918	43 616	34 550	23 929	12 693
Switzerland					
Unwrought platinum	4 630	7 687	8 081	9 252	15 033
Yugoslavia					
Palladium	38	...	89	...	210
South Africa					
Platinum & platinum metals, unwrought or semi-manufactured (b)	£14 613 800	£8 945 200	£22 917 400	£500	£20 700
Canada					
Platinum metals	1 646	1 966	1 998	2 599	2 039
of which: Re-exports	1 038	1 548	1 178	539	384
Ores & concentrates (c)	12 755	13 917	16 321	13 472	12 072
USA					
Platinum & Platinum metals ores & concentrates (c)	996	158	1 415	240	194
Platinum –					
Unwrought or partly worked	9 790	12 183	13 296	13 524	6 938
of which: Re-exports	1 483	2 802	3 249	5 304	2 924
Platinum metals –					
Unwrought or partly worked	6 229	9 110	15 739	11 821	7 024
of which: Re-exports	2 737	4 250	5 500	4 282	1 635
Colombia					
Platinum	757	806	...	...	...

Exports of Platinum Group Metals

Country	1972	1973	1974	1975	1976
Japan					
Platinum	3 764	3 972	2 185	4 263	2 076
Platinum metals	1 136	414	4 801	480	303
Platinum alloys	534	2 262	134	487	1 152
Lebanon					
Platinum	18	37	...	...	...
Taiwan					
Platinum & platinum metals (a)	7 465	6 403	2	100	...
Australia					
Platinum & platinum metals (a)	1 132	1 056	726	550	623

(a) Including alloys

(b) Including sponge platinum

(c) Platinum metals content of ores and concentrates

Imports of Platinum Group Metals

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	£27 119 000	£46 870 000	£61 808 000	...	...
Platinum & platinum metals	9 738	7 990	9 781	9 506	7 776
France					
Platinum, unwrought (a)	4 642	3 897	3 600	3 849	3 096
Palladium, unwrought (a)	2 388	4 975	3 222	3 545	2 410
Germany, Federal Republic of					
Platinum, unwrought or partly worked (a)	23 928	22 440	26 578	11 286	12 970
Italy					
Platinum unwrought (a)	2 003	1 721	2 006	1 043	1 399
Platinum group metals including semi-manufactured	3 760	2 305	2 875	1 469	4 452
Netherlands					
Platinum (a)	1 035	1 026	383	7 171	893
Austria					
Unwrought platinum & platinum metals (a)	1 210	382	276	109	211
Finland					
Unwrought platinum	25	111	105	115	181
Norway					
Unwrought platinum	18	54	66	30	9
Switzerland					
Unwrought platinum	5 538	10 150	14 146	11 227	18 636
Turkey					
Platinum & platinum metals	878	260	102	19	83
Yugoslavia					
Platinum & palladium	80	40	136	1 008	1 794
Libya					
Platinum & platinum metals (b)	151	...	117	121	100
Nigeria					
Platinum & platinum metals	333	14	19	56	56
South Africa					
Platinum & platinum metals	124	49	1 001	2 213	509
Tunisia					
Platinum	8	24	...	13	8
Zambia					
Platinum	23	20	78	...	...
Canada					
Platinum & platinum metals (c)	1 484	1 989	1 528	1 896	1 325
Costa Rica					
Unwrought platinum & platinum metals	233	243	341	...	...
Mexico					
Platinum	34	24	45	132	5
Palladium	215	210	103	126	21
USA					
Ores & concentrates (d)	330	4 671	1 181	1	—
Platinum					
Unwrought	12 704	16 125	28 326	18 250	28 139
Partly worked	6 468	4 843	6 201	3 006	2 975
Platinum metals – Unwrought or partly worked					
Iridium, osmium & osmiridium	1 467	860	1 109	716	902
Palladium	28 063	35 904	41 620	16 301	34 940
Rhodium	1 581	2 899	3 067	2 551	1 995
Ruthenium	1 948	2 091	1 999	527	2 385

Imports of Platinum Group Metals

kilograms

Country	1972	1973	1974	1975	1976
Argentina					
Platinum	644	20	246	16	17
Palladium	58	49	7 060	64	40
Brazil					
Unwrought platinum	22	47	38	77	82
Venezuela					
Platinum & platinum metals (b)	81	350	690	136	..
China					
Platinum & platinum metals (a)	£3 734 900	£6 363 900	£1 521 200	...	...
Hong Kong					
Platinum unwrought	4 067	6 571	2 892	5 795	8 643
India					
Platinum	226	528	502	531	560
Iran (f)					
Unwrought platinum & scrap	...	£23 000	£97 000	£68 000	£72 000
Japan					
Platinum	34 877	41 600	37 129	48 614	37 764
Palladium	28 900	27 055	21 099	13 746	18 957
Rhodium	313	548	764	1 401	875
Iridium, etc.	131	669	240	407	755
Alloys of platinum metals. unwrought or partly worked	234	344	245	130	351
Korea, Republic of					
Platinum	2 011	19	515	926	) 556
Platinum alloys	31	48	20	88)
Lebanon					
Unwrought platinum	159	751	...	...	...
Malaysia (e)					
Platinum & other platinum metals	33	87	32	27	15
Singapore					
Unwrought platinum	169	36	11	62	199
Taiwan					
Platinum & platinum metals	68	300	873	5 436	3 386
Thailand					
Platinum & platinum metals	68	436	1	39	19
Australia					
Platinum metals (a)(h)	5 630	64 613	1 439	1 425	784
New Zealand (g)					
Platinum & platinum metals	94	83	111	140	87

(a) Including alloys

(b) Unwrought or partly worked

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

(d) Platinum metals content of ores and concentrates

(e) From 1975 includes Sabah and Sarawak

(f) Years ended 20 March following that stated

(g) Years ended 30 June of that stated

(h) Figures for 1972 and 1973 include the total weight of catalysts and substrates

Production of Potashtonnes (K₂O content)

Country	1972	1973	1974	1975	1976
France					
Chloride	1 577 530	2 038 636	2 078 400	) 2 085 000	1 738 000
Other fertiliser salts	46 972,	28 018	4 000		
Germany, Federal Republic of					
Kainite, sylvinite	2 844 750	2 975 210	3 089 544	2 607 113	2 441 000
Italy					
Potassic salts, crude	216 000	215 000	245 000	220 000	203 000
German Democratic Republic					
Potassic salts	2 458 000	2 556 000	2 864 000	3 019 000	3 161 000
Soviet Union	* 5 433 000	* 5 917 000	* 6 586 000	* 7 944 000	* 8 310 000
Spain					
Chloride	533 187	474 041	395 629	459 417	630 252
Congo	287 000	269 000	288 000	286 000	254 000
Canada					
Chloride	3 927 618	4 261 996	5 480 433	5 435 706	4 995 862
USA					
Potassic salts	2 412 000	2 361 000	2 315 000	2 269 000	2 177 000
Chile					
Nitrate	* 24 000	* 25 000	* 13 000	* 12 000	* 15 000
China	* 280 000	* 300 000	* 300 000	* 300 000	* 300 000
Israel					
Chloride	561 000	582 245	607 000	716 000	690 000
World total	20 600 000	22 000 000	24 300 000	25 400 000	24 900 000

Exports of Potash

Country	1972	1973	1974	1975	1976
United Kingdom					
Fertiliser salts	2 822	1 832	3 032	4 428	24 070
Caustic potash	800	871	1 221	310	713
Belgium-Luxembourg					
Fertiliser salts (a)	61	126	207	90	101
Carbonate	2 757	2 019	3 348	907	1 049
Chloride (a)	3 344	1 520	2 510	3 585	4 407
Nitrate	279	109	143	104	483
Sulphate (a)	194 330	245 974	284 410	214 596	217 450
France					
Crude natural	36 778	32 566	24 148	11 993	12 869
Caustic potash	10 084	11 080	19 110	11 396	11 865
Chloride	619 890	616 608	698 936	703 921	543 828
Sulphate	1 175	2 063	4 425	1 426	487
Nitrate	6 205	5 122	5 740	2 386	3 236
Germany, Federal Republic of					
Potassic salts, natural –					
crude	38 939	41 258	43 117	7 438	7 046
Carbonate	18 649	21 328	14 249	8 183	10 569
Chloride	1 434 513	981 783	1 014 132	763 431	675 998
Sulphate (a)	452 595	192 194	222 324	232 703	191 342
Caustic potash (b)	12 904	11 720	16 214	11 645	16 075
Italy					
Caustic potash	842	1 334	775	864	1 591
Sulphate	4 795	26 093	31 210	67 789	93 535
Netherlands					
Carbonate	1 704	630	648	17	91
Nitrate (d)	213	252	227	13	82
Chloride (a)	15	171	1 199	2 328	587
Sulphate (a)	119	111	414	445	118
Caustic potash	41	103	74	136	33
German Democratic Republic					
Fertiliser salts (a)	1 820 000	1 819 000	2 089 000	2 252 000	2 428 000
Carbonate	8 526	8 274	9 315	8 225	8 644
Caustic potash	11 424	9 643	9 782	8 842	8 130
Poland					
Potassic salts	6 305	5 123	7 105	5 750	8 633
Portugal					
Chloride	1 020	616	75	3	193
Sulphate (a)	1 006	1 089	368	—	500
Caustic potash	25	11	4	5	13
Soviet Union					
Fertiliser salts	4 099 000	4 774 000	5 600 000	5 985 643	5 566 833
Spain					
Chloride	300 829	199 333	151 073	65 035	346 309
Nitrate	774	330	208	156	133
Sulphate	86 725	111 050	79 740	62 946	62 320
Sweden					
Caustic potash	2 523	3 553	3 816	2 265	2 832
Carbonate	—	8	—	6	3
Chloride	3 209	6 357	0	1 803	1 244
Congo					
Potassic fertilisers	353 976	457 462	405 730	408 159	400 379
Ivory Coast					
Potassic fertilisers	154	...	815	1 152	71
South Africa					
Fertiliser salts & potassic fertilisers	719	2 313	(e) * 1 500	...	...
Canada					
Potassium chloride muriate	5 749 779	7 129 377	9 044 493	7 242 070	8 278 141
USA					
Fertiliser salts –					
crude, natural (a)	3 398	1 335	1 153	2 722	1 921
Chloride (a)	617 236	704 124	604 840	564 542	735 666
Other potassic fertilisers (a)	72 852	100 788	107 788	139 399	119 641
Caustic potash (a)	5 104	5 502	4 754	6 703	8 024

Potash

Exports of Potash

tonnes

Country	1972	1973	1974	1975	1976
India					
Nitrate	24	19	18	18	6
Caustic potash (c)	438	1 222	595	249	384
Carbonate (c)	197	835	1 104	349	168
Israel					
Carbonate	2 167	1 519	1 961	1 901	2 946
Japan					
Chlorate	1 025	376	185	410	613
Chloride	4 412	871	80	401	1 307
Sulphate	1 451	1 500	100	5 174	3 751
Caustic potash	5 006	3 362	4 373	5 279	5 165
Singapore					
Potassic fertilisers	121 064	125 566	182 968	134 740	153 045
Taiwan					
Chlorate	685	527	557	1 250	947

(a) K₂O content

(b) Including sodium hydroxide and potassium peroxide

(c) Years ended 31 March following that stated

(d) Excludes exports to Belgium-Luxembourg, if any

(e) IGS estimate, based on known imports into certain countries

Imports of Potash

Country	1972	1973	1974	1975	1976
United Kingdom					
Fertiliser salts, crude	37 803	35 217	23 685	28 449	30 727
Carbonate	10 886	14 381	13 305	8 983	11 791
Caustic potash	2 588	3 222	3 824	2 186	3 715
Chloride	663 001	731 062	799 267	658 593	705 663
Nitrate	8 481	10 896	11 666	7 430	6 931
Sulphate	25 589	43 236	31 778	21 335	25 965
Other potassic compounds	34 867	26 922	10 105	1 870	—
Belgium-Luxembourg					
Fertiliser salts (a)	14 132	14 926	13 493	12 862	9 831
Carbonate	6 382	5 009	7 573	4 891	6 229
Chlorates	541	391	421	491	227
Nitrate	1 984	781	1 237	1 088	1 692
Chloride (a)	504 750	585 189	632 900	515 897	467 575
Sulphate (a)	16 631	5 770	7 180	16 640	18 939
Denmark					
Carbonate	4 274	269	288	202	264
Caustic potash	1 565	1 991	1 153	1 018	1 590
Chlorate	45	14	(f) 18	(f) 6	(f) 14
Chloride	225 078	246 462	129 247	109 315	204 201
Nitrate	1 226	1 457	1 305	1 490	1 535
Sulphate	750	952	550	235	450
France					
Chloride	233 077	319 671	233 228	303 676	178 282
Sulphate	77 094	91 015	121 283	91 758	126 023
Nitrate	12 787	12 548	12 374	6 660	14 700
Caustic potash	170	179	129	115	220
Sulphate of magnesium & potassium	11 284	14 717	14 261	8 729	12 899
Germany, Federal Republic of					
Carbonate	6 249	5 479	9 905	6 219	7 280
Caustic potash	6 964	498	2 210	5 171	1 089
Chlorate (f)	460	403	314	379	93
Nitrate	4 497	3 022	3 512	2 499	2 220
Chloride	63 501	42 452	45 538	35 786	43 222
Irish Republic					
Chloride	228 368	—	—	—	—
Other potassic fertilisers	...	426 954	268 727	169 894	256 290
Caustic potash	606	2 970	602	283	1 157
Italy					
Fertiliser salts	24 552	40 542	29 471	23 027	24 116
Carbonate	8 196	9 742	11 357	6 513	8 274
Caustic potash	336	466	1 421	679	767
Chloride	175 482	285 656	345 306	263 372	314 161
Nitrate	4 049	6 815	14 280	3 743	7 849
Sulphate	30 599	25 492	14 882	7 587	11 280
Netherlands					
Fertiliser salts (a)(e)	2 504	918	696	890	701
Carbonate	6 305	7 370	7 331	5 479	6 623
Chloride (a)	176 431	161 523	175 386	120 192	145 033
Nitrate (e)	5 491	6 168	6 992	5 816	6 317
Sulphate (a)	36 290	36 027	38 032	29 153	30 712
Austria					
Fertiliser salts	55 289	31 010	39 746	19 257	19 982
Caustic potash	665	1 017	1 553	1 319	1 937
Carbonate	1 403	1 564	1 897	1 201	1 508
Chloride	288 282	220 741	299 428	214 248	188 417
Nitrate	647	840	917	449	607
Sulphate	37 553	32 937	40 556	25 568	23 889
Czechoslovakia					
Fertiliser salts (a)	611 000	577 000	591 000	690 000	634 000

Imports of Potash

tonnes

Country	1972	1973	1974	1975	1976
Finland					
Potassic salts, natural	13	5	—	2	2
Chloride	221 192	265 862	268 801	279 965	193 500
Chlorate	303	216	167	...	...
Carbonate	1 079	1 880	2 352	1 680	538
Caustic potash	255	289	431	474	467
Nitrate	966	1 075	1 216	1 325	543
Sulphate	12 913	17 560	17 595	25 943	12 355
Greece					
Carbonate	1 233	1 416	...	674	1 919
Caustic potash	221	280	512	171	210
Nitrate	145	150	136	168	1 584
Sulphate	21 812	27 028	11 036	28 120	51 306
Hungary					
Fertiliser salts	792 000	856 000	991 000	1 373 000	1 172 000
Iceland					
Fertiliser salts	8 678	7 603	7 395	2 974	6 555
Carbonate	111	97	95	97	185
Caustic potash	7	10	—	25	30
Norway					
Fertiliser salts	319	172	219	212	151
Carbonate	448	384	407	394	398
Caustic potash	565	622	799	904	1 214
Chlorate	153	131	132	138	71
Chloride	165 567	151 421	170 685	176 873	146 765
Nitrate	255	1 788	3 903	2 602	2 993
Sulphate	69 337	96 344	97 865	92 435	72 217
Poland					
Fertiliser salts	2 108 000	2 422 000	2 658 000	2 933 000	2 857 000
Carbonate	4 987	4 782	7 208	5 750	7 206
Chloride	18 740	17 827	19 520	22 103	19 650
Portugal					
Carbonate	393	526	454	504	621
Caustic potash	252	443	203	352	368
Chlorate	297	305	341	304	330
Chloride	47 201	41 916	52 696	35 105	58 349
Nitrate	638	815	635	542	803
Sulphate (a)	—	—	550	2	—
Romania					
Fertiliser salts (a)	58 600	59 800	64 700	91 900	109 500
Soviet Union					
Caustic potash	10 300	4 100	5 300	7 519	10 015
Sweden					
Fertiliser salts	385	323	650	329	418
Carbonate	1 037	1 309	2 044	1 807	1 717
Caustic potash	93	2 397	2 557	795	518
Chloride	9 462	1 064	272	171	62
Nitrate	1 580	1 696	1 889	1 526	1 391
Switzerland					
Fertiliser salts	98 146	95 009	101 665	84 741	80 564
Carbonate	2 088	2 220	2 760	2 243	3 141
Caustic potash	1 466	1 500	1 391	1 136	1 409
Nitrate	549	694	1 187	603	565
Sulphate	268	347	94	185	49
Turkey					
Carbonate	2 889	1 516	1 236	2 735	3 882
Caustic potash	803	421	400	632	1 153
Chlorates	894	460	669	544	602
Nitrate	295	773	401	854	298
Sulphate	16 269	0	—	1	4 974
Yugoslavia					
Fertiliser salts	68	...	...	...	22
Caustic potash	2 222	1 137	1 809	1 992	1 104
Chloride	367 095	325 141	375 860	237 853	318 090
Sulphate	8 108	6 082	7 561	9 461	14 905

Imports of Potash

Potash

tonnes

Country	1972	1973	1974	1975	1976
Algeria					
Chloride	)	10 059	52 808	57 357	...
Sulphate	) 79 233	37 625	17 975	11 251	37 728
Angola					
Chloride	426	987	...	...	...
Sulphate	965	969	...	...	...
Cameroon					
Potassic salts, natural	941	1 425	1 757	...	...
Potassic fertilisers	4 446	6 534	9 176	11 190	...
Ghana					
Potassic salts, crude	12	334	...	14	...
Fertiliser salts	...	1 141	2 709	...	...
Ivory Coast					
Caustic potash	223	...	8	5	131
Potassic fertilisers	24 469	14 649	35 996	34 769	41 711
Kenya					
Fertiliser salts	7 305	2 162	3 531	334	3 917
Liberia					
Potassic fertilisers	588	715	3 069	468	1 847
Libya					
Potassic fertilisers	200	...	—	6 162	...
Madagascar					
Fertiliser salts	3 931	3 177	4 462	6 688	7 552
Malawi					
Potassic fertilisers	182	27	—	435	140
Mauritius					
Fertiliser salts	9 366	7 888	21 089	17 220	...
Morocco					
Chloride	18 635	23 231	17 377	38 183	18 491
Sulphate	24 867	15 934	40 617	33 275	40 750
Nitrate	2 738	1 799	2 122	390	1 377
Chlorate	139	191	146	189	142
Caustic potash	102	119	147	142	192
Mozambique					
Potassic fertilisers	2 028	5 342	3 391	1 541	2 514
Nigeria					
Fertiliser salts	3 968	10 767	1 443	4 605	5 762
Senegal					
Fertiliser salts	10 667	10 492	12 709	31 636	...
Sierra Leone					
Fertiliser compounds	114	440	...	229	264
South Africa					
Fertiliser salts	181 456	177 410	309 820	245 809	205 279
Caustic potash	840	1 462	1 963	1 050	428
Potassic fertilisers	26 870	45 053	18 179	22 402	11 613
Sudan					
Caustic potash	2	2	5	29	28
Tanzania					
Fertiliser salts	5 427	6 278	6 179	9 032	5 695
Togo					
Potassic fertilisers	399	162	242	...	...
Tunisia					
Fertiliser salts	546	7 299	18 739	14 794	4 982
Nitrate	25	135	169	...	95
Uganda					
Fertiliser salts	2 992	1 420	—	350	—
Zaire					
Potassic fertilisers	...	...	960	1 175	529
Zambia					
Chloride	181	763	835	...	...
Sulphate	145	216	585	...	...
Barbados					
Fertiliser salts	3	81	711	356	307

