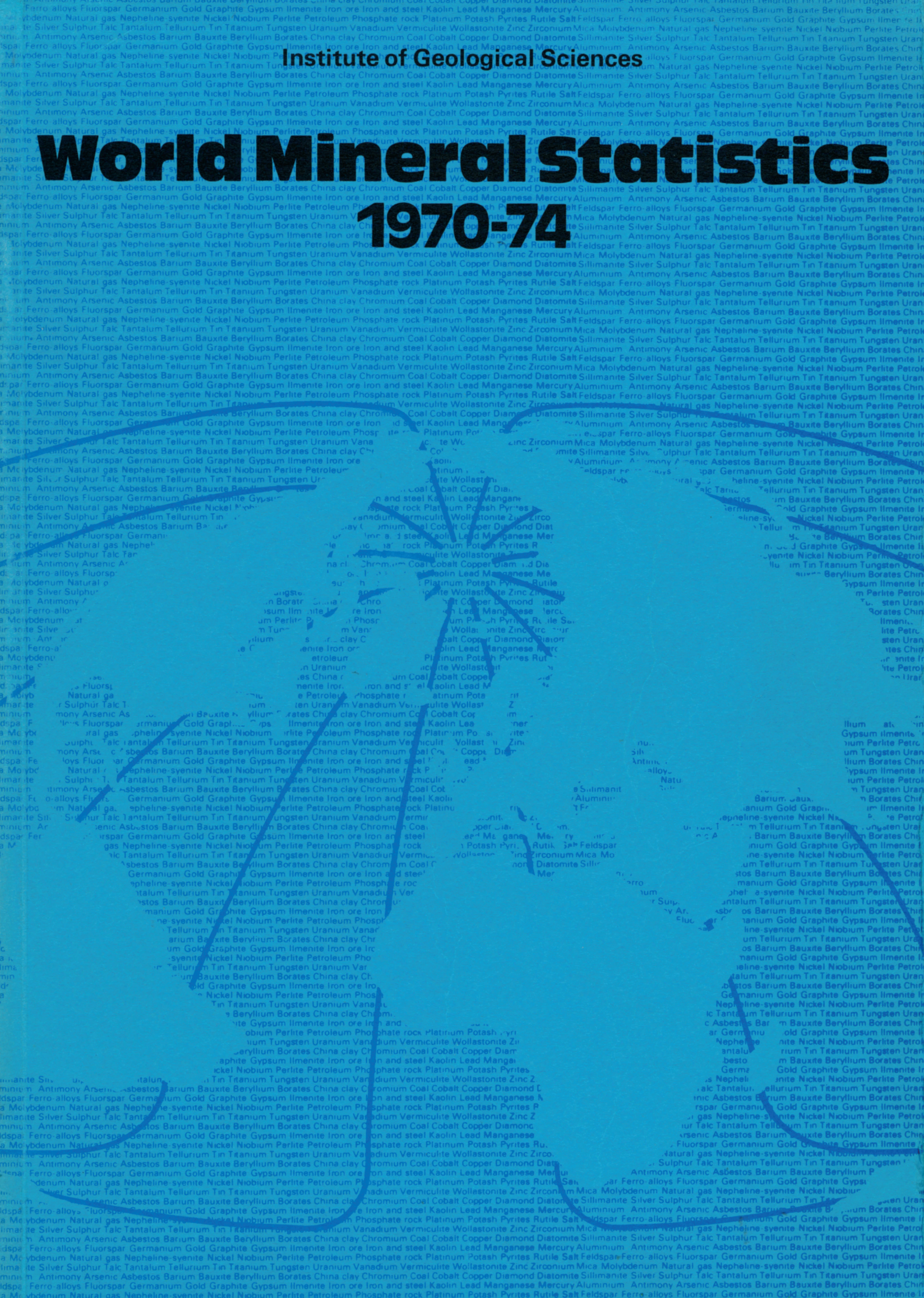


Institute of Geological Sciences

# World Mineral Statistics

## 1970-74





INSTITUTE OF GEOLOGICAL SCIENCES  
Natural Environment Research Council

# WORLD MINERAL STATISTICS

## 1970-74

**Production: Exports: Imports**

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Mineral Statistics and Economics Unit*

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*The Institute was formed by the incorporation of the Geological Survey of Great Britain and the Geological Museum with Overseas Geological Surveys and is a constituent body of the Natural Environment Research Council*

*This is the first (provisional) volume of a new series of statistical tables replacing the Statistical Summary of the Mineral Industry, last published in 1973*

*All communications regarding this publication should be addressed to the Head, Mineral Statistics and Economics Unit, Institute of Geological Sciences, Exhibition Road, London SW7 2DE*

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*Institute of Geological Sciences, London*

## PREFACE

For over 50 years the Mineral Resources Division has compiled – and made available for the information of government, industry and the 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 a volume containing particulars for the years 1913–18 and concluded with the edition issued in 1973 for the period 1966–71.

During the last four years the small staff of specialists in the Mineral Statistics and Economics Unit, in addition to producing a regular annual compilation, *United Kingdom Mineral Statistics*, has been gradually assembling information for a new series of publications called *World Mineral Statistics*: I am now pleased to introduce the first of the series: this present volume. Its coverage is broadly similar to, and indeed deliberately overlaps, that of the previous series in order to maintain the comparability and continuity of information. On the other hand, its format has been changed and harmonised with the numerous other works published by the Institute; its contents are completely metricated; and the names and order of countries presented are in keeping with the modern world, distinguishing, for example, the United Kingdom as a member of the European Economic Community. Information is given on most minerals of economic importance and the range of materials covered will be further extended in the next edition planned to follow soon after the first.

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  
Exhibition Road  
London SW7 2DE  
October 1977

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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 new 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 1974, 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 metals 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* 1974 import data refer to 'General Imports' but for the years 1970-73 the data given are 'Imports for Consumption'.

*Mexico* Foreign imports into the Mexican Free Trade area (Las Zonas y Perimetros 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, 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  
Kilogrammes  $\times$  2.2046 = pounds  
Kilogrammes  $\times$  32.1507 = troy ounces  
Cubic metres  $\times$  35.31467 = cubic feet  
1 tonne of crude petroleum equals on average 7 barrels crude petroleum

### *Symbols*

... Figures not available  
0 Quantity less than half unit shown  
— Nil  
\* Estimated

## Production of Bauxite

thousand tonnes

Country	1970	1971	1972	1973	1974
France	3 051	3 184	3 281	2 970	2 904
Germany, Federal Republic of	3	3	2	2	1
Italy	206	191	84	50	32
Greece	2 292	2 889	2 442	2 748	2 783
Hungary	2 022	2 090	2 358	2 600	2 751
Romania	* 776	* 899	* 893	* 900	* 817
Soviet Union (a)	* 4 300	* 4 100	* 4 200	* 4 300	* 4 300
Spain	5	5	6	6	8
Turkey	51	153	259	362	460
Yugoslavia	2 099	1 959	2 197	2 167	2 370
Ghana	342	323	335	316	324
Guinea	* 2 600	* 2 010	* 2 049	* 3 700	* 6 100
Mozambique	7	7	5	6	6
Sierra Leone	449	590	693	693	672
Dominican Republic (b)	1 086	1 032	1 087	1 086	1 410
Haiti (b)	646	752	770	790	793
Jamaica (b)	12 010	12 194	12 341	13 601	15 328
USA (b)	2 115	2 020	1 841	1 909	1 998
Brazil	510	566	765	849	* 1 000
Guyana (b)	3 211	2 332	3 727	3 622	3 048
Surinam	6 011	6 717	6 777	6 719	6 853
China (c)	* 500	* 500	* 550	* 600	* 600
India	1 370	1 517	1 684	1 292	1 113
Indonesia	1 223	1 238	1 296	1 229	1 290
Malaysia	1 139	978	1 076	1 143	948
Australia	9 256	12 733	14 437	17 596	19 994
World total (d)	58 400	62 700	67 800	72 800	79 800

(a) Excludes nepheline concentrates and alunite

(b) Dried bauxite equivalent

(c) Excludes non-metallurgical bauxite

(d) Excluding small amounts of bauxite produced by Pakistan

## Production of Primary Aluminium

thousand tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	40	119	171	252	294
France	381	375	394	359	393
Germany, Federal Republic of	309	428	445	533	689
Italy	146	136	149	184	148
Netherlands	75	116	166	190	252
Austria	90	91	84	89	92
Czechoslovakia	31	37	43	48	50
German Democratic Republic	* 60	* 60	* 55	* 60	* 60
Greece	87	116	131	143	148
Hungary	66	67	68	68	69
Iceland	39	42	45	71	68
Norway	530	530	557	623	663
Poland	99	100	102	102	102
Romania	101	111	122	143	187
Soviet Union	* 1 100	* 1 180	* 1 250	* 1 360	* 1 430
Spain	120	126	147	168	190
Sweden	64	75	77	82	82
Switzerland	91	94	84	85	87
Yugoslavia	48	47	73	91	147
Cameroon	52	51	46	44	47
Ghana	113	111	133	152	157
Canada	963	1 017	918	942	1 021
Mexico	34	40	39	39	41
USA	3 607	3 561	3 740	4 109	4 448
Brazil	57	81	98	127	114
Surinam	55	55	43	55	55
Venezuela	23	22	23	28	46
China	* 127	* 145	* 145	* 150	* 160
India	161	178	179	154	129
Japan (a)	728	887	1 009	1 097	1 118
Korea, Republic of	15	17	15	18	18
Sri Lanka	27	27	32	35	31
Australia	206	224	206	207	219
World total	9 600	10 300	10 800	11 800	12 700

(a) Including high-purity aluminium



## Exports of Bauxite, Alumina &amp; Aluminium

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Alumina	1 593	13 177	13 691	17 986	99 248
Alumina hydrate	1 810	5 603	5 737	15 342	11 324
Unwrought (a)	25 958	41 623	85 351	85 328	87 430
Belgium-Luxembourg					
Bauxite	73	27	362	247	175
Alumina	18	195	153	92	306
Unwrought	9 854	4 783	5 804	10 148	7 313
Unwrought alloys	292	434	2 642	10 072	12 984
Denmark					
Unwrought	72	31	1	33	237
Unwrought alloys	2 247	2 961	5 618	4 372	5 048
France					
Bauxite	159 189	109 318	85 848	55 242	114 366
Alumina	200 371	253 284	291 241	334 983	303 628
Alumina hydrate	63 439	94 108	92 756	73 358	87 311
Unwrought	94 595	82 821	94 166	111 473	84 511
Unwrought alloys	52 417	52 591	71 276	72 166	95 306
Germany, Federal Republic of					
Bauxite	6 483	3 020	5 960	6 360	12 548
Alumina	95 903	151 923	207 038	109 935	245 379
Alumina hydrate	75 808	81 456	95 844	105 864	123 398
Unwrought	12 872	23 908	24 855	35 737	70 901
Unwrought alloys	35 916	39 350	60 335	66 843	103 408
Italy					
Bauxite	2 888	2 607	3 449	3 799	5 256
Alumina	9 032	4 832	522	121 676	252 706
Alumina hydrate	1 892	741	45	445	241
Unwrought	3 054	5 620	5 209	1 920	11 365
Unwrought alloys	1 852	7 305	7 270	12 202	11 962
Netherlands					
Bauxite	4 234	(b) 1 433	(b) 7 826	(b) 4 610	(b) 4 521
Unwrought (a)	64 053	88 749	153 807	193 664	293 982
Austria					
Unwrought (a)	18 843	27 141	27 086	19 509	21 855
Finland					
Unwrought	24	152	9	112	218
Greece					
Bauxite	1 234 800	951 634	1 010 512	1 369 364	1 456 963
Alumina	169 757	217 658	217 111	162 404	190 208
Unwrought	60 012	87 003	100 978	104 834	101 769
Hungary					
Bauxite	659 865	699 820	662 000	659 000	559 000
Alumina	415 283	428 354	485 000	598 000	626 000
Unwrought	52 579	62 514	74 695	86 256	54 727
Norway					
Unwrought	378 351	353 188	423 210	426 977	404 258
Unwrought alloys	51 399	62 140	113 630	149 154	150 255
Soviet Union					
Unwrought	368 900	405 600	455 400	518 300	528 713
Spain					
Unwrought	10	3 841	883	936	641
Unwrought alloys	2 452	2 841	422	227	1 844
Sweden					
Unwrought (a)	16 206	23 663	14 946	20 322	11 765
Switzerland					
Alumina	141	142	153	147	219
Unwrought & scrap (a)	14 442	16 975	21 242	24 073	23 135
Turkey					
Bauxite	...	66 600	150 000	144 620	...
Yugoslavia					
Bauxite	2 031 749	1 859 450	1 812 537	1 706 626	1 611 243
Alumina	28 198	23 761	23 328	86 623	84 428
Unwrought	13 790	12 373	29 403	40 955	696

## Exports of Bauxite, Alumina &amp; Aluminium

	tonnes				
Country	1970	1971	1972	1973	1974
Cameroon					
Unwrought	39 100	32 488	29 836	27 878	...
Ghana					
Bauxite	214 470	353 732	316 231	312 228	398 317
Unwrought (a)	99 062	88 782	131 799	126 178	84 117
Guinea (g)					
Bauxite	* 300 000	* 400 000	* 400 000	* 500 000	* 3 600 000
Alumina	* 600 000	* 600 000	* 600 000	* 600 000	* 600 000
Mozambique					
Bauxite	7 138	7 766	5 516	5 620	1 695
Sierra Leone					
Bauxite	377 940	560 942	693 904	662 929	740 773
Canada					
Alumina	21 570	19 288	22 205	29 386	30 042
Unwrought	761 670	807 540	699 321	700 153	684 192
Dominican Republic					
Bauxite	1 293 089	1 311 286	1 226 783	(f) 1 118 356	(f) 1 302 829
Haiti					
Bauxite	646 440	752 413	770 438	790 457	793 048
Jamaica					
Bauxite (e)	7 806 501	7 718 912	7 162 067	7 390 300	7 999 842
Alumina	1 751 980	1 779 077	2 135 566	2 312 161	2 805 280
USA					
Bauxite	3 332	34 499	29 592	12 400	15 990
Alumina	960 478	928 727	758 884	670 256	644 139
Alumina hydrate	37 269	31 022	37 946	23 822	25 519
Unwrought (a)	370 548	101 873	98 265	208 269	188 543
Brazil					
Bauxite	3 414	4 005	4 430	4 630	...
Guyana					
Bauxite, dried	2 339 858	2 085 605	1 665 040	1 673 168	1 359 857
Bauxite, calcined	712 817	699 693	661 587	674 599	779 718
Alumina	328 760	306 775	255 921	237 602	306 810
Surinam					
Bauxite	3 419 530	3 596 769	3 476 402	3 666 000	3 765 534
Alumina	893 355	1 166 718	1 279 189	1 209 000	1 078 406
India					
Bauxite	55 385	53 736	14 941	28 494	18 264
Unwrought (c)	1 412	91	4	14	20
Indonesia					
Bauxite	928 430	1 047 852	* 1 100 000	* 1 200 000	* 1 300 000
Japan					
Bauxite	110	319	7 905	316	146
Alumina	101 241	223 897	177 428	144 902	40 367
Alumina hydrate	24 677	26 435	42 161	38 274	39 129
Unwrought	3 047	22 008	6 539	1 669	24 161
Unwrought alloys	2 511	784	2 146	1 206	10 699

**Exports of Bauxite, Alumina & Aluminium**

tonnes

Country	1970	1971	1972	1973	1974
Malaysia					
Bauxite	1 083 217	983 707	987 374	1 018 954	814 954
Taiwan					
Unwrought (a)	1 020	30	1 319	150	4 512
Australia (d)					
Bauxite	* 3 400 000	* 4 600 000	* 5 200 000	* 6 200 000	* 7 700 000
Alumina	1 600 000	1 806 873	2 625 665	2 951 698	3 810 521
Unwrought (a)	82 330	84 961	95 231	81 461	46 488

## 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 March 31 following that stated

(d) Years ended June 30 of that stated

(e) Estimated dry equivalent

(f) Imports into USA

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

## Imports of Bauxite, Alumina &amp; Aluminium

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Bauxite, uncalcined	391 883	411 113	297 348	274 570	294 268
Bauxite, calcined	136 338	182 975	137 604	121 725	182 417
Alumina	50 247	269 964	313 646	544 657	599 949
Alumina hydrate	4 023	2 162	850	1 311	2 081
Unwrought	251 968	164 070	155 919	164 987	143 411
Unwrought alloys	126 984	105 756	110 944	122 135	137 304
Belgium-Luxembourg					
Bauxite	12 865	14 659	17 019	14 961	23 814
Alumina	3 592	4 993	4 212	5 672	5 012
Alumina hydrate	9 310	11 345	10 275	10 584	12 430
Unwrought	135 579	149 624	153 159	163 855	166 753
Unwrought alloys	49 431	44 799	56 073	70 885	86 252
Denmark					
Bauxite	1 066	27 359	31 338	1 777	1 902
Unwrought	9 318	8 661	988	2 814	3 080
Unwrought alloys	1 288	768	2 599	3 224	3 658
France					
Bauxite	488 889	504 628	517 905	587 765	1 012 251
Alumina	6 110	7 620	7 311	8 882	10 207
Alumina hydrate	991	2 347	2 445	11 701	3 955
Unwrought	154 081	129 539	135 013	157 138	183 100
Unwrought alloys	29 257	36 013	59 113	72 605	79 783
Germany, Federal Republic of					
Bauxite	2 627 310	2 831 011	2 330 177	2 748 634	4 340 342
Alumina	119 523	349 202	310 612	374 161	499 149
Alumina hydrate	1 438	1 236	1 475	2 596	1 570
Unwrought	318 023	209 129	224 826	263 918	215 254
Unwrought alloys	115 795	106 368	122 040	129 068	123 698
Irish Republic					
Unwrought (a)	5 082	3 117	3 479	6 008	6 325
Italy					
Bauxite	723 785	548 026	676 158	815 876	1 949 402
Alumina	62 921	57 808	127 436	108 794	44 160
Alumina hydrate	8 846	11 934	57 520	80 063	23 305
Unwrought	131 167	105 330	117 625	114 295	160 900
Unwrought alloys	36 539	27 859	55 652	71 263	95 165
Netherlands					
Bauxite	83 825	(d) 71 077	(d) 145 873	(d) 128 451	(d) 141 285
Alumina	163 470	(d) 260 814	(d) 316 468	(d) 403 038	(d) 494 510
Alumina hydrate	24 748	(d) 30 080	(d) 26 071	(d) 28 445	(d) 31 391
Unwrought (a)	45 356	46 716	65 174	96 831	158 758
Austria					
Bauxite	29 565	24 464	30 687	28 096	32 298
Alumina	185 670	185 880	174 270	189 961	188 519
Alumina hydrate	6 394	6 649	7 359	7 951	9 133
Unwrought	9 859	9 867	13 791	16 970	17 775
Finland					
Alumina	73	112	142	94	118
Alumina hydrate	15 331	25 991	18 377	28 245	21 565
Unwrought (a)	18 713	15 225	16 105	19 934	25 618
German Democratic Republic					
Bauxite	255 681	285 700	267 500	245 700	247 500
Alumina	63 203	63 392	96 897	83 467	90 450
Greece					
Alumina	133	484	130	—	—
Alumina hydrate	1 410	1 040	459	433	...
Unwrought	454	533	2 943	1 684	1 767
Hungary					
Unwrought	82 004	120 313	125 830	140 956	139 399
Norway					
Bauxite	3 999	5 767	...	3 151	6 576
Alumina	995 445	1 128 267	1 009 499	1 226 042	1 258 210
Unwrought	12 207	20 208	27 254	20 525	21 725
Unwrought alloys	11 507	13 456	8 332	11 902	6 186

## Imports of Bauxite, Alumina &amp; Aluminium

	tonnes				
Country	1970	1971	1972	1973	1974
Poland					
Bauxite	118 081	122 168	116 370	125 228	118 588
Alumina	213 012	224 983	230 934	243 193	262 566
Portugal					
Unwrought (a)	1 729	1 578	2 442	4 295	6 620
Romania					
Bauxite	157 300	206 800	226 300	385 300	...
Alumina	32 900	40 000	62 800	112 100	...
Soviet Union					
Bauxite	1 500 000	1 400 000	1 700 000	1 500 000	1 623 000
Alumina	517 600	755 200	698 300	902 500	886 446
Spain					
Bauxite	93 212	110 421	100 937	108 839	132 374
Alumina	245 503	279 010	304 298	326 716	399 777
Unwrought (a)	13 877	29 079	30 924	25 540	27 428
Sweden					
Bauxite	59 799	34 083	45 823	48 772	97 121
Alumina	184 370	197 097	202 294	188 020	188 165
Unwrought	28 203	21 557	21 874	22 570	34 179
Unwrought alloys	12 194	11 971	11 827	19 747	20 180
Switzerland					
Bauxite	2 461	3 405	11 046	9 924	15 990
Alumina	176 185	181 148	162 347	146 355	198 438
Unwrought & scrap (a)	22 119	6 181	24 891	29 371	41 600
Turkey					
Alumina	978	192	932	1 861	...
Unwrought (a)	13 644	27 684	31 609	40 363	50 266
Yugoslavia					
Bauxite	258 100	237 682	165 829	169 829	219 648
Alumina	8 473	9 288	46 810	46 220	100 584
Unwrought	56 932	36 188	42 492	55 775	43 970
Cameroon					
Alumina	99 841	91 854	85 075	76 730	91 150
Egypt					
Unwrought & scrap	4 662	11 294	8 463	4 591	5 763
Ghana					
Alumina	217 083	184 522	311 038	220 493	327 137
Unwrought (a)	797	514	141	105	233
Morocco					
Bauxite	489	2 070	1 200	...	930
Alumina	728	773	726	929	1 533
Nigeria					
Unwrought (a)	248	250	110	350	1 258
South Africa					
Bauxite	14 047	24 251	13 275	20 592	7 188
Alumina	15 166	77 677	103 495	119 846	169 488
Unwrought	49 119	22 500	1 136	878	842
Tanzania					
Unwrought (a)	2 519	4 015	4 002	2 322	...
Canada					
Bauxite	2 525 445	2 463 114	2 623 121	2 655 762	2 715 604
Alumina	942 084	923 643	669 083	848 811	881 395
Unwrought	12 019	15 867	34 388	44 714	47 758
Mexico					
Bauxite, calcined	25 514	28 591	25 986	17 435	30 140
Alumina	74 067	82 253	80 706	82 421	92 150
Alumina hydrate	7 296	7 743	8 194	9 501	10 103
Unwrought	37	112	166	13 895	25 332
USA					
Bauxite, crude dried	(b) 12 850 000	(b) 12 523 000	(b) 11 611 400	(b) 11 420 400	(c) 14 049 811
Bauxite, calcined	260 016	296 750	250 817	298 538	309 125
Alumina	2 339 806	2 186 489	2 585 472	3 062 192	3 290 381
Unwrought	152 123	269 663	331 346	209 149	196 817
Unwrought alloys	165 444	233 106	266 563	251 723	264 617

## Imports of Bauxite, Alumina &amp; Aluminium

tonnes

Country	1970	1971	1972	1973	1974
Argentina					
Bauxite	41 652	11 820	40 869	17 252	38 673
Alumina	1 275	863	933	1 290	4 368
Alumina hydrate	6 538	5 666	7 692	8 613	8 936
Unwrought	50 721	59 337	79 632	73 456	86 059
Brazil					
Alumina	472	416	702	494	795
Alumina hydrate	641	961	1 003	1 214	1 135
Unwrought	28 437	24 451	41 456	41 319	81 388
Chile					
Unwrought	4 495	3 580	3 915	...	...
Colombia					
Bauxite	2 172	4 403	1 990	3 658	...
Alumina	505	754	627	832	...
Unwrought (a)	8 926	10 283	9 138	12 070	...
Uruguay					
Unwrought	1 350	1 396	1 583	1 758	...
Venezuela					
Alumina	45 285	31 015	28 664	57 140	82 435
Unwrought (a)	10	38	60	1 874	176
Burma					
Unwrought (a)	634	613	108	2	335
Hong Kong					
Bauxite	19	247	65	...	...
Unwrought	15 248	12 496	15 617	14 975	19 590
India (e)					
Alumina	3 621	624	539	593	466
Unwrought	5 600	19 090	438	129	166
Unwrought alloys	59	28	24	7	43
Iran					
Unwrought	3 480	8 129	10 131	340	711
Israel					
Unwrought	12 307	14 424	11 974	2 980	3 840
Japan					
Bauxite	3 660 126	4 669 064	4 996 820	5 615 301	5 310 875
Alumina	351 145	506 219	548 204	9 494	14 057
Unwrought	233 369	204 416	271 335	373 101	384 816
Unwrought alloys	24 936	21 192	53 386	102 553	94 088
Korea, Republic of					
Alumina and hydrate	30 804	43 476	28 575	39 689	43 924
Unwrought	...	1 454	1 020	4 383	17 546
Lebanon					
Unwrought & scrap	7 704	7 347	9 941	11 311	...
Malaysia					
Unwrought (a)	157	2 538	5 448	5 712	9 409
Philippines					
Unwrought	7 065	7 648	9 109	10 858	12 611
Singapore					
Bauxite	716	...	1 153	301	3 528
Alumina	7 965	7 429	7 451	9 255	4 207
Syria					
Unwrought	243	221	498	845	1 024
Taiwan					
Bauxite	126 366	132 228	105 646	9 411	105 609
Alumina	...	...	15 318	14 797	25 690
Unwrought	(a) 9 515	(a) 4 770	6 287	14 672	18 338
Thailand					
Bauxite	2 992	3 374	...	3 065	500
Alumina	2 232	2 153	3 283	6 249	4 795
Alumina hydrate	2 980	3 931	5 765	4 268	6 777
Unwrought	8 423	9 358	12 894	21 850	22 793

## Imports of Bauxite, Alumina &amp; Aluminium

	tonnes				
Country	1970	1971	1972	1973	1974
Australia (f)					
Alumina	3 253	18 277	19 225	3 846	4 688
Unwrought (a)	408	321	800	712	9 079
New Zealand (f)					
Unwrought	13 258	16 293	9 806	2 776	1 235

## 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) Imports for consumption

(c) General imports

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

(e) Years ended 31 March following that stated

(f) Years ended 30 June of that stated

**Mine Production of Antimony**

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Italy	1 299	1 175	1 201	1 358	1 120
Austria	610	467	535	577	540
Czechoslovakia	* 600	* 600	* 600	* 700	* 750
Portugal	—	—	14	29	30
Soviet Union	* 7 500	* 7 500	* 7 500	* 7 500	* 7 300
Spain	79	111	138	114	178
Turkey	2 770	2 834	2 705	2 700	5 872
Yugoslavia	1 999	2 002	1 975	1 670	1 740
Algeria	* 60	* 60	* 60	* 60	* 60
Morocco	1 822	1 972	832	1 110	1 850
South Africa	17 644	14 638	14 706	15 780	15 380
Canada (a)	330	147	* 800	* 1 900	* 1 500
Guatemala	261	885	900	962	800
Honduras	115	13	30	96	80
Mexico (e)	4 468	3 361	2 976	2 388	2 407
USA	1 568	1 681	912	1 158	1 197
Bolivia (c)	11 400	11 672	11 209	14 715	13 058
Peru (e)	1 167	687	749	770	725
Burma	65	128	131	143	166
China	* 12 000	* 12 000	* 12 000	* 13 000	* 14 000
India	526	605	894	517	393
Japan	6	3	5	5	—
Korea, Republic of	—	—	3	10	...
Pakistan	...	* 30	* 45	* 15	* 630
Sarawak	180	288	472	393	456
Thailand	2 911	2 833	5 865	4 217	5 182
Australia (b)	930	1 361	1 366	1 546	1 406
World total (d)	70 000	67 000	69 000	73 000	76 000

(a) Includes Sb content of antimonial lead alloys

(b) Includes Sb content of lead and zinc concentrates

(c) Content of ore exported plus exports of metal

(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	1970	1971	1972	1973	1974
United Kingdom					
Regulus & refined	979	310	674	671	2 747
France					
Crude & regulus (a)	97	15	112	217	219
Germany, Federal Republic of					
Ore	—	—	6	29	55
Regulus (a)	146	34	50	55	196
Oxide	248	330	267	201	301
Italy					
Regulus (a)	826	607	267	399	716
Netherlands					
Regulus (a)	95	25	13	61	38
Oxide	124	90	42	51	23
Austria					
Ore	140	234	357	450	297
Sulphide (b)	225	319	290	...	...
Soviet Union					
Regulus	900	416	105	1 054	...
Sweden					
Regulus	31	8	11	5	22
Turkey					
Ore	1 823	1 640	3 278	5 068	3 245
Sulphide	510	346	2 402	1 700	...
Yugoslavia					
Regulus	1 259	1 500	1 315	1 114	1 775
Morocco					
Ore	3 383	4 070	3 302	2 796	4 084
South Africa					
Ore	26 780	12 017	34 653	29 794	22 530
Guatemala					
Ore & concentrate	...	1 129	1 096	2 227	1 460
Mexico					
Ore & concentrate	15 670	8 770	2 440	6 226	6 587
Regulus & refined	167	258	258	100	98
USA					
Metal & alloys (a)	493	928	110	467	790
Oxide	394	129	282	352	538
Bolivia					
Ore (c)(d)	11 576	11 672	13 149	14 719	13 058
Peru					
Ore & metal (c)	871	695	1 034	584	...
Burma					
Ore and concentrate	...	...	404	582	474
Thailand					
Ore	3 298	4 702	5 082	6 360	6 792

(a) Including scrap

(b) Believed to be crude liquated sulphide

(c) Sb content

(d) May include metal

## Imports of Antimony

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	* 12 000	* 5 400	* 16 600	...	...
Regulus & refined	33	60	98	128	260
Oxide	14	6	3	42	196
Sulphide	—	1	59	38	32
Belgium-Luxembourg					
Ore	6 520	8 245	8 459	12 024	8 969
Regulus (a)	4	36	50	352	72
Oxide	125	49	57	138	196
Denmark					
Regulus	12	75	69	23	29
France					
Ore	4 430	5 075	4 643	6 286	8 184
Crude & regulus (a)	362	801	1 119	2 269	2 010
Germany, Federal Republic of					
Ore	2 048	3 269	3 326	3 012	3 369
Regulus (a)	1 826	1 261	1 363	1 377	924
Oxide	1 565	1 223	2 316	3 479	2 819
Italy					
Ore	971	855	1 464	2 705	2 326
Regulus (a)	145	140	203	172	112
Oxide	393	517	365	545	504
Netherlands					
Regulus (a)	159	55	99	110	64
Oxide	633	325	419	739	678
Austria					
Regulus	45	103	144	119	47
Greece					
Regulus	10	15	29	14	17
Norway					
Regulus	21	19	44	88	35
Romania					
Metal	700	1 200	900	1 100	...
Spain					
Ore	432	352	550	306	1 709
Regulus	245	204	295	367	317
Oxide	38	116	119	139	103
Sweden					
Regulus	194	189	65	44	22
Switzerland					
Regulus	154	159	212	95	62
Yugoslavia					
Ore & concentrate	1 939	87	1 383	1 677	2 863
Morocco					
Regulus	5	5	13	36	7
Canada					
Oxide	383	268	467	675	796
Mexico					
Oxide	4	10	10	15	...
USA					
Ore (b)	31 237	20 079	30 499	30 772	28 500
Crude	16	29	71	46	...
Regulus (c)	1 360	1 731	2 214	766	2 544
Oxide	3 861	2 532	4 565	4 220	5 727