Imports of Potash

tonnes

Country	1972	1973	1974	1975	1976
Belize					
Potassic fertilisers	83	636	—	421	...
Canada					
Caustic potash	1 644	1 740	1 953	5 949	5 375
Carbonate	1 099	1 057	1 481	1 034	987
Chloride	62 718	98	312	347	4 199
Nitrate	5 539	2 791	3 316	2 618	1 691
Sulphate	18 612	22 852	22 131	10 432	7 831
Other potassic fertilisers	26 157	44 829	51 637	44 458	45 134
Costa Rica					
Fertiliser salts	43 337	40 768	45 752	47 296	45 715
El Salvador					
Fertiliser salts	8 022	9 929	11 741	8 022	1 268
Guatemala					
Fertiliser salts	2 165	3 983	3 094	7	63
Honduras					
Fertiliser salts	435	619	3 746	354	6 122
Jamaica					
Fertiliser salts	12 526	9 461	15 013	21 514	...
Martinique					
Fertiliser salts	928	1 206	2 589	1 918	...
Mexico					
Carbonate	1 637	2 769	2 874	464	3 953
Chloride	60 819	77 352	67 504	95 119	94 351
Sulphate	20 526	19 285	20 081	16 180	32 802
Caustic potash	1 370	1 935	1 702	513	1 916
Potassium & sodium nitrate	5 094	2 093	1 577	6 650	1 500
Nicaragua					
Fertiliser salts	...	9 472	5 556	753	...
Panama					
Fertiliser salts	7	2 570	5 742	5 033	10 727
Trinidad & Tobago					
Chloride & sulphate	3 760	4 046	2 258	2 645	1 842
USA					
Carbonate (a)	840	967	1 197	1 239	1 262
Caustic potash (a)	1 134	764	1 358	5 205	524
Chlorate & perchlorate (a)	142	169	142	73	415
Chloride (a)	2 644 665	3 210 884	3 889 420	3 393 305	4 136 278
Sulphate (a)	29 761	24 790	26 255	34 912	21 250
Cyanide (a)	524	464	731	189	731
Nitrate, crude (a)	7 579	10 863	5 120	12 987	4 943
Nitrate, refined (a)	1 007	319	144	347	58
Potassium-sodium nitrate mixtures (a)	3 533	6 767	3 294	3 169	5 083
Other potassic fertilisers (a)	304	476	772	100	180
Argentina					
Carbonate	1 061	1 120	1 388	769	935
Caustic potash	741	544	1 111	740	511
Chlorate	860	677	496	576	514
Nitrate	86	55	215	159	165
Sulphate	2 811	3 954	1 151	1 724	2 337
Chloride	8 963	11 658	10 795	3 904	6 824
Brazil					
Caustic potash	1 815	3 336	3 695	2 083	6 066
Nitrate	3 079	7 240	10 713	8 274	3 455
Nitrate of potash & soda	5 210	18 350	11 392	17 308	27 392
Chloride	746 228	843 123	989 097	884 330	1 157 614
Sulphate	14 497	24 397	27 529	29 409	32 824
Carbonate	3 259	4 556	5 384	2 868	4 188
Chile					
Caustic potash	126	176	144	...	...
Chloride	18 729	29 095	28 440	...	...
Sulphate	9 252	8 114	16 479	...	...
Other potassic fertilisers	3 672	1 795	16 195	...	...

Imports of Potash

Country	1972	1973	1974	1975	1976
Colombia					
Chlorate	229	290	...	...	...
Chloride	60 117	52 033	...	...	...
Nitrate	271	471	...	...	...
Sulphate	14 194	33 061	...	...	...
Caustic potash	231	45	...	...	...
Carbonate	111	259	...	...	...
Guyana					
Fertiliser salts	2 120	2 676	5 220	...	...
Uruguay					
Nitrate	21	22	21	21	...
Caustic potash	...	...	213	158	...
Venezuela					
Carbonate	110	61	10	100	...
Chlorate	145	122	—	343	...
Chloride	4 399	—	4 500	12 359	...
Nitrate	308	554	263	4 475	...
Caustic potash	165	498	25	457	...
Brunei					
Potassic fertilisers	—	2 549	3 404	92	3 127
China					
Potassic fertilisers	* 21 000	* 77 000	* 214 000	...	...
Cyprus					
Fertiliser salts	1 839	1 168	1 453	1 225	495
Hong Kong					
Nitrate	987	1 201	466	435	709
Chlorate	158	71	54	26	109
Other fertiliser salts	13	16	10	...	1
Carbonate	135	120	150	137	107
India (b)					
Carbonate	263	231	34	...	33
Caustic potash	9	5	...	...	926
Sulphate	9	5 000	10 016	6	1 000
Chloride	359 159	402 128	471 025	233 272	291 251
Other potassic fertilisers	45 167	54 399	69 770	53 012	112 682
Indonesia					
Potassic fertilisers	29 748	72 931	72 109	30 134	40 408
Iran (c)					
Fertiliser salts	1 000	50	8 945	2 023	47
Caustic potash	273	218	51	149	297
Japan					
Fertiliser salts	35 461	26 868	48 182	15 711	18 499
Chloride	995 771	1 131 548	1 282 360	1 216 454	972 586
Sulphate	145 194	163 340	189 840	152 961	118 087
Jordan					
Fertiliser salts	448	742	310	961	4 425
Korea, Republic of					
Caustic potash	90	446	622	485	1 035
Chlorate	183	2	30	6	36
Nitrate	5 585	7 965	2 504	3 357	507
Carbonate	176	461	1 366	1 061	1 277
Sulphate	8 983	16 796	14 339	34 420	33 655
Chlorides	140 735	163 187	191 853	297 950	195 757
Lebanon					
Fertiliser salts	2 696	1 706	...	...	...
Malaysia (g)					
Potassic salts, natural	436	998	137	928	10 716
Potassic fertilisers	138 862	150 784	164 666	168 418	229 208
Philippines					
Caustic potash	52	47	37	108	25
Carbonate	299	192	183	151	101
Sulphate	2 002	1 500	1 981	4 500	4 600
Other potassic fertilisers	81 895	83 043	87 485	85 868	68 819

Potash

Imports of Potash

tonnes

Country	1972	1973	1974	1975	1976
Sabah (h)					
Fertiliser salts	5 773	4 865	8 401		
Sarawak (h)					
Potassic salts, crude, natural	506	173	473		
Potassic fertilisers	910	932	3 007		
Singapore					
Potassic fertilisers	129 531	145 386	226 279	194 850	186 924
Sri Lanka					
Potassic fertilisers	...	...	25 598	...	28 301
Taiwan					
Fertiliser salts	111 546	127 685	204 868	198 894	170 133
Carbonate	931	2 565	3 206	1 508	2 968
Nitrate	512	529	415	94	501
Caustic potash	397	357	225	347	1 249
Thailand					
Chlorate	455	384	251	225	240
Caustic potash	124	264	82	33	307
Chloride	250	692	300	6 401	150
Nitrate	1 363	708	1 796	1 799	4 505
Potassium-nitrophosphate	1 543	1 115	2 662	500	100
Sulphate	1 500	2 300	...	6 504	5 500
Other potassic fertilisers	3 110	2 717	6 259	13 075	6 800
Australia (d)					
Carbonate	1 187	1 835	2 374	2 228	958
Caustic potash	1 820	1 915	2 152	2 762	1 190
Chloride	130 431	156 184	166 711	198 555	100 542
Nitrate	2 863	3 820	5 401	6 084	5 879
Sulphate	15 482	9 100	7 860	12 552	9 428
Other potassic fertilisers	891	128	8 310	1	219
Other compounds	587	576	970	605	137
New Zealand (d)					
Chloride	175 352	253 648	299 283	233 448	194 988
Nitrate	318	741	396	663	317
Sulphate	4 062	4 299	2 878	3 381	2 906
Other potassic fertilisers	691	41	178	254	26
Caustic potash	352	368	617	787	96

(a) K₂O content

(b) Years ended 31 March following that stated

(c) Years ended 20 March following that stated

(d) Years ended 30 June of that stated

(e) Excludes imports from Belgium-Luxembourg, if any

(f) Includes potassium and ammonium chlorate

(g) From 1975 includes Sabah and Sarawak

(h) From 1975 included with Malaysia

Production of Salt

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Rock salt	1 298 000	1 121 000	990 000	754 000	611 000
Brine salt	)	1 643 000	1 862 000	1 740 000	1 918 000
Salt in brine (a)	) * 7 600 000	5 754 000	5 569 000	5 136 000	5 477 000
Denmark	306 079	368 427	422 815	244 295	349 020
France					
Rock salt (b)	1 427 000	1 570 000	1 677 000	1 357 000	1 685 000
Salt in brine	3 107 000	3 533 000	3 515 000	3 054 000	3 300 000
Sea salt	1 006 000	1 268 000	1 080 000	1 127 000	1 431 000
Germany, Federal Republic of					
Rock salt	6 027 759	6 564 113	6 982 667	5 378 996	6 623 000
Brine salt	714 016	750 402	820 190	785 853	816 000
Salt in brine	1 722 029	2 886 484	3 517 519	3 151 093	4 105 000
Italy					
Rock salt & brine salt	3 298 620	3 720 768	4 006 300	3 191 179	3 410 280
Netherlands (j)	2 803 000	3 044 000	3 387 000	2 690 000	3 026 000
Austria					
Rock salt	694	1 077	337	899	953
Evaporated salt	256 105	291 724	294 392	257 848	332 330
Bulgaria	104 000	74 000	130 000	88 900	99 800
Czechoslovakia	319 425	318 254	318 116	322 603	336 439
German Democratic Republic	2 136 700	2 286 400	2 328 000	* 2 430 100	2 559 600
Greece	147 956	116 971	148 880	175 659	140 918
Malta (c)	1 300	* 1 000	900	800	800
Poland					
Rock salt	1 209 000	1 260 000	1 405 000	1 582 000	1 652 000
Brine salt & other salt	1 801 000	1 818 000	1 890 000	1 942 000	2 166 000
Portugal					
Rock salt	285 702	302 381	309 797	293 914	306 492
Sea salt	212 113	220 962	223 107	212 687	163 436
Romania	3 147 000	3 296 000	3 923 000	3 833 000	4 210 000
Soviet Union	* 12 000 000	* 12 200 000	* 13 400 000	* 13 700 000	* 14 000 000
Spain					
Rock salt	1 215 522	1 461 614	1 624 912	1 833 440	1 999 869
Sea salt	629 344	711 393	605 819	1 276 353	1 136 314
Other salt	20 935	26 338	26 318	22 508	22 198
Switzerland	256 097	299 248	306 757	237 097	308 522
Turkey	430 000	888 723	913 401	679 296	...
Yugoslavia					
Sea salt	8 754	50 969	25 857	38 061)
Rock salt	79 346	97 623	93 082	78 466)
Brine salt	27 122	17 114	15 273	5 530	) * 288 000
Vacuum salt	153 084	165 528	186 617	173 803)
Algeria					
Brine salt & sea salt	* 108 000	* 130 000	* 140 000	125 825	* 150 000
Angola	125 302	96 717	* 100 000	* 100 000	* 100 000
Cape Verde Is.	36 443	38 870	35 000	21 000	14 000
Egypt	382 781	454 312	485 233	621 399	508 000
Ethiopia (d)	162 765	107 077	121 932	101 794	88 000
Ghana	49 895	49 900	* 52 000	* 52 000	* 52 000
Kenya	27 761	30 946	30 256	5 553	49 906
Libya	* 16 000	* 10 000	* 10 257	* 10 000	* 10 000
Mauritius (c)	4 500	* 6 000	* 5 000	* 5 000	* 5 000
Morocco	45 508	27 600	36 054	33 574	15 232
Mozambique	28 123	41 825	31 000	32 000	* 28 000
Namibia	* 110 100	* 110 000	* 209 000	* 210 000	* 210 000
Senegal	135 170	121 632	150 000	133 000	142 000
South Africa	370 423	391 249	220 839	264 412	223 662
Sudan	42 277	67 801	68 062	67 094	82 817
Tanzania	32 467	38 392	38 400	44 390	22 000
Tunisia (c)	330 000	325 200	296 400	420 000	288 000
Uganda	* 2 700	* 2 700	* 3 000	* 3 000	* 3 000

Production of Salt

tonnes

Country	1972	1973	1974	1975	1976
Bahamas	807 000	1 121 000	1 027 000	1 233 000	1 491 400
Canada					
Rock salt	3 539 017	3 436 452	3 783 078	3 626 123	4 215 963
Other salt (e)	1 375 135	1 611 693	1 663 642	1 496 450	1 639 288
Costa Rica	20 000	13 000	14 000	15 000	20 000
Cuba	57 411	72 392	79 383	* 90 000	...
Dominican Republic					
Rock salt	2 217	2 022	2 154	) * 40 000	* 40 000
Sea salt	29 237	37 105	37 676)	
El Salvador (c)	29 325	35 131	34 708	* 30 000	* 30 000
Guatemala (c)	10 379	22 175	* 23 000	* 23 000	...
Honduras	* 27 000	* 32 000	* 32 000	* 31 000	* 31 000
Mexico	4 558 415	4 318 980	5 507 863	5 354 000	4 591 000
Nicaragua (c)	* 15 000	* 10 000	* 10 000	* 12 000	* 15 000
Panama (c)	10 978	20 455	20 597	12 293	12 274
USA (f)					
Rock salt	13 094 000	11 201 000	13 458 000	12 957 000	14 214 000
Salt in brine	22 441 000	23 297 000	23 386 000	19 415 000	20 790 000
Evaporated salt	5 307 000	5 338 000	5 372 000	4 849 000	5 087 000
Argentina					
Rock salt	1 465	1 658	1 188	1 111	1 454
Other salt	819 305	697 608	954 936	1 566 371	659 935
Brazil (c)	2 168 082	1 854 595	1 552 418	2 145 345	2 472 638
Chile	437 263	344 730	239 000	299 000	428 000
Colombia					
Rock salt	335 842	283 000	184 000	185 000	* 188 000
Sea salt	673 965	1 047 000	690 000	741 000	* 706 000
Peru	214 144	301 068	338 245	304 215	* 300 000
Venezuela (c)	* 260 000	275 000	223 000	290 000	* 300 000
Afghanistan (g)	38 100	38 433	50 848	60 000	70 000
Bangladesh	* 320 000	* 760 000	169 342	750 000	784 000
Burma					
Sea salt & brine salt	161 000	170 591	125 170	(h) 142 247	* 127 000
China	* 18 000 000	* 20 000 000	* 25 000 000	* 30 000 000	* 30 000 000
Cyprus	5 766	—	3 608	6 096	3 320
India					
Rock salt	4 252	3 598	5 272	3 330	4 438
Other salt	6 515 748	6 860 402	5 910 727	6 396 670	* 4 500 000
Indonesia	180 000	37 000	71 250	52 000	* 52 000
Iran (g)	400 000	350 000	400 000	400 000	700 000
Iraq(h)	* 54 000	* 60 000	* 60 000	* 60 000	* 60 000
Israel	61 689	95 864	114 566	116 792	86 561
Japan (i)	687 000	1 015 000	1 115 111	1 068 000	1 020 600
Jordan (j)	19 895	16 729	15 895	15 943	12 000
Korea, Dem. P.R. of	* 544 000	* 544 000	* 544 000	* 544 000	* 544 000
Korea, Republic of	451 711	741 525	574 189	665 330	690 000
Kuwait	5 000	10 030	13 000	15 000	15 426
Lebanon (c)	* 35 000	* 36 000	* 35 000	* 35 000	* 35 000
Pakistan					
Rock salt	368 062	378 389	355 488	405 000	417 000
Sea salt	212 407	103 637	124 974	127 000	142 000
Philippines (c)	219 500	220 000	195 671	70 625	203 386
Sri Lanka	157 677	123 041	120 287	120 997	140 000
Syria	50 000	35 100	40 642	34 546	54 000
Taiwan (c)	440 079	385 681	368 228	268 149	496 873
Thailand	* 163 000	* 163 000	* 163 000	* 163 000	* 163 000

Production of Salt

tonnes

Country	1972	1973	1974	1975	1976
Vietnam	* 250 000	* 350 000	* 350 000	* 350 000	* 350 000
Yemen Democratic Republic	63 000	* 75 000	* 75 000	* 75 000	* 75 000
Australia	(l) 3 339 665	4 203 815	5 008 775	4 569 561	5 488 753
New Zealand	59 400	63 500	54 864	40 000	41 000
World total (k)	145 000 000	152 000 000	164 000 000	161 000 000	169 000 000

(a) Used for purposes other than salt-making

(b) Including refined

(c) Sea salt

(d) Years ended 10 September of that stated

(e) Including salt in brine

(f) Sold or used by producers

(g) Years ended 20 March following that stated

(h) Years ended 31 March following that stated

(i) Government licensed plants

(j) Brine salt

(k) Salt is known to have been produced in many countries for which statistics are not available. Among these are Democratic Kampuchea, Laos, Madagascar, Mali, Martinique, Mauritania, Mongolia, Netherlands Antilles, Nigeria and Somalia

(l) Excludes Victoria production

Exports of Salt

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	420 908	479 130	605 600	518 870	575 964
Belgium-Luxembourg	30 565	150 199	123 690	103 992	106 011
Denmark	123 742	167 035	124 537	81 216	95 917
France	103 788	195 179	236 913	106 907	128 836
Germany, Federal Republic of	1 240 042	1 630 583	2 207 356	1 588 897	1 820 887
Italy	262 263	97 810	70 813	59 453	91 833
Netherlands	1 819 884	2 076 830	2 239 662	1 896 637	2 072 079
German Democratic Republic					
Rock salt	910 000	879 000	945 000	1 008 000	1 102 000
Norway					
Common salt	3 346	3 538	3 414	2 732	2 553
Poland	243 802	220 650	239 378	245 941	279 900
Portugal	459	359	467	568	16 311
Romania	652 100	647 000	734 300	678 600	667 500
Soviet Union	275 900	279 700	346 300	320 704	429 767
Spain	17 004	2 681	2 264	36 520	345 941
Sweden	349	1 930	730	261	5 837
Switzerland	55	37	2 250	711	1 004
Algeria	32 150	69 685	27 469	10 500	21 298
Angola	31 939	41 409	...	...	...
Egypt	16 233	30 771	14 857	10 151	7 006
Ethiopia	82 495	171 254	...	2 354	...
Ivory Coast	914	317	264	538	259
Kenya	383	407	343	363	312
Madagascar	2 294	2 189	3 078	1 967	1 845
Mali	1 219	...	2 932	...	...
Mozambique	7 185	4 371	5 125	8 577	1 921
Senegal	129 469	98 684	110 314	110 168	...
South Africa	40 079	40 238	10 133	6 770	19 596
Sudan	1 259	346	81	128	1 288
Tanzania	13 772	9 839	8 242	8 821	9 141
Tunisia	255 001	307 209	259 253	197 710	267 490
Uganda	1 105	224	560	123	35
Bahamas	907 832	750 476	974 757	1 108 960	...
El Salvador	14 638	13 982	15 371	19 270	20 296
Honduras	...	1 234	...	465	507
Mexico	4 968 748	3 878 224	4 469 837	3 622 290	3 281 676
Nicaragua	9 144	19 017	8 058	7 143	...
USA	789 195	552 819	472 618	1 240 933	913 867
Argentina	84 122	79 415	82 583	54 535	24 201
Brazil	1 403	26	13	32 416	1
Chile	234 271	109 360	13 686	...	...
Venezuela	35 481	11 992	25 257	975	...
Burma	24 826	4 015	2 011	...	...
India (b)	228 971	283 960	263 707	359 379	240 224
Iran (c)	2 160	2 513	2 059	1 974	1 603
Israel (e)	436	110	20	4	63
Japan	311	533	1 120	1 858	1 059
Jordan	—	1 288	748	...	2 948
Korea, Republic of	1 103	241	475	88	221
Kuwait	113	362	733	268	...
Malaysia (a)	209	784	461	2 443	1 267
Pakistan (d)	61 977	17 171	5 808	...	4 363
Singapore	14 108	14 402	12 153	12 408	11 996
Taiwan	13 693	2 500	400	6 600	7 948