## Imports of Antimony

	tonnes				
Country	1970	1971	1972	1973	1974
Argentina					
Ore	67	388	550	319	322
Brazil					
Ore	96	374	600	452	1 738
Regulus	48	284	135	126	206
Oxide	170	131	200	354	274
Sulphide	57	11	9	24	42
Chile					
Regulus	28	56	21	...	...
Colombia					
Regulus	7	7	8	21	...
Uruguay					
Regulus	7	11	4	3	...
Venezuela					
Metal (d)	...	46	32	11	16
India					
Ore	699	1 640	1 334	1 240	879
Regulus	2	306	91	26	1
Oxide (e)	52	99	59	47	24
Japan					
Ore & concentrate	17 344	10 197	13 312	13 959	10 857
Regulus	20	—	262	1 248	589
Sulphide	33	3	28	35	3
Australia (f)					
Regulus	66	27	30	80	125

(a) Including scrap

(b) Gross weight, Sb content is approximately 50%

(c) Including waste and scrap

(d) Including alloys

(e) Years ended 31 March following that stated

(f) Years ended June 30 of that stated

## Arsenic

**Production of White Arsenic**

tonnes

Country	1970	1971	1972	1973	1974
France (b)	10 239	* 10 000	* 9 000	* 9 000	* 9 000
Germany, Federal Republic of (a)	433	71	148	393	294
Portugal	197	186	261	362	263
Soviet Union	* 7 000	* 7 100	* 7 200	* 7 250	* 7 250
Spain	248	361	...	...	...
Sweden (b)	16 300	17 500	16 200	15 200	* 13 500
Namibia (c)	(d) 4 062	(d) 3 701	(d) 2 370	8 147	6 640
Canada	64	45	27	—	—
Mexico (e)	9 137	11 506	5 916	5 084	* 9 000
Brazil	298	148	164	69	...
Peru	772	656	1 019	1 100	* 1 400
Japan	1 086	956	427	450	193

## Notes:

- The production data in this table does not include calculated trioxide equivalents for output reported as arsenic metal.
  - 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 June 30 of that stated  
(e) Trioxide content of ores

## Exports of Arsenic

	tonnes				
Country	1970	1971	1972	1973	1974
France					
White arsenic	10 443	7 205	8 887	9 543	9 311
Germany, Federal Republic of					
White arsenic	433	77	148	393	294
Italy					
White arsenic	25	—	23	—	70
Netherlands					
White arsenic	—	10	21	17	31
Portugal					
White arsenic	140	184	170	211	284
Yugoslavia					
White arsenic	222	81	—	—	—
South Africa					
White arsenic	472	1 783	2 376	5 242	* 5 000
Mexico					
White arsenic, pure	6 645	6 111	2 539	5 269	5 328
White arsenic, crude	452	960	258	82	72
Japan					
White arsenic	8	210	9 395	47	20

## Note:

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

## Arsenic

## Imports of Arsenic

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
White arsenic	7 307	3 938	2 776	6 284	5 917
Belgium-Luxembourg					
White arsenic	1 450	565	313	249	300
Denmark					
White arsenic	56	12	15	2	34
France					
Metallic arsenic	98	131	116	116	122
Germany, Federal Republic of					
Metallic arsenic (a)	82	51	98	52	81
Italy					
White arsenic	1 408	1 311	1 895	1 047	1 347
Metallic arsenic (a)	78	96	133	54	68
Netherlands					
White arsenic	839	413	756	830	839
Austria					
White arsenic	68	41	74	55	47
Finland					
White arsenic	294	311	358	500	723
Norway					
White arsenic	82	128	118	107	80
Switzerland					
White arsenic	76	113	24	48	58
Turkey					
Arsenic compounds	27	20	119	57	...
Yugoslavia					
Metallic arsenic	7	18	15	4	17
White arsenic	59	85	17	68	55
Morocco					
White arsenic	16	16	25	13	23
South Africa					
White arsenic	20	74	73	133	117
USA					
Metallic arsenic	414	486	604	583	641
White arsenic	17 021	14 883	12 353	10 429	12 467
Argentina					
White arsenic	569	211	297	526	438
Brazil					
Metallic arsenic	20	45	26	31	44
White arsenic	437	274	732	722	851
Chile					
White arsenic	96	130	152	...	...
Colombia					
White arsenic	135	6	95	129	...
India (b)					
Metallic arsenic	190	173	273	83	95
White arsenic	111	354	546	700	730
Japan					
White arsenic	933	605	1 442	1 971	1 082
Malaysia					
White arsenic	2 293	1 460	3 160	3 817	5 305

**Imports of Arsenic**

	tonnes				
Country	1970	1971	1972	1973	1974
Philippines					
White arsenic	173	147	159	176	98
Taiwan					
Arsenic oxides & acids	242	216	376	468	313
Australia (c)					
White arsenic	1 236	1 040	962	1 129	1 315
New Zealand (c)					
White arsenic	138	131	109	...	...

**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 March 30 following that stated

(c) Years ended June 30 of that stated

## Production of Asbestos

tonnes

Country	1970	1971	1972	1973	1974
France	710	710	—	708	—
Italy	118 536	119 592	132 718	149 255	148 099
Bulgaria	3 000	2 900	1 500	3 000	* 1 500
Finland	13 625	10 360	6 388	6 337	5 593
Portugal	202	127	—	127	180
Soviet Union	* 1 066 000	* 1 152 000	* 1 220 000	* 1 280 000	* 1 360 000
Turkey	3 312	3 888	4 932	4 775	4 989
Yugoslavia	12 104	15 432	11 040	9 391	12 247
Egypt	449	70	441	329	300
Mozambique	228	1 430	544	566	...
Rhodesia	* 80 000	* 80 000	* 80 000	* 80 000	* 80 000
South Africa					
Amosite	97 380	98 464	102 278	106 477	94 543
Anthophyllite	—	—	—	425	822
Crocidolite	137 235	159 671	159 839	155 941	155 477
Chrysotile	52 801	61 161	58 512	69 807	82 430
Swaziland	33 057	35 484	28 683	36 993	37 917
Canada (a)					
Chrysotile	1 507 418	1 482 865	1 530 467	1 690 064	1 643 763
Mexico	176	311	—	15	...
USA (b)	113 683	118 734	119 443	136 110	102 088
Argentina	35	393	908	620	* 600
Brazil	14 908	19 262	32 883	44 868	* 44 868
China	* 170 000	* 160 000	* 160 000	* 210 000	* 210 000
Cyprus	28 706	27 697	29 780	31 706	31 705
India	10 056	13 581	12 539	12 460	23 272
Japan					
Chrysotile	8 130	8 830	4 788	—	5 130
Amphibole	13 144	9 096	9 639	8 255	—
Korea, Republic of	1 372	2 172	5 279	5 707	5 710
Philippines	1 213	1 700	—	—	—
Taiwan	2 842	2 327	2 687	5 308	3 596
Australia					
Chrysotile	739	756	16 844	43 529	30 863
World total	3 500 000	3 600 000	3 700 000	4 100 000	4 100 000

(a) Sales and shipments

(b) Sold or used by producers



## Exports of Unmanufactured Asbestos

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	4 740	2 394	3 710	2 826	4 698
Belgium-Luxembourg	953	202	778	433	645
Denmark	6	2	2	11	21
France	201	338	5 715	2 694	317
Germany, Federal Republic of	924	1 271	1 217	23 237	57 148
Italy	48 662	48 793	54 537	62 915	66 784
Netherlands	275	862	248	220	220
Austria	29	20	136	54	131
Finland	9 335	10 113	5 576	5 225	4 867
Soviet Union	385 300	433 000	432 700	448 900	528 000
Sweden	184	53	9	57	60
Switzerland	66	94	46	30	136
Yugoslavia	4 741	1 403	974	747	1 735
Mozambique	316	259	184	383	424
South Africa					
Amosite	95 002	102 842	90 177	101 361	91 027
Crocidolite	127 808	131 046	120 037	157 249	160 214
Chrysotile	32 992	34 128	37 178	57 737	69 646
Swaziland	33 057	35 484	28 683	39 632	32 421
Canada					
Crude	92	104	102	32	171
Fibre	747 815	707 728	711 984	842 791	801 207
Shorts	669 509	721 652	769 435	866 309	821 968
USA					
Fibre	15 220	25 480	20 032	38 819	20 538
Waste	19 466	21 877	26 953	20 964	29 475
Cyprus	24 133	22 612	27 988	28 999	37 166
Japan	169	493	758	257	180
Australia (a)	367	174	2 387	27 810	29 191

(a) Years ended 30th June of that stated

## Imports of Unmanufactured Asbestos

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	154 636	167 801	150 296	198 073	153 004
Belgium-Luxembourg	54 839	70 068	89 865	85 615	82 662
Denmark	28 633	26 747	26 106	33 905	27 689
France	151 848	128 980	148 298	158 549	177 707
Germany, Federal Republic of	175 612	167 941	206 602	332 707	339 561
Irish Republic	5 071	5 181	4 174	3 717	7 609
Italy	62 402	63 894	47 490	60 183	66 164
Netherlands	20 063	23 869	26 414	37 718	48 217
Austria	34 155	39 943	39 991	39 592	33 067
Czechoslovakia	39 017	42 011	38 220	42 032	38 826
Finland	7 744	8 049	4 722	4 911	6 172
German Democratic Republic	52 015	58 342	59 657	51 691	56 318
Greece	17 811	16 100	8 929	14 339	19 371
Hungary	15 236	20 198	19 780	21 601	31 731
Iceland	1 028	13	13	7	8
Norway	7 982	5 733	5 114	4 748	5 892
Poland	64 385	67 252	70 520	83 883	102 609
Portugal	6 509	5 780	5 515	8 701	9 653
Romania	22 900	38 400	42 700	46 600	...
Spain	77 677	65 188	82 446	108 662	125 782
Sweden	18 830	13 231	15 532	18 679	17 339
Switzerland	17 721	19 898	16 764	19 730	17 731
Turkey	7 546	10 595	11 577	9 881	...
Yugoslavia	28 552	38 678	43 282	39 038	54 296
Algeria	2 285	4 837	3 414	2 449	...
Angola	1 076	1 312	887	1 081	...
Egypt	6 609	6 819	8 287	697	8 429
Libya	540	528	1 913	2 077	1 598
Morocco	3 551	3 638	3 145	3 400	6 718
Mozambique	753	129	98	153	288
Nigeria	34 443	50 598	37 234	32 190	46 178
Senegal	799	1 016	960	1 262	...
South Africa	17 191	11 792	16 162	19 240	30 386
Tunisia	1 766	1 859	2 288	1 121	1 019
Uganda	2 468	277	1 094	645	197
Zambia	15 607	1 985	2 430	3 322	...
Canada	5 292	5 977	5 949	4 499	3 933
Costa Rica	736	673	822	1 181	1 897
El Salvador	963	1 326	1 239	1 924	1 988
Guatemala	457	674	771	1 283	2 609
Jamaica	1 910	944	756	743	...
Mexico	40 460	38 320	39 222	51 400	56 132
Nicaragua	316	325	...	1 415	1 170
Panama	144	165	165	431	340
USA					
Crude	21 833	21 585	14 244	22 494	} 695 249
Mill fibre	15 589	10 559	11 302	14 336	
Other unmanufactured	551 705	585 982	641 703	682 090	
Argentina	21 106	22 026	24 668	13 484	17 831
Brazil	23 413	23 614	19 689	21 881	38 614
Chile	8 800	14 829	7 250	...	...
Colombia	16 763	15 632	18 277	19 656	...
Ecuador	1 019	...	1 995	...	...
Uruguay	1 996	1 312	...	...	...
Venezuela	6 662	8 022	6 692	8 626	9 671

## Imports of Unmanufactured Asbestos

	tonnes				
Country	1970	1971	1972	1973	1974
Burma	1 465	277	1 143	662	150
Hong Kong	90	111	134	66	47
India	39 766	45 715	46 380	43 643	60 176
Iran (a)	11 197	10 514	12 773	15 462	26 058
Iraq	2 000	3 730	4 138	1 556	2 872
Israel	7 589	9 435	9 402	* 5 000	* 8 000
Japan	298 253	273 757	278 582	341 540	352 110
Korea, Republic of	35 292	38 028	59 533	96 229	64 847
Lebanon	6 418	3 137	6 390	8 218	...
Malaysia	14 321	13 789	12 763	15 229	19 209
Philippines	3 303	1 903	2 235	3 284	4 090
Singapore	3 150	3 533	...	3 155	10 701
Sri Lanka	4 139	2 971	1 850	...	...
Taiwan	6 589	4 961	7 175	13 096	16 348
Thailand	21 272	33 424	26 175	36 310	39 874
Australia (b)	57 250	71 777	61 682	61 373	57 051
New Zealand (b)	8 662	8 335	6 607	8 673	7 004

(a) Years ending March 20th following that stated

(b) Years ending June 30th of that stated

## Production of Barium Minerals

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom (a)	* 22 000	* 24 000	* 15 000	* 59 000	* 50 000
France	101 063	91 245	116 393	97 348	105 000
Germany, Federal Republic of	416 016	411 082	373 140	330 034	306 395
Irish Republic	* 160 000	* 196 000	237 000	270 370	323 000
Italy	228 807	201 526	175 868	166 197	179 789
Austria	315	789	202	428	361
Greece	103 600	138 900	127 683	124 485	165 000
Poland	* 50 000	* 55 000	* 50 000	* 50 000	* 54 000
Portugal	1 080	1 150	825	1 458	1 489
Soviet Union	* 285 000	* 299 000	* 310 000	* 320 000	* 326 000
Spain	94 048	97 232	89 546	123 719	103 962
Turkey	29 042	29 000	65 900	64 500	65 300
Yugoslavia	79 729	64 690	70 528	62 053	51 000
Algeria	51 643	36 500	35 200	65 000	55 000
Egypt	215	291	1 704	1 890	274
Kenya	447	743	628	903	* 1 000
Morocco	84 750	84 474	93 240	102 691	93 381
South Africa	2 902	2 962	2 517	2 014	1 547
Swaziland	338	144	150	116	296
Canada	133 584	109 556	70 090	92 152	78 290
Mexico	319 089	279 742	261 403	255 257	* 270 000
USA (b)	774 736	748 428	821 909	1 001 532	1 003 346
Argentina	26 589	21 260	23 265	28 765	* 30 000
Brazil	33 503	39 692	87 614	53 563	* 53 000
Chile	1 500	1 282	5 902	4 696	* 5 000
Colombia	6 821	5 790	4 098	1 922	* 2 000
Peru	236 321	102 516	* 205 000	* 215 000	* 227 000
Burma	* 13 460	* 22 960	25 970	15 442	* 15 000
China	* 149 000	* 140 000	* 155 000	* 165 000	* 181 000
India	74 843	58 695	48 348	118 294	143 541
Iran (c)	60 219	* 60 000	80 000	80 000	115 000
Japan	65 929	57 240	65 681	63 950	38 000
Korea, Dem. P.R. of	* 120 000	* 120 000	* 120 000	* 120 000	* 120 000
Pakistan	6 000	* 2 500	1 477	1 666	4 785
Thailand	16 490	63 539	97 091	111 930	200 970
Australia	44 774	53 811	26 288	10 028	7 466
Word total (d)	3 800 000	3 600 000	3 900 000	4 200 000	4 400 000

(a) Data include production of certain miscellaneous minerals

(b) Sold or used by producers

(c) Years ended March 20 of year following that stated

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

## Exports of Barium Minerals

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Barytes & witherite	1 442	1 738	1 491	2 135	4 854
Belgium-Luxembourg					
Barytes	170	251	61	6 887	416
France					
Barytes & witherite	19 054	21 314	26 421	16 649	25 217
Germany, Federal Republic of					
Barytes & witherite	111 687	122 451	103 734	75 879	54 317
Irish Republic					
Barytes, unground	222 143	192 281	241 054	230 000	320 000
Italy					
Barytes & witherite	53 723	35 046	6 539	6 672	17 431
Netherlands					
Barytes & witherite	262	(b) 3 434	(b) 2 608	(b) 34 039	(b) 73 644
Greece					
Barytes	46 828	120 568	79 352	69 043	101 811
Romania					
Barytes	73 600	49 500	25 000	27 800	...
Spain					
Barytes	48 458	60 457	77 302	82 104	67 484
Turkey					
Barytes	26 784	26 946	38 243	110 530	124 800
Yugoslavia					
Barytes	42 754	46 107	51 816	38 368	40 830
Morocco					
Barytes	70 792	30 863	83 934	94 160	81 687
Canada					
Barytes	90 305	67 022	18 314	45 370	31 258
Mexico					
Barytes	117 349	93 421	132 263	132 565	148 351
USA					
Barytes & witherite	56 734	21 569	47 517	61 767	55 561
Brazil					
Barytes	18 342	25 495	21 916	47 659	...
India					
Barytes, unground	20 484	36 996	36 229	34 143	144 578
Iran (c)					
Witherite	8 452	13 604	846	1 444	...
Japan					
Barytes & witherite	...	210	390	100	...
Pakistan (a)					
Barytes	4 547	356	—	1 016	—
Thailand					
Barytes	2 700	3 450	6 700	11 757	67 337
Australia					
Barytes, ground	30 182	16 262	13 218	5 451	1 071

(a) Years ended June 30 of that stated

(b) Excludes exports to Belgium-Luxembourg

(c) Years ended March 20 following that stated

## Barium

## Imports of Barium Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Barytes & witherite	65 664	61 356	58 780	89 297	54 029
Belgium-Luxembourg					
Barytes & witherite	6 464	6 559	8 375	14 547	7 210
Denmark					
Barytes & witherite	813	1 348	744	3 092	5 083
France					
Barytes (a)	87 414	80 287	64 623	54 430	77 584
Germany, Federal Republic of					
Barytes & witherite	97 399	99 960	90 330	128 686	165 336
Italy					
Barytes (a)	24 772	19 751	53 296	36 041	24 840
Netherlands					
Barytes & witherite	26 584	(c) 41 292	(c) 65 386	(c) 93 109	(c) 126 723
Austria					
Barytes & witherite	8 214	6 628	4 914	4 160	3 082
Finland					
Barytes & witherite	526	814	1 332	1 783	2 688
Norway					
Barytes & witherite	20 795	21 830	27 673	33 525	60 387
Poland					
Barytes	25 376	14 045	26 224	26 522	19 271
Portugal					
Barytes & witherite	241	362	290	840	1 702
Romania					
Barytes	6 092	4 345	5 640	...	...
Soviet Union					
Barytes	151 800	190 100	231 900	261 900	239 000
Spain					
Barytes	898	1 095	1 031	1 011	609
Sweden					
Barytes & witherite	2 099	2 284	2 185	3 568	4 451
Switzerland					
Barytes & witherite	2 606	2 403	3 119	4 405	3 306
Gabon					
Barytes & witherite	1 830	4 825	5 039	...	...
Senegal					
Barytes	925	516	351	32	...
South Africa					
Barytes	1 758	2 454	1 732	3 063	4 250
Tunisia					
Barytes	2 845	2 201	2 492	2 976	5 702
Canada					
Barytes	6 827	10 280	19 779	28 649	11 673
Trinidad & Tobago					
Barytes	7 010	13 669	31 875	22 031	15 018
USA					
Barytes (a)	641 638	439 464	567 289	661 883	698 117
Brazil					
Barytes	30	63	53	123	129
Venezuela					
Barytes	20 656	8 929	29 463	54 004	53 754
Indonesia					
Barytes & witherite	24 609	7 368	...	...	...
Iraq					
Barytes	154	214	(a) 687	(a) 10 427	8 729
Israel					
Barytes & witherite	3 394	2 528	2	...	...

## Imports of Barium Minerals

tonnes

Country	1970	1971	1972	1973	1974
Japan					
Barytes	28 946	8 594	19 654	41 850	50 037
Sabah					
Barytes	1 444	2 845	4 960	307	—
Philippines					
Barytes & witherite	140	4 393	4 069	2 361	1 617
Syria					
Barytes & witherite	2 080	524	17	3 462	2 180
Australia (b)					
Barytes	2 158	914	1 625	1 198	9 514
New Zealand					
Barytes & witherite	5 902	815	888	...	...

(a) Includes minor proportion of witherite

(b) Years ended June 30 of that stated

(c) Excludes imports to Belgium-Luxembourg

## Production of Cadmium

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	318	262	240	314	280
Belgium	1 092	948	432	1 128	1 043
France	508	579	572	606	643
Germany, Federal Republic of	1 035	981	914	1 221	1 338
Italy	425	356	416	397	478
Netherlands	111	123	122	31	120
Austria	24	25	26	29	31
Bulgaria	* 200	* 200	* 200	* 200	* 200
Finland	89	120	175	179	156
German Democratic Republic	* 15	* 15	* 15	* 15	* 15
Norway	98	99	89	88	90
Poland	420	400	350	* 350	* 350
Romania	* 90	* 90	* 90	* 90	* 90
Soviet Union	* 2 300	* 2 400	* 2 600	* 2 800	* 2 900
Spain	111	102	111	136	178
Yugoslavia	* 150	* 140	133	136	140
Namibia	205	157	142	104	114
Zaire	317	262	296	278	272
Zambia	12	10	16	16	13
Canada (a)	1 954	1 843	1 936	1 904	1 241
Mexico (b)	1 967	1 662	1 757	1 477	* 2 000
USA (c)	4 293	3 597	3 760	3 403	3 024
Bolivia	60	86	138	56	108
Peru (d)	482	449	517	562	...
China	* 80	* 90	* 100	* 100	* 110
India	34	31	35	33	59
Japan	2 540	2 675	3 029	3 170	3 026
Korea, Dem. P.R. of	* 90	* 100	* 100	* 100	* 100
Australia	500	559	719	678	759
New Zealand	10	14	14	...	...
World total	19 000	18 000	19 000	20 000	19 000

(a) Metal produced plus cadmium content of concentrates exported

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

(c) Includes cadmium sponge and secondary metal

(d) Including recoverable Cd content of concentrates



## Exports of Cadmium

	tonnes				
Country	1970	1971	1972	1973	1974
Belgium-Luxembourg (a)	1 020	1 099	1 142	1 033	871
France					
Cadmium (a)	105	132	135	132	150
Cadmium sulphide	26	28	52	32	5
Germany, Federal Republic of					
Cadmium (a)	249	287	180	245	237
Cadmium oxide	9	22	...	232	361
Italy (a)	83	85	95	16	51
Netherlands (a)	167	121	60	38	43
Finland	63	99	185	176	241
Norway	85	78	78	80	59
Poland	222	225	—	230	277
Soviet Union	885	869	1 338	1 088	925
Yugoslavia	55	—	171	78	51
Zaire	...	205	299	278	272
Zambia	31	—	15	6	...
Canada	703	653	1 038	1 479	901
Mexico (b)	991	934	604	404	903
USA (a)	169	30	461	138	28
Peru	310	409	620	678	...
Japan	945	1 190	1 018	1 513	1 606
Australia	649	617	661	589	508

(a) Including scrap

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

## Cadmium

## Imports of Cadmium

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom (a)	1 179	864	1 378	1 338	1 329
Belgium-Luxembourg (a)	719	903	1 070	1 258	1 477
Denmark	23	7	8	6	6
France					
Cadmium (a)	606	488	569	613	937
Cadmium sulphide	20	11	33	67	38
Germany, Federal Republic of					
Cadmium (a)	1 224	961	1 260	1 249	1 093
Cadmium oxide	210	231	341	451	332
Italy					
Cadmium (a)	40	29	33	96	129
Cadmium sulphide	26	35	34	60	36
Netherlands (a)	147	100	116	149	77
Austria	15	6	6	6	6
Spain	5	7	1	—	—
Sweden	161	224	168	160	170
Soviet Union	310	229	233	248	264
Yugoslavia	3	61	2	21	6
USA					
Cadmium	1 131	1 587	1 099	1 765	1 800
Flue dust (c)	504	504	336	158	151
Brazil	56	89	101	102	175
India (b)	2	222	167	24	5

(a) Including scrap

(b) Years ended March 31 following that stated

(c) Cd content

## Production of Chrome Ore

tonnes

Country	1970	1971	1972	1973	1974
Albania	466 000	502 300	* 610 000	611 000	665 000
Finland	120 509	112 000	97 000	135 203	154 661
Greece	27 440	14 436	22 130	18 442	9 589
Soviet Union	* 1 750 000	* 1 800 000	* 1 850 000	* 1 900 000	* 1 950 000
Turkey	518 900	603 200	680 200	568 500	692 676
Yugoslavia	40 565	34 319	20 137	9 594	24 229
Madagascar	104 684	150 000	131 800	102 500	155 874
Rhodesia	* 400 000	* 400 000	* 400 000	* 550 000	* 590 000
South Africa	1 427 259	1 644 196	1 483 159	1 649 630	1 876 913
Sudan	47 100	21 000	23 000	32 000	24 155
Cuba	22 836	13 885	37 104	* 20 000	* 20 000
Brazil (a)	34 046	55 969	103 757	98 666	112 311
Colombia	* 170	* 180	* 200	* 12 000	* 12 000
Cyprus	33 335	40 597	29 644	29 749	33 809
India	273 679	273 135	281 025	290 537	396 535
Iran	* 220 000	* 200 000	* 140 000	* 140 000	* 140 000
Japan	32 980	31 642	24 819	23 174	25 858
Pakistan	26 032	30 233	30 683	20 388	9 479
Philippines	566 443	429 584	349 600	580 268	529 547
World total	6 100 000	6 400 000	6 300 000	6 800 000	7 400 000

(a) Concentrate

## Exports of Chrome Ore

	tonnes				
Country	1970	1971	1972	1973	1974
Belgium-Luxembourg	—	363	5 994	—	475
France	203	155	325	207	581
Germany, Federal Republic of	2 900	5 590	7 722	3 337	3 678
Italy	245	685	883	1 303	1 595
Netherlands	4 231	(d) 5 437	(d) 6 275	(d) 7 617	(d) 35 035
Albania	452 000	* 450 000	* 450 000	466 000	* 500 000
Finland	4 386	37 043	15 111	30 446	83 912
Greece	24 976	26 804	17 850	16 600	10 787
Soviet Union	1 180 000	1 097 000	1 112 000	1 251 000	1 139 000
Turkey	546 065	538 949	342 257	404 909	...
Yugoslavia	11 327	11 582	7 583	3 060	10 011
Madagascar	104 684	113 397	84 254	97 780	180 395
South Africa	879 443	1 162 184	927 337	948 596	780 835
Sudan	29 904	22 762	* 25 000	32 050	...
USA	37 083	31 588	18 124	19 146	16 447
Brazil	160	5 750	37 196	34 924	...
Cyprus	31 246	42 951	23 692	30 387	24 845
India (a)	117 589	85 267	143 745	291 292	305 475
Iran (b)	222 463	151 828	101 105	150 811	149 400
Pakistan (c)	51 455	23 885	22 357	27 118	...
Philippines	596 038	403 887	382 807	598 153	641 817

(a) Years ended 31 March following that stated.

(b) Years ended 20 March following that stated

(c) Years ended 30 June of that stated

(d) Excludes exports to Belgium-Luxembourg if any

## Imports of Chrome Ore

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	164 505	207 030	77 225	199 254	138 127
Belguim-Luxembourg	18 546	21 989	3 032	3 170	4 051
France	421 425	340 407	276 393	330 802	365 348
Germany Federal Republic of	455	483 488	372 045	508 692	386 545
Italy	142 762	201 826	193 590	188 069	149 854
Netherlands	5 600	(a) 9 645	(a) 10 635	(a) 5 588	(a) 27 969
Austria	81 793	94 290	60 384	80 000	114 435
German Democratic Republic (b)	41 749	49 400	55 100	39 100	44 000
Hungary	53 132	...	...	...	...
Norway	78 598	82 072	52 697	87 150	86 204
Poland	141 493	152 536	169 324	175 140	162 266
Spain	58 911	49 490	54 837	89 690	84 597
Sweden	196 903	187 656	146 177	247 349	270 287
Yugoslavia	69 996	86 163	58 660	161 398	176 465
South Africa	21 977	21 422	124 465	120 623	75 948
Canada	27 620	29 679	22 433	25 036	28 776
Mexico	24 999	38 169	26 144	36 794	49 799
USA	1 275 075	1 178 433	962 233	844 636	999 886
Argentina	8 113	1 256	33 151	3 745	5 250
Brazil	8 245	16 688	4 737	11 554	30 686
Chile	202	238	3 200	2 884	3 509
Venezuela	3 866	6 972	...	...	6 481
Japan	1 149 592	1 161 969	874 996	1 163 616	1 154 911
Taiwan	996	...	4 026	26 722	21 173
Australia	13 433	25 619	396	4 752	18 051

(a) Excluding imports from Belgium-Luxembourg if any

(b) Cr<sub>2</sub>O<sub>3</sub> content

## Production of Coal

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Mined-					
Anthracite	2 133 000	2 156 000	1 609 000	1 505 000	1 181 000
Bituminous	134 552 500	134 322 000	107 888 000	119 041 000	98 807 000
Opencast-					
Anthracite	1 551 000	1 968 000	1 833 000	1 849 000	1 353 000
Bituminous	6 333 000	8 657 000	8 140 000	7 781 000	7 877 000
Belgium					
Anthracite	3 247 000	2 595 000	2 325 000	2 014 000	2 038 000
Bituminous	8 115 000	8 365 000	8 175 000	6 828 000	6 073 000
France					
Anthracite & bituminous	37 354 000	33 014 000	29 763 000	25 692 000	22 893 052
Lignite	2 785 300	2 752 000	2 962 000	2 764 000	2 759 086
Germany, Federal Republic of (a)					
Anthracite	8 214 981	8 049 402	6 413 665	97 388 787	94 876 248
Bituminous	103 055 779	102 745 591	96 056 438		
Brown coal	107 767 897	104 479 302	110 415 202	118 663 015	126 044 000
Irish Republic					
Anthracite & semi-bituminous	154 978	89 900	75 000	62 782	67 000
Italy					
Bituminous	295 482	256 269	151 210	4 827	3 681
Brown coal	1 393 271	1 326 360	839 108	1 301 217	1 177 000
Netherlands					
Anthracite & bituminous	4 334 000	3 609 000	2 811 000	1 830 000	815 000
Albania					
Brown coal & lignite	605 600	675 000	764 800	* 864 000	...
Austria					
Brown coal	3 669 558	3 769 728	3 755 510	3 634 008	3 629 284
Bulgaria					
Anthracite	161 000	160 000	155 000	351 000	...
Bituminous	236 000	228 000	229 000		
Brown coal	6 883 000	6 062 000	5 959 000	26 459 000	23 998 000
Lignite	21 971 000	20 558 000	20 935 000		
Czechoslovakia					
Bituminous	28 064 000	28 790 000	28 009 000	27 768 000	27 911 000
Brown coal	78 007 000	81 052 000	81 726 000	78 237 000	79 171 000
Lignite	3 776 000	3 739 000	3 840 000	3 592 000	3 619 414
German Democratic Republic					
Bituminous	1 044 000	857 000	815 000	753 000	594 000
Brown coal	260 582 000	262 814 000	248 451 000	246 245 000	247 868 000
Greece					
Lignite	7 857 623	10 957 400	11 565 198	13 213 678	14 108 602
Greenland					
Bituminous	* 20 000	* 20 000	* 20 000	* 20 000	...
Hungary					
Bituminous	4 151 000	3 941 000	3 671 000	3 410 000	3 209 000
Brown coal	19 008 000	17 757 000	15 534 000	15 463 000	15 281 000
Lignite	4 671 000	5 726 000	6 636 000	7 908 000	7 271 000
Norway					
Spitzbergen-					
Bituminous	483 907	455 465	472 842	411 503	461 040
Poland					
Bituminous	140 000 000	145 491 000	150 700 000	156 630 000	162 002 000
Brown coal	32 800 000	34 500 000	38 221 000	39 200 000	39 826 000
Portugal					
Anthracite	270 890	253 263	251 704	220 808	230 209
Romania					
Anthracite & bituminous	8 087 000	8 505 000	8 073 000	8 294 000	8 523 000
Lignite	14 044 000	13 792 000	16 557 000	17 716 000	20 001 000
Brown coal	704 000	654 000	641 000	654 000	683 000
Soviet Union					
Anthracite & bituminous	432 715 000	441 416 000	451 119 000	461 223 000	473 374 000
Lignite	144 745 000	150 130 000	152 467 000	153 467 000	157 179 000

## Production of Coal

tonnes

Country	1970	1971	1972	1973	1974
Spain					
Anthracite	2 807 997	2 875 867	3 013 010	2 988 917	2 950 000
Bituminous	7 943 326	7 810 547	8 050 650	6 976 078	7 350 000
Lignite	2 826 191	3 080 508	3 056 348	2 997 446	2 903 000
Turkey					
Bituminous	7 607 125	7 846 500	7 861 000	7 841 000	8 602 812
Lignite	8 712 638	9 070 000	10 248 000	10 538 000	11 068 896
Yugoslavia					
Bituminous	643 000	707 000	610 000	610 000	610 000
Brown coal & lignite	27 779 000	30 195 000	30 342 000	31 874 000	32 971 000
Algeria					
Anthracite & bituminous	12 600	14 130	12 360	12 800	...
Morocco					
Anthracite	433 000	474 500	546 800	565 000	574 000
Mozambique					
Bituminous	351 016	328 673	309 912	394 195	425 843
Nigeria					
Sub-bituminous	59 732	157 950	341 000	355 415	312 304
Rhodesia (b)					
Bituminous	3 170 820	3 092 533	2 762 297	3 064 789	3 300 391
South Africa					
Anthracite	1 677 807	1 841 382	1 336 334	1 407 777	1 434 932
Bituminous	52 933 925	56 824 637	57 104 083	60 944 165	64 620 678
Swaziland					
Bituminous	122 946	148 347	126 035	142 220	139 541
Tanzania					
Bituminous	2 664	2 798	3 464	1 994	1 460
Zaire					
Bituminous	101 700	118 552	127 826	115 110	95 000
Zambia					
Bituminous	623 200	812 000	958 636	940 100	809 300
Canada					
Bituminous	8 041 982	9 712 577	11 358 706	12 337 123	12 295 268
Sub-bituminous	3 556 352	4 014 956	4 450 368	4 481 240	5 075 580
Lignite	3 464 712	2 993 879	2 978 105	3 654 395	3 485 531
Mexico					
Bituminous	3 614 000	3 552 000	3 264 000	* 4 230 000	...
USA					
Anthracite	8 826 000	7 917 000	6 446 000	6 196 000	6 003 000
Bituminous	541 561 000	495 132 000	530 147 000	523 966 000	543 065 000
Lignite	5 410 000	5 808 000	9 978 000	12 849 000	5 762 000
Argentina					
Lignite	615 541	631 757	694 426	453 192	...
Brazil					
Bituminous & lignite	5 171 673	5 666 887	5 875 907	5 574 250	5 758 462
Chile					
Bituminous	1 509 775	1 626 121	1 457 719	1 373 394	1 529 105
Colombia					
Bituminous	2 500 000	2 800 000	2 200 000	3 300 000	3 500 000
Peru					
Anthracite	20 069	10 718	* 10 000	* 10 000	...
Bituminous	136 000	92 000	75 000	* 75 000	...
Venezuela					
Bituminous	40 000	43 410	39 876	49 696	57 614
Afghanistan (c)					
Bituminous	170 000	* 200 000	* 200 000	* 180 000	136 000
Burma	15 259	19 711	21 456	14 450	16 811
China	* 360 000 000	* 390 000 000	* 400 000 000	* 400 000 000	* 410 000 000
India					
Bituminous	73 698 000	71 499 000	74 771 000	77 086 000	84 102 000
Lignite	3 545 000	3 660 000	3 067 000	3 303 000	3 044 000
Indonesia					
Bituminous	172 361	199 000	179 000	148 824	156 153
Iran (c)					
Bituminous	323 000	400 000	1 000 000	1 000 000	1 200 000

## Coal

## Production of Coal

	tonnes				
Country	1970	1971	1972	1973	1974
Japan					
Anthracite & bituminous	39 694 000	33 431 000	28 990 000	22 414 000	20 333 000
Lignite	174 230	134 000	102 000	86 000	75 000
Korea, Dem. P.R. of	* 27 300 000	* 30 300 000	* 33 840 000	* 34 000 000	* 35 700 000
Korea, Republic of					
Anthracite	12 394 000	12 785 000	12 403 000	13 571 000	15 262 700
Mongolia	1 748 000	1 996 000	1 010 000	...	...
Pakistan					
Lignite	1 270 056	1 251 916	1 263 182	1 125 526	1 147 382
Philippines					
Bituminous	42 402	40 024	38 900	39 004	50 746
Taiwan					
Bituminous	4 473 467	4 096 591	3 913 218	3 327 107	2 934 000
Thailand					
Lignite	399 900	445 100	345 500	361 015	484 652
Vietnam, Democratic					
Anthracite	* 3 000 000	3 200 000	* 2 000 000	* 3 000 000	...
Australia					
Bituminous	46 063 000	45 841 000	59 389 000	57 355 000	59 202 000
Sub-bituminous	3 482 000	3 161 000	3 300 000	3 298 000	3 974 000
Brown coal	24 175 000	23 382 000	23 697 000	24 676 000	27 303 000
New Zealand					
Bituminous	453 377	389 478	382 000	422 107	422 215
Sub-bituminous	1 741 921	1 573 185	1 647 000	1 901 630	1 998 495
Lignite	190 895	161 583	152 000	144 806	143 607
World total	2 944 000 000	2 950 000 000	2 988 000 000	3 010 000 000	3 055 000 000

(a) Excluding production from "small mines", & including production of brown coal from small mines from 1974

(b) Years ending August 31st of that stated.

(c) Years ending March 20th following that stated



## Exports of Coal

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Anthracite	1 422 525	942 722	630 873	871 700	1 231 764
Bituminous	1 940 005	1 752 408	1 117 757	1 997 844	631 463
Belgium-Luxembourg	590 020	542 729	661 204	646 470	588 143
France					
Anthracite	471 990	308 102	288 340	262 386	174 091
Bituminous	741 588	623 925	652 409	689 168	464 136
Lignite	25 191	15 867	23 260	29 112	26 247
Germany, Federal Republic of					
Brown coal	15 770	12 662	15 271	18 896	22 276
Other	15 597 108	14 056 944	13 043 229	13 856 195	17 443 848
Irish Republic	69 040	26 399	77 785	194 568	166 528
Italy	8 856	13 017	2 301	3 031	10 069
Netherlands	1 646 511	1 582 606	1 700 623	1 511 418	1 022 741
Austria					
Brown coal	7 802	6 108	5 168	3 562	8 987
Czechoslovakia					
Brown coal	1 250 000	1 232 000	1 255 000	1 265 000	1 391 000
Other	2 790 000	3 461 000	3 310 000	3 480 000	3 717 000
Hungary	91 515	104 936	76 924	61 576	67 659
Norway	101 444	85 343	88 498	80 317	54 042
Poland					
Brown coal	3 972 000	3 561 000	4 106 000	4 968 000	5 199 000
Other	28 816 000	30 301 000	32 687 000	35 857 000	40 093 000
Soviet Union					
Anthracite	4 300 000	4 300 000	4 200 000	4 400 000	4 611 000
Other	20 000 000	20 500 000	20 200 000	20 000 000	21 400 000
Spain					
Anthracite	203 736	97 374	33 193	4 960	53 098
Sweden	139 471	10 330	232	13 174	59 308
Switzerland	34 301	33 325	1 919	2 594	33 687
Turkey	260 833	13 554	...	600	...
Yugoslavia					
Brown coal	35 950	108 833	180 522	155 248	112 773
Lignite	129 743	105 872	409 341	362 666	444 664
Morocco					
Anthracite	55 437	40 037	19 185	21 249	32 435
Mozambique	108 099	80 284	55 481	52 740	129 801
Nigeria	...	...	19 102	25 541	17 214
South Africa					
Anthracite	976 020	782 121	697 934	905 483	1 034 758
Bituminous	530 830	661 870	544 595	1 039 183	1 242 459
Canada	3 983 971	7 015 965	7 723 232	10 907 719	10 774 108
USA					
Anthracite	716 218	608 743	707 579	650 040	666 938
Bituminous	64 359 000	51 376 595	50 766 254	47 963 228	54 364 040
Argentina	1 875	330	3 354	3 023	3 010
Colombia					
Anthracite	5 500	5 625	15 880	7 474	...
India (a)					
Anthracite	24 241	8 261	3 143	1 265	...
Other	388 173	159 488	411 631	387 181	450 837
Japan	15 683	17 491	9 041	23 698	132 488
Korea, Republic of					
Anthracite	337 922	339 465	159 053	219 150	25 200
Australia (b)	17 623 170	18 867 639	21 909 303	25 795 068	27 853 061

Note: This table excludes bunker shipments

(a) Years ended March 31st following that stated

(b) Years ended June 30th of that stated

## Imports of Coal

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	79 074	4 230 374	4 996 213	1 688 206	3 540 939
Belgium-Luxembourg	7 706 354	5 543 731	6 286 697	7 634 522	10 066 642
Denmark	3 370 879	2 268 987	2 186 894	3 023 801	3 627 155
France					
Anthracite	2 992 758	3 091 121	2 610 873	2 592 784	2 482 430
Bituminous	11 196 471	10 430 545	9 273 017	9 906 577	13 776 816
Lignite	13 330	11 515	15 502	19 838	23 470
Germany, Federal Republic of					
Brown coal	1 075 730	1 157 814	1 194 359	1 237 638	1 327 697
Other	8 838 005	7 267 639	6 929 611	7 020 823	5 837 224
Irish Republic					
Anthracite	82 203	76 959	61 244	...	57 418
Bituminous	1 136 567	961 130	891 561	806 672	834 349
Italy					
Anthracite & bituminous	11 773 770	11 359 752	10 718 476	10 748 920	12 246 583
Lignite	69 660	60 140	50 492	39 428	59 539
Netherlands					
Brown coal	2 869	33	22 372	19 954	18 235
Other	4 733 141	3 218 616	3 116 865	3 862 245	4 262 401
Austria					
Brown coal	139 082	154 718	512 061	467 218	524 968
Other	3 451 974	2 751 249	2 789 592	2 819 329	2 896 380
Czechoslovakia	4 569 000	5 447 000	5 535 000	5 299 000	5 168 000
Finland					
Anthracite	118 259	96 195	103 556	60 224	93 587
Other	3 103 186	2 833 662	2 559 284	2 912 433	3 843 996
German Democratic Republic	7 927 000	7 973 000	7 601 000	8 341 000	7 200 000
Greece					
Anthracite	20 560	38 236	21 357	10 582	7 965
Other	141 119	297 220	444 397	640 019	832 723
Greenland	10 824	11 103	2 569	14 511	...
Hungary	1 985 833	1 911 000	1 660 000	1 470 000	1 430 000
Norway (a)	460 944	448 464	417 580	403 021	543 246
Poland					
Anthracite	34 000	38 000	37 000	30 000	30 000
Other	1 096 000	1 264 000	1 157 000	1 165 000	1 203 000
Portugal					
Anthracite	80 206	14 695	4 160	5 502	9 010
Other	400 181	141 744	362 645	425 478	297 228
Romania	728 300	758 300	754 100	1 355 900	1 871 500
Soviet Union	7 100 000	8 400 000	9 700 000	10 000 000	9 712 000
Spain					
Anthracite	14 465	41 873	9 547	9 531	6 131
Bituminous	3 450 070	2 894 790	2 931 367	3 028 746	3 228 559
Sweden					
Anthracite	124 018	103 642	103 256	98 862	99 773
Other	1 536 115	1 318 660	882 102	927 703	1 401 027
Switzerland	397 633	276 769	147 416	132 811	243 168
Turkey	...	2 435	94	15 975	...
Yugoslavia					
Anthracite	146 189	142 623	141 171	179 970	196 883
Other	1 673 268	1 829 182	1 743 334	1 783 820	1 779 534
Algeria	69 818	42 996	58 558	59 523	...
Angola	16 848	11 086	3 375	7 817	...
Egypt	495 487	433 112	28 781	24 502	661 656
Ghana	32 380	10 659	...	17 933	5 893
Kenya	81 605	81 271	39 142	70 209	66 107
Malawi	43 991	45 442	53 257	...	...
Morocco	47 316	52 341	41 571	27 045	13 150
Mozambique					
Anthracite	1 218	476	1 171	406	429
Other	335 559	368 939	255 577	243 118	235 435
Nigeria	3 312	12 345	9	106	2 652
South Africa	60 720	86 871	15 353	727	95 896
Tunisia	28 961	37 487	24 543	32 518	35 531
Zambia	333 595	48 455	18 133	634	...

## Imports of Coal

tonnes

Country	1970	1971	1972	1973	1974
Bahamas	83	155	13	16	184
Canada					
Anthracite	320 639	366 712	344 135	417 848	213 438
Bituminous	16 712 507	15 997 449	17 030 943	13 374 780	12 035 680
Mexico	151 018	262 173	379 829	229 963	363 059
Panama	24	998	8 160	12 326	4 332
St.Pierre & Miquelon	3 306	4 134	...	...	...
USA					
Bituminous	9 547	48 993	4 641	86 799	1 708 557
Other	26 422	55 498	43 392	34 823	222 512
Argentina	347 307	716 605	427 830	782 055	822 483
Brazil					
Anthracite	2 002	3 960	5 528	3 799	3 806
Bituminous	1 751 635	1 717 046	1 856 185	1 695 868	1 592 731
Chile	235 140	178 195	132 631	...	...
Uruguay	27 479	29 461	...	...	...
Venezuela	28 761	2 006	12 887	25 233	2 694
Burma	206 829	210 601	126 755	64 460	80 394
Hong Kong	23 002	29 649	20 778	11 560	10 798
India	782	963	436	6 738	530
Iran					
Coking coal	1 495	2 885	1 342	10 833	1 997
Other	56	762	575	50 507	22 312
Israel	2 379	1 101	4 657	3 100	340
Japan					
Anthracite	1 404 846	1 583 776	755 570	1 030 818	1 516 838
Other	48 767 419	45 339 691	48 522 415	55 823 642	62 634 477
Korea, Republic of	16 754	15 389	8 845	611 711	773 415
Malaysia					
Anthracite	12 210	15 434	4 318	13 037	18 661
Philippines	158	505	597	1 301	5 077
Thailand	227	294	300	1 176	2 331
Australia (b)	10 492	11 042	14 967	4 970	8 140

(a) Excludes coal imported from Spitzbergen

(b) Years ended June 30th of that stated

## Cobalt

**Mine Production of Cobalt**

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Finland	1 008	925	803	1 010	812
Soviet Union	* 1 500	* 1 600	* 1 600	* 1 700	* 1 700
Morocco	604	978	1 602	1 378	1 644
Zaire	13 958	14 518	13 112	15 100	17 545
Zambia	2 052	2 079	2 055	1 929	1 962
Canada (a)	2 069	1 961	1 520	1 517	1 564
Cuba	* 1 500	* 1 500	* 1 500	* 1 600	* 1 600
Australia	469	796	770	776	1 078
New Caledonia	—	—	...	* 1 700	* 1 900
World total	23 200	24 400	23 000	27 000	30 000

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

## Exports of Cobalt

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Cobalt (c)	555	263	371	499	284
Cobalt oxides	346	381	342	185	158
Belgium-Luxembourg (b)					
Cobalt (c)	1 322	1 580	1 883	2 237	2 285
France					
Ingots and scrap (a)	275	340	465	763	552
Cobalt oxide	108	66	199	207	178
Germany, Federal Republic of					
Cobalt (c)	197	231	282	205	287
Cobalt oxide	14	13	14	27	56
Netherlands					
Cobalt (c)	372	29	97	155	142
Finland					
Cobalt	703	1 036	860	991	808
Norway					
Cobalt	720	762	492	723	1 172
Morocco					
Ore	8 750	4 750	12 606	10 549	14 547
Zaire					
Cobalt	* 14 100	14 551	17 474	15 052	17 632
Zambia					
Cobalt	1 814	1 189	2 329	1 145	1 894
Canada					
Cobalt	381	340	390	551	479
Cobalt oxides and salts	837	1 119	733	512	655
USA					
Unwrought (c)	969	401	974	1 131	1 002
Cobalt oxides	69	69	75	807	414

(a) Including alloys

(b) Exports of Cobalt are not separately recorded. Figures shown relate to imports into USA and Japan from Belgium

(c) Including alloys and scrap

## Cobalt

## Imports of Cobalt

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Cobalt (b)	2 357	1 977	1 285	1 936	2 808
Cobalt oxides	1 463	983	732	808	1 058
Denmark					
Cobalt	22	16	12	16	19
France					
Ore	7 671	4 100	7 815	8 499	8 625
Ingots and scrap (a)	983	609	409	939	855
Cobalt oxide	290	201	269	253	296
Germany, Federal Republic of					
Cobalt (b)	1 487	994	1 252	1 681	1 955
Cobalt oxide	471	393	391	456	509
Italy					
Cobalt (b)	337	311	364	269	362
Cobalt oxide	299	201	211	401	512
Netherlands					
Cobalt	372	119	156	126	78
Sweden					
Cobalt	477	348	297	341	521
Yugoslavia					
Cobalt	57	46	37	46	42
Cobalt oxides	34	73	102	19	34
USA					
Cobalt	5 385	4 709	5 934	8 328	6 709
Cobalt oxide	322	329	514	522	696
Cobalt salts	71	18	37	28	1
Argentina					
Cobalt	59	84	89	108	128
Brazil					
Cobalt	148	96	144	217	198
Cobalt oxide	56	63	82	93	154
India					
Cobalt	144	189	115	180	203
Cobalt oxide	11	14	9	16	15
Japan					
Cobalt (b)	4 638	1 471	2 952	4 657	3 716
Cobalt oxide	609	506	684	943	819
Australia (c)					
Cobalt, ingots, etc.	96	80	68	128	198
Cobalt oxide	25	41	18	8	38

(a) Including alloys

(b) Including alloys and scrap

(c) Years ended June 30 of that stated

## Mine Production of Copper

tonnes (metal content)

Country	1970	1971	1972	1973	1974
United Kingdom	—	—	238	459	434
France	250	248	237	185	* 200
Germany, Federal Republic of	1 477	1 484	1 321	1 436	1 734
Irish Republic	8 281	11 800	13 656	13 046	12 700
Italy	2 300	1 540	1 049	858	1 070
Albania	6 000	6 500	6 700	7 000	6 000
Austria	2 262	2 575	2 231	2 713	2 612
Bulgaria	42 000	44 400	46 300	48 000	* 50 000
Finland	30 900	28 500	34 800	38 213	36 667
German Democratic Republic	* 18 000	* 15 000	* 20 000	* 18 000	* 18 000
Norway	19 947	21 672	26 007	22 245	20 336
Poland	83 000	122 300	135 000	155 000	198 000
Portugal	3 762	3 957	1 543	651	568
Soviet Union	* 925 000	* 990 000	* 1 050 000	* 1 100 000	* 1 200 000
Spain (a)	9 522	34 032	30 170	23 424	23 700
Sweden	26 283	30 200	30 819	44 819	40 637
Turkey	31 100	30 000	25 000	36 000	40 700
Yugoslavia	90 808	94 392	103 133	111 797	112 080
Algeria	574	514	428	353	400
Congo	269	2 070	6	927	1 840
Kenya (b)	79	73	72	* 70	* 70
Mauritania	1 950	4 740	15 051	21 277	20 079
Morocco	3 172	2 595	3 831	4 149	4 670
Namibia	23 000	25 900	21 500	28 300	26 100
Rhodesia	* 24 000	* 23 300	31 800	32 000	* 32 000
South Africa	144 200	148 400	161 927	175 797	179 111
Uganda	(c) 16 984	(c) 15 731	(c) 14 100	14 200	11 500
Zaire	385 679	407 700	438 501	488 514	* 494 600
Zambia	684 100	651 400	717 700	706 574	697 956
Canada (d)	610 281	654 470	719 673	823 942	821 380
Cuba	400	—	1 827	2 100	* 2 500
Haiti	4 848	6 500	1 400	—	—
Mexico	61 012	63 150	78 720	80 501	82 700
Nicaragua	3 029	3 662	2 500	2 700	2 500
USA (e)	1 560 038	1 380 894	1 510 319	1 558 490	1 448 776
Argentina	461	497	1 125	284	...
Bolivia	8 700	7 809	8 114	8 230	7 919
Brazil	3 920	5 418	4 455	3 412	4 100
Chile (e)	685 600	708 300	716 900	735 400	899 700
Ecuador	510	565	438	481	...
Peru (e)	220 225	207 346	219 126	220 000	213 200
Burma	* 70	* 80	* 80	* 75	* 70
China (c)	* 120 000	* 130 000	* 135 000	* 140 000	* 150 000
Cyprus (f)	19 140	16 560	16 767	14 217	11 900
India	9 700	11 096	15 669	15 785	20 277
Indonesia	—	—	5 000	37 900	64 600
Israel	10 988	10 700	11 175	10 165	9 322
Japan	119 513	120 551	112 114	91 280	82 121
Korea, Dem. P.R. of	* 13 000	* 13 000	* 13 000	* 13 000	* 13 000
Korea, Republic of	1 639	1 773	2 082	2 321	2 794
Philippines	160 292	197 573	213 695	221 195	225 485
Taiwan	2 500	2 400	1 996	2 400	2 500
Australia	157 790	177 261	185 843	220 335	251 340
New Zealand	47	85	123	...	...
Papua New Guinea	—	—	124 000	182 900	184 100
World total	6 400 000	6 400 000	7 000 000	7 400 000	7 700 000

(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

tonnes

Country	1970	1971	1972	1973	1974
Belgium	54 000	65 100	66 000	66 000	78 500
France	9 100	6 800	6 500	8 800	9 300
Germany, Federal Republic of	84 400	87 400	159 427	239 608	203 997
Albania	5 600	6 500	6 700	6 900	6 000
Austria (a)	22 000	21 295	22 693	22 823	26 913
Bulgaria	40 000	45 000	48 000	43 000	* 55 000
Finland	33 700	32 300	41 500	48 100	48 400
German Democratic Republic (b)	* 50 000	* 48 000	* 47 000	* 45 000	* 48 000
Norway	32 092	34 462	32 966	33 285	31 737
Poland	68 900	87 800	134 000	155 000	195 000
Soviet Union (b)	* 1 075 000	* 1 150 000	* 1 225 000	* 1 300 000	* 1 350 000
Spain	55 071	66 267	80 120	86 721	105 365
Sweden	36 659	43 311	37 000	44 339	40 937
Turkey	18 955	17 500	18 000	25 000	29 664
Yugoslavia	105 901	111 304	131 300	133 657	139 860
Namibia	27 300	28 100	26 100	35 400	45 800
Rhodesia	23 000	23 300	* 30 000	* 30 000	* 30 000
South Africa	148 000	153 400	168 000	150 000	147 800
Uganda	16 984	15 731	14 100	9 600	8 900
Zaire	385 460	403 500	427 900	460 500	470 000
Zambia	683 250	633 400	698 000	681 900	709 300
Canada (c)	465 085	462 300	473 732	494 998	537 000
Mexico	59 600	61 936	74 236	70 500	75 000
USA	1 488 997	1 360 774	1 533 499	1 582 097	1 424 113
Chile	647 200	625 100	589 900	556 500	724 000
Peru	176 919	166 353	176 253	172 985	179 800
China	* 120 000	* 130 000	* 135 000	* 140 000	* 150 000
India	9 311	9 554	10 467	12 011	11 782
Japan	603 008	610 317	706 668	817 500	868 804
Korea, Dem. P.R. of	* 13 000	* 13 000	* 13 000	* 13 000	* 13 000
Korea, Republic of	5 117	5 700	3 200	7 700	12 000
Taiwan	3 752	3 670	4 767	6 649	9 859
Australia	111 652	142 867	145 341	162 568	196 129
World total	6 600 000	6 600 000	7 200 000	7 700 000	8 000 000

(a) Including secondary metal

(b) Refined

(c) Cu content of blister and anode copper



## Exports of Copper

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	55	—	2 178	1 224	288
Unwrought -					
Refined	44 897	28 114	18 821	66 090	35 023
Alloys	45 458	39 744	45 084	43 151	36 340
Scrap	1 989	1 563	2 170	10 778	29 688
Belgium-Luxembourg					
Copper ore	992	29	1 944	42	1 004
Unwrought (a)	304 958	282 805	271 594	327 937	301 230
Scrap	16 848	12 697	10 551	18 741	16 116
Denmark					
Unwrought	3	560	835	3	18
Unwrought alloys	1 820	2 112	2 453	1 633	1 531
Scrap	5 363	5 553	1 916	2 226	11 428
France					
Ore	...	17	...	749	2 710
Matte	700	909	358	1 112	557
Unwrought-					
Unrefined	8 637	6 714	6 334	6 835	7 770
Refined	2 973	3 621	1 386	3 565	2 789
Alloys	3 244	2 446	2 574	5 038	3 138
Scrap	49 365	50 531	57 863	75 170	74 413
Germany, Federal Republic of					
Ore	351	1 100	...	951	5 015
Copper matte	3 024	6 848	2 006	1 042	...
Unwrought-					
Unrefined	946	594	20 941	32 785	50 222
Refined	79 944	103 135	79 452	110 701	82 440
Alloys	4 508	8 088	7 932	5 866	8 439
Scrap	35 265	35 664	35 115	38 016	41 790
Irish Republic					
Ore & concentrates	11 732	39 241	57 154	11 142	32 222
Scrap	4 243	6 281	2 863	...	...
Italy					
Ore	9 549	5 802	3 760	5 889	3 095
Unwrought	5 817	4 508	3 898	8 947	10 612
Scrap	1 056	1 217	1 520	2 630	4 883
Netherlands					
Unwrought	603	929	5 143	7 295	16 751
Unwrought alloys	6 901	4 463	3 400	5 256	5 829
Scrap	31 316	28 213	30 712	42 081	37 513
Austria					
Unwrought	5 842	6 035	5 456	9 234	9 916
Unwrought alloys	683	676	883	774	1 077
Scrap	1 074	299	373	803	500
Finland					
Unwrought	3 743	7 744	7 761	23 006	12 192
Norway					
Ore	33 552	40 300	39 754	63 841	52 964
Unwrought-					
Unrefined	6 376	6 382	7 325	7 633	6 290
Refined	26 101	25 956	23 894	23 891	25 777
Alloys	3 001	2 087	2 272	3 905	2 266
Scrap	1 477	702	1 027	1 076	2 152
Poland					
Unwrought	...	29 087	49 767	40 303	58 010
Portugal					
Unwrought	347	101	140	382	466
Soviet Union					
Unwrought	123 100	173 600	209 200	246 400	251 700
Spain					
Unwrought	18 414	6 382	3 075	9 267	7 971
Scrap	34	26	107	1 125	176

## Exports of Copper

tonnes

Country	1970	1971	1972	1973	1974
Sweden					
Ore	1 633	3 650	14 087	36 687	33 855
Unwrought	27 155	30 609	23 554	12 417	16 631
Unwrought alloys	4 944	3 282	3 231	6 552	3 966
Scrap	1 374	758	795	423	353
Switzerland					
Unwrought	3 841	2 961	4 295	5 880	5 153
Scrap	12 911	8 029	10 878	19 114	15 034
Turkey					
Ores concentrates	...	6 755	5 569	...	...
Unwrought	6 261	1 988	...	2 601	...
Yugoslavia					
Unwrought	27 812	46 296	90 339	78 076	72 235
Algeria					
Ore	1 206	3 297	934	961	...
Angola					
Unwrought	267	166	171	40	...
Ivory Coast					
Matte & scrap	1 537	1 150	1 067	...	1 018
Mauritania					
Ore (b)	—	7 660	14 859	18 892	23 683
Morocco					
Ore	9 127	12 323	13 595	14 319	17 586
Scrap	1 341	1 043	954	968	1 389
Namibia (e)	...	...	...	...	...
Senegal					
Unwrought & scrap	502	313	371	410	...
South Africa					
Copper-all formes (f)	105 997	105 284	115 358	111 862	106 250
Ore & concentrates (g)	16 455	10 741	1 974	58 337	* 70 000
Unwrought metal (g)	117 921	128 405	129 932	132 012	* 150 000
Tunisia					
Unwrought & scrap	782	491	466	927	556
Uganda					
Unwrought	16 446	16 808	14 141	9 714	9 001
Zaire					
Unwrought	369 720	405 700	424 700	448 400	451 300
Zambia					
Unwrought-					
Blister	103 226	98 678	87 741	43 071	673 500
Electrolytic	578 616	532 458	621 083	625 465	...
Sludge, slimes & residues	1 466	2 135	2 005	1 449	...
Canada					
Ores, concentrates & matte (b)	161 378	204 121	269 805	347 616	344 030
Unwrought	265 264	285 673	308 927	288 498	285 912
Scrap	47 433	30 847	35 640	50 143	38 201
Mexico					
Concentrates	93	...	15 204	14 889	3 147
Unwrought-					
Unrefined	4 965	9 691	17 775	14 930	8 496
Refined	719	298	7 960	6 197	...
Nicaragua					
Ore & concentrates	15 363	19 619	...	39 147	6 862
USA					
Ore & concentrates (b)	53 026	6 072	15 661	20 427	11 309
Matte (b)	2 801	1 300	361	899	20
Unwrought-					
Unrefined	7 081	26 034	7 774	6 679	2 413
Refined	200 682	170 237	164 930	168 934	112 961
Master alloys	191	165	262	402	640
Scrap	115 142	86 461	77 079	138 473	144 732

## Exports of Copper

tonnes

Country	1970	1971	1972	1973	1974
Bolivia					
Ore (b)	8 853	7 809	8 430	8 217	7 919
Chile					
Ore & concentrates	24 998	78 801	23 414	83 000	112 400
Copper cement	17 654	9 191	10 603	...	...
Unwrought-					
Blister	197 551	159 373	148 355	159 500	214 500
Refined	455 254	415 356	398 512	387 800	487 800
Scrap	161	170	78	...	...
Peru					
Ore (b)	42 725	44 434	46 424	34 551	...
Unwrought (b)	172 847	149 085	172 043	155 866	...
Cyprus					
Ores & concentrates	53 862	51 446	65 776	65 005	46 471
Cupreous pyrites	96 049	74 513	46 718	33 403	23 334
Copper cement	11 137	9 201	5 836	6 543	2 354
Hong Kong					
Scrap	10 688	6 587	9 840	7 993	5 892
Iran					
Ore (c)	1 500	840	660	1 100	...
Israel					
Matte	93	386	929	2 070	2 083
Copper cement	17 038	17 419	16 384	11 621	12 512
Scrap	3 797	1 634	1 533	110	190
Japan					
Unwrought	47 059	10 723	25 480	29 619	279 573
Malaysia					
Ore	1 016	1 012	250	...	...
Scrap	1 015	605	843	1 341	1 717
Philippines					
Ore & concentrates	604 352	720 186	780 438	783 803	861 306
Unwrought	2 003	2 391	7	8	45
Scrap	3 954	1 686	3 366	2 520	2 235
Singapore					
Ore	1 118	1 787	700	...	...
Unwrought	—	102	304	171	49
Taiwan					
Ore & concentrates	9 023	2 462	575	1 038	708
Unwrought	1 035	1 119	6 656	5 909	361
Australia					
Ores, concentrates & dross (b)	36 958	38 869	42 109	48 187	51 101
Unwrought-					
Blister	7 079	6 073	7 090	7 728	12 464
Refined (d)	31 436	49 201	58 693	49 967	50 678
Alloys (d)	56	6	42	53	25
Scrap (d)	59	274	847	165	54
New Zealand (d)					
Unwrought	3 603	2 170	2 097	...	...
Scrap	1 428	1 215	720	...	...