Exports of Salt

Salt

tonnes

Country	1972	1973	1974	1975	1976
Thailand					
Sea salt	49	104 467	122 101	111 367	83 765
Other salts	1 476	4 407	3 855	4 794	6 237
Australia					
Refined salt	661	560	829	867	816
Other salt	2 416 222	3 474 506	4 210 165	3 650 777	4 276 229

(a) From 1975 includes Sabah and Sarawak

(b) Years ending 31 March following that stated

(c) Years ending 20 March following that stated

(d) Years ending 30 June of that stated

(e) Figures may be incomplete as value only given in Israeli trade return for exports to some countries

Imports of Salt

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Salt, fishery	16 140	16 355	9 012	7 384	6 104
Other salt	5 442	5 372	14 715	12 554	13 411
Belgium-Luxembourg					
Common salt	474 754	140 685	153 653	135 400	165 747
Refined salt	994 777	725 221	990 367	660 635	768 923
Denmark	231 257	175 249	265 364	122 124	205 686
France	122 669	158 755	162 087	131 412	127 494
Germany, Federal Republic of	493 428	748 847	777 476	641 976	776 954
Irish Republic					
Refined salt	4 897	) 59 610	63 928	65 249	69 429
Other salt	50 801				
Italy	4 349	200 045	49 589	41 211	139 149
Netherlands	25 133	17 115	24 448	24 318	32 123
Austria	1 179	2 296	8 629	494	107
Faeroe Islands	12 268	7 155	6 703	31 988	20 014
Finland	476 236	492 188	648 276	513 996	480 889
Greece	45 434	61 321	51 087	...	—
Greenland	3 889	444	3 365	614	405
Hungary	387 000	376 000	450 000	478 000	477 000
Iceland					
Common salt	47 807	34 317	66 080	56 316	35 659
Refined salt	291	254	269	268	272
Malta					
Refined salt	* £10 903	* £6 909	* £8 733	* £12 820	* £21 544
Other salt	1 185	1 133	1 513	1 053	801
Norway					
Common salt	174 678	145 436	160 858	141 929	127 878
Refined salt	156 856	166 557	175 441	171 371	160 737
Portugal	88 095	53 469	48 326	33 045	15 011
Spain	101 739	50 751	96 478	5 854	2 629
Sweden	966 964	1 074 317	1 203 559	1 222 025	1 210 308
Switzerland	2 282	2 051	2 261	2 143	1 737
Yugoslavia	71 610	114 280	128 605	113 547	141 761
Angola	104	92	...	...	...
Cameroon	23 150	22 288	20 272	22 381	5 669
Chad	4 090	4 920	5 240	...	...
Congo	18 866	3 766	1 826	3 034	2 106
Gabon	...	...	...	1 914	...
Ghana	42	384	590	93	...
Ivory Coast	28 705	16 192	33 884	32 920	30 716
Kenya	6 763	9 950	28 858	961	1 914
Liberia	3 304	3 389	4 319	2 998	372
Libya	30	20	342	3 068	863
Madagascar	863	628	156	108	17
Malawi	13 819	13 617	15 641	...	10 669
Mauritius	294	230	335	...	...
Morocco	7 740	9 492	5	11	4
Mozambique	84	92	154	118	271
Niger	12 774	6 684	9 393	...	...
Nigeria	156 187	200 586	181 650	199 466	289 859
Reunion	32	1 744	2 744	...	...
Seychelles	590	187	264	382	252
Sierra Leone	8 617	8 701	13 690	8 681	6 710
South Africa	2 002	1 793	16 594	48 491	46 585
Tanzania	5 287	1 998	4 400	1 173	2 240
Togo	6 583	5 231	4 244	6 188	...
Uganda	32 678	26 978	24 441	16 985	14 345
Upper Volta	19 756	15 280	...	...	...
Zaire	...	...	39 850	18 302	22 637
Zambia	23 126	33 988	12 124	...	...
Bahamas					
Crude salt	23 738	12 864	30 718	27 869	...
Refined salt	545	508	386	339	...
Barbados	2 212	1 916	...	108	4 694
Belize	575	88	490	94	...

Imports of Salt

Country	1972	1973	1974	1975	1976
Canada	929 189	841 936	736 573	1 183 144	1 523 345
Costa Rica	9 961	20 784	9 400	7 691	8 931
Dominica	314	415	400	358	...
Guadeloupe	709	2 944	2 497	2 617	...
Guatemala	12 392	9 766	15 568	19 060	18 924
Honduras	432	459	349	190	133
Jamaica	10 596	40 802	22 755	16 065	...
Martinique	918	2 759	2 363	2 377	...
Mexico	551	654	1 263	817	1 548
Nicaragua	11 879	29 639	32 194	26 464	...
Panama	1 806	4 052	672	1 780	614
St Kitts-Nevis-Anguilla	185	107	111	123	57
St Lucia					
Common salt	598	486	424	713	435
Refined salt	101	114	302	52	1 703
St Vincent	2 097	994	483	434	...
Trinidad & Tobago	12 159	24 765	15 813	13 043	9 156
USA	3 141 600	2 909 000	3 046 000	2 917 000	3 948 000
Brazil	27	45	123	144	5
Colombia	21	26	...	...	...
French Guiana	175	340	202	166	...
Guyana	3 246	2 483	3 885	...	...
Paraguay	28 085	28 165	27 317	22 965	23 687
Surinam	339	1 397	1 784	1 915	1 521
Uruguay	50 896	10 683	57 068	54 892	...
Brunei	1 945	1 690	902	3 012	4 745
Cyprus	490	565	349	505	504
Hong Kong	44 505	33 395	46 377	42 162	54 306
India	422	917	1 079	399	252
Indonesia	26 602	4 956	12 213	181 246	319 684
Iran (a)	39	40	51	283	28
Iraq	51	500	—	90	...
Japan	6 872 892	7 274 939	7 749 426	6 301 192	6 341 503
Korea, Republic of	275 708	267 912	261 315	311 581	517 967
Kuwait	4 276	5 322	6 230	4 523	...
Malaysia (b)	84 324	96 346	73 166	115 764	114 182
Philippines					
Crude	104 692	20 878	44 943	46 234	54 631
Refined	...	305	504	29	520
Qatar	...	1 350	640	764	1 891
Sabah (d)	4 152	4 362	3 801		
Sarawak (d)	6 926	7 882	8 684		
Saudi Arabia	2 109	1 891	...	1 784	...
Singapore	55 074	43 072	55 192	39 941	46 898
Syria	86	62	46	32	673
Taiwan	17 592	65 915	509 313	375 460	1 260 842
Thailand	163	163	196	149	209
Australia	44 960	8 586	8 321	13 603	32 590
Fiji	2 133	2 764	2 030	...	...
New Hebrides	169	177	248	* 163	...
New Zealand (c)	27 413	45 094	44 847	26 636	48 080
Papua New Guinea (c)	3 044	2 947	2 756	3 774	3 208
Solomon Islands	245	232	284	445	382
Western Samoa	320	411	151	298	729

(a) Years ended 20 March following that stated

(b) From 1975 includes Sabah and Sarawak

(c) Years ended 30 June of that stated

(d) From 1975 included with Malaysia

Sillimanite

Production of Sillimanite Minerals

tonnes

Country	1972	1973	1974	1975	1976
France					
Andalusite	5 280	8 739	9 852	9 708	* 10 000
Portugal					
Andalusite	103	100	50	—	—
Soviet Union					
Kyanite (a)	* 50 000	* 75 000	* 75 000	* 50 000	* 60 000
Spain					
Andalusite & kyanite	5 550	6 728	7 311	5 042	5 541
South Africa					
Andalusite	45 857	60 702	64 008	77 149	77 464
Sillimanite	9 476	19 317	13 087	16 911	25 733
USA					
Kyanite (b)	* 70 000	* 75 000	* 85 000	* 90 000	* 91 000
Synthetic mullite	42 083	52 776	37 655	21 906	38 309
Brazil					
Kyanite	630	988	752	230	256
India					
Kyanite	67 897	58 215	45 337	53 474	48 331
Sillimanite	4 046	3 138	2 950	8 278	14 859
Korea, Republic of					
Andalusite	32	83	115	106	520
Australia (c)	575	684	751	588	567
World total (d)	301 500	361 500	341 900	333 400	372 600

(a) May include other sillimanite minerals

(b) Includes related minerals

(c) Excluding sillimanite clay

(d) In addition synthetic mullite is known to have been produced in other countries including Federal Republic of Germany, Hungary, Italy, Japan, Soviet Union, Spain, Yugoslavia and United Kingdom

Exports of Sillimanite Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Sillimanite minerals	170	732	195	30	) 4 428
Mullite, chamotte, etc.	9 928	6 875	8 154	5 891	
Belgium-Luxembourg					
Sillimanite minerals					
Crude	...	121	143	689	200
Other	...	823	1 536	2 245	981
France					
Sillimanite minerals					
Crude	1 396	7	11	26	72
Other	155	396	3 149	2 312	4 391
Germany, Federal Republic of					
Sillimanite minerals					
Crude	99	196	1 293	424	344
Calcined	650	551	483	5 058	2 351
Italy					
Sillimanite minerals					
Crude & calcined	) —	20	27	—	25
Other	) —	40	21	97	45
Netherlands					
Sillimanite minerals					
Crude (b)	...	—	50	162	458
Other (b)	...	1 321	2 332	1 595	1 356
South Africa					
Andalusite	10 649	16 637	18 759	23 773	16 357
Sillimanite	8 824	15 363	18 737	16 524	12 960
USA					
Kyanite & related minerals (a)	67 051	85 016	123 361	136 412	57 451
India					
Kyanite					
Crude	10 890	15 951	18 595	10 314	6 096
Calcined	15 348	9 141	6 564	7 798	5 295
Sillimanite	714	1 003	829	100	455
Iran (c)					
Sillimanite minerals, chamotte & dinas earth	...	3 999	6 692	2 258	1 168
Japan					
Sillimanite minerals, chamotte & dinas earth	5 204	10 676	20 768	8 592	10 165

Note: In this table 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite – unless mullite is separately specified

(a) Including mullite

(b) Excludes exports to Belgium-Luxembourg, if any

(c) Years ended 20 March following that stated

Imports of Sillimanite Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Sillimanite minerals	17 985	32 455	24 749	33 856	) 36 292
Mullite, chamotte, etc.	11 040	13 633	11 850	10 459	
Belgium-Luxembourg					
Sillimanite minerals					
Crude	...	16 524	10 431	10 362	3 204
Other	...	4 226	2 331	692	481
France					
Kyanite & sillimanite					
Crude	1 103	1 850	2 059	3 111	1 418
Other	1 820	5 342	3 385	4 017	2 495
Germany, Federal Republic of					
Sillimanite minerals					
Crude	9 605	12 814	18 820	18 716	14 889
Calcined	5 840	6 269	5 557	4 997	18 234
Italy					
Sillimanite minerals					
Crude	8 745	(12 401	13 442	5 660	5 517
Other		(4 058	8 332	5 294	3 137
Netherlands					
Sillimanite minerals					
Crude (b)	...	945	1 118	1 514	87
Other (b)	...	1 093	4 065	1 706	490
Norway					
Sillimanite minerals, chamotte & dinas earth	26 628	27 712	12 391	2 729	1 826
Greece					
Sillimanite minerals	9 350	8 593	8 251	...	...
USA					
Kyanite & related minerals (a)	112	200	176	59	100
Argentina					
Sillimanite minerals	374	555	507	116	124
Iran (d)					
Sillimanite minerals, chamotte & dinas earth	...	1 892	1 211	534	2 557
Japan					
Sillimanite minerals	18 861	24 931	28 836	23 541	22 139
Mullite, chamotte & dinas earth	9 147	40 089	96 567	72 014	39 690
Australia					
Kyanite	254	436	) (c) 1 216	(c) 1 612	(c) 1 304
Sillimanite	5	15			

Note: In this table 'Sillimanite minerals' is understood to include any or all of andalusite, kyanite, sillimanite and mullite – unless mullite is separately specified

(a) Including mullite

(b) Excludes imports from Belgium-Luxembourg, if any

(c) Includes andalusite, mullite and dinas earth, beginning July 1974

(d) Years ended 20 March following that stated

Mine Production of Silver

kilograms (metal content)

Country	1972	1973	1974	1975	1976
France	64 805	56 680	52 557	48 790	87 300
Germany, Federal Republic of	54 628	44 971	38 400	33 600	32 000
Irish Republic	48 300	57 200	61 600	39 000	26 000
Italy (a)	67 508	41 946	41 810	36 368	48 403
Austria	5 970	5 980	—	—	—
Bulgaria	* 25 000	* 25 000	* 25 000	* 26 000	* 28 000
Czechoslovakia	* 35 000	* 35 000	* 40 000	* 37 000	* 40 000
Finland (a)	19 444	24 676	25 215	23 160	24 070
German Democratic Republic	* 70 000	* 60 000	* 60 000	* 55 000	* 50 000
Greece (a)	11 534	18 280	17 890	15 400	14 800
Poland	* 130 000	* 150 000	* 180 000	* 230 000	* 249 000
Portugal	7 162	3 914	743	774	881
Romania	* 31 000	* 34 000	* 35 000	* 47 000	* 40 000
Soviet Union	* 1 244 000	* 1 275 000	* 1 300 000	* 1 340 000	* 1 370 000
Spain (a)	94 427	129 312	127 483	107 218	115 152
Sweden	132 388	147 397	141 371	140 442	143 617
Yugoslavia (a)	101 000	118 000	121 000	143 595	160 000
Algeria	* 6 843	* 5 288	* 4 043	* 3 732	* 4 670
Morocco	28 390	28 593	27 637	26 837	21 066
Namibia	42 207	48 615	59 200	56 700	43 500
Rhodesia (b)	3 919	5 256	4 850	4 850	3 200
South Africa	102 443	113 591	83 940	95 923	87 736
Tunisia	7 258	5 910	4 290	9 082	7 838
Zaire	64 637	62 052	51 290	71 258	76 888
Zambia	3 403	(d) 2 426	(d) 34 200	(d) 31 100	(d) 33 100
Canada	1 393 193	1 477 029	1 331 531	1 234 642	1 281 437
El Salvador	5 510	3 816	5 422	5 474	5 163
Haiti	* 500	* 500	* 600	* 600	* 600
Honduras	111 820	98 030	113 872	118 258	92 193
Mexico	1 165 852	1 206 436	1 167 814	1 182 822	1 326 243
Nicaragua (a)	11 100	5 600	8 400	10 100	6 345
USA	1 158 100	1 165 896	1 050 136	1 086 706	1 067 752
Argentina	101 823	75 935	96 455	71 011	54 432
Bolivia	143 200	161 746	148 520	155 702	176 914
Brazil	13 810	15 892	16 378	7 323	626
Chile	145 849	156 608	207 558	194 806	226 656
Colombia	2 167	2 346	2 488	2 737	3 297
Ecuador	2 161	1 764	1 097	1 152	1 617
Peru (c)	1 255 664	1 163 642	1 084 907	1 058 350	1 106 656
Burma	* 35 900	23 452	22 457	24 105	6 563
China	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
India	4 427	4 258	4 581	2 582	3 180
Indonesia	8 684	9 832	6 414	4 758	3 000
Japan	312 484	266 053	227 502	243 625	259 457
Korea, Dem. P.R. of	* 45 000	* 45 000	* 52 000	* 55 000	* 50 000
Korea, Republic of	55 043	46 350	40 163	46 780	57 793
Philippines	57 466	58 830	53 067	50 373	46 053
Taiwan	2 302	2 898	1 021	193	3 109
Australia	680 685	707 414	669 954	726 218	778 658
Fiji	596	880	947	871	615
Papua New Guinea	30 361	44 862	46 139	42 280	45 419
New Zealand	886	809	56	62	16
World total	9 176 000	9 285 000	8 927 000	8 979 000	9 341 000

(a) Smelter and/or refinery production

(b) Production from Inyati mine only. There are other mines in Rhodesia known to produce silver but information is insufficient to include these in a national estimate

(c) Recoverable

(d) Recovered as a byproduct of base metal refining

Silver

Exports of Silver

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom					
Refined bullion	2 657 011	2 746 333	1 542 553	1 160 534	1 731 474
Belgium-Luxembourg					
Bullion	5 143 583	682 418	863 648	776 539	739 806
Denmark					
Bullion	1 100	1 100	4 300	4 134	6 461
France					
Bullion (a)	203 627	471 473	572 001	427 475	309 680
Germany, Federal Republic of					
Bullion (a)	501 860	408 221	441 052	358 941	389 122
Netherlands					
Bullion (a)	97 300	104 606	96 733	73 767	199 348
Austria					
Bullion (a)	5 100	10 100	15 900	12 100	16 900
Finland					
Bullion	39 453	20 382	2 445	1 589	671
Sweden					
Bullion (a)	146 000	163 000	128 000	247 000	167 000
Switzerland					
Bullion	530 306	821 295	921 125	526 888	663 077
Yugoslavia					
Bullion	84 517	91 019	110 517	114 040	96 355
Morocco					
Bullion (a)	2 099	27 842	8 385	26 778	26 333
South Africa (d)					
Bullion	85 506	77 676	* 75 000	* 65 000	* 60 000
Tunisia					
Bullion (a)	10	...	2 101	2 600	5 012
Canada					
Ores & concentrates (b)	688 765	814 994	602 906	471 421	435 800
Bullion	617 586	716 899	733 300	753 811	961 552
El Salvador					
Bars, ingots, etc.	4 305	3 917	4 758	5 487	5 242
Honduras					
Concentrates (b)	...	...	...	95 619	99 840
Base bullion	1 165	8 850	7 418	4 112	5 974
Mexico					
Ores & concentrates (c)	...	12 360 549	18 921 187	32 140 216	32 819 000
Refined bullion	402 062	2 137 418	750 744	891 346	830 618
Nicaragua					
Bullion	4 821	10 192	6 151	4 431	...
USA					
Ores & concentrates (b)	1 592	4 254	1 645	1 959	4 960
Refined bullion	830 265	259 044	216 052	743 139	261 226
Argentina					
Bullion	29 228	15 112	200	1	1 017
Bolivia					
Ores & concentrates (b)	143 241	164 277	179 399	203 638	176 914
Peru					
Ores & concentrates (b)	601 023	583 844	554 043	415 894	...
Refined bars	581 839	344 160	581 509	566 055	...
Alloyed bars (b)	108 359	119 966	114 474	97 243	...

Exports of Silver

kilograms

Country	1972	1973	1974	1975	1976
Burma					
Bullion	28 154	22 453	13 069	10 010	...
Hong Kong					
Bullion (Re-exports)	3 119	20 668	62 547	88 112	29 435
India					
Bullion	—	—	435 862	1 316 381	1 271 354
Japan					
Bullion (e)	15 908	19 431	308 773	264 479	63 528
Korea, Republic of					
Bullion	...	4 231	5 434	38 524	74 706
Lebanon					
Bullion	...	143	...	...	...
Singapore					
Bullion	15 401	23 847	9 565	2 325	100
Thailand					
Bullion	...	...	200	19 427	29 000
Australia					
Silver-lead bullion	285 256	305 877	293 264	306 589	376 596
Silver in all ores, concentrates etc.	112 143	155 728	152 846	133 714	141 911
Bullion, refined	291 191	115 257	112 222	126 998	100 050
Fiji					
Bullion	690	954	704	...	...

Note: This table excludes silver coin but includes silver shipped for minting

(a) Including alloys

(b) Ag content

(c) Gross weight

(d) From 1974, IGS estimates, based on known imports into certain countries

(e) Figures up to 1975 include partly worked

Imports of Silver

kilograms

Country	1972	1973	1974	1975	1976
United Kingdom					
Unrefined bullion (f)	110 859	377 078	165 791	834 903	911 989
Refined bullion	393 572	363 015	1 167 270	1 574 773	528 791
Belgium-Luxembourg					
Bullion	373 622	238 047	618 747	519 445	599 752
Denmark					
Bullion	18 300	9 900	15 800	14 525	14 680
France					
Bullion (c)	992 351	1 041 080	879 485	813 478	1 281 059
Germany, Federal Republic of					
Bullion (c)	2 130 490	1 773 477	1 242 457	934 300	1 238 786
Italy					
Bullion	1 312 890	1 445 524	1 144 382	638 100	814 681
Netherlands					
Bullion (c)	123 703	105 950	83 694	125 471	389 270
Austria					
Bullion	135 100	223 000	207 400	166 200	187 400
Finland					
Bullion	1 772	21 525	22 446	24 542	1 033
Malta					
Bullion (a)	556	1 299	3 246	2 142	3 096
Norway					
Bullion	39 670	65 817	61 580	42 358	41 184
Portugal					
Bullion & scrap	38 139	46 556	29 006	6 824	13 914
Spain					
Bullion	220 000	297 000	171 000	101 000	101 000
Sweden					
Bullion (c)	15 000	15 000	24 000	94 000	51 000
Switzerland					
Bullion	1 123 536	161 689	383 489	1 227 407	1 010 495
Turkey					
Bullion (b)	815	1 282	3 778	4 378	2 046
Ivory Coast					
Bullion	153	...	1 028	1 990	6 982
Libya					
Bullion (a)	8 260	9 000	2 335	12 538	10 791
Madagascar					
Bullion	199	123	186	142	257
Morocco					
Bullion	664	173 618	60 782	7 020	1 687
Mozambique					
Bullion	217	509	9 719	—	0
Nigeria					
Bullion (a)	27 275	71	9	11	39
Senegal					
Bullion	12 179	5 644	2 356	3 584	...
South Africa					
Bullion	16 594	28 987	30 767	120 944	49 172
Tunisia					
Bullion (c)	2 107	3 480	2 118	887	460
Zaire					
Bullion	...	...	...	196	820
Zambia					
Bullion	159	52	37	...	...
Canada					
Bullion	37 875	272 311	909 676	420 088	59 137
Costa Rica					
Bullion (c)	1 282	389	1 022	277	2 026
Guatemala					
Bullion	73	7	275	...	...
Jamaica					
Bullion	14 239	3 605	...	...	...

Imports of Silver

kilograms

Country	1972	1973	1974	1975	1976
Mexico					
Bullion	432	1 330	1 027	121	81
Nicaragua					
Bullion (c)	...	188	300	13	...
Trinidad & Tobago					
Bullion	2 158	2 628	192	74	203
USA					
Ores & concentrates	1 168 013	1 382 418	1 147 316	725 013	556 764
Refined bullion	798 744	2 526 263	2 783 312	1 915 932	2 089 800
Brazil					
Bullion	72 272	110 689	103 138	70 902	872 671
Chile					
Bullion (a)(c)	4 417	22 675	851 540	...	...
Colombia					
Bullion	5 595	107 407	...	...	...
Guyana					
Bullion (a)	1 035	336	234	...	...
Brunei					
Bullion	399	94	475	136	401
Cyprus					
Bullion (a)	7 828	8 245	5 768	3 585	9 276
Hong Kong					
Bullion	5 240	12 434	25 587	43 011	24 317
India					
Bullion	1 548	2 328	453	671	1 767
Iran (d)					
Bullion	(e) 8 697	13 223	14 794	22 662	42 824
Japan					
Ores & concentrates	5 485 000	3 770 000	3 050 000	3 450 000	4 250 000
Bullion	577 429	1 068 519	963 096	530 077	638 388
Korea, Republic of					
Bullion	4 158	2 293	50 616	3 912	18 978
Lebanon					
Bullion & scrap	32 618	17 989	...	...	...
Singapore					
Bullion	3 369	14 549	17 063	6 597	12 783
Taiwan					
Bullion	480	2 129	1 017	245	18 662
Thailand					
Bars	994	991	427	227	3 571
Australia					
Bullion	880	1 899	2 838	802	887

Note: This table excludes silver coin but includes silver shipped for minting

(a) Including partly worked

(b) Including gilt

(c) Including alloys

(d) Years ended 20 March following that stated

(e) Including scrap and ash

(f) Expressed as 0.999 fine silver

Production of Sulphur and Pyrites

thousand tonnes (sulphur content)

Country		1972	1973	1974	1975	1976
United Kingdom						
Pyrites (l)	(48%)	64	21	17	14	5
Recovered (a)(c)		37	41	57	31	35
Recovered (d)		41	40	65	58	77
Anhydrite		146	75	62	46	5
Belgium						
Recovered (c)(d)		210	335	223	196	248
Denmark						
Recovered (d)		8	7	5	9	10
France						
Recovered (d)(e)		1 747	1 815	1 919	1 872	1 874
Germany, Federal Republic of						
Pyrites	(45%)	190	192	214	221	233
Recovered (c)		...	54	387	361	390
Recovered (d)		65	0	60	114	119
Recovered (e)		127	273	411	384	460
Recovered (k)		510	27	232	202	162
Italy						
Pyrites	(43%)	594	508	503	348	367
Recovered (d)		235	200	213	229	199
Sulphur ore		91	80	61	51	38
Netherlands						
Recovered (c)(d)		45	54	85	107	105
Bulgaria						
Pyrites	(42%)	* 64	* 64	* 102	* 102	* 108
Czechoslovakia						
Pyrites	(42%)	* 124	* 120	* 133	* 67	* 86
Finland						
Pyrites	(44%)	387	357	340	332	318
Recovered (c)		370	368	346	347	370
Recovered (d)		9	9	10	15	25
German Democratic Republic						
Pyrites	(42%)	* 58	* 58	* 58	* 58	* 58
Recovered (d)(j)		88	90	89	85	79
Greece						
Pyrites	(45%)	82	85	97	66	79
Norway						
Pyrites	(45%)	369	364	314	233	188
Poland						
Frasch		* 2 377	* 2 975	* 3 660	* 4 320	* 4 340
Sulphur ore		* 550	* 570	* 435	* 450	* 550
Recovered (c)(d)		* 248	* 256	* 250	* 255	* 260
Portugal						
Pyrites	(44%)	243	234	225	203	183
Recovered (c)(d)		3	3	3	3	3
Romania						
Pyrites	(42%)	* 360	* 375	* 375	* 375	* 375
Soviet Union						
Pyrites	(46%)	* 3 400	* 3 500	* 3 600	* 3 700	* 3 800
Recovered		* 1 700	* 1 900	* 1 900	* 2 000	* 2 100
Sulphur ore		* 2 200	* 2 300	* 2 400	* 2 500	* 2 500
Spain						
Pyrites	(47%)	1 000	1 113	1 308	1 264	1 100
Recovered (c)(d)		* 108	* 113	* 108	* 107	* 128
Sweden						
Pyrites	(48%)	250	232	218	211	* 200
Recovered (c)(d)		* 120	* 145	* 140	* 140	* 140
Turkey						
Pyrites	(45%)	36	20	36	11	40
Sulphur ore		21	18	19	* 19	* 21
Yugoslavia						
Pyrites	(42%)	97	90	107	152	...
Algeria						
Pyrites	(48%)	13	6	—	—	—
Egypt						
Recovered (d)(e)		* 1	* 1	3	4	5

Production of Sulphur and Pyrites

thousand tonnes (sulphur content)

Country		1972	1973	1974	1975	1976
Morocco						
Pyrites	(48%)	133	134	112	121	31
Rhodesia						
Pyrites	(42%)	* 30	* 30	* 30	* 30	* 30
South Africa						
Pyrites	(48%)	211	265	274	312	353
Recovered (d)		29	25	28	25	27
Recovered (c)		...	64	70	80	91
Zaire						
Recovered (c)		...	51	55	50	52
Zambia						
Pyrites	(42%)	...	30	29	7	9
Recovered		...	46	45	80	91
Canada						
Pyrites (i)	(50%)	62	12	24	11	15
Recovered (c) (i)		616	686	663	695	705
Recovered (d)(e)		6 723	7 116	6 950	6 487	6 498
Mexico						
Frasch		861	1 544	2 257	2 074	2 054
Recovered (c)		21	17	* 15	...	...
Recovered (d)(e)		62	64	65	90	96
Sulphur ore		21	* 11	* 10	...	...
Netherlands Antilles						
Recovered (d)		96	81	117	87	94
Trinidad & Tobago						
Recovered (d)		41	42	29	49	55
USA						
Frasch		7 407	7 727	8 028	7 327	6 365
Pyrites	(40%)	288	215	165	241	291
Recovered (c)		706	699	735	855	1 035
Recovered (d)(e)		1 981	2 455	2 676	3 017	3 187
Argentina						
Recovered (c)(d)		20	24	24	22	25
Sulphur ore		42	36	25	10	20
Bolivia (h)						
Sulphur ore		10	56	42	22	15
Brazil						
Recovered (d)		9	1	9	20	30
Chile						
Recovered (c)		18	16	23	26	29
Sulphur ore (b)		78	30	33	21	17
Colombia						
Recovered (d)		* 3	* 3	* 3	* 2	* 2
Sulphur ore		24	27	30	* 30	* 30
Ecuador						
Recovered (d)(e)		* 1	* 1	* 4	* 4	* 4
Sulphur ore		1	1	5	0	* 2
Venezuela						
Recovered (d)		81	80	109	82	90
China						
Pyrites	(45%)	* 900	* 900	* 900	* 900	* 900
Recovered		* 120	* 120	* 120	* 120	* 320
Sulphur ore		* 130	* 130	* 130	* 130	* 150
Cyprus						
Iron pyrites	(44%)	244	200	79	90	83
Cupreous pyrites	(48%)	20	20	11	—	—
India						
Pyrites	(37%)	11	15	13	19	19
Recovered (c)		...	) 115	135	140	127
Recovered (d)		...	)	6	6	7
Indonesia						
Sulphur ore		* 2	* 2	2	4	3
Iran						
Recovered (d)		666	595	605	446	399
Sulphur ore		3	21	* 20	* 20	* 20

Production of Sulphur and Pyrites

thousand tonnes (sulphur content)

Country		1972	1973	1974	1975	1976
Iraq						
Frasch		137	395	610	600	610
Recovered (d)(e)		...	* 140	* 50	* 110	* 65
Israel						
Recovered (d)(e)		* 10	* 10	* 10	* 10	* 10
Japan						
Pyrites	(49%)	760	616	624	456	471
Recovered (c)(g)		1 324	1 469	1 459	1 199	1 252
Recovered (d)		479	680	726	749	925
Korea, Dem. P.R. of						
Pyrites	(40%)	* 200	* 200	* 240	* 260	* 280
Recovered (c)		...	...	* 16	* 16	* 30
Kuwait						
Recovered (d)(e)		39	55	57	73	75
Philippines						
Pyrites	(46%)	92	94	76	75	104
Saudi Arabia						
Recovered (d)(e)		* 5	* 5	* 3	3	3
Singapore						
Recovered (d)		7	* 6	* 6	6	7
Taiwan						
Pyrites	(36%)	11	4	4	5	3
Recovered		...	* 2	* 2	* 2	* 2
Sulphur ore		4	6	3	5	5
Australia						
Pyrites	(48%)	114	117	108	106	108
Recovered (c)		341	321	304	335	315
Total Frasch		10 800	12 600	14 600	14 300	13 400
Total Pyrites		10 400	10 200	10 300	10 000	10 000
Total Recovered		19 100	20 700	21 600	21 400	22 400
Total Sulphur ore		3 300	3 400	3 300	3 300	3 400
World total (all forms)		43 600	46 900	49 800	49 000	49 200

Note: Pyrites: nominal sulphur content is shown in parentheses

- (a) 'Spent Oxide'
- (b) Includes 'caliche' at 45% S content
- (c) From smelter gases
- (d) From petroleum refining
- (e) From natural gas
- (f) Caliche
- (g) Includes S content of 'sulphur ore'
- (h) Exports
- (i) Shipments
- (j) From lignite distillation
- (k) Other
- (l) Imports

Exports of Sulphur and Pyrites

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Sulphur	2 215	2 427	3 078	2 017	1 965
Belgium-Luxembourg					
Pyrites	5 233	1 235	545	312	57
Sulphur –					
Crude	8 914	18 549	18 651	23 804	36 525
Refined	77	2 842	108	92	113
France					
Sulphur –					
Crude	1 000 204	864 872	867 545	536 537	736 389
Unrefined ground	2 980	4 526	2 754	2 178	4 426
Refined lump	933	842	993	543	681
Flowers	5 959	2 802	3 073	3 327	2 660
Precipitated	48	72	1	9	34
Germany, Federal Republic of					
Pyrites	488	448	594	500	3 863
Sulphur	48 526	71 099	144 281	201 534	146 617
Italy					
Pyrites	11 438	6 901	54 696	40 314	13 632
Sulphur –					
Crude	84	111	1 167	50	303
Refined	4 315	4 310	5 960	4 245	2 870
Flowers & precipitated	157	150	31	659	126
Netherlands					
Sulphur –					
Crude	8	795	4 089	7 038	13 180
Flowers & precipitated	8	37	257	1	2
Finland					
Sulphur	33 670	31 022	20 204	10 923	17 630
Greece					
Sulphur	2 272	22 000	10 125	10 021	9 532
Norway					
Pyrites	572 035	486 198	410 573	231 251	140 290
Sulphur	...	85	67	21	42
Poland					
Sulphur	2 487 000	2 865 000	3 024 000	3 080 000	3 530 000
Portugal					
Pyrites	114 109	76 340	94 426	61 820	20 218
Sulphur	44	585	815	221	—
Soviet Union					
Pyrites	1 600 000	1 600 000	1 800 000	1 260 000	873 000
Sulphur	405 300	440 300	439 600	440 978	440 000
Spain					
Pyrites –					
Iron	377 257	301 406	202 766	208 216	334 810
Cupreous	75 673	5 629	8	—	—
Sulphur refined	100	66	165	110	1 403
Sweden					
Pyrites	10 976	—	—	—	0
Sulphur	68	1	—	0	19 394
Switzerland					
Sulphur	153	158	165	27	14
Turkey					
Pyrites	36 265	6 160	18 130	—	—
Yugoslavia					
Pyrites	22 534	22 391	24 328	171 920	209 015
Algeria					
Pyrites	35 440	24 852	74 109	...	...
Morocco					
Sulphur crude	1 359	64	209	955	—
South Africa					
Sulphur	135	209	...	...	...

Exports of Sulphur and Pyrites

tonnes

Country	1972	1973	1974	1975	1976
Canada					
Pyrites (a)	502	659	648	170	152
Sulphur	2 583 702	3 492 461	4 252 206	3 284 329	3 719 992
Mexico					
Sulphur	479 407	842 962	1 906 031	1 386 655	1 020 069
USA					
Pyrites	5 010	3 870	4 501	1 139	912
Sulphur –					
Crude	1 876 585	1 799 013	2 624 991	1 308 303	1 202 173
Sublimed, precipitated	4 729	5 364	21 225	7 131	15 545
Bolivia					
Sulphur	10 215	56 393	41 778	21 921	14 883
Venezuela					
Sulphur refined	68 512	67 963	30 980	...	...
Cyprus					
Pyrites –					
Iron	455 261	363 771	287 160	408 632	146 853
Cupreous	51 923	33 403	23 334	19 778	...
Iran (b)					
Sulphur –					
Crude	...	121 244	60 807	84 535	30 971
Refined & flowers	488 898	284 631	211 144	43 323	287 346
Japan					
Sulphur	47 889	47 472	63 100	118 098	336 117
Lebanon					
Sulphur –					
Crude	602	94	...	...	...
Sublimed, precipitated	1 620	825	...	...	...
Singapore					
Sulphur –					
Crude	12 274	12 912	18 223	15 541	14 110
Refined	1 608	3 546	8 036	5 394	8 158
Syria					
Sulphur	407	75 935	—	2	—
Sublimed, precipitated	2 873	538	15	—	3
Taiwan					
Sulphur –					
Crude	...	54	20	1 188	902
Sublimed, precipitated	30 020	102	142	91	206
Australia					
Zinc concentrates (c)	70 300	107 200	105 800	87 500	...