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 March 20 of year following that stated

(d) Year ended June 30 of that stated

(e) See South Africa

(f) Department of Mines figures for South Africa; Cu content

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

## Imports of Copper

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ore & matte	6 233	3 671	357	219	46
Unwrought -					
Blister	33 688	31 872	39 364	26 832	82 711
Electrolytic	387 589	346 263	381 918	374 631	361 753
Other refined	27 528	20 274	25 342	64 057	22 489
Alloys	754	1 455	202	910	2 459
Scrap	12 516	11 459	17 716	23 712	15 953
Belgium - Luxembourg					
Ore	21 222	37 594	25 447	30 990	32 406
Unwrought (a)	384 748	369 958	399 206	443 537	393 191
Scrap	115 125	62 322	51 478	89 449	100 321
Denmark					
Unwrought	4 456	3 773	5 840	5 517	4 128
Unwrought alloys	193	62	148	560	1 309
Scrap	812	324	30	208	716
France					
Matte	1 063	574	3 580	1 970	2 480
Unwrought -					
Unrefined	16 469	16 425	15 713	18 296	42 001
Refined	315 377	301 645	366 364	377 308	370 637
Alloys	1 951	2 655	3 645	4 066	6 821
Scrap	12 235	12 032	13 279	13 208	17 816
Germany, Federal Republic of					
Ore	195 400	171 248	417 117	514 806	571 146
Burnt cupreous pyrites	1 298 668	1 038 127	1 126 264	746 999	785 736
Matte	5 536	2 349	269	893	743
Unwrought -					
Unrefined	133 317	155 679	117 894	121 169	98 160
Refined	384 432	363 121	393 679	401 792	440 025
Alloys	55 600	51 454	57 139	52 630	34 193
Scrap	113 377	80 453	71 644	116 655	95 141
Irish Republic					
Unwrought	156	265	65	307	264
Italy					
Unwrought -					
Unrefined	4 172	4 526	7 252	1 654	3 601
Refined (b)	302 925	285 112	309 091	293 979	336 247
Scrap	47 512	46 207	48 819	57 013	66 388
Netherlands					
Unwrought	12 723	44 207	41 842	48 586	47 328
Unwrought alloys	3 665	2 536	1 937	1 168	1 589
Scrap	9 580	6 982	7 921	8 719	10 791
Austria					
Unwrought -					
Unrefined	5 460	6 554	8 635	5 909	6 569
Refined	26 432	27 725	28 889	25 182	26 477
Alloys	1 023	1 298	1 823	1 265	1 523
Scrap	13 544	9 483	7 878	11 880	8 937
Finland					
Ore	11	1 587	889	3 091	36 265
Unwrought	14 338	10 460	9 211	9 195	15 329
Greece					
Unwrought	12 109	12 880	15 567	18 161	14 812
Scrap	90	182	388	56	120
Hungary					
Unwrought (c)	35 578	17 905	31 771	35 422	42 633
Norway					
Unwrought	615	349	251	392	1 205
Unwrought alloys	499	624	491	558	498
Scrap	152	247	70	5	285
Poland					
Unwrought (d)	21 900	33 560	32 134	23 704	10 404

## Imports of Copper

tonnes

Country	1970	1971	1972	1973	1974
Portugal					
Ore	11	141	56	...	...
Unwrought	7 785	7 349	7 507	7 933	8 361
Scrap	1 625	1 304	1 516	2 476	1 728
Soviet Union					
Unwrought	1 021	7 400	8 800	6 100	4 900
Spain					
Ore	72 433	69 586	144 948	115 457	128 689
Unwrought	74 065	62 053	60 134	64 941	37 791
Scrap	16 609	15 989	16 752	15 471	11 906
Sweden					
Ore	60 014	65 901	39 693	44 902	40 360
Matte	19 286	10 845	7 159	10 589	3 118
Unwrought -					
Unrefined	4 121	1 850	2 764	—	700
Refined	61 701	64 112	62 490	59 517	66 190
Alloys	3 984	3 148	3 195	3 043	3 944
Scrap	8 207	8 277	4 974	6 155	5 036
Switzerland					
Unwrought	48 624	40 454	30 289	27 086	31 176
Unwrought alloys	2 953	2 121	3 212	1 061	1 174
Scrap	397	432	397	505	1 986
Turkey					
Ore	...	...	21 340	17 858	...
Yugoslavia					
Concentrates	2 744	80	61 911	34 957	78 325
Unwrought	41 413	60 121	73 532	59 357	61 159
Scrap	1 844	1 059	2	—	54
Egypt					
Unwrought & scrap	1 641	3 285	390	77	1 140
South Africa					
Ore & concentrates	7 372	2 318	34 792	37 187	76 772
Unwrought	1 123	5 186	6 487	5 752	10 460
Unwrought alloys	46	45	21	32	32
Zambia					
Unwrought	244	1 496	161	4	...
Canada					
Unwrought	13 192	19 866	16 241	17 179	22 106
Scrap	3 421	3 620	3 506	5 372	5 191
Cuba					
Unwrought, electrolytic	2 362	2 515	2 700	...	...
Mexico					
Unwrought	41	22	25	345	...
USA					
Ore & concentrates (e)	58 550	5 033	73 246	20 936	48 463
Cement & precipitate (e)	39	69	657	961	61
Unwrought -					
Blister (e)	203 471	139 366	70 000	130 791	188 479
Refined	119 878	148 767	159 395	185 653	275 735
Scrap	2 094	6 767	9 786	13 017	22 929
Scrap alloys (e)	1 552	5 744	7 228	10 928	14 859
Argentina					
Unwrought, refined	22 885	34 717	37 313	36 667	44 696
Brazil					
Unwrought, refined	50 638	70 437	84 817	93 001	131 418
Colombia					
Unwrought & scrap	869	920	1 466	1 172	...
Uruguay					
Unwrought	816	758	709	1 196	...

## Imports of Copper

tonnes

Country	1970	1971	1972	1973	1974
Hong Kong					
Unwrought	(f) 55	(f) 25	1 608	(f) 313	267
Scrap	3 321	2 381	2 713	513	1 709
India (g)					
Unwrought	46 542	50 711	50 265	49 188	39 466
Scrap	354	765	522	49	8
Indonesia					
Unwrought	2 308	2 357	...	...	...
Iran (h)					
Unwrought	38	219	505	154	107
Scrap	162	405	677	418	1 528
Israel					
Unwrought	84	6	7	...	...
Unwrought alloys	10 040	3 910	13 250	...	...
Scrap	1 197	1 563	10	155	78
Japan					
Ore & concentrates	1 565 283	1 926 078	2 170 409	2 972 749	3 123 600
Matte	23 613	9 220	8 098	17 249	16 392
Unwrought	302 010	268 349	293 552	394 587	292 356
Unwrought alloys	11 209	13 927	9 614	15 283	11 098
Scrap	65 729	53 605	70 455	68 380	35 198
Korea, republic of					
Ore	...	11 982	2 223	20 866	21 843
Unwrought	(c) 4 880	...	2 815	6 692	11 364
Scrap	810	5 573	8 393	20 393	24 079
Malaysia					
Unwrought	30	74	86	59	63
Philippines					
Unwrought	4 689	3 501	3 271	3 375	4 781
Singapore					
Ore	1 016	1 270	255	...	...
Unwrought	60	127	52	108	268
Taiwan					
Unwrought	4 407	5 111	18 646	16 959	22 588
Thailand					
Unwrought	116	53	1 022	1 152	672
Scrap	107	511	632	1 638	712
Australia (i)					
Unwrought	50	64	31	553	381
Unwrought alloys	49	82	50	77	1 171
Scrap	2 916	2 318	2 380	7 382	1 992
New Zealand (i)					
Unwrought	161	891	1 059	1 062	2 621

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

(f) Excess of exports

(b) Including alloys

(g) Years ended March 31 following that stated

(c) Including semi-manufactures

(h) Years ended March 20 of year following that stated

(d) Including wire

(i) Years ended June 30 of that stated

(e) Cu Content

## Production of Diamond

	carats				
Country	1970	1971	1972	1973	1974
Soviet Union	7 850 000	8 800 000	9 200 000	9 500 000	9 800 000
Angola	2 396 000	2 413 021	2 155 057	2 124 720	1 959 272
Botswana	463 595	871 765	2 440 426	2 416 460	2 718 000
Central African Republic	482 447	468 138	524 102	380 100	337 800
Ghana (a)	2 549 500	2 561 700	2 658 717	2 306 788	2 571 745
Guinea	74 000	74 000	80 000	* 80 000	* 80 000
Ivory Coast	212 808	326 368	333 541	299 916	278 533
Lesotho (b)	17 547	6 940	9 018	9 000	11 000
Liberia (b)	825 959	738 928	879 575	812 257	635 718
Namibia	1 509 263	1 561 572	1 596 144	1 599 565	1 569 961
Sierra Leone	2 048 264	1 944 174	1 800 301	1 354 775	1 716 230
South Africa	8 111 533	7 031 249	7 394 974	7 565 374	7 510 075
Tanzania	708 145	837 190	652 045	501 459	489 569
Zaire					
Gem	1 649 000	1 274 000	1 339 000	1 035 963	13 596 935
Industrial	12 438 000	11 469 000	12 051 000	12 004 000	
Brazil	73 000	92 000	99 087	112 751	* 100 000
Guyana	61 081	47 919	48 665	52 502	* 50 000
Venezuela	508 700	499 020	456 300	780 829	1 199 973
India	20 235	19 383	20 009	21 427	20 975
Indonesia	15 000	15 000	15 000	15 000	15 000
World total (c)	40 400 000	41 100 000	43 700 000	43 100 000	44 600 000

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	1970	1971	1972	1973	1974
United Kingdom	£256 807 099	£383 043 227	£455 973 223	£794 794 377	£784 054 000
Belgium - Luxembourg					
Rough	3 901 262	4 496 256	6 150 698	5 732 503	5 478 689
Cut	1 894 946	2 461 859	2 388 597	2 502 501	2 277 308
Industrial	8 140 048	8 817 761	7 304 072	8 954 810	9 131 617
France					
Uncut	125 715	17 075	5 525	197 240	50 090
Cut and polished	31 495	34 115	34 680	30 285	133 305
Industrial	180 380	240 225	551 435	577 070	478 900
Netherlands	1 409 801	943 439	1 591 234	2 519 749	1 997 342
Portugal					
Industrial	655 198	865 089	858 079	662 179	563 152
Other	1 411 830	1 557 319	1 432 717	1 456 701	1 407 421
Sweden					
Industrial	£13 531	£10 747	£19 459	£6 661	£39 884
Gem	£113 402	£44 189	£73 138	£2 779 930	£1 682 006
Angola	2 502 688	2 342 524	2 199 860	2 111 172	...
Central African Republic	471 800	427 254	506 000	352 293	342 000
Ghana					
Industrial	2 871 971	2 366 946	3 192 648	2 267 435	2 555 925
Ivory Coast	215 205	276 000	537 565	300 000	242 559
Lesotho	17 547	6 940	9 018	9 000	11 000
Liberia	825 959	738 928	879 575	812 257	635 718
Sierra Leone	1 955 011	1 933 672	1 846 733	2 104 000	1 631 202
South Africa (a)					
Uncut	2 657 196	2 719 637	2 792 000	3 805 500	* 3 120 000
Cut and polished	248 304	248 299	273 500	288 500	* 320 000
Industrial	8 037 883	5 608 416	10 049 000	12 078 000	* 12 540 000
Tanzania	719 617	807 810	651 200	575 017	339 169
Zaire	13 650 000	...	...	14 189 000	...
USA					
Uncut	93 937	62 904	345	...	...
Cut	294 026	286 232	371 036	259 119	285 136
Industrial	338 921	414 504	484 324	516 069	981 128
Bort	33 470	19 642	54 615	39 550	11 230
Brazil	46 560	61 020	45 020	26 840	...
Guyana	...	...	...	...	25 954
India (b)					
Gem	£15 697 560	£20 410 441	£33 304 983	£46 341 500	£40 107 735
Israel					
Polished	1 778 000	2 116 000	2 532 000	2 679 000	2 766 000
Japan					
Industrial	79 815	148 140	103 315	93 355	11 405
Cut & polished	330	4 415	5 590	8 785	7 460
Malaysia					
Cut & polished	£26 250	£13 447	£56 631	£60 402	...
Australia					
Industrial	132 274	121 379	104 689	108 270	209 766

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 using the average yearly rate of exchange.

(a) Total of exports and re-exports

(b) Years ended March 31 following that stated



## Imports of Diamond

Country	carats				
	1970	1971	1972	1973	1974
United Kingdom	£310 873 686	£388 788 040	£478 477 813	£723 828 000	£773 322 227
Belgium - Luxembourg					
Rough	8 612 218	9 483 950	120 037 875	13 863 181	10 425 711
Cut	1 184 162	988 437	901 367	1 138 832	1 275 866
Industrial	8 216 925	8 898 836	8 294 370	6 660 200	8 573 186
France					
Uncut	184 020	63 040	130 125	51 635	35 185
Cut and polished	109 805	108 615	161 695	173 260	383 115
Industrial	724 325	773 915	878 590	662 575	859 370
Netherlands	1 805 392	1 468 182	1 276 252	2 418 413	2 454 423
Norway					
Industrial	30 000	25 000	25 000	...	10 000
Sweden					
Gem	£734 000	£666 000	£964 000	£3 416 000	£4 996 000
Industrial	£481 000	£448 000	£273 000	£485 000	£688 000
Yugoslavia					
Industrial	109 660	39 420	101 150	225 585	375 000
South Africa					
Industrial	3 369 057	2 559 573	4 793 500	10 165 500	7 653 000
Rough	44 263	44 797	95 000	61 000	48 500
Cut & polished	7 081	4 405	3 500	4 500	14 500
Zambia					
Industrial	...	2 140 500	...	16 065 000	...
Canada					
Cut, unset	63 873	76 384	84 705	101 546	101 474
Industrial	535 930	374 898	624 152	711 106	897 786
Mexico					
Cut	10 790	16 860	19 565	11 200	1 445
Industrial	5 505 000	6 160 000	2 040 000	5 000 000	4 895 000
USA					
Uncut	2 632 739	2 741 658	3 096 415	2 736 969	2 450 152
Cut & polished	1 641 875	1 925 527	2 409 873	2 359 814	2 142 517
Industrial	5 882 673	4 885 316	5 529 737	6 611 055	6 404 058
Bort, manufactured	363 061	298 615	589 970	74 374	143 081
Argentina					
Industrial	215 000	95 000	25 000	45 000	90 000
Colombia					
Industrial	200 000	65 000	...	80 000	...
Hong Kong					
Gem	424 489	572 940	669 613	801 324	673 946
Industrial	97 597	13 151	211	750 586	255 330
India (a)					
Gem	£10 68 377	£10 849 915	£18 801 717	£35 047 081	£25 533 535
Industrial & bort	£270 000	£445 000	£375 000	£455 000	£490 000
Israel					
Rough	3 207 000	4 336 000	4 938 000	7 238 000	6 120 000
Industrial	404 000	346 000	320 000	1 488 000	1 486 000
Bort	678 000	646 000	616 000	615 000	...

## Diamond

## Imports of Diamond

Country	carats				
	1970	1971	1972	1973	1974
Japan					
Industrial	772 000	672 000	814 240	1 157 475	822 675
Uncut	10 485	15 055	11 345	17 835	20 950
Cut & polished	254 230	367 450	521 070	662 740	518 310
Malaysia					
Gem	£658 859	£507 187	£696 219	£920 419	£1 011 100
Philippines					
Industrial	39 393	36 910	53 269	81 100	85 580
Australia					
Industrial	916 195	617 574	626 240	903 137	1 199 805
Gem	39 996	50 026	62 277	65 692	77 646
New Zealand (b)					
Industrial	£11 894	£49 128	£25 356	...	...
Other	£272 543	£339 043	£426 400	...	...

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 using the average yearly rate of exchange.

(a) Years ended March 31 following that stated

(b) Years ended June 30 of that stated

## Production of Diatomite

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	13 762	14 559	9 030	4 673	4 000
Denmark					
Diatomite (a)	8 370	7 207	5 899	5 309	6 119
Moler (e)	91 830	* 95 000	* 100 000	* 100 000	* 100 000
France (b)	159 803	168 467	197 098	203 701	* 210 000
Germany, Federal Republic of	38 255	26 449	29 087	13 064	17 000
Italy	59 220	49 677	35 695	* 40 000	* 40 000
Austria	3 772	3 084	2 453	2 135	1 992
Iceland	13 139	19 046	21 936	22 057	24 745
Portugal	3 195	4 671	1 651	1 153	1 896
Soviet Union	* 370 000	* 370 000	* 380 000	* 390 000	* 399 000
Spain	18 357	18 335	19 189	19 358	27 297
Sweden	627	514	—	444	566
Algeria	7 000	4 428	4 564	4 600	13 500
Egypt	2 326	2 250	1 668	1 600	1 633
Kenya	1 601	1 400	1 812	1 241	1 657
Mozambique	118	...	54	...	...
South Africa	848	325	314	528	789
Canada (c)	* 435	450	450	...	—
Costa Rica	* 19 000	* 21 000	* 21 000	* 21 000	* 30 000
Mexico	16 115	16 615	9 007	19 559	* 20 000
USA	542 162	485 630	522 616	552 390	602 646
Argentina	8 228	9 587	10 802	16 319	* 20 000
Colombia	280	300	357	350	* 360
Peru	2 559	3 775	3 970	3 990	* 4 000
Korea, Republic of	2 584	3 162	1 995	3 982	11 688
Australia	2 656	1 927	1 537	4 602	7 438
New Zealand	5 883	6 338	4 996	4 501	4 558
World total (d)	1 300 000	1 300 000	1 300 000	1 400 000	1 400 000

(a) Sales

(b) Including tripoli

(c) Shipments

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

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

## Exports of Diatomite

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	4 567	4 878	3 676	3 080	1 912
Belgium-Luxembourg	839	1 432	673	900	5 491
Denmark					
Diatomite	8 428	7 695	5 930	5 556	6 022
Moler	91 892	57 290	50 476	57 313	58 872
Moler bricks	43 750	44 562	40 675	36 453	42 781
France	15 985	16 933	17 016	16 297	19 428
Germany, Federal Republic of	4 770	6 236	5 354	5 098	5 157
Italy	1 499	1 410	1 759	1 396	1 272
Netherlands	442	396	144	231	191
Austria	53	166	152	455	313
Finland	44	40	36	115	34
Iceland	* 13 000	* 19 000	19 690	22 269	24 055
Norway	5	11	27	14	15
Portugal	120	174	86	77	64
Spain	1 741	2 056	1 702	1 357	1 766
Sweden	129	150	197	182	216
Yugoslavia	619	244	—	41	11
Algeria	4 607	2 182	3 431	6 247	...
South Africa	245	41	133	13	...
Mexico	6 247	8 543	9 338	8 835	15 505
USA	139 652	128 778	134 049	161 644	169 627
Japan	1 021	1 414	1 414	1 294	981

## Imports of Diatomite

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	11 495	10 517	12 059	13 948	13 930
Moler (a)	21 787	5 447	(f) 5 700	(f) 5 600	(f) 4 200
Activated diatomite	11 799	9 153	8 947	10 085	12 490
Siliceous Insulating Bricks (g)	9 133	13 283	16 001	23 952	15 666
Belgium-Luxembourg	5 325	6 335	5 883	6 599	8 402
Denmark	4 263	3 274	2 937	4 069	4 005
France	5 821	5 302	5 760	7 376	6 116
Germany, Federal Republic of	70 372	53 408	55 194	59 918	59 961
Italy	6 092	3 799	4 831	5 545	6 606
Netherlands	8 869	9 626	8 948	9 318	13 736
Austria	2 635	3 300	3 761	4 099	6 741
Finland	1 124	765	948	854	1 361
Greece	1 051	324	...	...	...
Iceland	1 420	1 021	1 497	0	0
Norway	2 421	2 907	1 197	1 259	1 422
Poland	2 024	1 765	2 298	2 961	4 880
Portugal	3 249	1 784	2 425	3 272	3 847
Spain	3 218	1 628	2 482	2 973	2 801
Sweden	8 298	8 136	6 014	4 743	4 808
Switzerland	2 034	2 778	2 432	2 853	3 230
Turkey	122	324	306	278	...
Yugoslavia	1 417	1 194	2 586	691	731
Angola	391	356	488	491	...
Morocco	677	421	321	360	352
South Africa	4 291	4 295	3 680	6 564	8 806
Zambia	804	995	778	236	...
Canada	34 640	27 483	31 195	34 012	29 098
Costa Rica	218	276	386	327	433
El Salvador	299	848	552	446	316
Guatemala	421	497	304	372	746
Honduras	1 498	368	571	1 717	899
Mexico	—	3	2	22	4
Nicaragua	1 615	524	...	...	...
Argentina	2 579	2 413	3 158	1 651	4 353
Brazil	1 234	625	938	1 347	1 577
Chile (b)	825	11	330	...	...
Colombia	1 362	863	487	773	...
Uruguay	340	169	...	...	...
Venezuela	2 646	2 373	2 553	3 591	5 284
India (d)	2 658	1 267	1 490	848	2 319
Iran (c)	434	512	755	913	889
Israel	484	377	518	570	400
Japan	2 944	2 100	3 249	4 422	4 582
Lebanon	218	96	647	149	...
Malaysia	155	161	70	251	308
Philippines	1 262	1 157	645	693	1 974
Thailand	47	...	86	260	11
Australia (e)	8 227	6 191	7 651	8 641	8 159
New Zealand (e)	940	1 018	659	...	...

(a) In bulk

(b) Including tripoli

(c) Years ended March 20 following that stated

(d) Years ended March 31 following that stated

(e) Years ended June 30 of that stated

(f) Based on Danish exports

(g) Mainly moler bricks from Denmark

## Production of Feldspar

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom (a)	33 667	62 861	53 151	48 815	...
France (c)	236 000	192 000	147 000	237 360	* 210 000
Germany, Federal Republic of (b)	408 809	353 693	349 446	355 791	374 844
Italy	194 673	212 068	175 817	189 322	238 733
Austria	1 206	2 656	3 076	2 050	—
Finland	62 126	64 062	59 858	58 318	63 557
Norway (d)	152 145	202 783	221 696	256 707	* 168 116
Poland	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Portugal	30 809	18 771	18 011	24 018	28 066
Soviet Union	* 249 000	* 249 000	* 260 000	* 270 000	* 275 000
Spain (c)	55 084	61 732	62 987	65 000	72 296
Sweden (e)	31 900	27 706	34 091	27 955	31 964
Yugoslavia	49 504	53 617	48 335	50 807	* 51 000
Egypt	1 787	3 171	3 234	3 033	2 228
Kenya	895	2 650	1 962	1 461	2 842
Mozambique	...	...	295	830	840
Nigeria	...	...	4 318	5 000	* 5 000
South Africa	18 896	12 240	25 322	31 692	39 540
Canada	9 667	9 774	10 600	—	—
Mexico	82 823	99 342	98 363	97 107	* 100 000
USA (e)	658 674	673 868	664 454	718 400	774 461
Argentina	29 536	36 726	62 187	30 420	* 35 000
Brazil	43 088	44 669	67 373	90 581	...
Chile	3 600	900	2 196	530	2 806
Colombia	23 152	24 836	28 619	30 000	* 30 000
Peru	2 863	1 435	1 931	1 500	* 2 000
Uruguay	1 105	1 208	971	205	1 757
Venezuela	...	...	12 938	18 000	23 460
Burma	812	695	800	311	660
Hong Kong	1 621	1 145	1 149	1 340	5 566
India	29 625	44 236	52 801	42 802	54 496
Japan (f)	58 381	52 474	62 335	48 728	54 000
Korea, Republic of	28 021	16 887	14 689	28 460	24 617
Pakistan	138	305	240	1 192	3 356
Philippines	20 616	39 358	46 061	24 998	10 245
Sri Lanka	1 293	248	579	625	779
Thailand	—	—	1 500	4 510	6 998
Australia (g)	3 535	3 253	3 133	2 804	4 145
World Total (h)	2 510 000	2 550 000	2 580 000	2 640 000	2 790 000

(a) China stone

(b) Including feldspar sand and pegmatite

(c) Including pegmatite

(d) Unground

(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, Romania, Namibia, China

## Exports of Feldspar

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	3 381	3 974	4 641	5 877	4 380
Belgium-Luxembourg(a)	15 422	4 597	639	6 849	11 902
France (a)	34 360	35 837	37 597	43 104	43 153
Germany, Federal Republic of(a)	14 287	8 714	11 735	17 449	22 884
Italy	25 890	26 814	30 873	32 590	32 855
Netherlands (a)	184	(b) 73	(b) 9	(b) 77	(b) 15
Austria (a)	712	1 363	1 120	31	80
Finland (a)	59 914	40 869	44 136	40 993	46 369
Norway					
Crude	28 149	26 253	22 164	27 490	33 992
Ground	49 560	53 153	58 736	67 102	80 017
Portugal (a)	9 779	10 407	6 718	9 140	7 800
Spain (a)	45	487	495	1 346	5 656
Sweden (a)	16 641	16 673	13 445	22 687	39 060
Yugoslavia	16 840	17 384	13 166	18 223	17 449
South Africa	13 127	12 382	13 407	8 003	3 558
Tunisia (c)	8 665	17 372	38 525	33 020	25 566
USA					
Ground	5 053	3 614	4 785	8 667	16 619
India (d)	12 409	9 176	9 879	10 134	9 723
Japan	3 613	3 701	3 191	5 438	7 409
Korea, Republic of	5 825	4 596	5 200	7 830	10 350

(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) Years ended March 31 following that stated

## Imports of Feldspar

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	103 911	117 707	118 710	127 211	137 519
Belgium-Luxembourg (a)	56 908	44 099	52 499	72 562	78 559
Denmark (a)	10 933	9 212	9 010	8 229	10 145
France (a)	31 336	31 003	31 757	7 374	15 211
Germany, Federal Republic of(a)	81 560	87 753	92 026	52 010	59 120
Italy	19 270	14 790	14 790	11 637	13 522
Netherlands (a)	29 866	(b) 30 285	(b) 34 479	(b) 10 437	(b) 7 852
Austria (a)	7 902	8 749	9 577	9 507	9 776
Finland (a)	754	1	11	15	38
Greece (a)	3 290	4 861	6 069	4 745	7 183
Poland	13 415	14 696	14 783	15 842	14 152
Spain (a)	3 830	4 677	9 433	14 390	16 448
Sweden (a)	7 853	5 745	5 353	5 941	4 947
Switzerland (a)	15 719	13 731	13 944	17 366	18 391
Turkey	33	99	68	21	...
Morocco (a)	113	274	25	179	119
Mexico	1 019	598	1 161	2 203	1 718
USA					
Crude	229	122	170	240	27
Ground	3 299	2 154	857	93	56
Venezuela	2 201	1 366	680	76	400
Israel (a)	2 644	2 751	4 300	1 600	2 700
Japan	3 883	2 106	2 400	9 696	(a) 20 633
Philippines (c)	2 270	2 789	2 509	2 564	4 456
Singapore	4 026	1 686	1 046	2 929	4 462
Thailand (a)	1 455	2 531	3 786	1 276	910
Australia (a) (d)	4 466	5 123	9 148	11 148	13 653
New Zealand (c) (d)	1 893	2 149	3 240	...	...