(a) Value only known; shown in thousands of Canadian dollars

(b) Years ended 20 March following that stated

(c) Recoverable sulphur

Imports of Sulphur and Pyrites

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Pyrites	132 995	44 598	35 047	28 160	10 604
Sulphur	1 040 351	1 273 411	1 386 137	939 010	1 183 319
Belgium-Luxembourg					
Pyrites	218 513	247 829	257 916	207 810	220 452
Sulphur –					
Crude	609 770	673 436	936 170	440 100	460 970
Refined	311	343	2 363	1 576	540
Denmark					
Pyrites	153 538	109 056	21 352	36	—
Sulphur	12 702	15 995	78 114	69 676	62 651
France					
Pyrites	204 281	156 789	88 959	52 374	30 991
Sulphur –					
Crude	457 604	561 401	796 760	565 270	501 573
Unrefined ground	1 453	831	850	3 506	2 445
Refined lump	602	2 799	454	571	751
Precipitated	180	172	256	217	206
Germany, Federal Republic of					
Pyrites	1 105 686	891 510	780 281	498 245	175 247
Sulphur	414 598	490 587	472 064	304 428	480 620
Irish Republic					
Sulphur	42 967	77 764	99 577	27 888	12 374
Italy					
Pyrites	452 674	305 016	296 929	316 733	161 091
Sulphur	341 949	425 514	767 059	559 291	561 295
Netherlands					
Pyrites	42 955	180	207	229	75
Sulphur –					
Crude	451 984	453 690	498 025	347 799	398 392
Sublimed & precipitated	677	795	600	503	277
Austria					
Pyrites	14 614	12 470	13 383	13 558	13 874
Sulphur	118 619	115 314	154 063	112 422	84 338
Czechoslovakia					
Pyrites (a)	63 000	95 000	57 000	11 000	9 000
Sulphur	325 000	322 000	329 000	493 000	477 000
Finland					
Sulphur	40 921	28 981	36 536	31 981	12 427
German Democratic Republic					
Pyrites (a)	51 980	72 156	61 144	48 694	71 473
Greece					
Pyrites	130 830	147 680	118 868	154 015	106 585
Sulphur	88 360	66 000	23 000	9 884	161 781
Hungary					
Pyrites	87 000	79 000	79 000	88 000	81 000
Sulphur	149 000	183 000	161 000	209 000	143 400
Malta					
Sulphur flowers	221	364	472	323	253
Norway					
Sulphur	17 535	20 735	22 081	19 360	17 929
Portugal					
Sulphur	30 565	23 528	30 247	27 324	29 907
Romania					
Sulphur	39 800	55 100	...	...	...
Soviet Union					
Sulphur	151 000	468 300	471 800	689 999	600 000
Spain					
Sulphur	87 457	93 410	101 986	61 674	92 583
Sweden					
Pyrites	115 024	70 496	101 472	81 116	102 223
Sulphur	92 288	100 712	129 816	94 049	69 569
Switzerland					
Pyrites	10 240	5 020	45 009	32 081	8 116
Sulphur –					
Crude	38 194	50 648	44 072	27 816	33 676
Flowers	339	324	358	261	251

Imports of Sulphur and Pyrites

tonnes

Country	1972	1973	1974	1975	1976
Turkey					
Pyrites	135 675	127 461	77 190	100 453	19 605
Sulphur	54	98	341	2 638	6 804
Yugoslavia					
Pyrites	101 890	210 942	231 452	101 309	11 980
Sulphur	33 187	42 421	47 760	44 621	48 461
Algeria					
Sulphur –					
Crude	56 989	93 692	83 172	82 420	26 610
Sublimed, precipitated	3 601	550	2 048	975	...
Angola					
Sulphur	615	844	...	...	...
Egypt					
Pyrites	18 652	30 915	80 719	62 857	20 530
Sulphur	47 770	19 611	68 808	38 130	75 954
Ethiopia					
Sulphur	899	258	—	164	...
Ivory Coast					
Sulphur refined	2 608	2 015	5 586	8 017	5 363
Kenya					
Sulphur crude	506	653	1 748	614	1 099
Madagascar					
Sulphur	6	5	3	6	11
Mauritius					
Sulphur	49	8	9	11	...
Morocco					
Sulphur –					
Crude	36 486	34 794	77 322	39 053	183 095
Unrefined, ground	170	75	96	62	250
Refined	35	149	55	35	85
Flowers	124	39	61	12	2
Mozambique					
Sulphur –					
Crude	6 485	20 417	19 380	232	5 236
Niger					
Sulphur	4 400	4 938	7 302	...	...
Nigeria					
Sulphur	311	457	468	12	865
Senegal					
Sulphur –					
Crude	20	12	10	14	...
Flowers	16 323	23 789	26 951	18 572	...
South Africa					
Pyrites unroasted	9	37	34	31	47
Sulphur –					
Crude	222 178	206 662	358 799	260 117	451 480
Sublimed, precipitated	359	593	1 086	713	1 342
Tanzania					
Sulphur crude	9 701	19 355	22 725	453	27 679
Tunisia					
Pyrites	5 185	5 000	...	5 000	4
Sulphur crude & unrefined	167 745	66 499	372 976	178 912	387 587
Uganda					
Sulphur crude	5 472	2 124	2 591	687	17
Zambia					
Sulphur –					
Crude	42	536	53	...	...
Refined	15 162	14 891	3 102	...	...
Flowers	18	19	2 040	...	...
Canada					
Sulphur	25 494	35 759	31 389	14 335	15 717
Costa Rica					
Sulphur	11	—	49	160	100
Cuba					
Sulphur	122 525	143 836	140 326	...	...
El Salvador					
Sulphur	6 949	7 239	5 763	4 520	5 186

Imports of Sulphur and Pyrites

tonnes

Country	1972	1973	1974	1975	1976
Guatemala					
Sulphur	6	15	6 262	182	4 296
Jamaica					
Sulphur	3 874	381	330	4 951	...
Mexico					
Sulphur	395	623	525	214	756
Nicaragua					
Sulphur	...	222	328	230	...
Trinidad & Tobago					
Sulphur	18 897	3 073	22	16	24
USA					
Pyrites	127 051	20 028	48 490	22 550	30 982
Sulphur	1 155 877	1 241 213	2 184 809	1 927 551	1 754 746
Argentina					
Sulphur crude	50 024	71 545	78 497	97 221	105 745
Brazil					
Sulphur –					
Crude	372 303	454 613	605 386	391 909	595 585
Refined	383	724	5 741	3 077	1 451
Sublimed, precipitated	172	237	218	202	222
Chile					
Sulphur	74 954	74 459	103 831	...	...
Colombia					
Sulphur –					
Crude	5	8 421	...	...	...
Sublimed, precipitated	4 066	6 623	...	...	...
Uruguay					
Sulphur	...	...	19 280	11 453	...
Venezuela					
Sulphur	831	668	367	44	...
Burma					
Sulphur crude	1 263	1 194	831	...	...
China					
Sulphur	* 191 100	* 420 000	* 300 000	...	...
Cyprus					
Sulphur crude	2 256	2 773	853	1 581	2 518
Hong Kong					
Sulphur –					
Crude	842	574	1 199	1 046	253
Sublimed	1 311	1 011	1 220	966	1 765
India					
Sulphur –					
Crude	558 990	551 105	587 454	616 685	588 257
Sublimed	494	371	659	430	506
Indonesia					
Sulphur –					
Crude	23 242	28 092	28 843	1 125	616
Sublimed, precipitated	—	16 301	13 550	12 166	18 164
Iran (c)					
Sulphur	347	961	571	422	744
Iraq					
Sulphur	1 859	25	130	41	...
Israel (b)					
Sulphur	64 427	16 000	42 000	* 45 000	...
Japan					
Pyrites	3 471	25 867	65 535	55 887	59 403
Sulphur	12 266	46 732	36 207	296	603
Jordan					
Sulphur	1 588	2 596	3 992	1 013	1 051
Korea, Dem. P.R. of					
Sulphur crude	* 7 100	* 6 500	* 6 200	...	...
Korea, Republic of					
Sulphur –					
Crude	134 253	167 457	213 446	228 016	292 153
Sublimed, precipitated	357	511	241	330	298

Imports of Sulphur and Pyrites

tonnes

Country	1972	1973	1974	1975	1976
Lebanon					
Sulphur –					
Crude	72 975	72 666	...	...	...
Sublimed, precipitated	904	630	...	...	...
Malaysia (e)					
Sulphur –					
Crude	12 516	13 323	17 103	15 551	14 098
Sublimed, precipitated	337	647	613	654	835
Pakistan (d)					
Sulphur crude	...	11 765	2 934	...	7 031
Philippines					
Sulphur –					
Crude	21 314	9 507	25 800	22 326	12 173
Sublimed, precipitated	373	612	9 110	3 600	6 770
Singapore					
Sulphur –					
Crude	10 370	5 832	2 861	2 627	267
Refined	224	7 801	3 414	474	405
Syria					
Sulphur –					
Crude	381	420	809	2 142	2 546
Sublimed, precipitated	1 689	753	1 495	563	298
Taiwan					
Sulphur –					
Crude	231 694	121 917	156	96 308	89 122
Sublimed, precipitated	10 884	86 858	228 091	101 845	121 124
Thailand					
Sulphur –					
Unrefined	8 387	3 814	17 228	25 898	2 226
Sublimed, precipitated	389	11 873	351	145	29
Refined	361	3 406	16 015	13 037	109
Australia					
Sulphur	380 034	587 000	685 282	281 757	205 766
New Zealand (d)					
Sulphur	181 094	261 646	238 361	251 417	196 215

(a) S content

(b) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

(c) Years ending 20 March following that stated

(d) Years ending 30 June of that stated

(e) From 1975 includes Sabah and Sarawak

Production of Talc

Country	1972	1973	1974	1975	1976
United Kingdom	* 16 107	* 20 333	* 20 600	* 19 100	* 14 800
France	236 000	255 000	298 000	241 000	256 000
Germany, Federal Republic of	30 348	28 191	29 731	21 092	* 30 000
Italy	143 727	137 730	163 024	144 082	153 836
Austria	83 212	92 205	98 440	86 512	100 649
Finland	90 327	109 704	128 269	124 260	148 531
Greece	5 441	5 251	4 320	5 869	5 543
Hungary	* 16 000	* 16 000	5 977	4 688	5 318
Norway	144 549	136 437	113 026	104 993	118 211
Portugal	1 204	1 110	1 170	1 570	1 146
Romania	* 57 000	* 60 000	* 60 000	* 60 000	* 60 000
Soviet Union	* 390 000	* 400 000	* 410 000	* 420 000	* 440 000
Spain	40 358	40 134	54 988	47 318	47 617
Sweden	26 405	28 029	28 404	23 846	20 441
Egypt	7 727	7 036	3 942	4 407	5 636
South Africa					
Talc	8 760	7 100	9 589	9 237	7 039
Wonderstone (pyrophyllite)	2 059	4 743	8 510	6 782	5 784
Swaziland					
Pyrophyllite	108	126	36	—	—
Canada (a)	73 433	73 931	85 952	66 029	68 834
Mexico	3 130	2 108	2 649	1 480	192
USA					
Talc	) 1 004 619	1 130 837	(1 073 925	792 000	) 991 039
Pyrophyllite	)	)	( 95 892	83 364)
Argentina					
Talc	28 612	38 227	34 698	40 081	44 185
Pyrophyllite	8 325	6 313	5 412	8 357	9 132
Steatite	7 755	5 961	460	328	840
Brazil					
Talc	88 733	96 955	155 371	154 893	151 245
Pyrophyllite	33 136	40 058	45 813	65 778	74 094
Chile	2 615	2 462	1 684	475	129
Colombia	708	900	800	1 000	1 000
Paraguay	220	250	250	* 250	140
Peru	9 941	79 952	13 781	13 864	* 14 000
Uruguay	1 323	1 997	2 075	1 268	1 268
China	* 150 000	* 180 000	* 300 000	* 270 000	* 300 000
India					
Steatite	210 619	209 732	292 896	217 000	214 000
Pyrophyllite	15 562	14 912	15 562	15 021	33 904
Japan					
Talc	132 780	136 066	177 673	78 931	74 384
Pyrophyllite	1 365 131	1 372 834	1 396 184	420 172	447 795
Korea, Dem. P.R. of	* 100 00	* 110 000	* 120 000	* 130 000	* 130 000
Korea, Republic of					
Talc	72 352	113 092	113 674	92 907	147 774
Pyrophyllite	163 396	304 842	328 418	322 967	348 694
Pakistan	3 042	4 015	8 108	3 557	4 361
Philippines	1 007	1 634	2 333	1 342	* 1 500
Taiwan	24 792	23 124	13 517	12 050	15 481
Thailand	1 550	9 550	1 798	10 647	6 557
Australia					
Talc	43 849	50 850	63 992	67 242	77 447
Pyrophyllite	12 299	12 820	15 845	15 145	14 650
World total	4 860 000	5 370 000	5 820 000	4 200 000	4 600 000

(a) Shipments

Exports of Talc

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	1 729	2 044	1 783	1 642	2 894
Belgium-Luxembourg	14 445	17 538	21 813	15 656	32 185
France	57 455	64 137	76 432	63 397	59 426
Germany, Federal Republic of	4 709	5 557	7 114	5 718	7 057
Italy	59 336	48 622	53 887	41 960	51 247
Netherlands	508	665	740	1 556	2 051
Austria	70 920	76 083	84 495	72 732	85 032
Finland	3 934	5 668	1 855	4 750	11 190
Norway	71 764	69 129	66 883	55 318	61 674
Portugal	124	176	71	21	18
Sweden	1 627	2 554	3 590	4 110	4 275
Switzerland	1 266	1 256	1 056	151	60
South Africa					
Talc	192	135	214	116	—
Wonderstone (pyrophyllite)	241	6 670	5 335	3 367	3 834
Zambia	1 705	767	345	...	...
Mexico	4	542	...	38	5
USA	155 173	163 469	170 405	143 058	192 740
Argentina	330	388	670	271	183
Brazil	101	428	469	189	247
China (a)	157 000	213 500	241 200	167 700	195 300
Hong Kong (Re-exports)	850	1 109	1 508	226	2 422
India	5 937	10 106	11 565	7 158	8 783
Japan	765	829	746	454	1 499
Korea, Dem. P.R. of (b)	86 200	101 300	88 900	...	...
Korea, Republic of	9 302	4 290	2 124	8 593	11 219
Malaysia (c)	162	405	387	283	473
Singapore	1 579	1 563	1 150	807	1 156
Syria	15	53	47	5	18
Taiwan	512	429	538	457	982
Australia	32 051	36 179	51 325	45 457	62 306

(a) Imports into various countries from China

(b) Imports into various countries from Dem. P.R. of Korea

(c) From 1975 includes Sabah and Sarawak

Imports of Talc

Country	1972	1973	1974	1975	1976
United Kingdom	55 551	63 281	61 838	98 282	61 281
Belgium-Luxembourg	28 089	58 491	39 958	23 412	39 026
Denmark	11 549	11 249	13 195	9 366	11 525
France	7 513	7 007	8 521	6 909	8 392
Germany, Federal Republic of	90 399	101 726	110 359	87 517	111 223
Irish Republic	—	2 172	2 422	2 021	2 444
Italy	19 606	20 278	25 417	14 667	18 546
Netherlands	13 078	14 600	15 651	13 999	17 183
Austria	1 355	1 659	2 109	1 141	1 901
Finland	5 157	2 829	1 685	822	715
Greece	2 588	3 260	2 092	2 919	1 655
Norway	3 029	5 063	3 352	3 890	3 047
Poland	19 119	23 630	29 714	24 728	19 960
Portugal	3 263	3 981	3 399	2 685	3 485
Soviet Union	38 600	44 900	...	91 000	100 000
Spain	5 898	8 300	10 079	8 708	12 282
Sweden	22 088	22 923	24 729	22 306	22 872
Switzerland	13 794	14 142	14 018	9 216	9 379
Yugoslavia	1 610	2 040	3 027	2 488	2 461
Algeria	2 630	2 983	2 171	3 425	2 834
Cameroon	191	229	330	...	...
Ghana	123	737	1 390	489	...
Ivory Coast	657	395	1 212	717	748
Morocco	1 164	1 335	1 007	1 070	1 270
Mozambique	204	228	300	162	140
Senegal	228	225	193	161	...
South Africa	2 131	2 985	3 304	1 654	2 132
Togo	64	56	69	59	...
Tunisia	1 174	2 091	1 784	2 597	1 591
Zaire	...	...	193	230	58
Canada	38 746	29 967	36 248	30 428	46 397
Costa Rica	392	617	681	439	591
El Salvador	126	192	143	140	127
Guatemala	278	364	342	282	325
Honduras	46	58	100	23	71
Mexico					
Talc	81 061	89 621	102 615	89 113	110 027
Pyrophyllite	269	315	233	234	281
Nicaragua	...	244	499	179	...
Panama	292	455	376	313	289
USA	26 385	20 859	27 444	21 208	18 208
Argentina	259	257	521	489	327
Brazil	90	177	132	79	173
Chile	639	829	897	...	...
Colombia	897	1 070	...	...	...
Venezuela	7 309	7 051	6 909	6 492	...
Cyprus	301	313	4 220	213	297
Hong Kong	2 265	2 828	2 765	1 353	4 037
Indonesia	—	10 733	6 115	5 138	7 744
Iran (a)	214	338	583	192	327
Iraq	481	476	1 006	16	...
Israel (c)	2 086	650	1 200	42	519
Japan	219 568	276 558	299 013	236 196	301 945
Lebanon	958	737	...	...	...
Malaysia (d)	3 381	4 513	4 241	3 182	4 798

Imports of Talc

tonnes

Country	1972	1973	1974	1975	1976
Philippines	3 797	5 779	5 918	3 546	5 306
Singapore	8 827	12 794	9 192	5 711	8 025
Syria	375	348	1 946	1 617	490
Taiwan	1 575	2 300	2 454	1 646	1 868
Thailand					
Steatite	14	412	304	6	360
Talc	4 181	7 434	8 117	3 613	7 006
Australia	1 186	1 109	1 606	947	371
New Zealand (b)	1 943	2 477	2 558	2 409	2 481

(a) Years ended 20 March following that stated

(b) Years ended 30 June of that stated

(c) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

(d) From 1975 includes Sabah and Sarawak

Mine Production of Tantalum and Niobium

tonnes

Country	1972	1973	1974	1975	1976
Portugal					
Tantalite-columbite	12	12	9	9	3
Mozambique					
Columbite-tantalite	54	46	46	46	* 46
Microlite	68	54	62	44	* 44
Nigeria					
Columbite	1 361	1 240	1 193	922	* 650
Tantalite	1	1	1	1	* 1
Rhodesia					
Columbite-tantalite	* 40	* 40	* 40	* 40	* 40
Rwanda					
Columbite-tantalite	38	34	75	47	45
Uganda (a)					
Columbite-tantalite	8	* 3	* 4	* 2	* 2
Zaire					
Columbite-tantalite (b)	97	56	64	80	79
Canada					
Pyrochlore (c)	1 757	1 441	1 920	1 662	1 499
Tantalite (d)	19	77	199	181	128
Argentina					
Columbite	—	1	1	1	0
Tantalite (e)	2	1	1	1	0
Brazil					
Pyrochlore	14 956	19 426	17 878	14 605	19 003
Tantalite	299	) 169	92	100	198
Columbite	65)			
Malaysia					
Columbite	88	92	93	50	46
Thailand					
Columbite	7	8	10	7	—
Tantalite	8	16	82	103	7
Australia (f)					
Tantalite-columbite	270	200	138	150	118
World total (g)	21 000	24 000	24 000	20 000	24 000

Note: Niobium and tantalum ores are believed to have been produced also in the Soviet Union, and minor quantities in Burundi, India, Spain, Somalia, Namibia, USA and Zambia

(a) Exports

(b) Including columbite-tantalite content of tin-tantalite-columbite

(c) Nb₂O₅ content

(d) Ta₂O₅ content

(e) Imports into USA

(f) Sales

(g) Expressed as weight of concentrates produced; Canadian concentrates have been taken as approximately twice the weight of oxides content

Exports of Tantalum and Niobium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Niobium & tantalum ores & concentrates	410	603	469	384	(b) 117
Tantalum	8	11	31	62	4
France					
Niobium & tantalum ores (b)	10	61	...	—	356
Tantalum	13	11	12	7	19
Germany, Federal Republic of					
Tantalum	38	36	58	29	61
Niobium	5	8	6	16	22
Italy					
Niobium & tantalum ores	40	63	70	...	—
Tantalum	21	6	3	6	4
Niobium	—	4	1	3	1
Netherlands					
Tantalum	9	10	2	1	6
Austria					
Tantalum	12	10	12	7	28
Portugal					
Columbite	10	22	4	11	4
Mozambique					
Tantalum ore	...	78	103	88	) 92
Columbite	1	46	95	52)
Nigeria					
Columbite	1 486	1 143	2 277	977	1 036
Tantalite	...	2	...	2	—
Rwanda					
Columbite-tantalite	* 30	32	35	...	...
Uganda					
Columbite-tantalite	8	—	10	...	...
Zaire					
Columbite-tantalite	87	48	...	41	28
Canada	* 3 000	* 3 000	* 3 000	* 3 000	* 3 000
USA					
Tantalum ores & concentrates	16	36	91	27	27
Tantalum	144	248	335	287	266
Niobium	14	44	15	24	30
Brazil					
Pyrochlore	4 884	6 445	4 342	2 895	4 380
Tantalite	164	130	) 147	125	130
Columbite	4	26)		
Japan					
Tantalum	2	1	25	9	15
Malaysia (a)					
Columbite	69	69	160	51	86
Tin slags	8 277	11 382	9 330	12 398	19 402
Thailand					
Columbite & tantalite	15	44	65	30	103
Tin slags	...	2 879	5 052	1 733	1 890
Australia					
Tantalite-columbite	253	199	128	132	124

Note: In these tables the terms 'tantalum' and 'niobium' are understood to include any or all of unwrought and wrought metal and powder, alloys, and waste and scrap

(a) From 1975 includes Sabah and Sarawak

(b) Includes vanadium ores

Imports of Tantalum and Niobium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Niobium & tantalum ores & concentrates	1 823	2 588	1 677	1 666	(a) 1 349
Tantalum	27	68	59	29	57
France					
Niobium & tantalum ores (a)	619	814	1 081	1 241	196
Tantalum	19	26	34	21	24
Niobium	2	3	1	3	1
Germany, Federal Republic of					
Niobium & tantalum ores (a)	2 296	3 357	2 985	2 097	1 651
Tantalum	55	97	88	137	125
Niobium	5	5	12	5	3
Italy					
Niobium & tantalum ores	110	171	544	235	5
Tantalum	9	14	15	14	4
Niobium	3	7	1	10	10
Netherlands					
Tantalum	2	4	2	3	1
Austria					
Tantalum	18	13	14	9	12
USA					
Tantalum concentrates (d)	208	194	357	286	375
Niobium concentrates (e)	707	596	718	383	998
Tantalum	34	46	84	30	24
Niobium	0	2	0	1	—
Tin slags (b)	4 404	3 904	3 723	1 036	1 984
Ta content	283	326	345	107	195
Nb content	248	274	209	65	134
Japan					
Niobium minerals	1 479	2 207	1 900	2 350	1 813
Tantalum ores & concentrates	59	84	109	62	62
Tantalum	23	49	66	21	54
Malaysia (c)					
Tantalum	35	16	5	20	5
Thailand					
Tantalum ores	20	10	15	...	...