(a) May include some leucite and nepheline

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

(c) Including fluorspar

(d) Years ended June 30 of that stated



## Production of Fluorspar

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom (a)	199 000	228 000	222 000	227 000	233 000
France (b)	475 000	600 000	640 000	570 000	690 000
Germany, Federal Republic of	75 114	84 687	93 045	92 081	74 118
Italy	289 266	288 243	277 495	235 533	249 376
Czechoslovakia	* 80 000	* 90 000	* 90 000	* 90 000	* 90 000
German Democratic Republic	* 80 000	* 80 000	* 80 000	* 80 000	* 90 000
Romania	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Soviet Union	* 408 000	* 420 000	* 430 000	* 440 000	* 450 000
Spain	341 665	346 389	544 275	453 057	288 290
Sweden	—	—	—	4 636	4 074
Turkey	1 665	...	2 311	1 935	978
Egypt	267	644	898	1509	1 121
Kenya	3 904	6 561	10 439	26 733	48 000
Mozambique	...	8 218	1 428	—	...
Rhodesia	* 150	* 150	* 150	* 150	* 180
South Africa	172 994	239 041	210 806	210 324	207 933
Tunisia	30 700	32 959	40 547	43 304	28 318
Canada	124 100	* 82 000	* 145 800	* 137 000	* 163 000
Mexico	978 485	1 180 955	1 042 385	1 085 894	* 1 180 000
USA (d)	244 232	246 817	227 111	225 527	151 332
Argentina	29 655	72 334	60 177	45 968	* 50 000
Brazil	36 568	61 592	97 679	110 157	* 100 000
Burma	165	200	225	* 200	* 200
China	* 270 000	* 254 000	* 254 000	* 254 000	* 270 000
India	4 647	2 976	3 301	2 951	(e) 14 458
Japan	8 031	12 720	8 298	8 000	* 8 000
Korea, Dem. P.R. of	* 3 000	* 3 000	* 3 000	* 3 000	* 3 000
Korea, Republic of	29 978	50 815	27 997	22 156	16 261
Mongolia	* 80 000	* 80 000	* 80 000	* 100 000	* 100 000
Pakistan	528	4770	2383	1595	* 1 500
Thailand	317 850	427 498	395 070	398 005	428 151
Australia	580	464	877	1 569	238
World total (c)	4 300 000	5 000 000	4 800 000	4 800 000	5 000 000

(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

(e) Includes metallurgical and acid grade concentrates

## Fluorspar

## Exports of Fluorspar

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	* 51 000	* 68 800	* 66 200	* 82 800	84 996
France	146 456	122 216	75 163	122 828	146 743
Germany, Federal Republic of	7 986	10 220	9 991	17 391	15 907
Italy	126 956	161 073	67 060	91 047	75 512
Spain	170 431	209 354	176 797	239 705	249 461
Sweden	504	878	1 526	470	352
Algeria	22 550	29 960	—	—	...
South Africa	110 473	157 735	121 764	114 536	123 588
Mexico	919 465	1 094 128	1 021 973	1 018 347	1 077 146
USA	13 565	11 331	2 507	2 248	5 344
Argentina	679	28 215	4 274	7 100	995
Brazil	20 650	22 094	26 835	24 935	...
Korea, Republic of	33 628	45 878	27 623	17 388	9 776
Thailand	349 257	335 774	274 450	275 508	305 541

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

## Imports of Fluorspar

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	* 200	* 200	—	—	2 561
Belgium-Luxembourg	17 266	14 284	12 331	12 779	15 433
Denmark	3 780	2 254	2 792	2 070	2 368
France	12 567	5 589	3 776	6 071	4 343
Germany, Federal Republic of	268 560	239 568	158 453	207 613	285 472
Italy	59 816	96 871	71 671	37 457	67 466
Netherlands	35 559	(c) 24 265	(c) 24 394	(c) 20 551	(c) 26 177
Austria	13 666	13 701	13 367	17 305	14 395
Finland	7 462	6 019	5 124	4 208	5 191
Norway	24 967	41 132	34 071	32 960	41 173
Poland	23 130	29 985	39 849	36 132	48 911
Romania	24 101	13 650	25 215	...	...
Soviet Union	144 700	176 200	234 900	391 000	487 400
Sweden	16 126	19 552	11 819	15 802	14 373
Turkey	1 731	200	2 347	1 176	...
Yugoslavia	6 813	4 907	4 641	4 449	5 708
Canada	85 894	204 201	65 236	153 816	142 246
USA	990 934	972 869	1 071 869	1 099 823	1 202 140
Chile	1 334	1 206	942	...	...
Venezuela	1 685	4 293	725	3 492	828
India (a)	9 660	17 693	7 332	9 591	8 063
Japan	520 800	677 950	490 104	573 631	541 304
Australia (b)	20 183	33 490	27 212	15 716	30 332

(a) Years ended March 31 following that stated

(b) Years ended June 30 of that stated

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

## Production of Gold

kilogrammes

Country	1970	1971	1972	1973	1974
France	1 951	2 041	1 808	2 694	1 521
Germany, Federal Republic of	30	53	84	* 53	41
Finland	633	544	548	615	645
Portugal	373	426	520	456	357
Romania	* 1 900	* 1 900	* 1 900	* 1 900	* 1 900
Soviet Union	* 346 700	* 359 800	* 378 900	* 398 200	* 420 700
Spain	—	4 748	...	...	2 996
Sweden	1 375	1 696	1 790	2 517	2 126
Yugoslavia	3 029	3 850	3 920	4 619	* 4 041
Cameroon	7	3	3	2	—
Congo	82	92	65	39	22
Ethiopia	849	660	646	780	525
Gabon	501	427	355	349	227
Ghana	22 240	21 695	22 529	22 669	19 098
Guinea	* 120	* 120	* 120	* 120	...
Liberia (a)(b)	34	79	41	—	...
Madagascar	17	13	6	...	...
Nigeria	4	1	...	3	4
Rhodesia	* 15 600	* 15 600	* 15 800	* 15 500	* 18 600
South Africa	1 000 417	976 297	909 631	855 179	758 559
Tanzania	244	5	7	2	2
Zaire	5 617	5 340	2 539	4 157	4 074
Zambia (c)	* 170	* 301	* 355	* 358	...
Canada	74 917	70 318	64 652	60 788	52 827
Costa Rica	16	156	156	243	560
El Salvador	72	109	89	163	...
Haiti	* 90	* 90	* 90	* 90	* 90
Honduras	104	84	63	25	31
Mexico	6 166	4 694	4 542	4 123	4 100
Nicaragua	3 402	3 375	2 650	2 458	2 271
USA	54 223	46 504	45 099	36 570	35 051
Bolivia	952	690	627	1 118	...
Brazil	5 830	5 115	6 338	6 946	...
Chile	1 578	1 996	2 942	3 048	...
Colombia	6 268	5 874	5 811	6 726	8 244
Ecuador	265	344	342	324	241
French Guiana	73	72	31	...	...
Guyana	138	44	125	235	381
Peru	3 349	2 605	2 688	3 250	4 200
Surinam	36	20	17	14	13
Venezuela	694	578	633	592	515
China	* 1 500	* 1 500	* 1 500	* 1 500	* 1 500
India	3 241	3 668	3 290	3 278	3 145
Indonesia	237	329	339	352	265
Japan	7 937	7 928	7 557	5 838	4 335
Kampuchea, Democratic	120	124	* 124	* 124	* 124
Korea, Dem. P.R. of	* 5 000	* 5 000	* 5 000	* 5 000	* 5 000
Korea, Republic of	1 597	894	530	506	740
Malaysia	122	184	169	116	135
Philippines	18 747	19 814	18 871	17 799	16 682
Sarawak	39	44	51	29	31
Taiwan	700	606	556	690	710
Australia	19 282	20 918	23 361	17 174	15 944
Fiji	3 228	2 772	2 537	2 686	2 144
New Zealand	319	266	382	344	146
Papua New Guinea	740	728	12 725	22 467	22 600
Solomon Islands	* 9	* 14	* 12	* 12	...
World total (d)	1 600 000	1 600 000	1 500 000	1 600 000	1 400 000

(a) Years ended August 31 of that stated

(b) Purchased by the Bank of Monrovia

(c) Contained in blister copper, refinery muds &amp; electrolytic copper

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

## Exports of Gold

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom					
Bullion - refined	565 248	623 353	457 401	527 219	678 324
Belgium-Luxembourg					
Bullion	3 735	9 288	11 265	11 929	17 670
France					
Bullion & alloys	...	132 503	128 941	120 204	134 056
Germany, Federal Republic of					
Bullion & alloys	15 661	9 275	7 873	8 530	8 951
Irish Republic					
Bullion	33	117	...	...	...
Netherlands					
Bullion	779	7 469	3 040	2 880	7 138
Sweden					
Bullion	1 821	7 000	900	1 000	1 000
Switzerland					
Bullion	20 202	16 933	26 007	13 971	13 535
Ghana					
Bullion	21 690	21 684	22 913	22 472	21 650
Canada					
Bullion - refined	179 066	119 008	118 685	50 793	39 441
Bullion - unrefined	3 657	4 163	5 015	5 673	5 847
Honduras					
Ore & base bullion	99	239	...	...	...
Mexico					
Bullion	83	27	35	...	...
Nicaragua					
Bullion	3 402	3 373	...	2 458	2 255
USA					
Ore & base bullion (a)	3 301	17 962	8 267	10 396	9 583
Bullion - refined	30 112	23 679	37 523	82 454	110 581
Bolivia					
Ore	155	22	5	1	2
Colombia					
Bullion	7 078	823	2 064	1 282	...
Ores	30 660	22 276	...	160 814	...
Guyana					
Unrefined	...	...	...	40	2 572
Peru					
Ores	1 251	1 182	1 064	1 922	...
Hong Kong					
Bullion	27 475	31 103	18 025	13 933	9 574
Lebanon					
Crude	4 919	1 831	11 991	37 347	...
Philippines (b)					
Bullion	20 322	10 178	5 589	5 657	5 191
Australia (b)					
Ores	3 949	6 806	—	—	8 501
Bullion - refined	30 344	5 771	3 648	10 027	3 332
Bullion - unrefined	—	135	6	16	1 511
Fiji					
Bullion	3 348	2 726	2 528	2 476	...
Papua New Guinea (b)					
Bullion	773	599	...	...	...

(a) Including scrap

(b) Years ended June 30 of that stated

## Gold

## Imports of Gold

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom					
Bullion - refined	914 045	970 305	593 246	667 975	554 558
Bullion - unrefined	33 227	31 074	12 235	11 544	5 996
Belgium-Luxembourg					
Bullion	17 999	35 391	10 445	22 956	105 122
France					
Bullion & alloys	...	142 665	104 263	128 098	146 730
Germany, Federal Republic of					
Bullion & alloys	107 605	129 446	85 527	82 532	97 130
Irish Republic					
Bullion	1 100	1 300	...	...	...
Italy					
Bullion & alloys	164 273	202 647	389 446	79 253	50 062
Netherlands					
Bullion	1 220	23 810	9 094	14 845	19 268
Austria					
Bullion	28 390	41 799	27 961	8 516	58 457
Finland					
Bullion	1 154	857	1 039	705	409
Malta					
Bullion	467	593	474	170	880
Norway					
Bullion	1 379	1 013	946	438	324
Sweden					
Bullion	1 447	1 000	1 000	1 000	1 000
Switzerland					
Bullion	2 112	1 780	2 033	2 743	2 597
Kenya					
Bullion	184	85	223	...	163
Canada					
Bullion	3 878	3 769	11 926	10 993	22 338
USA					
Ore & base bullion (a)	8 926	5 955	8 257	7 300	10 244
Bullion - refined	197 985	218 012	182 290	112 286	72 223
Brazil					
Bullion	3 981	4 139	3 766	2 091	1 039
Brunei					
Bullion	963	1 161	353	5	...
Cyprus					
Bullion (b)	545	655	711	515	120
Hong Kong					
Bullion	27 321	29 954	13 681	13 435	15 727
Lebanon					
Bullion & scrap	105 099	65 074	39 523	21 864	...
Sabah					
Bullion	140	218	62	16	...
Syria					
Bullion & scrap (c)	646	182	...	74	41
Taiwan					
Bullion	254	3 431	328	10 354	3 267
Australia (d)					
Bullion	6 104	4 054	1 635	2 299	2 807

(a) Including scrap

(b) Including partly worked

(c) Gross weight

(d) Years ended June 30 of that stated

## Production of Graphite

tonnes

Country	1970	1971	1972	1973	1974
Germany, Federal Republic of	16 406	12 688	11 348	13 525	16 485
Italy	2 088	636	773	4 161	2 530
Austria (a)	27 733	21 392	18 772	17 211	29 550
Norway	10 357	8 288	8 538	6 891	9 698
Romania	6 019	* 6 000	* 6 000	* 6 000	* 6 000
Soviet Union	* 75 000	* 80 000	* 80 000	* 85 000	* 90 000
Madagascar (b)	19 870	20 025	18 320	13 963	17 280
South Africa	699	1 145	847	1 029	1 554
Mexico	55 647	50 916	55 110	65 392	* 68 000
Argentina	76	147	25	94	100
Brazil	11 200	23 709	27 347	25 784	* 25 000
Burma	78	152	217	183	305
China	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
India	...	...	...	22 728	26 456
Japan (c)	1 465	1 054	853	800	800
Korea, Dem. P.R. of	* 75 000	* 75 000	* 75 000	* 75 000	* 75 000
Korea, Republic of	59 530	72 515	40 768	43 604	104 861
Sri Lanka	(d) 9 786	(d) 7 186	7 141	7 811	10 427
World total (e)	421 000	431 000	401 000	419 000	509 000

(a) Crude

(b) Flake and powder

(c) Flake

(d) Exports

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

## Graphite

## Exports of Graphite

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	3 773	2 736	1 909	1 815	1 824
Belgium-Luxembourg	31	111	130	148	474
France	1 759	1 613	2 132	1 606	1 079
Germany, Federal Republic of	9 321	7 235	7 077	9 259	10 790
Italy	1 815	1 579	1 497	2 295	2 673
Netherlands	165	268	134	324	327
Austria	25 820	21 745	18 791	15 004	16 914
Norway	10 620	8 566	8 667	8 038	9 570
Soviet Union	17 606	(a) 2 964	(a) 2 605	(a) 2 388	...
Sweden	112	192	126	82	246
Madagascar	20 307	17 777	18 334	18 871	17 046
South Africa	37	434	360	901	954
Mexico	45 696	42 315	44 359	57 228	58 429
USA	5 246	5 201	6 612	7 215	11 058
India (b)	22	36	178	253	79
Japan	758	801	420	440	418
Korea, Republic of	45 648	32 118	28 402	44 935	69 959
Sri Lanka	9 786	7 186	6 260	7 582	9 776

(a) Exports to German Democratic Republic

(b) Years ended March 31 following that stated



## Imports of Graphite

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	11 964	10 196	9 441	13 644	15 706
Belgium-Luxembourg	719	778	1 167	5 518	1 454
Denmark	228	206	174	221	363
France	6 789	5 707	4 456	8 316	8 859
Germany, Federal Republic of	26 982	25 163	22 075	22 199	26 787
Italy	14 041	10 052	6 943	4 796	5 475
Netherlands	311	653	453	402	437
Austria	1 775	2 747	890	274	286
Finland	628	627	271	389	824
German Democratic Republic	4 927	6 327	6 569	5 376	5 173
Greece	259	318	292	321	331
Norway	395	417	328	181	493
Poland	11 620	11 818	13 030	9 224	11 014
Portugal	163	179	436	332	286
Spain	1 263	917	1 114	1 429	1 649
Sweden	1 271	1 234	1 035	1 284	1 271
Switzerland	399	377	255	237	272
Turkey	413	404	355	521	...
Yugoslavia	1 788	1 943	2 045	1 934	1 867
Morocco	17	14	22	12	9
Mozambique	5	11	14	4	7
South Africa	326	416	333	236	559
Sudan	—	116	8	3	58
Mexico	215	476	709	294	337
USA	60 181	52 099	57 845	69 848	73 545
Argentina	433	264	328	345	705
Brazil	191	106	131	103	182
Chile	165	83	92	176	249
Colombia	79	40	14	40	...
Uruguay	6	9	10	11	...
Venezuela	102	242	251	225	356
Burma	96	117	6	9	—
Hong Kong	167	235	391	—	328
India (a)	1 230	1 028	1 637	845	810
Iran	151	710	962	1 901	1 847
Israel	48	94	86	13	38
Japan	76 820	55 967	40 242	65 721	86 015
Lebanon	69	8	78	20	...
Malaysia	100	406	199	296	367
Philippines	44	85	209	146	160
Taiwan	3 811	5 813	4 247	4 197	7 471
Thailand	774	1 014	746	1 312	1 234
Australia (b)	1 504	1 800	1 160	1 252	2 180
New Zealand (b)	118	125	88	...	...

(a) Years ended March 31 following that stated

(b) Years ended June 30 of that stated

## Production of Gypsum

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Gypsum	2 796 000	3 103 000	3 468 000	3 849 000	3 567 000
Anhydrite	1 479 000	1 070 000	696 000	359 000	296 000
Belgium	88 000	96 000	106 000	114 000	103 000
France (a)	6 210 965	6 313 887	6 192 000	6 159 400	6 265 200
Germany, Federal Republic of					
Gypsum	1 977 740	2 394 913	2 512 595	2 653 378	1 967 314
Anhydrite	83 362	139 520	170 397	294 535	334 905
Irish Republic	319 000	367 000	419 000	436 000	384 000
Italy (b)	3 358 786	3 431 809	3 551 095	3 886 373	* 3 900 000
Luxembourg	5 062	5 351	9 452	5 000	* 5 000
Austria					
Gypsum	469 007	513 402	633 213	716 941	678 931
Anhydrite	158 825	80 317	126 794	154 060	124 811
Bulgaria	189 000	153 000	199 000	165 000	* 180 000
Czechoslovakia	487 000	479 000	501 000	578 000	* 600 000
German Democratic Republic (c)	289 000	316 000	* 340 000	* 340 000	* 340 000
Greece	308 553	330 000	399 751	420 360	441 759
Poland	* 850 000	* 850 000	* 850 000	* 850 000	* 850 000
Portugal	115 045	177 522	135 496	99 839	143 039
Soviet Union	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000	* 4 700 000
Spain	2 800 000	2 600 000	2 700 000	* 2 300 000	2 000 000
Turkey	* 320 000	* 320 000	* 330 000	358 000	357 000
Yugoslavia	250 619	250 241	270 532	256 290	* 250 000
Angola	14 800	25 842	34 787	46 655	39 916
Egypt	500 000	526 992	427 470	523 717	558 515
Kenya	60 077	91 872	73 000	* 100 000	* 100 000
Libya	* 4 000	* 4 000	* 4 000	* 4 000	3 483
Niger	* 1 500	1 400	1 600	1 700	2 200
South Africa	410 101	408 236	419 392	483 239	563 448
Sudan	1 600	2 000	...	1 750	825
Tanzania	20 718	17 691	14 121	12 872	21 124
Canada (a)(d)	5 732 068	6 080 044	7 347 726	7 610 530	7 225 204
Dominican Republic	176 000	248 000	* 249 000	* 229 000	* 230 000
Guatemala	7 710	7 900	* 8 000	* 8 000	* 8 000
Jamaica	282 840	309 247	441 159	356 634	268 796
Mexico	1 290 800	1 298 247	1 497 715	1 514 431	1 386 813
Nicaragua	* 30 000	25 210	11 585	13 341	13 714
USA	8 560 000	9 451 000	11 184 000	12 299 614	10 885 312
Argentina	421 563	507 559	513 124	454 382	* 454 000
Brazil	173 749	233 978	237 964	352 055	* 400 000
Chile	127 267	116 410	127 667	155 650	135 000
Colombia	189 062	182 000	201 292	225 000	312 650
Paraguay	* 6 000	* 12 000	* 11 000	* 10 500	* 14 600
Peru	89 940	45 427	64 753	* 71 000	* 71 000
Venezuela	* 100 000	* 100 000	* 100 000	170 000	164 564

## Production of Gypsum

tonnes

Country	1970	1971	1972	1973	1974
Burma	5 334	12 192	14 895	15 647	16 000
China	* 500 000	* 550 000	* 600 000	* 630 000	* 650 000
Cyprus	34 353	919	772	27 082	25 401
India	920 536	1 088 444	1 104 710	886 204	1 073 000
Iran (e)	2 099 980	2 250 000	2 400 000	2 400 000	* 2 400 000
Israel	70 000	80 000	80 000	150 000	* 200 000
Japan	538 773	535 901	465 000	378 397	333 939
Pakistan (a)	168 000	133 511	70 043	178 155	188 145
Philippines	17 500	42 796	86 226	101 782	126 126
Saudi Arabia	17 230	35 900	* 40 000	* 45 000	* 45 000
Syria	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Taiwan	11 325	17 338	5 889	5 004	3 975
Thailand	144 250	167 904	89 805	236 265	311 795
Australia	845 444	889 222	959 095	1 165 187	1 068 852
World total (f)	51 800 000	54 300 000	58 200 000	60 800 000	58 500 000

(a) Including anhydrite

(b) Including alabaster

(c) Crude estimated from production of calcined gypsum

(d) Producer's shipments

(e) Years ended March 20 following that stated

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

## Gypsum

## Exports of Gypsum

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Crude (a)	4 503	4 204	3 842	6 754	4 860
Calcined	8 593	8 093	7 325	7 958	9 696
Belgium-Luxembourg					
Crude	386	1 270	2 949	24 840	24 163
Calcined	9 081	9 458	8 534	4 918	9 841
Denmark					
Crude & calcined	25	20	23	1 153	424
France					
Crude	1 098 503	1 021 682	1 031 170	1 032 228	1 030 698
Calcined	110 286	133 174	160 785	201 218	222 961
Germany, Federal Republic of					
Crude & calcined	258 992	289 802	313 452	304 604	333 012
Irish Republic					
Crude	108 268	115 412	103 106	143 352	85 296
Italy					
Crude	16 019	22 690	2 091	1 796	5 054
Calcined	18 170	20 141	16 345	19 001	15 755
Netherlands					
Calcined	898	(b) 134	(b) 205	(b) 484	(b) 478
Austria					
Crude	140 327	157 542	163 177	149 345	106 400
Calcined	2 577	5 799	8 945	17 390	28 851
German Democratic Republic					
Calcined	61 399	71 605	92 963	84 686	139 652
Norway					
Crude (a)	10 756	21 686	8 411	14 026	13 362
Poland	587 154	572 296	531 560	564 097	523 133
Romania	148 400	142 700	117 800	...	...
Spain					
Crude & calcined	4 133	17 775	137 919	146 044	211 540
Switzerland					
Ground & calcined	2 370	4 059	5 593	6 506	5 673
Angola					
Crude	5 343	10 963	13 713	21 495	...
Mauritania	—	—	—	1 995	8 312
Morocco					
Crude	103 904	105 762	130 587	205 020	179 082
Calcined	754	751	1 517	1 535	2 158
South Africa	34 004	41 839	43 710	22 039	10 165
Tanzania	2 350	5 050	3 165	4 218	3 474
Canada					
Crude	4 402 845	4 567 653	5 409 520	5 754 099	5 212 430
Dominican Republic	84 075	(e) 146 000	(e) 105 000	(e) 161 000	(e) 209 000
Jamaica	(e) 242 000	(e) 280 000	(e) 398 000	327 338	(e) 216 000
Mexico					
Crude	1 056 206	1 659 554	1 464 334	1 187 140	1 227 280
Calcined	10	11	17	52 645	10 528
Nicaragua					
Crude	6 864	8 092	...	...	...
USA					
Crude	8 850	9 396	8 135	7 729	12 889
Calcined	27 797	35 320	37 941	49 266	107 164
Argentina	12 240	11 893	12 517	11 217	16 809
Bolivia	500	2 000	2 308	...	3 251
Venezuela	13 350	21 950	14 830	18 600	15 500
Cyprus					
Crude	4 421	—	96	23 171	10 713
Calcined	—	539	20	71	20
Iran (c)					
Calcined	1 851	1 293	2 004	4 197	1 477
Japan					
Crude	5 091	70	60	40	35
Calcined	23 333	6 431	2 477	2 506	2 808

## Exports of Gypsum

	tonnes				
Country	1970	1971	1972	1973	1974
Korea, Republic of					
Crude	...	22 530	20 777	218 901	144 290
Calcined	...	7 577	5 351	144 850	109 280
Saudi Arabia					
Crude & calcined	3 750	3 814	...	...	...
Singapore					
Crude & calcined	311	1 018	1 726	533	815
Syria	41 105	69 895	67 047	37 334	40 714
Thailand	37 904	22 513	7 593	41 724	117 387
Australia (d)					
Crude	204 119	258 195	312 149	295 272	388 348
Calcined	1 598	1 270	1 179	1 864	1 680

(a) Including anhydrite

(b) Excluding exports to Belgium-Luxembourg if any

(c) Years ended March 20 following that stated

(d) Years ended June 30 of that stated

(e) Imports into USA

## Gypsum

## Imports of Gypsum

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Crude & calcined	144 385	135 763	144 080	211 071	122 394
Belgium-Luxembourg					
Crude	428 794	401 908	410 252	377 932	420 162
Calcined	59 787	72 616	72 087	85 322	106 700
Denmark					
Crude	237 577	235 376	222 656	229 628	404 197
Calcined	4 777	4 365	4 483	4 294	4 075
France					
Crude	1 744	1 519	1 282	5 821	5 007
Calcined	2 389	27 815	40 845	1 328	3 282
Germany, Federal Republic of					
Crude & calcined	150 214	179 612	242 262	274 820	285 100
Italy					
Crude	127	157	843	758	190
Calcined	1 609	1 670	1 802	2 003	2 842
Netherlands					
Crude	175 368	(a) 153 720	(a) 168 302	(a) 182 205	(a) 222 981
Calcined	94 312	(a) 97 393	(a) 117 299	(a) 111 726	(a) 116 256
Austria					
Crude	952	993	1 570	1 500	635
Calcined	12 303	19 834	37 015	29 940	24 302
Finland					
Crude	88 003	78 429	98 294	124 838	180 755
Calcined	43 349	31 002	37 550	10 507	3 853
Greece					
Crude	192	35	104	128	213
Calcined	822	721	1 366	1 511	1 239
Iceland	2 871	6 041	5 820	7 719	8 691
Norway					
Crude	187 851	205 307	232 740	241 774	237 187
Calcined	4 352	4 033	4 416	6 361	4 542
Portugal					
Crude	22 520	25 272	30 570	31 877	23 299
Calcined	15	31	59	165	976
Sweden					
Crude	466 507	486 392	480 845	451 271	410 760
Calcined	20 657	18 985	20 939	19 683	17 174
Switzerland					
Crude	57 691	70 912	87 235	93 834	73 797
Ground & calcined	21 457	40 130	48 207	64 832	46 073
Ghana					
Crude & calcined	12 059	19 149	6 195	10 108	17 502
Ivory Coast					
Crude	16 696	26 249	21 440	34 733	32 610
Calcined	2 101	1 939	3 918	—	2 974
Madagascar	5 096	4 569	4 174	...	...
Mozambique					
Crude	7 050	11 477	15 086	22 715	15 391
Calcined	622	109	99	163	8
Senegal					
Crude	5 084	8 879	10 833	8 528	...
South Africa					
Crude & calcined	6 433	5 905	5 949	7 182	6 181
Tunisia					
Calcined	577	602	...	21	40
Zambia	11 822	52 785	33 211	9 256	...
Canada					
Crude	35 271	95 965	56 593	83 725	56 227
Calcined	7 981	9 590	14 734	19 258	15 301
Costa Rica					
Crude	6 561	7 842	11 514	13 865	13 628
Calcined	163	234	247	584	577

## Imports of Gypsum

	tonnes				
Country	1970	1971	1972	1973	1974
El Salvador					
Crude	18	1 271	3 086	3 082	7 500
Calcined	74	101	163	141	93
Mexico (b)					
Crude & calcined	530	436	779	521	477
Panama	5 272	16 265	16 978	14 900	25 050
USA					
Crude	5 559 200	5 528 400	7 002 000	6 949 900	6 734 900
Ground & calcined	1 891	1 800	1 800	1 800	1 800
Brazil					
Crude	1 088	1 788	2 076	1 873	3 484
Colombia					
Crude	10 704	13 090	2 652	9 130	...
Calcined	285	167	105	128	...
Uruguay					
Crude & ground	18 809	23 201	20 512	39 526	...
Venezuela	208	357	429	418	570
Hong Kong	4 872	25 083	15 240	14 797	31 419
Iran (c)	695	523	943	1 026	983
Israel	151	251	106	160	150
Japan					
Crude	77 025	88 262	138 180	206 306	110 657
Calcined	317	445	226	525	253
Korea, Republic of	36 326	61 311	512	577	1737
Kuwait					
Crude & calcined	4 885	8 572	460	15 167	16 304
Lebanon	48 231	70 199	67 497	56 866	...
Malaysia					
Crude & calcined	40 919	30 569	13 095	32 152	54 959
Philippines					
Crude & calcined	11 434	16 845	20 239	44 260	10 631
Singapore					
Crude & calcined	29 204	26 473	38 482	40 773	25 226
Sri Lanka	17 800	19 800	...	10 781	16 257
Taiwan					
Crude	124 446	101 551	141 311	111 873	79 567
Calcined	...	...	905	1 020	14 316
Thailand					
Crude & calcined	470	986	696	185	336
New Zealand (d)					
Crude	103 351	105 282	104 375	...	...
Calcined	1 201	953	1190	...	...

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

(b) Excludes imports through Perimetros Libres

(c) Years ended March 20 following that stated

(d) Years ended June 30 of that stated

## Production of Iron Ore

thousand tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	12 018	10 228	9 049	7 105	3 602
Belgium	93	93	113	116	123
France	56 805	55 862	54 246	54 232	54 260
Germany, Federal Republic of (a)	5 531	5 020	4 825	5 069	4 439
Italy	757	683	616	522	659
Luxembourg	5 722	4 507	4 166	3 782	2 686
Albania	* 540	567	594	600	* 600
Austria	3 997	4 171	4 123	4 211	4 245
Bulgaria	2 409	3 001	3 207	2 773	2 684
Czechoslovakia	1 606	1 609	1 581	1 672	1 688
Finland	585	529	573	586	569
German Democratic Republic	422	318	268	52	53
Hungary	629	687	695	681	545
Norway	4 008	4 056	3 881	3 970	3 908
Poland	2 553	2 078	1 654	1 440	1 296
Portugal	126	99	43	57	24
Romania	3 206	3 467	3 361	3 234	3 265
Soviet Union	195 506	203 004	208 000	216 000	225 000
Spain	7 051	7 308	6 685	7 326	9 120
Sweden	31 518	34 367	33 979	34 727	36 153
Turkey	2 671	2 550	1 992	2 537	2 256
Yugoslavia	3 694	3 728	3 960	4 670	5 034
Algeria	2 863	3 147	3 669	3 135	3 820
Angola	6 091	6 158	4 831	6 052	5 606
Egypt	451	473	427	656	1 302
Liberia	22 294	24 574	22 978	23 541	25 706
Mauritania	9 103	8 457	9 298	10 445	11 741
Morocco	872	623	234	375	569
Rhodesia	* 500	* 550	* 550	* 550	* 600
Sierra Leone (b)	2 427	2 610	2 321	2 205	2 014
South Africa (c)	9 192	10 496	11 223	10 955	11 553
Swaziland	2 552	2 886	2 566	2 145	2 077
Tunisia	774	936	890	809	784
Canada	47 458	42 957	38 735	47 498	46 785
Mexico	4 812	4 354	5 089	5 188	5 900
USA	91 534	82 298	76 645	89 076	85 709
Argentina	239	282	259	237	245
Brazil	36 381	37 486	46 471	55 019	75 190
Chile	11 265	11 225	8 640	9 401	10 271
Colombia	453	442	416	439	444
Peru	12 585	11 603	13 422	10 900	9 600
Venezuela	22 070	20 240	17 327	22 155	25 983
China	* 44 000	* 55 000	* 60 000	* 66 000	* 70 000
Hong Kong	170	163	162	151	160
India	31 366	33 450	35 476	35 562	35 485
Japan (d)	1 574	1 428	1 347	1 007	800
Korea, Dem. P.R. of	* 8 000	* 8 500	* 8 700	* 8 100	* 8 100
Korea, Republic of	635	442	414	466	493
Malaysia	4 491	950	521	517	481
Philippines	1 872	2 250	2 205	2 255	1 608
Thailand	23	42	28	36	36
Australia	51 189	62 063	64 401	84 828	96 950
New Zealand	142	576	1 380	2 182	2 200
World total (e)	768 000	784 000	788 000	860 000	904 000