(a) Includes vanadium ores

(b) Receipts reported by consumers

(c) From 1975 includes Sabah and Sarawak

(d) Ta content

(e) Nb content

Mine Production of Tin

tonnes (metal content)

Country	1972	1973	1974	1975	1976
United Kingdom	3 327	3 600	3 200	3 300	3 300
France	313	317	148	49	—
German Democratic Republic	* 1 000	* 1 000	* 1 000	* 1 100	* 1 300
Portugal	528	516	424	375	332
Spain	379	523	643	737	720
Cameroon	36	* 25	* 25	* 25	* 25
Morocco	* 12	* 15	* 4	—	—
Namibia	915	731	781	760	735
Niger	95	93	79	98	* 91
Nigeria	6 731	5 828	5 455	4 652	3 710
Rhodesia	* 600	* 600	* 600	* 600	* 600
Rwanda	1 440	1 380	* 1 300	* 1 250	* 1 400
South Africa	2 209	2 628	2 490	2 771	2 798
Tanzania	40	12	86	—	—
Uganda	72	44	199	88	* 120
Zaire	5 960	5 442	4 675	4 574	3 723
Canada (a)	160	132	324	319	274
Mexico	354	292	400	378	481
USA	* 100	* 100	* 100	* 100	* 100
Argentina	559	432	556	538	358
Bolivia	32 405	29 720	29 027	30 251	30 355
Brazil	2 813	3 742	3 555	* 5 000	* 5 900
Peru (b)	126	233	155	255	273
Burma	* 500	* 580	* 600	* 750	* 750
China (c)	* 20 000	* 20 000	* 20 000	* 22 000	* 20 000
Indonesia	21 766	22 648	25 630	25 346	23 418
Japan	873	811	548	644	766
Korea, Republic of	76	63	24	* 24	* 24
Laos	787	747	612	518	576
Malaysia	76 830	72 260	68 122	64 364	63 401
Thailand	22 072	20 921	20 339	16 406	20 452
Australia	11 997	10 801	10 481	9 577	10 611
World total (d)	215 000	206 000	202 000	197 000	197 000

(a) Sn in concentrates exported and in tin-lead alloys produced

(b) Recoverable

(c) Smelter

(d) Excluding tin ore known to have been produced in other countries including Czechoslovakia and Soviet Union

Smelter Production of Tin

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	21 333	20 404	11 900	11 600	11 200
Belgium	3 923	3 669	3 418	4 562	4 068
Germany, Federal Republic of	859	1 038	1 384	1 306	1 449
Netherlands (a)	—	—	—	1 800	1 800
Czechoslovakia	90	90	120	107	120
German Democratic Republic	* 1 100	* 1 100	* 1 100	* 1 300	* 1 400
Portugal	606	524	450	409	319
Spain	4 761	5 816	5 862	5 249	5 369
Morocco	* 12	* 12	* 5	—	—
Nigeria	6 744	5 983	5 574	4 677	3 667
Rhodesia	* 600	* 600	* 600	* 600	600
South Africa	779	874	854	780	683
Zaire	1 400	969	685	648	478
Mexico	960	960	1 000	1 000	800
USA	4 369	4 877	6 096	6 500	5 700
Argentina	* 120	* 120	* 120	* 120	* 120
Bolivia (a)	6 747	6 956	7 131	7 775	9 868
Brazil	3 583	4 433	4 850	* 5 400	* 6 400
China	* 20 000	* 20 000	* 20 000	* 22 000	* 20 000
Indonesia	12 010	14 632	15 065	17 826	23 322
Japan	1 349	1 438	1 327	1 219	1 145
Malaysia	91 001	82 468	84 394	83 070	78 017
Thailand	22 281	22 927	19 827	16 630	20 337
Australia	7 027	6 904	6 714	5 254	5 603
World total (b)	212 000	207 000	198 000	200 000	202 000

(a) Refined, including alloys

(b) Excluding tin metal known to have been produced in Soviet Union

Exports of Tin

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	32	456	1 913	2 819	185
Unwrought	13 634	16 296	9 010	6 443	6 867
Unwrought alloys	1 960	2 441	3 834	3 140	3 293
Belgium-Luxembourg					
Unwrought	2 083	1 866	1 670	1 831	3 231
Unwrought alloys	24	76	179	76	102
Denmark					
Unwrought	66	35	73	27	43
Unwrought alloys	970	970	1 108	1 123	609
France					
Ore	450	420	208	81	54
Unwrought	60	54	399	251	80
Unwrought alloys	227	192	121	230	185
Germany, Federal Republic of					
Unwrought (a)	1 225	1 549	1 582	1 716	2 203
Italy					
Unwrought (a)	97	62	476	462	138
Netherlands					
Unwrought (a)	1 214	1 592	1 707	1 135	1 439
Austria					
Unwrought (a)	12	21	42	42	53
Norway					
Unwrought (a)	184	222	280	42	65
Portugal					
Unwrought	17	38	9	10	0
Spain					
Unwrought	904	503	1 565	1 453	2 253
Sweden					
Unwrought	38	30	27	72	56
Unwrought alloys	23	52	63	11	7
Switzerland					
Unwrought	54	106	123	52	65
Niger					
Ore	144	140	120	127	...
Nigeria					
Unwrought (a)	6 849	5 251	5 761	4 729	3 419
Rwanda					
Concentrates (b)	1 495	1 258	1 401	1 326	1 370
South Africa					
Concentrates (b)	1 382	1 613	1 768	2 273	1 768
Tanzania					
Ores & concentrates	77	52	68	40	22
Uganda					
Ores & concentrates	104	66	243	85	20
Zaire					
Ore	6 503	(b) 4 435	(b) 4 028	5 405	3 099
Unwrought	1 127	1 021	536	621	231
Canada					
Concentrates (b)	142	340	1 316	1 052	796
USA					
Unwrought (a)	1 152	3 462	8 550	3 596	2 338
Argentina					
Ore	534	404	2	...	...
Tin-silver ore	4 272	2 353	3 786	1 918	...
Bolivia					
Concentrates (b)	23 778	21 544	21 906	18 944	18 739
Unwrought	6 556	6 866	7 049	7 497	9 879
Brazil					
Unwrought	1 387	1 215	2 653	3 075	1 799
Peru					
Ores & concentrates (b)	143	96	* 200	...	...

Exports of Tin

Tin
tonnes

Country	1972	1973	1974	1975	1976
Burma					
Ores & concentrates (b)	247	317	332	886	1 740
China					
Unwrought	* 8 400	* 10 000	* 10 200	* 13 000	* 7 000
Hong Kong					
Unwrought (Re-exports)	79	50	37	248	65
Indonesia					
Ores & concentrates	10 945	9 294	11 752	10 056	1 526
Unwrought (a)	9 997	14 173	15 412	5 772	2 875
Japan					
Unwrought (a)	349	376	813	220	56
Laos					
Ore (b)	1 150	1 197	964	426	438
Malaysia (c)					
Unwrought	89 207	81 537	85 715	77 947	81 527
Singapore					
Ore	2 313	2 841	1 629	2 343	5 498
Unwrought	55	160	137	108	1 372
Unwrought alloys	280	508	504	459	735
Thailand					
Unwrought	21 840	22 671	20 768	16 661	20 048
Unwrought alloys	...	...	...	629	1 126
Australia					
Ores & concentrates (b)	4 719	4 495	4 295	4 521	3 363
Unwrought (a)	3 346	2 937	2 519	2 470	2 315

Note: In this table the description 'unwrought' tin corresponds to item 687.1 in the Standard International Trade Classification (Revised) and comprises ingots, pigs, unwrought bars, sticks, etc

(a) Including alloys

(b) Sn content

(c) From 1975 includes Sabah and Sarawak

Imports of Tin

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	58 855	50 425	39 631	42 908	41 712
Unwrought (a)	6 463	8 134	7 880	6 166	7 735
Belgium-Luxembourg					
Ore	6 211	5 688	5 281	7 210	5 173
Unwrought	1 601	1 437	2 790	1 601	2 298
Unwrought alloys	118	131	171	155	209
Denmark					
Unwrought	423	399	568	245	323
Unwrought alloys	416	171	189	57	98
France					
Unwrought	11 229	11 839	11 670	9 968	10 602
Unwrought alloys	290	401	346	174	230
Germany, Federal Republic of					
Ore	6 608	8 817	10 816	9 883	9 550
Unwrought (a)	15 737	16 162	17 504	13 957	16 290
Irish Republic					
Unwrought (a)	68	23	34	15	27
Italy					
Unwrought	7 875	9 377	10 410	5 418	7 445
Unwrought alloys	273	452	495	664	463
Netherlands					
Ore	621	484	2 375	3 083	2 882
Unwrought (a)	5 595	6 632	6 713	4 362	5 764
Austria					
Unwrought (a)	517	585	582	418	555
Finland					
Unwrought (a)	226	316	386	172	183
Greece					
Unwrought	280	397	497	587	335
Hungary					
Unwrought & semi-manufactures	1 146	1 205	1 603	1 786	1 718
Norway					
Unwrought	473	437	593	651	596
Unwrought alloys	114	162	202	136	200
Poland					
Unwrought	4 780	4 836	4 450	4 510	5 096
Portugal					
Unwrought	398	317	418	307	471
Soviet Union					
Unwrought	4 200	4 000	5 235	9 654	8 130
Spain					
Ore	5 088	5 349	6 156	7 466	7 486
Sweden					
Unwrought	459	404	533	702	667
Unwrought alloys	92	91	108	104	165
Switzerland					
Unwrought	894	907	808	727	769
Turkey					
Unwrought (a)	698	1 369	1 113	1 168	894
Yugoslavia					
Unwrought (a)	727	1 357	1 640	1 037	1 366
Egypt					
Unwrought & scrap	142	2 850	3 526	8 363	...
Kenya					
Unwrought (a)	90	33	51	21	28
Morocco					
Unwrought (a)	403	354	234	230	195
Nigeria					
Unwrought (a)	469	7	21	63	978
South Africa (f)					
Ores & concentrates	176	89	23	—	—
Unwrought	469	959	1 037	835	835

Imports of Tin

Tin
tonnes

Country	1972	1973	1974	1975	1976
Sudan					
Unwrought	3	73	—	...	6
Tanzania					
Unwrought (a)	19	20	23	12	14
Tunisia					
Unwrought & scrap	53	42	40	74	55
Uganda					
Unwrought (a)	10	7	8	...	—
Zambia					
Unwrought	20	26	24	...	...
Bahamas					
Unwrought and semi-manufactures	953	1 556	2 028	...	...
Canada					
Unwrought	5 906	5 465	5 556	4 487	4 224
Jamaica					
Unwrought (a)	124	3	2	—	...
Mexico					
Ores & concentrates	1 478	3 011	2 190	2 995	2 162
Unwrought	407	...	456	100	—
Trinidad & Tobago					
Unwrought (a)	10	19	—	18	2
USA					
Ore (b)	4 284	4 552	5 971	6 415	5 733
Unwrought	53 292	46 581	40 237	44 365	45 055
Unwrought alloys	1 097	972	985	887	693
Argentina					
Unwrought	1 624	1 536	2 017	1 777	984
Brazil					
Ore	3 070	3 214	6 015	3 137	1 493
Chile					
Unwrought	605	444	2 222	...	...
Colombia					
Unwrought (a)	389	339	...	...	...
Guyana					
Unwrought & semi-manufactures (a)	78	75	9	...	...
Uruguay					
Unwrought	38	45	41	...	...
Venezuela					
Unwrought	207	277	299	587	...
Hong Kong					
Unwrought	873	652	629	610	988
India					
Unwrought (a)	1 697	2 736	1 771	2 319	3 114
Iran (d)					
Unwrought	326	554	453	357	602
Iraq					
Unwrought (a)	60	30	82	51	...
Israel (g)					
Unwrought	10	30	20	7	1
Japan					
Ores & concentrates	26	10	3	—	92
Unwrought	31 061	35 816	31 163	21 968	31 120
Korea, Republic of					
Ores & concentrates	...	4 965	12 594	10	295
Unwrought	538	949	(a) 636	821	627
Lebanon					
Unwrought & scrap	14	16	...	...	...
Malaysia (c)					
Ore	18 110	15 159	21 517	27 772	12 349
Unwrought (a)	269	157	266	139	126
Philippines					
Unwrought (a)	1 175	634	995	267	277

Tin

Imports of Tin

tonnes

Country	1972	1973	1974	1975	1976
Singapore					
Ore	257	134	23	37	982
Unwrought	404	762	636	838	544
Unwrought alloys	193	188	302	281	309
Syria					
Unwrought & scrap	151	84	30	94	115
Taiwan					
Unwrought	639	903	705	915	814
Australia					
Unwrought	69	43	56	28	32
New Zealand (e)					
Unwrought (a)	332	303	284	300	290

Note: In this table the description 'unwrought' tin corresponds to item 687.1 in the Standard International Trade Classification (Revised) and comprises ingots, pigs, unwrought bars, sticks, etc

(a) Including alloys

(b) Sn content

(c) From 1975 includes Sabah and Sarawak

(d) Years ended 20 March following that stated

(e) Years ended 30 June of that stated

(f) Department of Customs & Excise figures; these include data not only for S. Africa but also for Botswana, Lesotho, Namibia and Swaziland

(g) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

Production of Titanium Minerals

tonnes

Country	1972	1973	1974	1975	1976
Finland					
Ilmenite	149 500	159 000	152 000	122 600	122 600
Norway					
Ilmenite	608 477	752 934	848 138	526 666	766 664
Portugal					
Ilmenite	752	610	274	212	367
Spain					
Ilmenite	22 483	5 416	—	—	—
Soviet Union					
Concentrates	...	...	* 307 000	* 327 000	* 380 000
Canada (a)					
Ilmenite (d)	2 048 879	2 082 206	2 017 483	1 825 042	2 115 230
USA					
Ilmenite (b)	615 021	703 987	675 464	650 706	591 851
Brazil					
Ilmenite	3 791	6 400	6 743	4 596	14 615
Rutile	316	178	146	104	128
India					
Ilmenite	91 069	77 191	* 132 000	* 82 000	* 82 000
Rutile	3 065	3 400	5 800	* 3 600	* 3 600
Japan					
Ilmenite	2 115	1 506	* 1 398	—	—
Malaysia (c)					
Ilmenite	154 320	185 413	153 530	112 248	180 004
Sri Lanka					
Ilmenite	82 503	93 482	81 098	64 010	55 814
Rutile	2 151	2 252	3 051	3 111	1 039
Australia					
Ilmenite	707 413	719 601	816 746	991 433	959 203
Rutile	313 139	335 231	318 702	348 350	389 750
Leucoxene	10 730	11 097	14 782	16 871	12 223
World total					
Ilmenite (Wt. of concs)	4 486 000	4 788 000	4 885 000	4 381 000	4 888 000
Rutile (Wt. of concs)	319 000	341 000	328 000	355 000	395 000
All forms	4 816 000	5 140 000	5 534 000	5 080 000	5 675 000

Note: The figures in this table refer to gross tonnage of titanium concentrates

(a) Shipments

(b) Includes a mixed product containing ilmenite, leucoxene and rutile

(c) Exports

(d) Mostly processed into Sorelslag (70–72% TiO₂) and pig-iron

Exports of Titanium Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	77	299	1 846	15 177	386
France					
Titanium minerals	336	277	372	515	425
Germany, Federal Republic of					
Titanium minerals	299	565	1 044	1 579	1 411
Finland					
Ilmenite	9 079	—	1	—	—
Norway					
Ilmenite & rutile	598 729	684 660	776 814	534 606	728 346
Sweden					
Titanium minerals	100	—	72	—	—
South Africa					
Ilmenite	301	40	—	—	—
Canada					
Titanium dioxide slag (c)	...	...	...	...	...
USA					
Ores & concentrates	1 645	1 482	3 064	3 521	4 576
Titanium metal unwrought (a)	3 196	3 760	4 291	3 928	5 590
India					
Ilmenite	68 945	75 055	118 634	68 975	120 727
Japan					
Titanium sponge metal	3 256	2 264	2 892	2 391	1 632
Titanium & alloys	344	507	738	883	923
Malaysia (d)					
Ilmenite	154 320	185 413	153 530	112 248	180 004
Other titanium ores	...	241	153	—	—
Sri Lanka					
Ilmenite	85 501	87 012	87 182	...	70 890
Rutile	3 277	2 846	2 393	...	...
Australia					
Rutile	353 767	339 246	344 539	319 006	346 862
Ilmenite (b)	426 782	668 101	750 091	545 031	964 686

(a) Including alloys and scrap

(b) Including leucoxene

(c) Sorelslag (70–72% TiO₂): estimated at 700 000 tonnes per year

(d) From 1975 includes Sabah and Sarawak

Imports of Titanium Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom (a)					
Ilmenite	275 586	358 511	317 421	225 264	297 087
Other ores & concentrates	48 749	49 291	72 507	33 379	84 232
Titanium metal	744	1 373	1 258	1 069	681
Belgium-Luxembourg					
Titanium minerals	69 247	71 120	121 125	31 555	101 977
Titanium metal	454	967	1 739	1 598	1 659
France					
Titanium minerals	139 703	142 385	176 359	117 414	194 002
Titanium metal	1 071	1 121	1 137	1 518	1 660
Germany, Federal Republic of					
Ilmenite	335 929	373 185	419 623	246 434	384 357
Other titanium minerals	121 570	116 739	108 815	83 757	88 376
Titanium metal	1 485	3 090	3 806	4 431	3 298
Italy					
Titanium minerals	133 389	134 224	167 229	102 929	179 754
Finland					
Titanium minerals	304	2 082	17 561	15 282	3 315
Portugal					
Rutile	149	268	259	180	239
Spain					
Ilmenite	39 468	43 766	76 596	54 851	101 302
Sweden					
Titanium minerals	2 927	3 754	4 797	4 234	3 075
Titanium metal	274	650	961	1 554	1 396
Turkey					
Titanium minerals	2 612	655	502	2 132	2 350
Yugoslavia					
Rutile	2 637	24 031	36 757	51 969	45 093
Algeria					
Titanium minerals	356	107	111	322	...
Canada					
Titanium metal	202	252	416	405	439
USA					
Ilmenite	13 459	63 177	74 796	110 686	152 772
Titanium slag	270 576	215 228	214 342	192 942	155 695
Rutile	200 064	205 804	223 611	203 662	255 565
Titanium metal	3 442	6 477	10 149	4 871	3 271
Titaniferous iron ore	74 510	75 762	182 576	41 759	83 182
Argentina					
Titanium minerals	1 755	1 815	2 433	1 568	1 809
Brazil					
Ilmenite	20 829	37 765	35 880	27 517	41 250
Rutile	2 654	2 310	3 213	3 206	4 620
Hong Kong					
Titanium minerals	97	203	150	90	60
Japan					
Titanium minerals	446 161	493 719	680 511	444 056	496 750
Korea, Republic of					
Titanium minerals	4 722	13 956	18 469	5 222	15 861
Rutile sand	680	1 029	1 456	1 675	2 343
Philippines					
Rutile	918	615	552	573	539
Singapore					
Titanium minerals	595	443	144	196	397
Thailand					
Titanium minerals	461	1 031	591	...	—

Note: Significant quantities of titanium Sorels slag are believed to be imported into various Western European countries, but details are not available

(a) United Kingdom is known to import about 70 000 tonnes per annum of Sorels slag (70–72% TiO₂)

Production of Tungsten Ore

tonnes (WO₃ est.)