(a) Marketable production

(b) Exports

(c) Including by-product magnetite

(d) Including iron sand

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



## Exports of Iron Ore

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	105	93	81	103	375
Belgium-Luxembourg					
Iron ore	35 941	75 362	2 983	76 729	69 154
Burnt pyrites	287 019	228 843	158 460	169 113	173 713
Denmark					
Bog ore (a)	20 904	9 716	8 403	6 154	6 033
Burnt pyrites	111 401	98 780	95 527	70 729	22 996
France					
Iron ore	18 643 263	18 303 805	19 071 770	19 454 040	19 833 116
Burnt pyrites	219 076	149 785	120 293	109 357	29 321
Germany, Federal Republic of					
Iron ore	9 548	8 658	4 803	6 130	5 086
Burnt pyrites	11 886	28 573	46 817	192 019	195 784
Irish Republic					
Burnt pyrites	2 191	732	13 963	38 426	29 014
Italy					
Iron ore	77	64	141	108	17 908
Burnt pyrites	439 433	287 082	254 333	166 092	242 110
Netherlands					
Iron ore	97 165	20 712	76 973	497 175	196 285
Burnt pyrites	86 873	28 393	13 120	—	—
Austria	641	600	640	950	1 243
Finland					
Iron ore	181 066	27 251	8 273	—	22
Greece					
Burnt pyrites	74 841	104 216	50 422	36 330	21 200
Norway					
Iron ore	2 963 866	2 742 399	2 918 603	3 162 589	2 657 165
Burnt pyrites	152 812	160 040	164 658	174 524	152 508
Portugal					
Burnt pyrites	9 174	5 475	3	4	42 997
Soviet Union					
Iron ore	36 100 000	36 500 000	40 800 000	41 400 000	43 300 000
Spain (b)	2 659 385	3 089 094	2 734 122	2 141 693	2 961 766
Sweden					
Iron ore	27 971 000	26 179 000	27 610 000	32 917 000	33 105 000
Burnt pyrites	449 000	378 000	457 000	379 000	418 000
Switzerland (b)	5 091	5 506	8 318	3 737	33
Turkey	15 000	...	...	5 370	...
Yugoslavia					
Iron ore	178 864	121 041	—	150	141
Burnt pyrites	84	63	1 783	1 846	909
Algeria	1 975 299	1 834 000	2 300 493	1 255 168	...
Angola	6 334 914	5 497 790	5 046 862	6 329 602	5 271 400
Liberia	23 561 186	20 651 214	22 978 366	25 573 573	25 706 000
Mauritania	9 219 900	8 600 638	8 617 901	10 480 000	16 666 000
Morocco					
Iron ore (b)	801 325	457 029	308 210	490 085	540 497
Sierra Leone	2 427 065	2 609 888	2 320 601	2 404 977	2 014 428
South Africa	3 011 641	3 343 221	2 669 484	3 418 736	2 892 521
Swaziland	2 481 248	2 012 286	2 303 979	2 886 278	2 552 107
Tunisia	628 449	812 243	664 100	423 830	526 354
Canada	39 348 049	34 163 849	29 274 629	37 667 605	37 447 874
Mexico	359	8	24	...	4
USA					
Iron ore & concentrates	5 484 105	3 089 517	2 084 362	2 790 081	2 360 180
Burnt pyrites	95 367	20 430	44 255	784	337
Bolivia (c)	4 217	3 618	1 021	10 364	...
Brazil	28 061 393	31 138 500	30 512 459	44 962 858	59 429 000
Chile	9 908 194	10 303 683	5 454 091	8 121 716	9 390 299
Peru	5 966 890	5 773 679	5 524 264	5 582 010	...
Venezuela	21 094 000	19 162 307	16 912 000	* 21 500 000	* 22 000 000

**Exports of Iron Ore**

	tonnes				
Country	1970	1971	1972	1973	1974
Hong Kong	177 878	179 942	172 686	158 812	179 107
India (d)	21 189 221	19 914 396	20 595 593	23 748 220	22 295 430
Korea, Republic of	514 631	420 837	474 639	260 930	75 994
Malaysia	4 901 037	879 196	370 948	223 802	176 366
Philippines					
Iron ore	1 740 015	2 162 450	2 276 730	1 965 608	1 121 117
Burnt pyrites	91 890	50 841	29 450	42 610	5 000
Singapore	61 712	38 711	13 761	10 630	...
Thailand	52 335	4 500	—	—	—
Australia (e)					
Iron ore (b)	33 818 202	48 347 675	51 196 059	66 293 938	78 290 224
New Zealand	30 985	61 539	598 828	1 580 515	2 102 400

(a) Used for purposes other than iron-making

(b) Including burnt pyrites

(c) Fe content of concentrates

(d) Years ended March 31 following that stated

(e) Years ended June 30 of that stated

## Imports of Iron Ore

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Iron ore	19 909 049	17 456 919	17 360 604	22 868 240	19 951 686
Burnt pyrites	266 631	281 997	360 844	237 258	289 959
Belgium-Luxembourg					
Iron ore	29 168 655	28 151 800	28 078 151	32 416 545	33 429 641
Burnt pyrites	155 696	132 409	134 614	568 413	496 740
Denmark (a)	7 176	7 258	15 589	37 294	29 350
France					
Iron ore	9 635 144	9 369 637	11 558 605	11 529 581	15 821 542
Burnt pyrites	58 644	68 473	89 112	114 006	131 826
Germany, Federal Republic of					
Iron ore	47 818 360	40 321 893	40 669 611	50 324 885	57 719 818
Burnt pyrites	1 562 434	1 184 076	1 194 513	751 729	791 555
Irish Republic	328	354	750	...	...
Italy	10 857 341	11 157 600	13 307 866	14 194 166	18 132 648
Netherlands	5 415 900	5 991 261	5 666 276	6 973 245	7 061 432
Austria					
Iron ore	2 111 757	1 842 355	1 504 204	1 969 938	2 799 808
Burnt pyrites	238 242	275 967	176 192	141 411	211 160
Czechoslovakia	12 724 000	12 592 000	13 152 000	13 211 000	13 985 000
Finland	743 631	895 359	770 630	947 840	1 133 316
German Democratic Republic (b)	1 489 600	1 560 700	1 601 400	1 774 500	1 802 400
Greece	552 732	432 147	426 770	854 093	1 025 382
Hungary	3 118 626	3 156 000	3 526 000	3 712 000	4 105 000
Norway	100 615	10 186	13 435	43 802	35 821
Poland	11 843 000	12 430 000	12 548 000	13 668 000	15 609 000
Portugal	194 691	340 723	366 000	489 000	387 361
Romania	6 267 800	6 939 400	7 614 800	9 501 000	10 001 800
Spain	2 431 064	3 247 955	4 146 712	5 115 752	5 280 498
Sweden					
Iron ore	134 000	2 000	—	—	82 000
Burnt pyrites	3 000	6 000	1 000	—	—
Switzerland (a)	33 573	49 377	28 729	28 466	39 489
Turkey	...	150 857	245 210	301 027	...
Yugoslavia	211 556	194 978	282 709	389 870	430 529
Kenya	9 398	100	10	...	2
Morocco (a)	1 250	955	3 755	...	...
Canada	2 159 704	1 383 545	1 752 510	2 689 389	2 333 194
Mexico	184 525	87 444	109 667	74 671	37 203
USA					
Iron ore (a)	45 611 400	40 768 078	36 334 576	44 026 597	48 799 831
Argentina	643 344	1 591 970	1 029 173	1 235 293	1 003 483
India (c)	295	231	218	387	210
Japan					
Iron ore	102 070 384	114 913 877	111 501 442	134 723 787	141 950 764
Burnt pyrites	19 647	37 243	18 120	...	68
Korea, Republic of	75 347	31 245	20 200	467 568	1 394 791
Singapore	37 926	62 133	2 952	50 522	10 134
Taiwan	73 359	100 105	81 615	132 029	143 862
Australia (d)	181	2 393	5 895	2 493	13 919

(a) Including burnt pyrites

(b) Fe content of concentrates

(c) Years ended March 31 following that stated

(d) Years ended June 30 of that stated

## Production of Pig-Iron &amp; Blast-Furnace Ferro-Alloys

thousand tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	17 671	15 416	15 316	16 839	13 90
Belgium	10 845	10 407	11 900	12 655	13 02
France (a)	19 221	18 344	19 001	20 295	22 51
Germany, Federal Republic of	33 628	29 990	32 003	36 828	40 22
Italy	8 354	8 554	9 446	10 097	11 76
Luxembourg	4 814	4 588	4 670	5 089	5 46
Netherlands	3 594	3 759	4 289	4 707	4 80
Austria (a)	2 970	2 855	2 846	3 006	3 44
Bulgaria	1 202	1 335	1 518	1 566	1 48
Czechoslovakia	7 652	8 073	8 476	8 656	8 90
Finland	1 223	1 034	1 207	1 452	1 38
German Democratic Republic	1 994	2 027	2 151	2 202	2 28
Hungary	1 835	1 988	2 064	2 120	2 29
Norway (a)	678	627	647	700	66
Poland	6 984	7 186	7 423	7 730	7 78
Portugal	315	361	377	396	26
Romania	4 210	4 382	4 890	5 713	6 08
Soviet Union	85 933	89 254	92 300	95 933	99 86
Spain	4 278	4 955	6 092	6 270	6 90
Sweden	2 609	2 573	2 355	2 561	2 96
Switzerland	28	32	28	27	3
Turkey	1 033	883	1 135	896	1 31
Yugoslavia (a)	1 275	1 514	1 820	1 955	2 20
Egypt	454	* 450	* 300	* 250	* 30
Rhodesia	* 280	* 280	* 290	* 290	* 30
South Africa	3 975	4 071	4 478	4 389	4 62
Canada (a)	8 220	7 816	8 495	9 535	9 58
Mexico	2 353	2 428	2 772	2 796	3 19
USA (a)	82 819	73 829	80 267	91 913	86 84
Argentina	826	886	868	836	1 08
Brazil	4 216	4 764	5 300	5 471	5 84
Chile (b)	46	500	487	458	51
Colombia (b)	231	243	288	264	* 25
Peru (b)	86	143	163	258	* 30
Venezuela (b)	510	515	536	534	54
China (c)	* 22 000	* 27 000	* 30 000	* 33 000	* 35 00
India	7 034	6 697	7 207	7 369	7 34
Japan	68 050	72 745	74 055	90 007	90 43
Korea, Dem. P.R. of	* 2 400	* 2 500	* 2 600	* 2 700	* 3 00
Korea, Republic of	50	17	18	482	1 02
Sri Lanka	61	84	88	158	* 10
Thailand	11	14	12	14	2
Taiwan	56	77	81	150	11
Australia (a)	6 148	6 128	6 491	7 658	7 25
World total	432 000	431 000	457 000	506 000	517 00

(a) Pig-iron only

(b) Including ferro-alloys if any produced

(c) Includes ferro-alloys

(d) Including electric-furnace ferro-alloys if any

## Production of Steel Ingots &amp; Castings

thousand tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	28 316	24 174	25 321	26 649	22 426
Belgium	12 606	12 444	14 537	15 528	16 232
Denmark	473	471	505	449	535
France	23 773	22 859	24 054	25 264	27 024
Germany, Federal Republic of	45 041	40 313	43 705	49 521	53 232
Irish Republic	78	...	77	116	112
Italy	17 277	17 452	19 815	20 995	23 804
Luxembourg	5 462	5 241	5 452	5 924	6 449
Netherlands	5 042	5 083	5 585	5 624	5 840
Austria	4 079	3 960	4 070	4 238	4 698
Bulgaria	1 800	1 947	2 121	2 098	2 188
Czechoslovakia	11 480	12 064	12 727	13 158	13 640
Finland	1 169	1 025	1 456	1 615	1 656
German Democratic Republic	5 053	5 350	5 670	5 892	6 165
Greece	450	477	671	671	612
Hungary	3 157	3 161	3 273	3 327	3 368
Norway	870	863	916	963	908
Poland	11 792	12 738	13 746	14 057	14 566
Portugal	385	412	425	460	463
Romania	6 517	6 803	7 401	8 161	8 840
Soviet Union	115 886	120 637	125 589	131 459	135 996
Spain	7 388	8 025	9 530	10 490	11 256
Sweden	5 496	5 281	5 249	5 627	5 972
Switzerland	524	532	543	585	593
Turkey (a)	1 312	1 122	1 442	1 492	1 458
Yugoslavia	2 228	2 453	2 588	2 676	2 837
Egypt	227	* 500	3 554	4 036	7 750
Rhodesia (a)	* 163	* 160	* 200	* 300	* 300
South Africa (b)	4 668	4 920	5 340	5 628	5 832
Canada	11 200	11 040	11 860	13 386	13 623
Mexico	3 840	3 774	4 431	4 760	* 5 000
USA (c)	119 308	109 264	120 874	136 803	131 988
Argentina (a)	1 774	1 855	1 869	1 870	* 2 000
Brazil	5 390	6 011	6 518	7 150	7 502
Chile (a)	547	610	581	508	596
Colombia	239	247	275	263	244
Peru	94	179	181	360	* 300
Uruguay	16	15	13	12	* 10
Venezuela	927	924	1 128	907	895
Burma	* 21	* 21	* 20	* 20	* 20
China	* 18 000	* 21 000	* 23 000	* 25 000	* 25 000
India	6 232	6 322	6 842	6 882	6 820
Israel	* 120	* 120	* 120	* 120	* 120
Japan	93 322	88 558	96 900	119 323	117 131
Korea, Dem. P.R. of	* 2 200	* 2 400	* 2 500	* 2 600	* 2 600
Korea, Republic of	481	472	585	1 157	1 935
Taiwan	294	392	457	507	563
Thailand	40	120	182	190	220
Australia (d)	6 822	6 737	6 743	7 682	7 755
World total	594 000	581 000	631 000	697 000	709 000

(a) Ingots only

(b) Excluding castings

(c) Excludes castings produced by manufacturers not manufacturing steel ingots

(d) Includes recovery from scrap

## Production of Ferro-alloys

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Blast furnace ferro-alloys					
Spiegeleisen	12 000	18 000	11 000	15 000	8 000
Ferro-manganese	159 000	135 000	141 000	145 000	83 000
France					
Blast furnace ferro-alloys-					
Spiegeleisen & ferro-					
manganese	486 456	445 000	449 000	544 000	533 000
Electric furnace & alumino-					
thermic ferro-alloys-					
Ferro-silicon (50% Si)	172 000	182 912	187 255	339 408	236 600
Silico-spiegeleisen and					
silico-manganese	15 140	13 142	12 090	9 732	8 472
Ferro-chrome and silico-					
chrome	102 440	143 424	110 753	109 044	114 500
Ferro-tungsten, ferro-					
molybdenum, ferro-					
vanadium (a)	10 430	7 030	5 684	6 784	9 550
Other ferro-alloys	54 200	55 380	83 882	78 338	82 520
Germany, Federal Republic of					
Spiegeleisen & ferro-					
manganese	251 000	210 000	210 000	247 000	320 000
Electric furnace ferro-					
alloys	269 000	234 000	218 000	265 000	283 000
Italy					
Spiegeleisen	3 881	4 553	2 619	4 358	5 203
Ferro-manganese	27 584	23 858	40 977	71 616	80 078
Ferro-silicon	78 014	83 432	73 381	75 400	67 301
Silico-manganese	34 913	27 818	28 798	32 633	41 100
Ferro-chrome	36 356	36 292	41 593	37 033	40 041
Ferro-titanium	601	673	1 049	876	1 049
Ferro-vanadium	93	218	478	710	370
Ferro-molybdenum	1 548	795	1 563	3 366	3 207
Silicon metal	20 220	21 700	21 250	21 070	16 190
Silicon-aluminium	812	398	—	—	—
Silicon-pig iron (10-12% Si)	2 489	1 864	2 162	2 807	2 959
Silico-spiegeleisen	2 115	2 232	1 502	952	1 780
Silico-chrome	—	475	32	—	—
Calcium-silicide	4 891	5 566	5 999	5 950	5 272
Ferro-phosphorus	1 089	865	606	516	454
Austria					
Electric furnace ferro-					
alloys	5 700	5 300	5 700	6 300	6 300
Czechoslovakia					
Blast furnace ferro-alloys	27 000	19 000	28 000	27 000	...
Electric furnace ferro-					
alloys	104 000	122 000	116 000	122 000	127 000
Greece					
Ferro-nickel (d)	8 642	10 573	11 270	13 946	15 060
Hungary					
Ferro-manganese	6 006	7 431	19 498	16 595	...
Ferro-silicon	7 271	7 042	6 784	6 807	7 755
Norway					
Ferro-manganese	158 913	227 171	226 664	235 451	335 642
Ferro-silicon	244 102	242 974	239 797	304 099	310 098
Silico-manganese	129 861	140 560	155 449	106 825	187 443
Ferro-chrome & silico-chrome	35 614	35 550	31 185	31 811	31 550
Other ferro-alloys	11 451	9 809	10 790	13 560	9 529
Portugal					
Ferro-manganese	1 170	200	...	...	24 420
Ferro-silicon	5 932	6 920	12 996	...	...
Ferro-tungsten	307	...	336	331	...

## Production of Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Soviet Union					
Spiegeleisen	102 000	124 000	...	83 000	107 000
Ferro-manganese	968 000	856 000	...	888 000	859 000
Other blast furnace-ferro-alloys	54 000	27 000	...	25 000	26 000
Spain					
Ferro-manganese	58 799	62 800	84 630	77 687	76 621
Ferro-silicon	29 255	34 090	38 310	44 157	53 513
Other ferro-alloys	24 180	32 780	49 360	118 950	...
Sweden					
Ferro-manganese	31 800	36 850	34 857	16 289	—
Ferro-silicon	46 800	40 892	57 776	57 885	51 813
Silico-manganese	32 700	41 143	36 656	17 571	9 910
Ferro-chrome	63 700	63 763	58 295	80 399	103 997
Ferro-tungsten	500	513	515	890	585
Ferro-molybdenum	3 500	2 832	1 688	1 988	2 035
Ferro-vanadium	700	431	565	402	456
Silicon metal	12 100	13 266	17 959	19 381	...
Silico-chrome	54 000	49 453	48 333	50 238	45 008
Yugoslavia					
Ferro-alloys	102 000	115 712	131 049	154 260	189 791
South Africa					
Ferro-alloys	399 200	445 700	486 900	554 800	633 400
Canada					
Ferro-alloys (b)	189 965	192 958	227 400	202 212	247 934
Dominican Republic					
Ferro-nickel (d)	—	399	17 411	30 073	31 200
Mexico					
Ferro-manganese	55 919	54 814	47 846	54 535	} 88 000
Ferro-silicon	11 187	10 924	14 916	14 634	
Silico-manganese	6 101	5 991	11 929	12 306	
Ferro-chrome	1 737	1 698	1 975	—	
USA					
Ferro-manganese	757 919	689 366	726 404	619 675	493 836
Silico-manganese	175 285	149 397	139 012	166 652	177 935
Ferro-silicon	643 454	623 387	763 293	796 325	821 226
Silvery pig-iron	178 143	155 834	147 937	122 478	...
Chromium alloys	368 114	322 648	319 606	387 228	403 389
Ferro-phosphorus	148 875	91 946	118 256	117 613	96 602
Ferro-niobium	1 143	753	1 053	1 059	1 065
Ferro-titanium	3 049	3 052	3 312	1 619	...
Other ferro-alloys (e)	78 333	78 316	73 244	73 417	61 636
Argentina					
Ferro-manganese	11 290	8 739	16 353	14 341	15 337
Ferro-silicon	9 620	10 790	15 548	14 414	15 690
Other ferro-alloys	2 967	3 373	3 346	4 368	5 557
Brazil					
Ferro-chrome	3 296	10 436	11 635	15 756	33 932
Ferro-manganese	42 803	72 038	72 763	62 657	76 971
Ferro-nickel	10 844	10 512	10 193	9 505	9 849
Ferro-silicon	18 319	13 377	23 917	37 546	50 169
Silico-manganese	15 436	18 747	17 121	23 228	35 267
Ferro-niobium	1 891	1 196	2 782	5 712	6 800
Chile					
Ferro-manganese	4 716	6 318	} 14 000	14 000	...
Ferro-silicon	2 689	3 298			
Silico-manganese	3 200	2 239			
Ferro-molybdenum	1 020	905			
India					
Ferro-manganese	175 612	162 342	160 020	141 063	145 969
Ferro-silicon	27 590	29 472	31 481	24 264	29 682
Ferro-chrome	15 364	12 314	1 525	6 633	15 300

**Production of Ferro-alloys**

	tonnes				
Country	1970	1971	1972	1973	1974
Japan					
Ferro-chrome	362 000	403 000	303 000	443 000	542 000
Ferro-manganese	444 000	534 000	553 000	617 000	624 000
Ferro-nickel	265 000	286 000	189 000	200 000	251 000
Ferro-silicon	302 000	322 000	309 000	354 000	369 000
Silico-manganese	270 000	325 000	343 000	376 000	448 000
Other ferro-alloys	24 000	95 000	32 000	25 000	33 000
Australia (c)					
Ferro-chrome	2 169	313	1 396	2 802	3 351
Ferro-manganese	42 569	38 852	56 631	40 066	42 660
Ferro-silicon	9 406	9 960	9 271	8 361	8 982
Ferro-nickel	1 357	349	—	—	—
Silico-manganese (60% Mn)	23 188	21 316	16 607	24 853	21 573
New Caledonia					
Ferro-nickel (d)	27 965	29 881	36 171	35 759	* 48 500

(a) W, Mo, V content

(b) Factory shipments

(c) Years ended November 30 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	1970	1971	1972	1973	1974
United Kingdom					
Pig-iron -					
Forge & foundry	10 047	2 697	1 595	254	20 435
Other including refined	55 423	14 074	10 363	8 300	11 300
Iron & steel powders, shot & sponge	23 635	24 620	24 785	25 236	30 706
Ferro-silico-chrome	3 080	2 147	1 317	676	2 314
Ferro-manganese	2 262	308	236	173	1 087
Ferro-molybdenum	1 680	602	604	1 063	1 597
Ferro-niobium & ferro- niobium-tantalum	206	321	314	611	831
Ferro-titanium	1 568	1 204	1 692	2 217	3 058
Ferro-tungsten	2 294	3 825	2 533	2 480	3 457
Ferro-vanadium	56	111	63	22	62
Other ferro-alloys	3 479	5 453	5 110	4 030	7 497
Ingots, blooms, billets	144 736	192 173	240 306	194 594	223 884
Old & scrap (a)	409 352	1 022 130	1 091 600	740 115	312 036
Belgium-Luxembourg					
Pig-iron	18 565	16 362	9 564	17 172	11 126
Spiegeleisen	4 324	960	777	1 388	514
Ferro-manganese	69 405	54 768	56 738	59 210	58 387
Ferro-titanium & ferro- silico-titanium	21	341	735	1 134	2 615
Ferro-tungsten	44	...	7	155	254
Other ferro-alloys	4 786	6 019	6 425	27 681	14 842
Ingots	59 479	23 339	18 022	124 744	201 285
Blooms & billets	738 304	659 531	795 311	986 861	1 046 847
Old & scrap	741 312	458 373	393 957	559 075	726 571
Denmark					
Blooms & billets	2 942	2 246	868	16 436	12 113
Old & scrap	22 518	34 375	88 359	112 171	129 617
France					
Pig-iron	148 826	144 656	110 490	185 685	358 788
Spiegeleisen	2 906	831	714	1 286	123
Ferro-chrome	11 389	14 982	7 393	10 206	4 963
Ferro-manganese	300 386	238 693	303 362	374 877	397 743
Ferro-molybdenum	934	275	568	230	306
Ferro-nickel	15 142	24 670	37 186	50 102	74 013
Ferro-titanium	3 287	1 951	2 588	2 610	2 730
Ferro-tungsten	263	473	596	642	832
Ferro-vanadium	147	81	252	288	516
Ferro-silicon	47 403	45 426	55 204	82 098	106 213
Other ferro-alloys	43 643	35 545	43 893	53 975	67 077
Ingots	140 219	128 107	112 266	125 948	96 972
Blooms & billets	619 576	629 520	576 972	412 889	349 894
Old & scrap	2 636 874	2 740 807	3 079 920	2 787 530	3 724 123
Germany, Federal Republic of					
Pig-iron	881 397	775 994	819 329	1 164 838	1 360 934
Spiegeleisen	15 523	3 047	13 204	2 122	4 445
Ferro-chrome & ferro- silico-chrome	33 145	33 022	36 011	38 450	42 189
Ferro-manganese	39 133	38 165	32 317	47 092	78 614
Ferro-molybdenum	671	964	348	469	431
Ferro-vanadium	641	724	966	821	737
Other ferro-alloys	23 561	26 596	23 857	26 801	41 088
Ingots, blooms, billets	717 782	1 219 372	956 298	1 038 155	793 320
Old & scrap	2 208 768	2 142 809	2 099 052	2 265 016	2 475 126
Irish Republic					
Old & scrap	11 540	9 863	11 695	12 683	11 196

## Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
<b>Italy</b>					
Pig-iron	5 217	1 251	3 065	2 880	2 819
Ferro-chrome	6 006	6 034	13 130	10 833	10 181
Ferro-manganese	6 177	5 874	8 744	6 084	11 667
Ferro-silico-manganese	575	243	129	109	874
Ferro-molybdenum	868	514	948	1 926	1 872
Ferro-vanadium	20	72	197	342	248
Ferro-silicon	2 340	3 099	4 218	2 957	1 843
Other ferro-alloys	792	415	1 199	1 307	777
Ingots, blooms, billets	48 698	32 451	212 467	141 768	183 120
Scrap	13 755	9 052	14 500	9 777	7 063
<b>Netherlands</b>					
Pig-iron	1 594	700	413	153 629	55 750
Sponge iron & powder	6	24	98	274	76
Ferro-vanadium	126	(f) 541	(f) 564	(f) 570	(f) 480
Other ferro-alloys	305	823	1 233	5 699	5 537
Ingots, blooms, billets	152 424	205 177	151 099	156 152	548 542
Old & scrap	815 038	666 906	664 102	1 120 730	1 373 067
<b>Austria</b>					
Pig-iron	25 060	11 700	7	20 209	20 762
Ferro-alloys	5 356	4 081	5 852	6 685	7 606
Ingots & blooms	2 136	1 172	1 307	7 763	85 217
Scrap	6 309	4 498	12 883	7 008	12 865
<b>Finland</b>					
Pig-iron	315 017	192 723	163 395	141 688	169 835
Ferro-chrome & ferro-silico-chrome	29 465	26 390	25 547	38 818	44 573
Blooms & billets	204 667	179 291	262 734	299 096	240 252
Old & scrap	4 402	3 194	11 133	6 383	8 545
<b>Greece</b>					
Ferro-nickel	15 636	3 661	22 161	71 296	81 569
<b>Hungary</b>					
Pig-iron	48 584	128 921	157 167	206 781	281 203
<b>Iceland</b>					
Scrap	1 510	1 157	3 022	3 345	5 276
<b>Malta</b>					
Scrap	11 236	3 646667=	7 054	8 668	9 173
<b>Norway</b>					
Pig-iron	149 711	126 983	103 960	140 166	120 986
Ferro-chrome & ferro-silico-chrome	33 949	25 189	33 713	29 816	27 558
Ferro-manganese	155 077	187 542	210 284	225 254	309 365
Ferro-silicon	216 441	190 112	212 366	278 363	308 848
Ferro-silico-manganese	127 267	130 824	145 613	162 848	189 658
Ferro-vanadium	518	446	543	694	658
Other ferro-alloys	1 782	340	440	448	686
Ingots, blooms, billets	167 333	180 889	185 583	231 246	212 418
Old & scrap	34 976	18 421	15 518	24 538	34 446
<b>Poland</b>					
Pig-iron	366 633	90 459	28 202	9 960	3 165
Ferro-alloys	1 439	1 002			
<b>Portugal</b>					
Pig-iron	30	140	4	729	343
Ferro-tungsten	273	274	355	328	378
Other ferro-alloys	6 599	4 892	8 968	10 396	9 997
Old & scrap	5 988	2 707	19 256	50 109	2 501
<b>Soviet Union</b>					
Pig-iron	4 814 800	5 049 100	5 082 300	5 207 700	4 910 300
Ferro-chrome	44 800	42 300	48 700	46 400	46 400
Ferro-manganese	118 500	374 000	129 700	135 000	118 300
Ferro-silicon	124 900	124 000	139 300	148 400	151 400
Ferro-vanadium	1 200	1 200	1 300	1 200	1 600
Scrap	1 400 000	1 700 000	1 600 000	1 800 000	1 500 000

## Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Spain					
Pig-iron	20 465	8	1	103	29
Ferro-chrome	3 392	5 523	4 532	11 025	8 381
Ferro-silicon	1 479	793	5 238	4 390	15 365
Other ferro-alloys	1 495	3 537	26 054	44 736	59 422
Ingots, blooms, billets	29 361	76 050	517 454	833 296	23 668
Sweden					
Pig-iron	1 620	3 031	6 216	42 941	207 018
Sponge iron	9 738	8 636	9 838	9 062	10 828
Ferro-manganese	9 266	13 548	14 897	14 772	3 200
Ferro-silicon	19 654	18 066	22 447	32 421	32 634
Ferro-silico-manganese	800	6 529	741	2 870	6 462
Ferro-chrome & ferro-silico-chrome	27 939	25 053	28 397	32 920	41 430
Ferro-molybdenum	929	785	484	809	906
Ferro-tungsten	1	12	31	95	174
Other ferro-alloys	465	229	336	484	661
Ingots, blooms, billets	87 820	71 349	80 539	93 641	192 793
Old & scrap	14 538	12 890	11 711	12 447	10 624
Switzerland					
Pig-iron	1	141	12	21	302
Ferro-alloys	12 270	6 568	9 342	3 646	2 028
Old & scrap	26 695	30 016	92 342	109 421	116 999
Turkey					
Ferro-chrome	7 484	3 481	12 421	10 297	...
Yugoslavia					
Pig-iron	—	40	106 213	321 795	353 582
Ferro-chrome	10 158	6 726	21 188	25 844	33 057
Ferro-manganese	1 200	—	7 000	4 677	4 552
Ferro-silico-manganese	14 445	12 954	11 292	8 380	10 411
Ferro-silicon	21 986	22 224	30 847	43 836	57 003
Ingots, blooms, billets	15 194	1 540	2 452	47 873	21 985
Scrap	5 072	5 025	4 152	7 083	9 635
Ivory Coast					
Scrap	11 229	4 352	11 858	...	33 114
Kenya					
Scrap	6 804	1 791	2 729	5 996	4 707
Morocco					
Old & scrap	43 392	30 775	34 866	61 015	79 650
Mozambique					
Scrap	12 468	12 025	13 364	8 334	10 087
Nigeria					
Scrap	12 536	17 082	911	282	628
Senegal					
Scrap	9 341	9 066	9 192	11 917	...
South Africa					
Pig-iron	454 786	371 863	495 176	442 203	...
Ferro-manganese	213 424	170 069	230 106	276 269	...
Ferro-silicon	10 531	8 528	25 104	36 474	...
Ferro-chrome	87 828	88 903	151 862	175 193	...
Other ferro-alloys	11 009	5 987	12 095	25 388	...
Ingots, blooms, billets	19 371	7 151	8 095	90 807	...
Scrap	12 164	6 501	5 442	733	...
Sudan					
Scrap	5 042	2 000	6 484	3 927	...
Tanzania					
Scrap	3 005	967	1 198	655	299
Tunisia					
Pig-iron	18 157	3 310	850	15 518	7 116
Ingots, blooms, billets	11 668	8 230	23 433	59 571	39 347
Scrap	16 974	4 581	4 896	3 896	1 974

## Exports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Canada					
Pig-iron	583 136	498 456	625 070	582 401	517 441
Ferro-manganese	510	346	2 067	3 024	10 175
Ferro-silicon	45 345	48 217	48 348	46 574	46 002
Other ferro-alloys	3 715	3 141	2 679	5 803	3 455
Ingots, blooms, billets	150 492	183 093	117 431	123 804	238 916
Old & scrap	632 620	391 149	421 903	628 712	254 437
Tin-plate scrap	21 957	21 474	12 761	7 052	8 593
Trinidad & Tobago					
Old & scrap	16 596	4 134	11 528	8 037	13 818
USA					
Pig-iron	280 995	30 993	13 624	13 753	91 246
Spiegeleisen	790	761	628	965	497
Powders & sponge	16 054	12 909	27 112	36 320	74 390
Ferro-phosphorus	30 034	31 852	1 070	17 264	3 335
Ferro-manganese	19 728	4 106	6 207	7 778	6 360
Ferro-chrome	25 739	8 313	11 667	13 757	6 573
Ferro-molybdenum	914	614	412	1 009	1 857
Ferro-vanadium	1 954	613	244	1 284	1 211
Ferro-silicon	40 546	23 139	6 683	14 500	5 965
Other ferro-alloys	18 111	9 893	14 113	20 256	16 486
Steel ingots, slabs, blooms, billets & sheet bars (b)	2 823 069	794 381	377 330	496 256	731 182
Scrap (c)	9 402 810	5 675 716	6 697 342	10 211 320	7 889 014
Argentina					
Ingots, blooms, billets	336	3	47 432	42 664	6 208
Brazil					
Pig-iron	165 842	112 919	255 712	428 040	...
Ferro-manganese	4 570	6 361	22 720	21 413	...
Ferro-nickel	7 400	5 572	7 195	3 368	3 000
Other ferro-alloys	1 417	8 948	13 490	19 415	...
Chile					
Ferro-manganese	629	905	—	1 745	514
Ferro-silicon	150	470	—	...	...
Ferro-molybdenum	1 023	940	836	770	1 048
Ingots, blooms, billets	6 480	21 299	4 773	...	...
Venezuela					
Ingots	165 584	84 545	...	...	51 669
Hong Kong					
Old & scrap	195 534	147 889	174 443	189 054	245 795
Tin plate scrap	2 334	1 892	1 999	4 027	2 167
India (d)					
Pig-iron	502 033	203 448	416 901	441 361	142 758
Ferro-manganese	90 405	17 707	75 130	26 572	28 530
Ingots, blooms, billets	58 197	411	11 109	7 286	22 770
Old & scrap	230 356	146 028	78 538	111 666	102 285
Iraq					
Scrap	24 359	7 836	1 672	250	...
Israel					
Scrap	2 129	1 649	200	56	150
Japan					
Pig-iron	48	432 747	381 744	108 183	72 070
Ferro-chrome	1 963	27 566	22 977	17 214	57 578
Ferro-manganese	8 359	19 225	50 742	26 412	54 265
Ferro-silicon	1 337	10 041	2 703	1 781	22 574
Ferro-silico-manganese	1 226	4 602	7 020	1 433	36 002
Ferro-nickel	—	2 232	19 053	1	2 274
Ferro-titanium	591	301	405	72	196
Ferro-vanadium	—	42	188	150	115
Other ferro-alloys	2 560	4 333	3 505	3 248	4 063
Ingots, blooms, billets	467 600	1 090 673	284 370	779 611	629 006
Scrap	82 804	373 133	221 588	208 381	301 163

## Exports of Iron, Steel and Ferro-alloys

	tonnes				
Country	1970	1971	1972	1973	1974
Kuwait					
Scrap	53 827	27 870	18 429	51 680	72 072
Lebanon					
Scrap	62 208	45 818	23 615	53 199	...
Malaysia					
Scrap	15 717	5 385	1 995	4 934	5 516
Saudi Arabia					
Scrap	24 758	15 202	...	...	...
Singapore					
Pig-iron	217	95	298	3 073	6 934
Ingots & blooms	1 639	3 614	2 143	7 122	15 676
Scrap	4 909	565	4 237	1 070	1 945
Syria					
Scrap	13 782	8 369	3 913	8 050	11 205
Taiwan					
Pig-iron	1 100	300	20 250	224	243
Ferro-manganese	1 110	3 494	2 862	1 254	1 957
Ferro-silicon	4 436	6 364	9 364	4 388	19 290
Ingots, blooms, billets	17 001	5 411	34 807	899	5 068
Scrap	33 837	11 710	59 952	8 374	43 072
Australia (e)					
Pig-iron	290 411	389 360	527 853	687 054	935 079
Ferro-alloys	182	2 540	222	180	465
Ingots, blooms, billets	450 623	117 206	296 257	745 918	768 480
Old & scrap	518 160	458 892	544 568	538 425	569 286
Tin-plate scrap	11 097	9 420	8 149	4 226	5 588
New Caledonia					
Ferro-nickel	111 944	116 324	155 576	136 587	181 321
New Zealand (e)					
Scrap	7 099	8 323	3 412	3 662	2 510

- (a) Excluding ships intended for breaking up  
 (b) Including alloys  
 (c) Including tin-plate and terne-plate scrap  
 (d) Years ended March 31 following that stated  
 (e) Years ended June 30 of that stated  
 (f) Excludes exports from Belgium-Luxembourg if any

## Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Pig-iron -					
Forge & foundry	7 644	28 526	16 442	4 124	10 427
Hematite	54 461	44 313	56 261	74 294	62 414
Basic	16 414	28 320	66 876	3 250	44 941
Other	19 304	41 207	37 173	45 448	
Sponge iron	12 755	10 992	14 825	13 064	14 109
Ferro-chrome	70 109	53 326	29 578	43 388	...
Ferro-silico-chrome	8 522	4 503	8 064	7 720	5 555
Ferro-silicon	124 829	102 535	120 155	118 251	77 464
Ferro-manganese	75 913	78 505	91 775	79 682	124 396
Ferro-silico-manganese	28 488	24 422	22 132	22 511	20 432
Ferro-molybdenum	1 138	704	525	867	727
Ferro-nickel	8 595	984	4 650	11 670	17 612
Ferro-niobium	573	267	493	885	429
Ferro-tungsten	221	103	113	149	218
Ferro-vanadium	1 336	200	201	595	462
Other ferro-alloys	11 910	9 390	13 012	12 510	13 695
Iron & steel ingots	197 285	18 380	3 389	15 648	13 587
Blooms, billets, slabs	827 557	383 347	308 786	127 927	123 934
Old & scrap (a)	264 988	293 435	39 967	222 844	139 548
Belgium-Luxembourg					
Pig-iron	233 603	159 882	158 909	234 287	232 828
Sponge iron	240	340	338	257	3 336
Spiegeleisen	18 075	1 929	884	342	263
Ferro-chrome & ferro-silico-chrome	14 988	15 200	16 717	30 891	28 347
Ferro-manganese	86 976	84 425	98 033	113 937	121 951
Ferro-silico-manganese	10 062	9 452	10 545	17 475	20 224
Ferro-molybdenum	158	168	90	258	466
Ferro-nickel	491	1 047	1 585	4 278	5 989
Ferro-titanium	308	349	363	425	736
Ferro-tungsten	41	20	12	31	52
Ferro-vanadium	50	133	79	131	177
Ferro-silicon	37 690	29 568	33 842	37 376	41 352
Other ferro-alloys	2 394	1 944	2 836	3 531	4 377
Ingots	139 956	130 086	197 103	310 744	261 211
Blooms & billets	281 852	143 442	263 638	258 438	259 874
Old & scrap	836 345	629 563	826 369	687 836	1 239 902
Denmark					
Pig-iron	30 484	15 195	47 746	76 174	71 096
Ferro-chrome & ferro-silico-chrome	721	1 067	1 028	815	997
Ferro-manganese	7 899	8 397	8 340	9 271	6 038
Ferro-silico-manganese	3 007	3 073	1 797	2 021	3 005
Ferro-molybdenum	19	27	20	16	28
Ferro-silicon	5 315	4 485	4 144	3 824	3 924
Other ferro-alloys	1 092	679	1 110	216	276
Ingots, blooms, billets	172 101	133 003	124 000	78 331	64 529
Old & scrap	27 294	2 533	2 887	4 011	4 322
France					
Pig-iron -					
Hematite	122 542	175 673	334 777	374 883	285 171
Other	10 435	63 407	40 051	10 698	4 821
Sponge iron	3 197	2 488	4 569	18 469	22 685
Spiegeleisen	4 240	20	475	662	1 101
Ferro-chrome	10 239	6 962	12 132	16 616	24 322
Ferro-manganese	27 726	25 621	26 199	39 332	42 136
Ferro-nickel	90 611	82 806	100 668	93 247	121 824
Ferro-silicon	2 057	584	3 481	3 736	3 835
Other ferro-alloys	2 519	1 328	3 583	4 261	5 165
Ingots	255 938	280 164	33 327	106 612	106 205
Blooms, billets	481 978	341 172	502 262	429 382	488 462
Old & scrap	418 101	250 876	238 533	435 669	326 980

## Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Germany, Federal Republic of					
Pig-iron	165 726	142 608	184 237	227 941	188 810
Spiegeleisen	209	246	4 105	1 498	351
Ferro-chrome	54 084	49 018	63 997	79 405	80 826
Ferro-silico-chrome	16 056	14 773	16 670	19 585	21 637
Ferro-manganese	162 219	125 546	160 787	181 902	166 811
Ferro-molybdenum	1 241	676	1 916	2 312	3 665
Ferro-nickel	20 754	15 364	30 304	54 530	56 026
Ferro-vanadium	921	1 205	1 346	1 344	1 371
Ferro-silicon	137 131	104 761	128 616	144 639	133 978
Ferro-silico-manganese	73 528	61 800	58 706	74 756	73 357
Other ferro-alloys	11 621	8 908	11 915	11 857	7 864
Ingots, blooms, billets	1 162 866	498 104	820 540	1 113 187	1 290 926
Old & scrap	1 428 251	1 042 408	1 204 000	1 344 082	1 661 756
Irish Republic					
Pig-iron and sponge iron	18 226	21 330	21 923	14 983	5 904
Ferro-alloys	1 790	1 196	2 059	1 083	1 421
Ingots, blooms, billets	6 513	9 794	1 211	3 209	2 150
Italy					
Pig-iron	917 177	743 812	1 170 447	1 029 409	1 034 163
Spiegeleisen	12 591	4 866	6 314	4 488	3 579
Ferro-chrome & ferro-silico-chrome	40 518	30 351	41 599	49 382	54 452
Ferro-manganese	111 052	117 411	88 099	120 614	154 253
Ferro-molybdenum	804	641	545	459	387
Ferro-silicon	24 934	24 293	24 703	28 720	51 777
Ferro-silico-manganese	18 194	18 516	19 734	23 180	30 739
Ferro-titanium	1 505	757	653	616	854
Ferro-tungsten	219	106	84	153	158
Ferro-vanadium	449	304	243	278	332
Ferro-nickel	6 431	6 131	11 166	15 181	17 669
Other ferro-alloys	3 516	2 013	2 640	3 451	1 779
Ingots, blooms, billets	862 619	717 253	685 366	520 296	393 396
Old & scrap	5 157 391	5 478 632	5 678 526	5 603 970	6 267 672
Netherlands					
Pig-iron (b)	123 279	67 045	55 977	57 801	65 691
Sponge iron & powder	4 115	5 400	3 680	2 519	5 112
Ferro-chrome	2 649	2 967	3 343	3 650	3 169
Ferro-manganese	39 358	(c) 35 280	(c) 25 638	(c) 35 593	(c) 36 658
Ferro-silico-manganese	2 410	(c) 1 677	(c) 1 747	(c) 1 183	(c) 3 096
Ferro-molybdenum	39	(c) 28	(c) 40	(c) 42	(c) 64
Ferro-silicon	7 585	(c) 7 261	(c) 8 616	(c) 8 051	(c) 11 009
Ferro-titanium	57	(c) 114	(c) 170	(c) 69	(c) 77
Ferro-tungsten	17	(c) 6	(c) 16	(c) 52	(c) 51
Ferro-vanadium	3	(c) 7	(c) 23	(c) 45	(c) 2
Other ferro-alloys	921	(c) 272	(c) 273	(c) 404	(c) 632
Ingots, blooms, billets	274 501	484 345	850 810	642 405	593 168
Old & scrap	298 368	213 426	169 996	181 547	148 380
Austria					
Pig-iron	82 882	73 848	86 992	115 966	79 256
Spiegeleisen	624	569	152	369	187
Ferro-chrome	19 782	13 316	23 325	24 798	21 707
Ferro-manganese	17 575	16 734	19 720	22 496	23 791
Ferro-molybdenum	2	21	27	1	10
Ferro-titanium	247	211	302	342	354
Ferro-tungsten	20	...	...	200	127
Ferro-vanadium	...	—	—	176	74
Ferro-silicon	14 850	13 085	13 342	15 279	16 509
Other ferro-alloys	10 348	8 035	10 514	16 296	13 227
Ingots & blooms	73 745	117 967	49 224	99 268	117 840
Scrap	79 343	82 607	51 764	99 768	88 277
Bulgaria					
Pig-iron	295 153	...	...	268 000	340 000
Czechoslovakia					
Pig-iron	779 000	745 000	802 000	730 000	802 000

## Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Finland					
Pig-iron	960	934	1 493	9 847	40 006
Ferro-chrome & ferro-silico-chrome	1 459	1 754	865	1 009	1 468
Ferro-manganese	6 026	4 634	4 099	3 667	4 857
Ferro-molybdenum	230	193	124	100	162
Other ferro-alloys	16 615	15 801	17 788	21 012	21 114
Blooms, billets	60 397	14 960	22 779	18 194	6 712
Old & scrap	136 105	116 574	67 046	61 787	84 795
German Democratic Republic					
Pig-iron	812 000	886 000	753 000	867 000	868 000
Ferro-alloys	8 179	16 700	17 000	16 700	27 600
Greece					
Pig-iron	22 397	19 669	17 637	15 054	15 329
Ferro-alloys	4 686	3 140	6 084	7 397	12 932
Ingots, blooms, slabs	91 301	40 641	83 854	102 651	47 526
Old & scrap	11 562	14 292	96 404	148 560	23 780
Hungary					
Pig-iron	192 353	197 347	193 018	228 946	256 481
Ferro-chrome	8 252	6 128	5 038	5 341	7 155
Ferro-manganese	29 303	22 443	17 761	21 625	43 306
Ferro-molybdenum	322	213	287	191	366
Ferro-silicon	2 872	2 890	5 150	5 518	5 099
Other ferro-alloys	4 189	5 088	6 798	5 412	8 107
Ingots	214 236	208 808	198 855	202 158	142 782
Malta					
Ingots	6 357	4 005	2 202	3 818	1 642
Norway					
Pig-iron	10 614	8 331	10 492	10 118	18 072
Ferro-alloys	5 429	6 971	1 000	1 900	1 319
Ingots, blooms, billets	6 140	5 222	4 474	7 844	17 142
Old & scrap	46 112	51 963	59 643	26 475	50 995
Poland					
Pig-iron	1 484 835	1 552 409	1 478 932	1 508 541	1 675 967
Ferro-alloys	19 571	8 972			
Scrap	5 749	6 123	42	203	3 024
Portugal					
Iron & steel ingots	95	44	8	5	140
Old & scrap	9 639	10 278	24 095	6 288	8 113
Romania					
Pig-iron	522 400	607 700	527 800	490 200	540 000
Ferro-alloys	102 000	120 800	118 400	151 200	153 500
Soviet Union					
Pig-iron	69 300	71 600	157 900	333 200	138 900
Ferro-alloys	5 900	10 000	17 600	18 700	30 200
Spain					
Pig-iron	66 392	24 558	34 294	42 903	59 886
Ferro-chrome	3 640	3 935	4 969	8 306	8 712
Ferro-manganese	983	827	4 707	3 969	543
Other ferro-alloys	11 512	8 571	10 890	10 786	13 915
Ingots & blooms	395 119	49 400	62 843	69 687	131 904
Old & scrap	1 363 868	698 479	1 825 204	2 012 207	1 924 586
Sweden					
Pig-iron	354 849	342 191	344 295	337 622	208 872
Sponge iron	7 251	—	1 686	1	—
Ferro-manganese	31 878	34 165	29 060	53 490	49 518
Ferro-chrome & ferro-silico-chrome	25 021	27 237	35 449	49 884	48 417
Ferro-molybdenum	1 701	898	1 776	2 233	2 714
Ferro-nickel	10 742	10 132	26 194	45 155	64 601
Ferro-silicon	18 978	14 882	14 351	22 054	24 704
Ferro-silico-manganese	10 523	11 669	12 640	22 228	17 247
Ferro-tungsten	663	626	366	318	657
Ferro-vanadium	529	418	457	798	807
Other ferro-alloys	3 090	2 803	8 729	7 677	5 984
Blooms, billets	37 662	27 961	121 994	139 612	124 269
Old & scrap	480 908	184 115	198 065	278 333	368 234



## Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Switzerland					
Pig-iron	85 139	63 165	48 804	74 796	71 894
Ingots, blooms, billets	269 671	196 831	240 711	137 036	109 288
Old & scrap	51 166	27 490	78 458	63 396	110 355
Turkey					
Pig-iron	72 282	92 653	99 792	111 156	...
Blooms, billets	154 727	225 212	153 039	324 967	...
Ferro-manganese	11 039	9 028	10 423	8 762	...
Ferro-silicon	2 721	4 928	7 104	4 106	...
Other ferro-alloys	160	5 988	282	190	...
Scrap	76 523	104 096	109 272	187 052	...
Yugoslavia					
Pig-iron	165 918	188 603	88 341	34 506	62 325
Ferro-manganese	568	1 190	1 541	3 619	2 762
Ferro-molybdenum	260	261	317	351	...
Ferro-tungsten	197	87	93	55	106
Other ferro-alloys	2 704	2 472	3 112	3 267	4 675
Ingots, blooms, billets	100 136	282 805	165 115	168 809	258 488
Scrap	146 727	250 625	261 696	298 636	427 781
Algeria					
Ferro-manganese	735	...	...	1 466	...
Ferro-silicon	461	...	...	1 093	...
Ferro-silico-manganese	35	...	...	4	...
Egypt					
Pig-iron & spiegeleisen	42 203	47 807	96 317	45 360	23 257
Ferro-alloys	3 485	3 315	13 208	3 106	9 902
Ingots & billets	2 989	1 499	86 243	104 599	37 708
Scrap	96 723	63 267	66 462	44 156	13 770
Ghana					
Pig-iron	805	1 007	178	996	455
Ferro-manganese	133	161	166	510	284
Ingots & blooms	179	2 034	...	10	68
Kenya					
Pig-iron & ferro-alloys	783	1 270	1 739	...	362
Ingots & blooms	6 947	18 461	22 152	20 389	19 437
Mauritius					
Pig-iron & ingots	4 239	3 174	5 696	8 659	11 593
Morocco					
Pig-iron	2 172	1 050	1 499	2 067	3 418
Ferro-manganese	175	199	169	175	205
Ferro-silicon	66	59	32	67	106
Ferro-silicon-manganese	49	75	30	44	48
Ferro-chrome	...	...	13	8	22
Scrap	1	31	431	28	—
Nigeria					
Ingots & blooms	11 020	16 621	43 728	71 900	109 627
South Africa					
Pig-iron (d)	3 558	2 734	48	143	89
Ferro-silicon	1 783	1 657	913	1 570	2 098
Ferro-chrome	1 902	2 124	3 400	2 820	2 421
Other ferro-alloys	2 920	3 440	1 497	778	1 415
Ingots & blooms	113 378	64 307	60 091	27 239	27 558
Scrap	5 222	29 146	50 371	24 846	10 383
Sudan					
Crude iron & steel	20	48	142	130	...
Tanzania					
Pig-iron & ferro-alloys	1 501	1 242	1 086	...	1 099
Ingots & blooms	1	7 551	4 838	6 260	13 950
Tunisia					
Pig-iron	59	105	191	85	63
Ferro-alloys	956	682	711	932	648
Old & scrap	512	232	534	283	941
Uganda					
Pig-iron & ferro-alloys	576	1 197	82	...	171
Ingots & blooms	45	12	5	107	109

## Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
Zambia					
Pig-iron	2 714	496	1 282	135	...
Ferro-alloys	581	551	542	957	...
Ingots	...	36	520	1	...
Scrap	...	14 135	20 999	5 793	...
Canada					
Pig-iron	87	608	3 742	1 862	2 243
Sponge iron	2 416	2 148	2 126	966	12 574
Ferro-manganese & spiegeleisen	17 891	19 557	17 141	24 050	17 114
Ferro-chrome	20 814	36 202	13 793	34 727	38 392
Ferro-silicon	9 476	9 417	8 676	12 920	10 560
Ferro-tungsten	90	101	115	78	186
Ferro-vanadium	171	90	105	152	370
Ferro-silico-manganese & silico-spiegel	975	1 624	15 093	9 752	542
Other ferro-alloys	6 659	4 920	12 558	29 368	17 699
Ingots, blooms, billets	227 251	253 111	243 294	86 408	47 804
Scrap	750 671	1 077 387	1 110 500	914 403	766 539
Costa Rica					
Ingots & blooms	22 657	12 529	23 703	23 146	27 521
El Salvador					
Ingots, blooms, billets	19 631	35 954	27 072	35 364	31 689
Scrap	241	599	925	2 967	1 073
Honduras					
Ingots & blooms	12 962	6 070	1 048	1 255	3 395
Jamaica					
Pig-iron & sponge iron	175	204	435	260	...
Ingots & blooms	2 119	281	20 922	3 777	...
Mexico					
Pig-iron	1 103	5 115	11 773	119 141	53 896
Ferro-manganese	908	1 311	1 323	1 479	4 381
Ferro-silicon	430	305	497	353	346
Ferro-chrome	1 538	1 107	516	1 636	3 738
Ferro-vanadium	202	190	192	29	163
Ferro-nickel	548	232	226	230	102
Other ferro-alloys	359	198	360	693	1 010
Ingots, blooms, billets	71 841	43 281	4 104	13 672	...
Scrap	713 369	505 123	523 782	951 541	791 363
Tin-plate scrap	3 360	2 627	2 955	15 313	14 211
Trinidad & Tobago					
Pig-iron	138	5	...	37	9
Ingots	1 279	374	592	1 907	2 294
USA					
Pig-iron	226 108	277 889	577 816	404 265	310 573
Ferro-chrome	37 471	77 280	128 159	141 104	146 601
Ferro-manganese	263 942	220 245	316 189	354 135	381 754
Ferro-silicon	20 320	22 196	35 925	90 658	129 030
Ferro-titanium	66	79	83	232	2 083
Ferro-tungsten	...	17	460	632	458
Ferro-silico-chrome	—	700	7 645	11 837	6 848
Ferro-silico-manganese	13 189	27 150	35 084	40 605	61 464
Ferro-vanadium	21	63	412	251	204
Ferro-zirconium	598	1 021	2 362	1 133	738
Ferro-nickel	12 928	23 798	46 938	81 447	92 923
Sponge iron	13 773	10 059	13 429	10 703	11 275
Bar-iron, slabs, blooms & steel ingots	155 196	249 147	237 756	156 534	166 241
Scrap	253 000	238 600	267 600	305 700	170 600
Tin-plate scrap	20 000	18 100	15 400	10 900	11 800

## Imports of Iron, Steel and Ferro-alloys

	tonnes				
Country	1970	1971	1972	1973	1974
Argentina					
Pig-iron	123 001	86 625	72 057	110 443	146 601
Ferro-manganese	511	729	941	890	823
Ferro-silicon	34	16	204	24	217
Ferro-silico-manganese	8	112	15	...	...
Ferro-molybdenum	205	165	323	472	473
Ferro-titanium	135	98	80	52	55
Blooms & billets	800 409	695 603	495 402	922 444	410 057
Old & scrap	5 368	57 187	210 710	234 476	148 335
Brazil					
Ferro-manganese	531	2 419	819	845	2 242
Ferro-silicon	1 850	17 871	4 832	983	3 055
Ferro-chrome	1 665	1 986	2 207	3 972	6 131
Ferro-molybdenum	220	122	189	152	94
Ferro-vanadium	35	24	23	12	28
Other ferro-alloys	682	603	1 147	801	3 322
Ingots, blooms, billets	40 754	361 586	282 240	282 914	219 553
Chile					
Pig-iron (b)	1 122	332	518	395	3 501
Ferro-manganese	1 031	—	—	2	52
Ferro-chrome	605	610	658	131	504
Other ferro-alloys	99	191	460	92	184
Colombia					
Pig-iron	900	2 117	2 575	25	...
Ingots, blooms, billets	43 324	76 936	16 513	...	...
Ferro-manganese	1 872	5 062	3 705	4 681	...
Ferro-silico-manganese	64	42	365	79	...
Ferro-silicon	1 697	1 243	697	2 058	...
Ferro-chrome	72	49	45	74	...
Other ferro-alloys	42	91	136	151	...
Scrap	13 414	1 580	2 107	12 582	...
Guyana					
Pig-iron & ingots	333	395	6	48	...
Uruguay					
Ingots	43 317	38 190	...	...	...
Ferro-alloys	286	163	188	128	...
Venezuela					
Pig-iron	} 10 353	16 722	{ 25 875	133 279	65 437
Ferro-alloys					
Scrap	151 585	202 406	292 437	69 597	164 736
Ingots, blooms, billets	6 467	9 823	1 014	1 457	1 698
Cyprus					
Pig-iron	302	205	147	855	662
Ingots	57	105	93	146	441
Hong Kong					
Pig-iron	7 456	20 403	8 739	12 058	6 195
Ingots, blooms, billets	23 082	55 081	40 551	104 301	79 457
Old & scrap	86 840	110 480	36 955	54 255	92 024
Tin-plate scrap	50	141	76	167	670
India (e)					
Ingots, blooms, billets	24 279	117 604	99 062	16 564	13 592
Ferro-chrome	13	219	7	6	29
Ferro-manganese	—	—	29	...	7
Ferro-silicon	77	6 794	1 204	26	58
Other ferro-alloys	105	147	165	94	138
Old & scrap	7 428	18 427	8 054	24 710	10 546
Iran (f)					
Pig-iron	7 612	12 564	4 756	13 300	17 193
Ingots, blooms, billets	14 520	236	22 387	254 913	196 452
Ferro-alloys	959	4 206	5 225	22 091	7 726
Old & scrap	7 686	8 436	12 525	15 084	6 129

## Imports of Iron, Steel and Ferro-alloys

tonnes

Country	1970	1971	1972	1973	1974
<b>Israel</b>					
Pig-iron	19 267	10 147	13 000	8 429	6 472
Spiegeleisen	297	113	—	1 101	—
Ferro-manganese	512	1 155	260	700	520
Other ferro-alloys	839	435	778	850	770
Ingots, blooms, billets	98 532	60 675	86 493	61 800	70 900
<b>Japan</b>					
Pig-iron	2 854 419	1 182 884	1 003 412	1 528 391	1 232 076
Ferro-manganese	47 871	2 156	220	22 080	16 153
Ferro-silicon	22 353	2 407	17 130	47 853	70 658
Ferro-chrome	25 545	5 118	14 409	31 371	38 815
Ferro-nickel	4 725	4 087	6 662	11 718	18 001
Ferro-molybdenum	512	616	516	2 291	2 172
Ferro-tungsten	379	63	77	598	231
Other ferro-alloys	47 529	33 586	20 678	26 943	40 624
Ingots, blooms, billets	79 819	28 875	64 001	131 531	132 252
Old & scrap (g)	5 792 541	2 551 769	2 499 307	5 409 393	3 559 283
<b>Jordan</b>					
Ingots, blooms, billets	23 676	5 037	22 412	...	...
<b>Korea, Republic of</b>					
Pig-iron	7 375	53 166	82 540	85 969	90 735
Ferro-alloys	...	470	361	1 155	3 535
Scrap	839 938	755 325	520 124	805 660	1 119 543
Ingots & blooms	325 114	90 185	163 258	413 167	108 155
<b>Lebanon</b>					
Pig-iron	1 376	7 023	10 552	15 925	...
Ferro-alloys	11	40	134	101	...
Old & scrap	34 337	23 930	8 185	41 552	...
Ingots & blooms	110 225	131 143	162 834	216 150	...
<b>Malaysia</b>					
Pig-iron	12	171	1 018	8 855	7 462
Ingots & slabs	7 886	21 406	21 994	19 442	9 573
Scrap	83	321	10 267	2 335	8 776
<b>Philippines</b>					
Pig-iron	12 313	18 655	32 710	22 255	45 903
Ferro-alloys	5 116	5 190	3 856	5 142	10 861
Ingots, blooms, billets	399 196	184 515	165 619	103 530	207 294
<b>Sabah</b>					
Ingots	31	316	452	1 817	569
<b>Singapore</b>					
Pig-iron	7 371	20 077	32 470	31 713	26 261
Ferro-alloys	1 162	1 758	1 523	6 080	4 543
Ingots & blooms	32 365	46 416	17 089	38 235	38 052
Scrap	33 258	59 249	106 354	61 591	33 099
<b>Sri Lanka</b>					
Ingots, blooms, billets	16 749	26 744	...	...	...
<b>Syria</b>					
Pig-iron	1 529	1 385	1 636	1 663	1 491
Ingots, blooms, billets	337	55 295	65 975	66 073	25 404
Scrap	466	2 154	3 651	4 045	2 901
<b>Taiwan</b>					
Pig-iron	378	18 351	13 382	68 973	52 158
Ingots, blooms, billets	32 579	56 567	23 695	58 914	70 447
Ferro-manganese	145	235	216	303	2 271
Ferro-silicon	131	134	96	44	...
Ferro-chrome	107	96	271	279	296
Other ferro-alloys	176	186	129	263	348
Old & scrap	209 219	505 528	603 362	715 759	785 874
<b>Thailand</b>					
Pig-iron	716	1 172	488	68	2 133
Ferro-alloys	3 885	4 954	3 922	4 392	4 838
Scrap	168 996	200 730	280 654	365 891	255 920

## Imports of Iron, Steel and Ferro-alloys

	tonnes				
Country	1970	1971	1972	1973	1974
Australia (h)					
Ferro-manganese	7 814	11 343	7 958	6 369	12 470
Ferro-chrome	13 086	6 900	5 185	7 644	14 646
Ferro-molybdenum	281	223	106	243	253
Ferro-silicon	13 603	10 701	8 317	9 202	14 286
Other ferro-alloys	5 954	5 854	3 063	4 491	5 960
Ingots & billets	333	1 151	1 106	1 377	844
Scrap	1 548	1 000	187	141	114
New Zealand (h)					
Pig-iron	7 622	6 603	5 154	8 264	9 132
Ferro-manganese	2 131	716	997	...	...
Other ferro-alloys	1 154	1 191	477	...	...
Billets & blooms	125	17 681	15 933	...	...
Solomon Islands					
Billets & blooms	1 191	1 522	1 036	...	...