Country	1972	1973	1974	1975	1976
United Kingdom	3	16	20	13	13
France	734	954	900	780	798
Netherlands (e)	245	364	612	815	* 740
Austria	—	—	—	415	1 813
Czechoslovakia	* 96	* 101	* 100	* 100	* 100
Portugal (c)	1 769	1 951	1 851	1 796	1 588
Soviet Union	* 9 100	* 9 300	* 9 600	* 9 800	* 10 100
Spain	456	394	438	442	414
Sweden	...	426	271	180	124
Namibia	112	28	—	9	10
Nigeria	* 1	* 1	* 1	—	—
Rhodesia	190	194	115	48	32
Rwanda	316	381	316	387	484
Uganda	137	* 137	* 137	* 137	* 139
Zaire	357	295	246	322	303
Canada (a)	2 017	2 105	1 614	1 478	2 168
Guatemala	23	120	18	3	...
Mexico	456	439	390	349	296
USA (b)	4 029	4 037	4 482	3 140	3 357
Argentina	199	105	119	73	78
Bolivia	2 750	3 663	3 444	3 168	3 278
Brazil (a)	1 056	1 168	1 149	1 151	1 180
Peru	1 203	1 077	887	788	650
Burma (d)	652	570	630	415	590
China	* 9 400	* 10 100	* 10 700	* 11 300	* 11 350
Hong Kong	* 6	* 6	* 6	* 6	* 6
India	21	21	19	24	29
Japan	1 077	1 048	970	1 023	1 049
Korea, Dem. P.R. of	* 2 710	* 2 720	* 2 720	* 2 710	* 2 710
Korea, Republic of	2 561	2 741	2 935	3 082	3 262
Malaysia	158	158	165	134	81
Thailand	4 215	3 281	2 779	2 237	2 590
Australia (c)	1 985	1 667	1 419	1 888	2 508
New Zealand	13	1	7	—	* 10
World total	48 000	50 000	49 000	48 000	52 000

(a) Mainly scheelite

(b) Shipments from mine

(c) Wolfram and scheelite

(d) Tin-wolfram concentrates

(e) Estimated production from separation complex ores, excluded from world totals

Exports of Tungsten

Country	1972	1973	1974	1975	1976
United Kingdom					
Tungsten ore	398	729	1 038	189	206
Tungsten metal	111	273	414	694	337
Tungsten carbide	163	148	200	140	(b) 196
Belgium-Luxembourg					
Tungsten ore	163	88	160	84	36
France					
Tungsten ore	1 402	1 206	1 067	1 399	1 322
Tungsten metal	221	307	580	263	372
Germany, Federal Republic of					
Tungsten metal	530	587	2 002	588	585
Netherlands					
Tungsten ore (d)	374	560	939	1 254	1 239
Austria					
Tungsten ore	9	80	20	30	450
Tungsten metal	96	157	177	150	183
Portugal					
Tungsten ore	736	1 807	3 195	1 940	1 875
Spain					
Tungsten ore	145	226	208	208	193
Sweden					
Tungsten ore	107	134	33	—	135
Tungsten metal	26	118	99	43	110
Rwanda					
Tungsten ore & concentrates (a)	304	343	315	379	384
South Africa (e)					
Tungsten ore	20	55	(a) 130	(a) * 260	(a) * 285
Uganda					
Wolframite ore	246	178	176	229	136
Zaire					
Tungsten ore	440	403	235	443	280
Canada (a)	* 1 330	* 2 050	* 1 240	* 1 200	* 1 350
Guatemala (a)	* 8	* 43	* 6	* 1	...
Mexico					
Tungsten ore & concentrates	475	522	349	731	381
USA					
Tungsten ore & concentrates	83	79	1 044	1 158	1 520
Metal, alloys & scrap	181	306	329	394	499
Argentina					
Tungsten ore	138	59	11	...	...
Tungsten concentrates	70	7	11	...	...
Bolivia					
Tungsten ore (a)	2 750	2 768	2 618	2 551	3 275
Brazil					
Tungsten ore	1 724	1 348	1 389	1 411	1 044
Peru					
Tungsten ore & concentrates (a)	1 014	809	631	* 630	...
Burma					
Tungsten ore & concentrates	492	955	808	338	...
Tin-tungsten ores	258	342	432	306	...
China					
Tungsten ore & concentrates (a)	* 5 000	* 6 000	* 5 500	* 4 000	* 3 000

Tungsten

Exports of Tungsten

tonnes

Country	1972	1973	1974	1975	1976
Japan					
Tungsten metal (c)	81	64	114	200	184
Korea, Dem. P.R. of (a)	* 640	* 1 000	*1 100	* 1 100	* 1 000
Korea, Republic of					
Tungsten ore	4 035	4 368	2 898	3 278	2 366
Malaysia					
Wolframite ore	327	314	254	228	134
Singapore					
Tungsten ore	47	565	80	13	562
Thailand					
Tungsten ore	6 433	4 972	4 929	3 382	4 061
Australia					
Wolframite ores & concentrates	835	600	339	575	467
Scheelite ores & concentrates	2 008	1 756	1 508	2 201	2 670

(a) W content

(b) Includes aluminium, chromium, tantalum and titanium carbides, but believed to consist predominantly of tungsten carbide

(c) Including alloys

(d) Excludes exports to Belgium-Luxembourg, if any

(e) Department of Customs & Excise. These include data not only for S. Africa but also for Botswana, Lesotho, Namibia and Swaziland

Imports of Tungsten

Country	1972	1973	1974	1975	1976
United Kingdom					
Tungsten ore	6 486	8 769	4 009	3 355	3 829
Tungsten metal	80	60	126	224	153
Tungsten carbide	81	113	185	202	(c) 237
Belgium-Luxembourg					
Tungsten ore	265	418	458	170	418
France					
Tungsten ore	1 891	2 497	2 777	2 188	2 386
Tungsten metal	102	144	116	94	186
Germany, Federal Republic of					
Tungsten ore	6 226	6 886	4 246	3 365	4 362
Tungsten metal	315	392	3 513	591	603
Italy					
Tungsten ore	100	175	277	240	137
Tungsten metal	53	68	82	63	91
Netherlands					
Tungsten ore (e)	1 205	1 501	3 428	1 880	3 218
Austria					
Tungsten ore	2 643	2 254	1 996	1 717	2 722
Tungsten metal	36	44	62	195	196
Poland					
Tungsten concentrates	...	4 394	3 186	3 318	3 762
Soviet Union					
Tungsten concentrates	6 568	4 823	7 044	8 120	* 2 000
Sweden					
Tungsten ore	2 397	2 442	1 909	3 679	3 201
Tungsten metal	21	200	34	103	117
Yugoslavia					
Tungsten metal	59	56	12	9	11
South Africa (a)					
Tungsten ore & concentrates	543	468	539	422	341
Tungsten metal	45	49	71	33	13
Canada					
Tungsten ore & concentrates (b)	109	5	—	1	—
USA					
Tungsten ore (b)	2 675	5 011	5 346	3 133	2 632
Tungsten metal	142	120	120	137	280
India					
Tungsten ore	339	276	255	216	517
Tungsten metal	12	10	12	59	18
Japan					
Tungsten ore	2 436	4 563	3 818	2 027	2 605
Tungsten metal	60	246	336	22	106
Singapore					
Tungsten ore	...	478	71	11	163
Australia (d)					
Tungsten metal	13	11	14	12	4

(a) Department of Customs and Excise; these include data not only for S Africa but also for Botswana, Lesotho, Namibia and Swaziland. (Data up to 1973)

(b) W content

(c) Includes aluminium, chromium, tantalum and titanium carbides, but believed to consist predominantly of tungsten carbides

(d) Years ended 30 June of that stated

(e) Excludes imports from Belgium-Luxembourg, if any

Vanadium

Mine Production of Vanadium

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Finland	1 190	1 260	1 480	1 275	1 450
Norway	* 960	* 720	* 450	* 460	* 530
Soviet Union (b)	* 3 400	* 3 800	* 2 930	* 3 200	* 3 200
Namibia (a)	550	650	820	562	709
South Africa (c)	* 7 320	* 8 210	* 8 155	* 10 645	* 9 875
USA (d)	4 433	3 971	4 418	4 303	6 691
Chile (b)	* 650	* 960	* 580	* 600	...
World total	18 500	19 600	18 800	21 000	22 500

Note: Vanadium pentoxide is also known to have been produced in France as a byproduct of alumina manufacture; the V content of this was reported as 78 tonnes in 1970 but subsequent figures are not available

(a) Years ended 30 June of that stated

(b) Estimated vanadium content of slag exported only

(c) Includes V content of slag

(d) Recoverable vanadium

Exports of Vanadium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Pentoxide	22	266	153	99	76
Metal	...	...	11	146	1
Belgium-Luxembourg					
Vanadiferous residues	...	3	1 052	861	713
France					
Vanadiferous residues	...	2 583	1 143	333	23
Pentoxide	51	73	30	23	20
Germany, Federal Republic of					
Vanadiferous residues	37	168	1 115	1 240	1 280
Metal	6	10	15	30	0
Netherlands					
Vanadiferous residues (c)	...	60	883	3 082	23
Vanadium-titanium pig-iron (c)	—	—	1 132	—	—
Finland					
Pentoxide	2 440	2 354	2 681	2 407	2 571
Soviet Union					
Vanadiferous residues	37 500	42 800	36 600	20 598	12 913
South Africa (a)					
Pentoxide (f)	4 692	4 988	* 4 500	* 6 200	* 5 400
Vanadiferous residues (d)	* 8 000	* 8 000	* 8 500	* 10 000	* 11 000
Lead vanadium concentrates (b)	5 504	7 759	8 348	5 771	...
USA					
Ore, concentrates, oxides & vanadates (d)	285	376	329	349	160
Australia					
Ores & concentrates (e)	273	—	418	10 541	711

Note: In this table the description 'pentoxide' also includes vanadium oxides and hydroxides, if any

- (a) Figures up to 1973 are Department of Customs and Excise figures; these include data not only for S. Africa but also for Botswana, Lesotho, Namibia and Swaziland
(b) From 1974, output from the South West Africa Co Ltd, years ended 30 June of that stated
(c) Excludes exports to Belgium-Luxembourg, if any
(d) V₂O₅ content
(e) Years ended 30 June of that stated
(f) From 1974, IGS estimates, based on known imports into certain countries

Vanadium

Imports of Vanadium

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Pentoxide	542	1 133	914	822	989
Vanadium-titanium pig-iron	1 907	430	700	362	100
Metal	...	...	19	11	17
Belgium-Luxembourg					
Vanadiferous residues	...	1 821	3 687	5 738	6 790
Pentoxide	1 280	1 815	1 278	9 151	1 009
France					
Vanadiferous residues	...	6	74	1 459	47
Pentoxide	1 022	1 355	1 599	1 387	1 694
Vanadium-titanium pig-iron	4 344	7 547	4 117	4 564	173
Metal	12	29	21	6	1
Germany, Federal Republic of					
Vanadiferous residues	30 663	30 540	29 800	26 920	20 531
Pentoxide	716	1 134	...	408	433
Vanadium-titanium pig-iron	775	848	644	1 103	280
Metal	44	27	14	5	7
Italy					
Pentoxide	881	913	588	527	417
Vanadium-titanium pig-iron	7 317	1 879	2 204	219	200
Vanadiferous residues	...	2 921	3 952	3 257	2 094
Netherlands					
Vanadiferous residues (b)	...	17 747	13 644	4 469	3 809
Pentoxide (b)	14	94	23	298	81
Vanadium-titanium pig-iron (b)	150	52	32	40	60
Sweden					
Pentoxide	104	749	711	680	797
USA					
Vanadiferous residues (a)	1 300	2 400	2 254	2 626	2 720
Pentoxide (a)	—	—	484	1 156	606
Japan					
Pentoxide	2 039	2 632	3 099	2 876	3 225

Note: In this table the description 'pentoxide' also includes vanadium oxides and hydroxides, if any

(a) V content

(b) Excludes imports from Belgium-Luxembourg, if any

Mine Production of Zinc

tonnes (metal content)

Country	1972	1973	1974	1975	1976
United Kingdom (a)	1 200	2 900	2 800	4 000	4 800
France	13 286	13 335	14 465	13 810	34 700
Germany, Federal Republic of	114 942	122 804	116 044	116 072	115 345
Irish Republic	94 919	68 827	66 300	66 643	62 775
Italy	102 600	78 600	77 700	78 800	88 500
Austria	20 480	22 151	20 977	23 040	22 651
Bulgaria	* 80 000	* 80 000	* 80 000	* 83 000	* 85 500
Czechoslovakia	9 300	9 000	9 300	8 900	9 300
Finland (b)	49 893	58 650	59 300	52 800	59 200
German Democratic Republic	* 8 000	* 3 000	—	—	—
Greece	18 224	20 900	24 510	14 140	29 815
Greenland	—	—	(d) 168 000	152 000	142 000
Hungary	* 4 800	* 4 800	* 2 700	2 200	2 235
Norway	14 613	19 249	22 036	24 004	29 319
Poland	* 208 700	* 213 900	* 200 000	* 190 000	* 180 000
Portugal	1 788	689	—	—	—
Romania	55 000	60 000	60 000	60 000	60 000
Soviet Union	* 620 000	* 900 000	* 950 000	* 1 030 000	* 1 020 000
Spain	89 433	94 223	94 759	85 297	83 730
Sweden	113 728	118 542	113 699	111 325	128 326
Turkey	19 200	24 700	31 600	25 600	34 300
Yugoslavia	96 731	97 428	94 700	103 400	106 600
Algeria	14 900	14 405	10 200	11 300	7 900
Congo	950	2 680	3 300	4 000	5 100
Morocco	19 500	17 500	14 600	19 000	14 500
Namibia	46 300	33 900	39 400	37 700	26 900
Tunisia	11 266	8 742	6 254	6 000	7 300
South Africa	2 400	18 700	37 400	67 300	77 100
Zaire	98 450	84 852	88 078	78 000	67 800
Zambia (c)	55 983	53 355	58 338	46 922	36 327
Canada	1 271 595	1 351 000	1 240 192	1 229 481	1 145 013
Honduras	23 305	25 500	24 300	26 000	25 000
Mexico	271 844	271 373	262 716	288 851	259 183
Nicaragua	17 495	18 692	14 818	11 177	14 287
USA (b)	433 923	434 405	453 476	425 792	439 543
Argentina	44 527	40 596	39 647	37 351	40 593
Bolivia	39 700	51 181	45 973	46 466	49 206
Brazil	44 599	93 876	109 523	142 869	139 018
Chile	1 162	1 589	3 349	3 174	5 056
Colombia	* 80	146	37	7	60
Ecuador	49	—	202	83	140
Peru (b)	376 129	390 576	378 029	364 915	* 400 000
Burma	3 600	4 100	4 500	4 200	2 300
China	* 110 000	* 120 000	* 130 000	* 135 000	* 135 000
India	9 523	13 391	19 257	22 838	27 100
Iran	47 500	32 500	43 300	80 000	72 000
Japan	281 147	263 958	240 778	253 622	259 953
Korea, Dem. P.R. of	* 150 000	* 160 000	* 162 000	* 160 000	* 150 000
Korea, Republic of	35 925	48 150	40 734	45 919	59 136
Philippines	4 603	5 371	7 772	10 453	11 643
Thailand	1 000	100	33 500	5 600	—
Vietnam, Democratic	...	5 000	5 000	10 000	10 000
Australia	507 055	480 482	464 358	510 035	461 931
World total	5 700 000	6 100 000	6 200 000	6 300 000	6 200 000

(a) From a mixed copper-zinc concentrate

(b) Recoverable

(c) Smelter

(d) Includes production for last 5 months of 1973

Smelter Production of Zinc

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	73 800	83 800	84 400	53 400	41 600
Belgium	254 100	277 700	288 800	218 200	236 100
France	261 515	259 378	276 669	181 127	233 496
Germany, Federal Republic of	358 671	395 019	400 049	294 725	304 754
Italy	155 861	182 011	184 215	179 732	191 246
Netherlands	48 300	30 500	78 200	116 000	123 200
Austria	16 877	17 000	16 450	16 273	16 547
Bulgaria	80 000	* 80 000	* 80 000	* 80 000	* 92 500
Finland	81 096	80 662	91 786	109 885	110 633
German Democratic Republic	* 13 600	* 14 600	* 15 000	* 15 200	* 15 000
Norway	73 348	80 954	72 434	60 891	64 352
Poland	228 000	235 000	233 000	243 000	237 000
Romania	* 60 000	* 65 000	* 70 000	* 70 000	* 72 000
Soviet Union	* 650 000	* 940 000	* 980 000	* 1 030 000	* 1 000 000
Spain	99 179	106 951	130 006	138 045	158 471
Yugoslavia	48 641	63 120	79 681	89 062	95 000
Algeria	...	...	* 8 000	* 20 000	* 20 000
South Africa	47 200	53 100	65 400	63 723	66 299
Zaire	66 351	67 747	66 714	65 588	61 683
Zambia	55 983	53 500	58 358	46 922	36 327
Canada	476 168	532 552	437 725	426 941	472 316
Mexico	84 628	71 901	137 302	154 993	175 792
USA	574 411	529 323	503 658	397 393	452 554
Argentina	36 500	33 300	37 200	39 500	35 200
Brazil	15 557	22 300	30 519	31 428	43 154
Peru	69 810	69 645	71 378	65 712	* 65 000
China	* 120 000	* 120 000	* 130 000	* 140 000	* 150 000
India	25 227	12 506	21 103	25 730	26 785
Japan	804 777	842 983	849 897	701 794	742 069
Korea, Dem. P.R. of	* 120 000	* 130 000	* 130 000	* 140 000	* 135 000
Korea, Republic of	10 502	12 590	11 548	20 937	27 548
Australia	295 030	299 453	276 831	193 310	242 635
World total	5 305 000	5 763 000	5 916 000	5 430 000	5 744 000

Exports of Zinc

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	5 837	6 809	14 008	25 280	7 495
Unwrought	13 350	20 120	7 911	13 421	7 296
Unwrought alloys	2 470	6 546	4 775	4 456	5 884
Scrap	1 017	2 356	4 634	5 240	4 004
Belgium-Luxembourg					
Ore	57 704	50 579	68 950	22 669	28 200
Unwrought	192 679	221 678	193 632	180 211	188 043
Scrap	7 350	9 045	8 972	4 734	7 075
Denmark					
Unwrought	63	40	300	82	65
Unwrought alloys	236	102	117	51	97
Scrap	2 350	2 638	3 816	3 328	3 675
France					
Ore	2 687	9 045	18 938	17 235	19 990
Unwrought	47 460	37 143	25 075	15 018	32 136
Unwrought alloys	700	2 887	4 348	3 072	2 103
Germany, Federal Republic of					
Ore	43 974	82 187	76 116	64 158	79 179
Unwrought (a)	104 675	110 274	81 458	77 389	104 569
Scrap	6 787	9 827	12 194	6 934	5 245
Irish Republic					
Ores & concentrates	164 428	150 006	133 916	146 535	210 506
Italy					
Ore	82	28	15	10 339	17 039
Unwrought	124	4 984	20 659	28 735	35 971
Netherlands					
Ore	11 260	23 747	57 985	28 875	24 162
Unwrought	46 920	39 181	67 560	87 521	129 078
Scrap	7 325	11 238	12 233	7 457	5 158
Austria					
Ore	—	3 170	5 085	4 632	6 456
Unwrought (a)	846	1 073	521	236	934
Scrap	128	247	128	42	149
Finland					
Concentrates	100	—	7 097	3 660	...
Unwrought	67 821	64 241	66 584	78 576	108 057
Greece					
Ore & concentrates	30 846	43 266	51 289	26 110	50 462
Norway					
Ore	13 392	14 888	20 488	14 765	18 898
Unwrought	49 491	54 428	45 338	32 759	46 254
Unwrought alloys	8 964	12 960	9 900	9 054	12 072
Scrap	18	133	371	114	347
Poland					
Unwrought (b)	86 400	86 281	85 256	84 524	58 586
Portugal					
Ore	2 762	2 150	0	0	—
Soviet Union					
Unwrought	133 100	146 400	114 800	100 575	100 000
Spain					
Ore	4 518	6 928	10 492	7 378	6 545
Unwrought (a)	5 830	2 095	2 812	30 549	34 491
Sweden					
Ore	216 178	224 595	231 066	211 765	253 367
Unwrought (a)	370	3 164	1 772	475	575
Scrap	2 508	2 118	1 103	511	3 527
Switzerland					
Unwrought & scrap	1 377	1 627	1 837	1 586	1 068
Turkey					
Ores & concentrates	16 691	26 009	54 746	51 549	25 952
Yugoslavia					
Ore	42 356	45 624	...	...	...
Concentrates	7 379	5 228	1 411	7 698	594
Unwrought	21 585	34 560	40 699	51 208	47 962

Exports of Zinc

tonnes

Country	1972	1973	1974	1975	1976
Algeria					
Ore	27 664	7 677	3 556	...	...
Scrap	640	648	481	666	...
Congo					
Ore	1 722	12 235	626	—	3
Morocco					
Ore	21 649	26 195	26 449	26 499	19 091
Nigeria					
Ores & concentrates	299	110	1 230	...	71
South Africa					
Ores & concentrates (e)	16 679	19 632	39 422	66 706	86 048
Unwrought (f)	155	1 842	* 800	* 1 900	* 3 300
Scrap	1 199	779	...	...	...
Tunisia					
Ore	16 400	15 200	10 600	8 196	15 586
Zaire					
Ores & concentrates	* 28 000	7 625	235	206	...
Unwrought	71 174	68 814	50 994	21 106	8 510
Zambia					
Unwrought	60 572	51 115	50 227	41 600	52 300
Canada					
Ore (c)	694 583	856 497	866 698	705 088	644 094
Unwrought	371 994	426 045	300 754	249 545	354 480
Scrap	9 248	9 173	20 225	16 305	16 186
Guatemala					
Ore	1 134	...	—	—	160
Honduras					
Ores & concentrates	...	...	46 623	52 462	46 570
Mexico					
Ores & concentrates	300 978	229 872	291 956	115 644	153 476
Unwrought	40 322	18 840	73 711	92 445	122 944
USA					
Unwrought (a)	6 336	20 417	35 698	10 655	5 048
Scrap (c)	1 387	6 436	11 269	4 631	8 164
Argentina					
Unwrought	64	128	467	...	1 212
Bolivia					
Ores (c)	39 702	49 568	49 015	49 544	49 207
Peru					
Concentrates (c)	341 345	324 766	358 415	345 269	...
Unwrought (c)	55 375	54 257	46 849	58 771	...
Burma					
Concentrates	3 218	6 487	6 947	6 985	...
Iran (d)					
Ore	95 378	72 355	70 483	63 308	32 765
Japan					
Unwrought	106 637	64 005	115 959	52 841	76 127
Unwrought alloys	810	1 083	14 392	3 076	2 693
Scrap	1 209	1 497	778	300	1 304

Exports of Zinc

tonnes

Country	1972	1973	1974	1975	1976
Korea, Republic of					
Ore	46 180	59 260	54 474	47 620	48 786
Philippines					
Concentrates	8 708	10 652	14 216	14 778	17 490
Scrap	1 102	1 098	436	354	36
Singapore					
Unwrought	1 096	5 456	3 412	1 701	2 687
Australia					
Ores & concentrates (c)	142 800	223 342	212 513	177 418	235 310
Unwrought (a)	202 769	195 113	161 560	117 693	152 699

Note: In this table the description 'unwrought' zinc corresponds to item 686.1 in the Standard International Trade Classification (Revised) and comprises blocks, pigs, slabs, etc

(a) Including alloys

(b) Including sheets

(c) Zn content

(d) Years ended 20 March following that stated

(e) Source: Dept. of Mines

(f) From 1974, IGS estimates, based on known imports into certain countries

Imports of Zinc

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom					
Ores & concentrates	110 375	141 190	197 692	108 161	119 081
Unwrought	224 681	219 012	195 400	192 180	193 523
Unwrought alloys	6 116	6 898	10 440	7 384	8 991
Scrap	3 309	2 838	3 047	1 828	3 319
Belgium-Luxembourg					
Ore	554 571	636 923	644 850	610 984	594 982
Unwrought	39 295	67 021	69 592	23 885	29 051
Scrap	1 812	4 293	12 066	14 330	8 316
Denmark					
Unwrought	13 060	13 210	13 532	11 159	10 152
Unwrought alloys	1 854	1 777	1 680	1 475	1 719
Scrap	3	32	60	61	123
France					
Ore	436 517	465 181	540 498	388 657	459 300
Unwrought	50 754	58 088	75 822	62 266	61 903
Scrap	17 937	22 817	23 884	13 236	12 191
Germany, Federal Republic of					
Ore	501 415	622 593	640 056	550 887	601 349
Unwrought (a)	144 360	116 251	94 870	90 535	133 778
Scrap	2 327	3 767	5 177	5 414	6 339
Irish Republic					
Unwrought (a)	4 004	4 531	2 325	2 419	2 820
Italy					
Ore	147 948	227 558	300 794	193 940	242 140
Unwrought	37 629	48 428	42 473	39 204	44 540
Unwrought alloys	9 834	12 985	9 555	7 612	9 305
Scrap	4 228	4 664	4 387	2 971	2 107
Netherlands					
Ore	78 924	98 471	205 898	295 722	309 138
Unwrought	20 030	31 478	43 290	25 510	27 964
Unwrought alloys	1 312	625	912	940	813
Scrap	3 407	6 947	8 066	4 031	4 476
Austria					
Ore	674	330	373	128	7
Unwrought (a)	4 761	7 275	9 371	7 571	5 237
Finland					
Ore	85 303	52 870	112 326	121 358	110 391
Unwrought (a)	2 496	1 786	1 095	2 488	2 148
Scrap	372	342	526	31	—
German Democratic Republic					
Unwrought (a)	44 271	42 006	46 254	...	...
Greece					
Unwrought	11 731	14 705	11 363	11 655	12 964
Hungary					
Crude & refined (g)	21 402	20 710	24 516	26 513	28 735
Iceland					
Unwrought (a)	112	36	42	43	63
Norway					
Ore	120 381	121 120	86 805	61 983	72 146
Unwrought	751	758	3 549	4 140	3 099
Scrap	2 753	2 818	2 279	2 693	3 155
Poland					
Concentrates	160 889	125 555	95 187	137 196	125 431
Unwrought	...	1 024	3 802	2 908	3 797
Portugal					
Unwrought (b)	10 982	11 619	11 645	8 167	12 685
Soviet Union					
Unwrought	50 600	44 800	48 700	44 504	45 000
Unwrought alloys	3 900	3 900	3 600	4 576	4 000
Spain					
Ore	48 121	55 830	126 404	137 900	117 814
Unwrought (b)	3 740	2 610	1 041	253	423
Sweden					
Unwrought	38 858	40 849	40 714	43 356	39 130
Unwrought alloys	4 035	4 647	3 911	4 981	4 462
Scrap	18	43	444	227	193

Imports of Zinc

Zinc

tonnes

Country	1972	1973	1974	1975	1976
Switzerland					
Unwrought	32 788	28 436	24 895	16 887	20 169
Turkey					
Unwrought	17 170	13 473	22 597	17 383	23 450
Yugoslavia					
Concentrates	6 250	44 702	68 318	58 046	67 891
Unwrought	23 675	26 925	25 890	18 772	12 973
Algeria					
Unwrought	...	3 311	2 600	2 188	...
Egypt					
Unwrought	1 255	153	505	353	...
Ghana					
Unwrought (a)	203	340	202	206	...
Ivory Coast					
Unwrought (b)	1 057	2 101	1 269	781	2 050
Oxides	101	...	69	50	94
Kenya					
Unwrought (a)	2 621	3 432	4 980	876	2 056
Libya					
Unwrought	67	...	5	1 332	1
Morocco					
Unwrought	1 871	1 831	1 547	1 085	1 948
Mozambique					
Unwrought	353	1 151	1 145	214	425
Nigeria					
Unwrought (a)	5 682	4 763	2 841	10 116	9 961
South Africa					
Ores & concentrates	21 599	16 036	38 077	20 704	22 095
Unwrought	6 683	918	4 691	1 880	410
Scrap	226	1 154	604	306	320
Sudan					
Unwrought	80	2	—	...	250
Tanzania					
Unwrought (a)	1 990	3 228	3 683	3 732	4 095
Tunisia					
Unwrought (b)	485	1 038	740	723	848
Uganda					
Unwrought (a)	1 115	324	225	167	33
Canada					
Ores & concentrates (b)(c)	308	3 709	2 125	756	3 449
Unwrought	15 010	19 335	7 272	802	12 703
Costa Rica					
Unwrought (a)	2 415	1 864	2 371	921	3 205
Honduras					
Unwrought	280	508	323	427	692
Jamaica					
Unwrought	933	201	569	695	...
Nicaragua					
Unwrought	...	792	1 193	292	...
Trinidad & Tobago					
Unwrought	64	—	564	224	484
USA					
Ore (c)	231 212	180 579	217 763	131 350	88 101
Unwrought (a)	474 269	535 311	499 885	345 257	648 198
Scrap	714	1 394	2 194	1 286	1 635
Argentina					
Unwrought	2 008	3 301	960	4 083	3 258
Brazil					
Unwrought	45 973	60 893	49 854	42 967	50 429
Unwrought alloys	8 160	16 665	13 615	7 602	3 663
Chile					
Unwrought	5 382	4 086	4 145	...	...
Colombia					
Unwrought (a)	7 037	10 620	...	...	...
Uruguay					
Unwrought & sheets	1 756	928	925	10 876	...

Imports of Zinc

tonnes

Country	1972	1973	1974	1975	1976
Venezuela					
Unwrought	10 242	15 003	10 947	8 267	...
Unwrought alloys	819	537	1 450	1 532	...
Burma					
Unwrought (a)	332	469	114	...	...
Cyprus					
Unwrought (a)	59	33	1	33	12
Hong Kong					
Unwrought	10 010	11 147	13 653	9 297	17 165
Scrap	121	45	13	7	93
India					
Ore & concentrates	37 756	34 751	10 321	23 079	38 493
Unwrought (d)	58 131	28 317	51 885	24 492	38 155
Unwrought alloys (d)	18 671	34 355	14 759	6 704	13 320
Indonesia					
Unwrought (a)	45 351	16 621	16 623	18 079	28 206
Scrap	—	463	866	840	340
Iran (e)					
Unwrought	4 749	6 822	2 295	8 071	5 505
Israel (h)					
Unwrought	4 636	3 396	1 724	780	1 200
Japan					
Ore	1 115 675	1 205 405	1 215 879	946 272	986 053
Unwrought	7 953	27 794	23 814	22 181	28 123
Scrap	64	95	144	117	316
Korea, Republic of					
Unwrought	7 290	21 232	18 362	3 105	5 961
Scrap	106	826	2 195	2 192	4 134
Lebanon					
Unwrought (b)	909	1 149	...	...	...
Malaysia (i)					
Ore	4 980	6 186	2 409	41	29
Unwrought	2 983	2 234	5 486	5 868	8 223
Unwrought alloys	169	379	745	748	1 095
Philippines					
Unwrought (a)	13 700	11 814	12 964	9 371	13 985
Singapore					
Unwrought	7 428	10 036	10 432	9 340	11 813
Syria					
Unwrought (b)	182	243	141	315	489
Taiwan					
Unwrought	25 402	23 589	22 277	12 307	26 068
Scrap	115	1 405	1 446	1 425	2 156
Thailand					
Unwrought	25 056	22 833	23 085	17 820	19 470
Australia (f)					
Ores & concentrates	—	17	21 935	6 468	—
New Zealand (f)					
Unwrought (a)	14 102	20 161	19 760	21 485	15 498

Note: In this table the description 'unwrought' zinc corresponds to item 686.1 in the Standard International Trade Classification (Revised) and comprises blocks, pigs, slabs, etc

(a) Including alloys

(b) Including scrap

(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

(g) Including semi-manufactures

(h) Figures may be incomplete as value only given in Israeli trade return for imports from some countries

(i) From 1975 includes Sabah and Sarawak

Production of Zirconium Minerals

tonnes

Country	1972	1973	1974	1975	1976
South Africa (a)	...	4 956	11 978	11 594	11 252
USA	* 90 000	* 100 000	* 110 000	* 110 000	* 110 000
Brazil (b)	4 214	3 094	2 518	2 925	3 058
Korea, Republic of	13	23	40	* 20	...
Malaysia (c)	2 722	3 132	20 036	10 407	3 131
Sri Lanka	30	28	21	39	10
Thailand	366	402	2 002	383	55
Australia (d)	353 127	371 358	362 143	375 548	413 655
World total	450 000	483 000	509 000	511 000	541 000

Note: Zirconium minerals are known to have been produced in other countries including China, India, Democratic Kampuchea, Nigeria, Soviet Union and Spain

(a) Baddeleyite concentrates

(b) Zirkite

(c) Exports

(d) Zircon content of concentrates

Zirconium

Exports of Zirconium Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	103	1 417	289	847	859
Germany, Federal Republic of	1 596	2 405	2 270	4 177	3 791
South Africa	—	4 883	6 256	4 102	3 319
USA	16 049	26 777	20 321	18 395	10 353
Malaysia (a)	2 722	3 132	20 036	10 407	3 131
Thailand	...	...	840	50	...
Australia	385 607	428 841	384 478	299 336	350 512

(a) From 1975 includes Sabah and Sarawak

Imports of Zirconium Minerals

tonnes

Country	1972	1973	1974	1975	1976
United Kingdom	36 519	40 604	36 106	34 654	21 809
France	32 163	39 708	42 114	34 721	27 822
Germany, Federal Republic of	34 818	40 081	23 552	24 761	...
Italy	33 280	36 127	32 947	34 530	44 448
Sweden	454	899	720	841	943
Turkey	—	94	17	37	121
South Africa	340	72	41	49	232
USA	61 269	88 925	56 702	36 473	58 643
Argentina	232	192	20	108	10
Brazil	5 635	6 247	7 891	6 903	10 864
Chile	248	79	58	...	...
Japan	117 175	138 013	119 469	85 389	112 925
Korea, Republic of	50	652	477	180	536
Malaysia (a)	27	72	492	206	49
Singapore	65	96	126	31	35

(a) From 1975 includes Sabah and Sarawak

Production of Beryl

tonnes

Country	1972	1973	1974	1975	1976
Portugal	17	3	15	25	—
Soviet Union	* 1 400	* 1 500	* 1 500	* 1 600	* 1 650
Angola	175	115	91	30	—
Rhodesia	* 60	* 60	* 60	* 60	* 60
Rwanda	103	95	59	18	* 65
South Africa	250	52	2	3	3
Uganda	62	62	54	* 55	* 55
Zambia	189	* 200	* 200	* 200	...
Argentina	187	185	269	167	112
Brazil (a)	1 551	1 210	640	646	368

Production of Borates (b)

tonnes

Country	1972	1973	1974	1975	1976
Soviet Union	* 315 000	* 315 000	* 315 000	* 318 000	* 227 000
Turkey	622 440	525 588	1 038 588	970 951	911 800
USA (c)	1 017 000	1 111 000	1 075 000	1 063 000	1 130 000
Argentina	52 438	63 380	77 989	76 629	80 851

Production of Germanium (j)

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Soviet Union	* 7	* 9	* 9	* 10	* 14
Namibia	* 5	* 9	* 9	* 9	* 9
Zaire	23	25	62	25	23
USA (f)	* 15	* 17	* 16	* 14	* 16
Japan	22	28	17	15	16

Production of Nepheline Syenite (e)

tonnes

Country	1972	1973	1974	1975	1976
Norway	165 000	200 313	211 982	200 853	216 607
Canada (i)	507 555	516 554	559 986	468 427	540 121

Production of Perlite

tonnes

Country	1972	1973	1974	1975	1976
Greece	123 816	247 948	213 017	163 391	228 081
Hungary	63 930	95 730	93 000	72 040	96 180
Soviet Union	* 700 000	* 700 000	* 700 000	(g)	(g)
Turkey	30 400	14 736	17 963	10 527	24 500
Mexico	12 868	13 479	12 136	19 066	14 555
USA	589 000	689 000	613 000	640 000	660 000
Philippines	...	825	1 131	665	1 649
Australia	1 807	2 342	2 061	3 447	3 448
New Zealand	2 540	1 599	465	1 500	1 500

Production of Selenium

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Belgium (a)	67	49	75	40	72
Finland	5	9	10	8	10
Sweden	42	66	48	67	50
Yugoslavia	41	43	40	43	45
Canada	327	263	334	342	227
Mexico	44	39	50	58	58
USA (f)	335	361	292	162	182
Peru	8	8	8	7	9
Japan	335	358	334	417	460
Australia	36	18	30	38	35

Production of Tellurium

tonnes (metal content)

Country	1972	1973	1974	1975	1976
Canada	27	42	63	42	53
USA (f)	117	109	87	59	...
Peru	2	26	36	21	12
Japan	35	24	26	21	29

Production of Uranium (h)

tonnes (metal content)

Country	1972	1973	1974	1975	1976
France	1 427	1 578	1 716	1 854	2 111
Portugal	81	73	92	115	101
Spain	116	79	62	191	193
Gabon	444	650	770	930	920
Niger	737	949	1 120	1 400	1 460
South Africa	3 077	2 623	2 712	2 488	2 759
Canada (i)	3 755	3 661	3 689	4 679	5 627
USA	9 924	10 182	8 868	8 923	9 770
Argentina	38	39	32	32	1 739

Production of Vermiculite

tonnes

Country	1972	1973	1974	1975	1976
Kenya	932	871	1 683	7 483	3 587
South Africa	147 903	156 461	182 613	207 529	222 077
Tanzania	—	—	20	* 20	* 20
USA (c)	305 538	331 000	309 000	299 000	276 000
Argentina	4 148	2 548	3 825	3 412	4 098
Brazil	564	46	6	800	946
India	1 541	2 709	2 895	2 245	3 452
Australia	380	426	225	268	716

Production of Wollastonite (d)

tonnes

Country	1972	1973	1974	1975	1976
Finland	6 491	6 547	9 118	13 091	6 200
Kenya	—	55	100	60	120
Mexico	559	1 593	1 984	543	1 143
USA	* 41 000	* 55 000	* 54 000	* 46 000	* 68 000
India	3 326	476	954	1 102	4 541

(a) Exports

(b) Borates are also known to have been produced in Federal Republic of Germany, Iran and China

(c) Sold or used by producers

(d) Wollastonite is also known to have been produced in Turkey

(e) Large quantities of nepheline syenite are known to be produced in the Soviet Union

(f) Includes production of secondary metal

(g) The Soviet Union is believed to be one of the largest producers of perlite

(h) Uranium is also known to have been produced in other countries including China, Federal Republic of Germany, Finland, India, Italy, Mozambique, Soviet Union, and Sweden

(i) Producer's shipments

(j) Belgium-Luxembourg and the Federal Republic of Germany are known to refine sizeable amounts of germanium from imported or domestic material. Other countries known to produce smaller amounts include United Kingdom, France, Italy and Yugoslavia

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