- (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 March 31 following that stated  
 (f) Years ended March 20 following that stated  
 (g) Including alloys  
 (h) Years ended June 30 of that stated

## Production of Kaolin

tonn

Country	1970	1971	1972	1973	1974
United Kingdom	3 199 000	2 736 000	2 961 000	3 409 000	(a) 4 290 000
Belgium	22 702	* 100 000	* 100 000	* 100 000	* 100 000
Denmark	1 605	93	55	84	6
France (b)	521 444	542 552	583 764	666 114	723 314
Germany, Federal Republic of	525 959	491 472	487 562	488 237	495 500
Italy	100 720	90 638	71 051	72 208	90 000
Austria (d)	339 844	302 334	329 336	300 742	312 400
Bulgaria	127 000	138 000	* 150 000	* 150 000	* 150 000
Czechoslovakia (c)	367 000	404 000	422 000	450 000	484 000
Greece	482 274	54 855	70 965	76 130	82 700
Hungary (c)	78 000	65 000	61 182	76 419	79 000
Poland	...	...	76 200	72 900	85 600
Portugal (d)	53 023	44 950	44 636	53 602	49 600
Soviet Union	* 1 800 000	* 1 900 000	* 2 000 000	* 2 100 000	* 2 100 000
Spain (c)	174 054	323 857	135 491	138 384	202 000
Sweden	* 30 000	* 30 000	* 30 000	* 30 000	* 30 000
Algeria	...	1 841	4 279	4 500	9 000
Angola	2 091	1 040	416	667	400
Egypt	22 441	44 727	24 629	30 305	25 800
Ethiopia	10 870	* 10 000	* 26 000	* 27 000	* 27 000
Kenya	1 770	1 800	718	947	* 1 000
Mozambique	1 476	1 586	1 662	572	400
Nigeria	579	153	...	...	...
South Africa	36 896	39 184	38 218	38 615	48 800
Swaziland	1 620	2 049	2 177	1 602	2 200
Tanzania	464	830	1 460	870	700
Mexico	78 548	72 587	71 891	94 364	93 300
USA (e)	4 469 000	4 432 656	4 824 080	5 437 000	5 806 000
Argentina	74 555	68 485	90 321	99 205	* 90 000
Brazil (d)	400 037	245 730	542 718	515 333	* 500 000
Chile	48 553	57 434	67 056	44 753	* 45 000
Colombia	92 610	96 575	101 056	* 101 000	* 100 000
Ecuador	771	597	1 599	1 068	910
Paraguay	* 600	* 1 200	* 4 000	* 8 000	* 8 000
Peru	1 549	395	400	1 100	1 100
Bangladesh	3 184	* 1 800	* 2 000	* 6 000	1 200
Hong Kong	3 785	2 526	3 162	6 753	3 300
India (c)	546 654	566 420	404 935	374 244	426 000
Indonesia (c)	* 9 500	* 10 000	6 013	29 610	25 900
Iran	45 000	48 000	55 000	* 55 000	55 000
Japan	220 877	381 211	126 654	399 034	413 300
Korea, Republic of	100 577	121 872	108 205	208 537	271 800
Malaysia	3 326	11 655	104 978	105 398	146 300
Pakistan	...	4 336	3 582	789	900
Sri Lanka	2 209	3 165	3 946	4 868	5 800
Thailand	3 188	10 133	15 289	18 995	60 800
New Zealand	11 800	20 000	9 000	9 218	16 700
Australia (c) (f)	89 577	76 497	65 663	79 973	98 100
World total (g)	14 100 000	13 600 000	14 200 000	15 900 000	17 600 000

(a) Including ball clay

(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 and Turkey

## Exports of Kaolin

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	2 172 171	1 927 075	2 071 930	2 392 175	2 456 640
Belgium-Luxembourg	10 641	8 478	10 981	15 175	8 778
France	70 106	74 786	101 811	91 781	135 397
Germany, Federal Republic of	98 381	89 306	101 855	101 145	111 390
Italy	1 680	1 197	1 652	29 431	43 554
Netherlands	45 680	47 094	50 274	53 905	64 825
Austria	25 211	22 090	16 501	17 615	26 648
Czechoslovakia	192 000	211 000	243 000	266 000	297 000
Germany, Democratic Republic	85 222	86 627	105 334	90 459	95 443
Portugal	1 325	1 260	2 094	266	535
Soviet Union (b)	15 688	25 562	35 507	28 303	33 817
Spain	40 218	54 937	55 369	62 699	61 973
Sweden	124	92	131	259	263
Turkey	752	4 515	7 774	5 957	..
Mozambique	981	1 302	1 081	...	...
South Africa	569	485	336	629	2 135
USA	740 515	610 611	605 563	663 876	770 085
Argentina	77	77	66	77	117
Brazil	1 503	2 180	2 511	2 878	...
Hong Kong	4 475	5 441	6 085	4 884	4 031
India (a)	380	269	1 019	1 236	2 686
Japan	8 035	3 426	5 511	3 836	3 995
Korea, Republic of	89 028	77 522	77 694	112 358	164 092
Malaysia	819	7 337	5 187	9 806	14 618

(a) Years ended March 31 following that stated

(b) Imports from Soviet Union into Japan

## Imports of Kaolin

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	1 853	1 570	3 196	4 588	9 588
Belgium-Luxembourg	229 848	208 622	229 540	277 598	301 766
Denmark	42 158	38 110	36 528	41 677	50 771
France	317 594	302 535	304 567	348 505	353 893
Germany, Federal Republic of	642 383	590 701	644 508	714 497	767 992
Italy	562 457	463 663	513 572	147 942	133 858
Netherlands	228 852	229 468	230 129	324 417	412 558
Austria	48 029	55 264	70 478	82 515	95 837
Finland	308 597	233 941	267 921	318 108	379 203
German Democratic Republic	34 906	31 721	25 342	25 894	28 873
Hungary	76 477	63 833	75 427	61 339	67 432
Norway	80 399	83 507	73 946	85 406	86 521
Poland	113 503	127 633	119 592	129 354	127 871
Portugal	4 505	3 658	5 335	5 827	7 406
Romania	31 600	25 900	33 000	32 800	...
Spain	77 022	69 782	92 468	106 676	139 804
Sweden	238 508	208 299	212 241	253 645	262 728
Turkey	44	969	4 322	37	...
Yugoslavia	37 463	36 066	38 330	48 768	48 332
Algeria	7 589	5 741	5 867	7 500	...
Angola	61	218	44	92	...
Morocco	3 256	3 794	3 050	3 904	4 959
Canada	215 555	183 650	210 499	185 455	181 260
Costa Rica	577	472	854	802	991
Guatemala	1 552	1 657	3 542	4 286	2 572
Mexico	23 317	23 229	28 955	34 533	41 921
Nicaragua	3 064	2 728	...	4 525	6 163
USA	59 271	40 480	23 116	31 028	17 337
Argentina	14 962	13 741	12 536	15 513	17 812
Brazil	6 235	6 947	6 543	10 831	20 312
Chile	484	1 045	1 374	669	563
Colombia	3 862	3 948	3 736	2 732	...
Uruguay	2 730	2 020	1 392	1 739	...
Venezuela	12 668	8 882	10 311	17 824	17 075
Hong Kong	1 014	793	769	2 567	2 380
India	987	980	239	92	310
Iran (a)	3 559	5 801	9 482	13 194	17 034
Japan	243 060	248 504	275 529	342 486	351 372
Korea, Republic of	...	400 398	2 852	10 828	12 676
Malaysia	1 418	990	1 233	1 057	1 459
Philippines	3 862	2 816	5 023	5 844	8 545
Singapore	3 007	2 710	...	3 936	4 171
Taiwan	...	...	16 490	27 913	30 219
Thailand	6 026	6 185	5 160	7 174	5 055
Australia	42 605	32 717	30 585	37 534	33 591
New Zealand (b)	2 679	2 945	1 961	...	...

(a) Years ended March 20 following that stated

(b) Years ended June 30 of that stated



## Mine Production of Lead

tonnes (metal content)

Country	1970	1971	1972	1973	1974
United Kingdom	4 062	4 973	4 500	3 700	3 600
France	29 385	29 759	26 618	24 946	22 976
Germany, Federal Republic of	38 644	39 754	37 559	33 719	29 544
Irish Republic	62 873	51 592	59 622	56 188	37 695
Italy	35 200	31 600	33 700	25 900	22 700
Austria	6 003	7 715	6 668	6 139	5 575
Bulgaria	95 500	100 000	* 102 000	* 105 000	* 110 000
Czechoslovakia	6 990	7 000	4 917	* 5 000	* 5 000
Finland (a)	5 005	4 739	3 849	2 134	1 532
German Democratic Republic	* 10 000	* 5 000	* 5 000	* 3 000	3 600
Greece	11 212	11 168	16 235	17 640	22 100
Greenland	—	—	—	—	(e) 37 000
Hungary	* 1 735	* 1 735	2 368	2 540	1 239
Norway	3 014	3 160	3 419	3 335	3 376
Poland	67 200	69 500	70 000	* 70 000	* 64 000
Portugal	1 558	1 383	1 157	460	* 500
Romania	* 40 000	* 40 000	* 40 000	45 000	* 45 000
Soviet Union	* 440 000	* 454 000	* 460 000	* 450 000	* 475 000
Spain	72 715	70 150	69 443	64 408	59 985
Sweden	78 312	79 454	75 841	75 777	73 656
Turkey	5 800	7 000	6 800	6 200	4 700
Yugoslavia	126 693	124 347	120 173	119 312	119 800
Algeria	6 523	4 717	4 989	3 880	* 3 000
Congo	100	29	473	1 300	1 700
Morocco	76 100	78 000	86 600	94 000	92 537
Namibia	* 70 500	73 200	53 000	63 000	55 200
Nigeria	...	215	321	356	308
South Africa	...	...	182	2 164	3 316
Tunisia	22 533	20 700	19 905	15 740	12 664
Zambia (b)	27 300	27 700	26 005	25 800	24 596
Canada	357 196	394 778	370 029	387 768	314 115
Guatemala (a)	986	153	153	102	112
Honduras	15 970	17 940	20 725	18 544	18 433
Mexico	176 600	156 800	161 358	179 296	218 200
USA (a)	518 674	524 852	561 470	547 054	606 879
Argentina	35 588	39 882	38 365	35 120	* 35 000
Bolivia (c)	25 350	23 337	21 934	20 152	19 355
Brazil	27 754	27 836	29 880	25 946	27 400
Chile	892	881	462	252	* 300
Colombia	585	411	126	* 200	* 200
Peru (a)	156 770	165 814	184 381	199 000	193 000
Burma	* 8 000	* 9 000	* 9 000	* 9 800	* 4 500
China	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
India	2 388	3 300	3 700	7 300	8 900
Iran (d)	22 940	29 937	30 000	32 000	* 42 000
Japan	64 407	70 586	63 449	52 900	44 241
Korea, Dem. P.R. of	* 70 000	* 80 000	* 90 000	* 90 100	* 90 000
Korea, Republic of	16 016	16 543	14 717	12 870	10 498
Thailand	1 214	1 386	1 712	3 846	1 452
Australia	456 743	403 557	* 396 000	402 796	375 304
World total	3 400 000	3 400 000	3 400 000	3 500 000	3 500 000

(a) Recoverable

(b) Smelter

(c) Exports of ore (Pb content) and metal

(d) Years ended March 20 following that stated

(e) Includes 5 months production from 1973

## Smelter Production of Lead

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	43 768	38 628	25 052	30 306	29 400
Belgium (a)	106 024	93 924	106 700	111 000	110 000
France	119 900	108 310	136 133	138 100	124 300
Germany, Federal Republic of	112 500	98 400	102 000	85 900	116 400
Italy	54 288	48 486	50 138	35 127	43 465
Austria (a)	13 500	14 011	15 418	14 700	15 600
Bulgaria	* 98 600	* 102 000	* 102 000	* 100 000	* 100 000
Czechoslovakia	17 615	17 609	18 163	16 724	* 18 000
German Democratic Republic (a)	* 25 000	* 20 000	* 20 000	* 20 000	* 20 000
Greece	14 342	17 119	17 330	17 857	11 675
Norway	1 000	680	700	614	429
Poland	54 500	60 200	65 300	68 400	71 600
Portugal	572	1 200	1 197	1 111	* 1 100
Romania	* 40 000	* 40 000	* 45 000	* 45 000	* 45 000
Soviet Union	* 530 000	* 550 000	* 570 000	* 580 000	* 600 000
Spain	68 682	72 146	92 139	99 292	79 529
Sweden	43 484	39 382	47 594	46 681	45 247
Turkey	4 000	3 200	2 400	3 200	2 136
Yugoslavia	112 232	118 748	102 164	112 632	118 428
Morocco	24 900	18 716	—	—	—
Namibia	67 900	69 800	64 700	66 700	64 200
Tunisia	21 400	18 800	25 900	26 900	26 500
Zambia	27 300	27 700	26 005	25 800	24 596
Canada	185 638	168 332	186 860	186 891	126 460
Guatemala	75	89	200	65	70
Mexico	180 300	158 800	162 100	188 900	201 900
USA	604 843	593 600	644 870	624 872	616 060
Argentina	38 000	43 800	39 600	* 37 800	* 40 000
Brazil	19 451	25 737	25 007	38 400	41 700
Peru	72 509	67 515	86 009	83 269	80 600
Burma	9 704	12 000	9 500	9 659	* 9 000
China (a)	* 100 000	* 120 000	* 125 000	* 130 000	* 140 000
India	1 862	1 539	2 740	2 636	3 986
Japan	174 767	215 054	223 226	228 036	227 960
Korea, Dem. P.R. of	* 55 000	* 55 000	* 60 000	* 60 000	* 65 000
Australia (b)	351 019	324 784	319 720	340 008	339 981
World total	3 400 000	3 400 000	3 500 000	3 600 000	3 500 000

(a) Including secondary metal

(b) Including lead in base bullion

## Exports of Lead

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Unwrought	137 348	130 610	117 968	117 552	116 561
Unwrought alloys	15 779	20 961	29 258	29 929	22 690
Belgium-Luxembourg					
Ore	34 383	1 758	23	526	4 866
Unwrought	51 200	42 896	38 191	58 792	47 996
Unwrought alloys	12 522	6 359	8 405	9 224	4 872
Scrap	7 763	5 513	8 919	10 262	11 253
Denmark					
Unwrought	1 217	595	653	1 722	2 857
Unwrought alloys	2 564	3 272	3 057	3 500	5 129
Scrap	...	153	494	2 169	493
France					
Ore	2 166	1 156	95	105	104
Unwrought	14 758	21 082	10 469	10 994	6 878
Unwrought alloys	12 951	9 077	8 753	13 836	12 891
Scrap	22 335	9 417	14 140	18 507	14 035
Germany, Federal Republic of					
Ore	1 884	2 806	1 548	645	3 689
Unwrought (a)	52 628	72 134	66 645	65 871	87 750
Scrap (a)	15 524	15 409	14 920	15 343	16 701
Irish Republic					
Ore & concentrates	145 767	116 858	123 628	126 175	74 195
Scrap	262	5 000	2 687	...	...
Italy					
Ore	13 369	14 813	23 362	12 055	12 529
Unwrought (a)	344	730	446	1 846	1 577
Netherlands					
Unwrought	6 860	8 967	11 964	8 854	10 620
Unwrought alloys	9 286	9 343	10 486	16 418	9 757
Scrap (a)	9 388	7 766	17 267	19 565	21 602
Austria					
Unwrought (a)	1 863	2 823	681	167	908
Scrap	48	1 010	—	125	499
Finland					
Unwrought (a)	161	284	1	88	195
Greece					
Ore	13 750	11 790	12 050	16 000	28 480
Norway					
Ore	6 476	5 380	6 015	6 533	6 015
Unwrought (a)	419	218	663	520	362
Scrap	4 389	4 276	5 501	4 554	4 748
Poland					
Concentrates	14 138	10 304	5 138	33 521	25 522
Portugal					
Ore	2 631	2 205	1 735	1 335	...
Unwrought (a)	111	244	360	43	21
Soviet Union					
Unwrought	92 400	93 200	92 600	97 000	95 500
Spain					
Unwrought (a)	69	45	285	38	342
Sweden					
Ore	47 215	70 452	55 129	57 129	46 690
Unwrought	8 747	25 291	35 278	29 193	26 802
Unwrought alloys	1 088	1 444	1 773	1 620	2 310
Scrap	760	120	—	13	25
Switzerland					
Unwrought	213	529	1 020	1 359	1 391
Scrap	7 165	6 089	7 169	9 606	9 105
Turkey					
Ore	15 601	11 551	11 351	8 390	3 693
Yugoslavia					
Unwrought	56 282	49 749	39 152	40 014	44 556
Unwrought alloys	1 156	805	656	467	281
Concentrates	11 833	12 580	21 890	18 220	23 289

## Lead

## Exports of Lead

	tonnes				
Country	1970	1971	1972	1973	1974
Algeria					
Ore	5 533	7 479	6 151	5 085	3 200
Morocco					
Ore	75 224	85 014	138 194	136 144	125 905
Unwrought	22 501	16 071	...	...	...
Nigeria					
Ore & concentrates	5	150	173	314	242
Senegal					
Unwrought & scrap	266	140	211	189	148
South Africa					
Concentrates	9 264	2 538	5 504	1 687	1 141
Unwrought	48 306	60 781	40 332	49 304	...
Scrap	1 018	9	149	892	...
Sudan					
Scrap	255	1 140	150	238	100
Tunisia					
Ore	2 650	2 805	6 266	6 176	...
Unwrought (a)	19 403	13 756	13 170	15 422	23 578
Scrap	...	...	600	...	24 478
Zambia					
Unwrought	22 065	23 895	26 684	20 012	18 775
Canada					
Ore (b)	186 219	194 459	161 990	201 765	194 089
Unwrought	138 637	124 179	128 773	113 672	73 414
Scrap (a)	5 209	5 305	11 174	21 757	9 475
Guatemala					
Ore	433	—	92	3	—
Honduras					
Ore & concentrates	27 970	...	...	...	...
Mexico					
Ores & concentrates	1 579	573	199	3 224	17 263
Unwrought—					
Refined	77 636	67 315	66 253	56 013	108 104
Base bullion	9 914	8 958	8 617	8 030	5 348
Antimonial lead	122	16	20	34	...
USA					
Lead & zinc concentrates	14 130	26 440	39 776	94 510	100 857
Unwrought	3 966	2 369	4 658	42 436	41 758
Unwrought alloys	542	1 050	1 334	4 612	6 857
Scrap	3 823	8 684	31 963	54 296	53 856
Argentina					
Ore & concentrates	1 814	615	33	...	2 268
Bolivia					
Ore (b)	25 756	23 337	19 188	20 108	19 355
Brazil					
Ore	4 500	5 750	—	—	—
Chile					
Ore & concentrates	483	...	...	347	...
Colombia					
Ore	1 119	358	411	452	...
Peru					
Refined (b)	63 478	60 548	77 250	60 738	92 000
Ores & concentrates (b)	95 562	85 150	88 493	105 204	...
Burma					
Unwrought	2 688	7 423	8 582	7 500	4 713
Hong Kong					
Scrap	1 613	1 609	2 260	1 394	1 307
Iran (c)					
Ore	89 468	99 139	66 765	88 764	45 813
Japan					
Unwrought (a)	5 652	5 337	4 722	4 272	33 097
Korea, Republic of					
Ore	17 208	21 285	16 650	15 979	7 638

**Exports of Lead**

	tonnes				
Country	1970	1971	1972	1973	1974
Thailand					
Ore	3 366	1 620	2 160	1 520	170
Australia					
Ore & concentrates (b)	80 255	54 300	45 697	53 549	45 599
Base bullion (b)	166 678	165 104	144 997	145 458	148 302
Unwrought (d)	162 920	123 369	130 340	149 691	134 158
Unwrought alloys (d)	6 210	3 189	3 733	5 265	6 206
Scrap (a) (d)	441	865	183	262	937

Note: In this table the description "unwrought" lead corresponds to items 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 March 20 following that stated

(d) Years ended June 30 of that stated

## Imports of Lead

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ore & concentrates (b)	35 353	42 976	22 774	30 611	42 664
Unwrought (a)	255 869	231 426	206 889	216 046	216 756
Scrap (a)	4 539	2 776	3 034	2 630	3 685
Belgium-Luxembourg					
Ore	194 364	96 665	113 813	105 161	88 030
Unwrought	12 349	13 583	12 241	9 422	19 243
Unwrought alloys	4 650	8 661	4 073	4 192	5 543
Scrap	13 713	10 202	12 093	12 445	11 497
Denmark					
Unwrought	10 775	12 075	9 091	8 403	10 921
Unwrought alloys	558	1 756	1 156	1 105	1 371
Scrap	7 533	4 370	6 245	6 848	5 502
France					
Ore	137 822	149 886	159 837	150 422	165 544
Unwrought	44 139	38 409	34 286	30 556	36 652
Unwrought alloys	6 585	4 203	5 992	8 214	7 288
Scrap	6 224	5 488	13 393	12 619	21 757
Germany, Federal Republic of					
Ore	283 307	223 009	200 859	162 265	184 036
Unwrought (a)	126 278	126 443	122 025	136 143	128 693
Scrap (a)	26 314	13 232	17 052	31 007	35 773
Irish Republic					
Unwrought (a)	1 205	388	1 981	2 293	1 691
Italy					
Ore	31 934	28 165	24 699	38 478	61 144
Unwrought (a)	121 089	126 570	150 831	141 124	164 655
Scrap	31 089	19 769	20 874	20 263	29 229
Netherlands					
Unwrought	43 243	54 346	37 360	38 459	38 265
Unwrought alloys	19 030	16 416	13 356	13 213	8 623
Scrap (a)	3 938	6 287	12 885	35 606	20 489
Austria					
Ore	6 090	4 941	7 145	6 391	5 116
Unwrought (a)	19 328	15 385	14 814	15 453	20 199
Scrap	1 246	63	1 169	662	1 133
Finland					
Unwrought (a)	12 262	8 411	12 267	10 192	13 549
Greece					
Ore	16 362	20 474	20 308	16 007	4 848
Unwrought	8 213	8 173	18 702	18 238	14 763
Hungary					
Unwrought	15 557	14 875	11 208	12 991	12 051
Iceland					
Unwrought	86	72	66	82	60
Norway					
Unwrought	8 215	7 740	8 710	9 643	9 224
Unwrought alloys	2 923	3 310	2 994	2 941	4 479
Poland					
Unwrought	14 178	18 590	16 504	23 195	20 298
Portugal					
Unwrought (a)	9 529	11 937	10 493	9 955	14 012
Scrap	79	162	261	309	263
Soviet Union					
Unwrought	38 800	43 000	50 400	59 300	77 200
Spain					
Ore	5 025	8 820	24 727	33 011	14 638
Unwrought (a)	5 286	2 262	3 511	6 338	22 663
Scrap	10	12	127	984	1 214
Sweden					
Unwrought	4 946	5 401	2 459	912	4 753
Unwrought alloys	2 073	2 846	2 171	3 232	3 693
Scrap	1 190	1 397	2 546	2 078	1 740
Switzerland					
Unwrought	26 028	22 794	21 830	17 034	22 378

## Imports of Lead

tonnes

Country	1970	1971	1972	1973	1974
Turkey					
Unwrought (a)	2 930	5 782	6 590	4 468	...
Scrap	151	91	53	213	...
Yugoslavia					
Concentrates	...	445	3 048	3 768	6 233
Unwrought	5 291	8 852	5 093	12 880	16 149
Scrap	22	...	...	1 173	2 088
Egypt					
Unwrought & scrap	5 556	11 280	8 059	6 220	5 994
Ghana					
Unwrought (a)	52	63	131	127	190
Kenya					
Unwrought (a)	518	599	537	729	2 204
Libya					
Unwrought	245	169	726	1 315	1 464
Madagascar					
Unwrought (a)	221	374	344	328	393
Mauritius					
Unwrought (a)	1	5	13	18	3
Morocco					
Unwrought	...	210	1 861	2 166	2 021
Unwrought alloys	8	15	110	232	118
Mozambique					
Unwrought	77	166	428	472	3 883
Nigeria					
Unwrought & semi-manufactures (a)	417	1 250	848	808	51
South Africa					
Ore	...	...	11 025	10 420	25 508
Unwrought	10 493	10 627	10 046	6 129	4 043
Scrap	5 497	2 047	1 928	2 684	4 666
Tanzania					
Unwrought (a)	121	357	110	190	29
Uganda					
Unwrought (a)	43	66	40	...	34
Barbados					
Unwrought (a)	13	48	34	36	63
Canada					
Unwrought	1 996	4 202	10 465	3 639	11 357
Costa Rica					
Unwrought (a)	89	45	27	76	138
El Salvador					
Unwrought (a)	117	199	317	250	50
Honduras					
Unwrought (a)	38	49	22	21	85
Jamaica					
Unwrought (a)	193	94	81	67	...
Mexico					
Unwrought	13	9	10	13	12
Nicaragua					
Unwrought (a)	194	121	...	239	171
Trinidad & Tobago					
Unwrought (a)	5	—	13	98	223
USA (b)					
Ore matte & flue dust	38 652	79 999	46 849	97 853	85 546
Base bullion	1 067	37	812	4	754
Unwrought	213 804	168 219	211 876	151 321	96 778
Unwrought alloys	8 113	6 478	10 927	10 244	10 603
Scrap	2 367	1 396	692	949	713
Argentina					
Unwrought	1 665	663	1 913	681	1 763
Brazil					
Unwrought (a)	1 331	7 753	8 025	20 352	20 168

## Lead

## Imports of Lead

	tonnes				
Country	1970	1971	1972	1973	1974
Chile					
Unwrought & scrap	2 783	2 651	4 091	3 212	3 306
Colombia					
Unwrought (a)	2 525	1 898	1 934	3 355	...
Ecuador					
Unwrought	311	...	268	...	...
Guyana					
Unwrought (a)	43	12 969	113	101	...
Uruguay					
Unwrought	993	1 037	671	704	...
Venezuela					
Unwrought (a)	...	3 371	3 268	1 295	524
Hong Kong					
Unwrought	449	429	261	441	568
Scrap	298	1 399	875	1 104	496
India (c)					
Ore	89	106	10	44	9
Unwrought	39 961	34 665	41 352	35 030	36 696
Unwrought alloys	183	454	30	37	413
Iran (d)					
Unwrought	7 689	8 246	2 098	2 682	6 016
Iraq					
Unwrought (a)	143	396	1 342	523	2 676
Israel					
Unwrought	1 828	1 096	2 036	1 117	1 100
Japan					
Ore	210 157	225 427	198 948	242 753	217 568
Unwrought	1 693	3 588	4 320	59 560	33 731
Unwrought alloys	473	50	921	4 923	2 823
Scrap (a)	2 639	1 759	4 133	7 928	1 677
Jordan					
Unwrought	1 279	1 360	3 030	2 335	1 770
Korea, Republic of					
Ore	...	989	3 960	1 410	1 138
Unwrought	...	2 864	2 984	4 760	6 812
Scrap	...	1 028	1 229	8 194	6 907
Lebanon					
Unwrought & scrap	1 167	1 188	1 333	1 987	...
Malaysia					
Unwrought (a)	178	144	250	1 144	1 037
Scrap	563	478	615	203	1 168
Philippines					
Unwrought (a)	5 716	6 484	5 652	5 094	4 565
Singapore					
Unwrought	1 366	1 158	1 058	3 031	3 524
Syria					
Unwrought	616	1 113	1 672	1 251	1 310
Taiwan					
Unwrought (a)	4 123	5 645	5 532	6 281	4 384
Thailand					
Unwrought	2 770	4 628	4 155	6 961	5 396
New Zealand (e)					
Unwrought (a)	5 901	4 115	7 032	7 008	8 720

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 March 31 following that stated

(d) Years ended March 20 following that stated

(e) Years ended June 30 of that stated



## Production of Manganese Ore

		tonnes				
Country		1970	1971	1972	1973	1974
Italy	(27%)	50 091	30 604	25 637	25 469	14 008
Bulgaria	(28%)	33 000	41 000	30 000	38 000	34 000
Czechoslovakia	(17%)	86 000	48 000	—	1 000	973
Greece	(49%)	6 523	6 127	5 305	6 222	7 920
Hungary	(23%)	169 000	167 000	155 000	136 000	114 000
Portugal	(38%)	5 526	4 734	5 348	181	71
Romania	(22%)	* 127 000	* 127 000	* 130 000	* 123 000	...
Soviet Union	(35%)	6 841 000	7 319 000	7 819 000	8 245 000	8 155 000
Spain	(31%)	10 478	18 079	13 171	6 792	7 000
Turkey	(40%)	14 394	13 942	15 100	5 552	4 546
Yugoslavia	(34%)	14 785	16 113	15 340	9 718	13 300
Angola	(38%)	23 000	28 000	24 200	6 238	...
Botswana	(40%)	48 310	34 348	687	340	8
Egypt	(35%)	4 387	4 278	2 409	2 636	4 947
Gabon	(50%)	1 453 359	1 866 479	1 936 660	1 978 359	2 137 932
Ghana	(48%)	398 600	466 570	508 838	290 130	252 130
Morocco	(50%)	112 376	101 456	96 067	146 149	174 691
South Africa (e)	(45%)	3 023 204	3 418 173	3 373 160	4 242 157	4 834 988
Sudan	(41%)	1 160	* 1 200	* 1 200	...	...
Zaire	(48%)	346 950	329 066	369 481	333 963	308 775
Mexico	(35%)	273 900	266 900	295 600	364 000	403 100
USA (a)	(13%)	334 118	179 926	133 502	184 208	247 578
Argentina	(30%)	31 613	13 772	14 289	12 588	26 062
Brazil	(45%)	2 731 582	2 872 504	2 402 475	2 594 419	2 791 309
Chile	(41%)	26 723	23 838	16 085	15 405	28 695
Peru	(37%)	1 922	9 753	11 024	7 778	1 634
China	(30%)	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000	* 1 000 000
India (f)	(35%)	1 456 192	1 840 523	1 642 456	1 488 939	1 501 856
Indonesia	(40%)	10 800	12 000	7 500	16 077	18 228
Iran (b)	(34%)	9 100	12 300	9 700	* 22 000	* 30 000
Japan	(31%)	270 431	285 005	260 747	188 667	166 578
Korea, Republic of	(42%)	2 397	2 134	2 000	1 721	2 107
Malaysia (d)		—	23 380	28 312	28 346	85 262
Philippines	(40%)	5 121	5 133	2 411	3 973	857
Thailand	(48%)	23 865	15 332	19 852	36 318	30 190
Australia	(48%)	751 113	1 050 537	1 164 831	1 522 424	1 521 989
Fiji	(35%)	23 171	7 657	—	—	—
New Hebrides	(42%)	16 263	40 771	27 801	30 133	* 47 000
World total (c)		19 700 000	21 700 000	21 600 000	23 100 000	24 000 000

## Note:

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

(a) Shipments of manganiferous iron ore only

(b) Years ended March 20 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	1970	1971	1972	1973	1974
United Kingdom	4 609	2 375	2 543	3 520	5 613
Belgium - Luxembourg	13 126	6 225	3 040	2 846	7 634
France (a)	1 310	320	3 827	9 923	2 212
Germany, Federal Republic of (a)	402	4 625	20 524	4 023	1 295
Netherlands	34 255	37 999	44 427	35 247	33 553
Greece	4 004	4 749	8 009	8 363	7 623
Norway	945	100	657	3 030	1 831
Portugal	3 000	1 004	7 360	3 386	3 680
Romania	28 900	49 200	37 000	20 800	54 800
Soviet Union (b)	1 258 900	1 371 800	1 291 900	1 306 700	1 482 000
Sweden	522	293	303	341	849
Turkey	5 080	2 236	...	520	...
Angola	20 591	11 262	38 981	8 162	...
Gabon	724 844	1 647 299	2 161 500	1 957 590	2 103 634
Ghana	403 345	418 842	475 250	290 130	280 501
Morocco	115 455	91 788	117 693	151 108	164 940
South Africa	2 125 872	2 681 403	2 450 461	3 677 173	4 221 100
Zaire	271 754	230 093	270 137	...	...
Mexico	81 406	61 674	144 257	191 242	256 919
USA	18 410	50 270	22 778	52 116	202 439
Brazil	1 588 079	1 797 039	1 174 682	788 435	1 493 000
India (c) (d)	1 636 364	1 046 783	831 512	758 311	1 031 429
Iran (e)	9 144	12 320	9 652	* 22 000	* 20 000
Japan	2 947	3 142	3 350	1 812	4 887
Malaysia	—	12 904	33 530	62 594	107 663
Philippines	5 197	8 877	3 965	2 464	2 127
Singapore	1 021	737	1 095	2 320	2 404
Thailand	7 068	7 289	10 490	17 240	18 870
Australia (f)	648 936	703 828	768 300	...	...
Fiji	38 827	6 177	...	...	638
New Hebrides	28 544	40 871	36 695	30 682	47 311

(a) Includes manganiferous iron ore

(b) Includes dioxide

(c) Includes ferruginous manganese ore

(d) Years ended March 31 following that stated

(e) Years ended March 20 following that stated

(f) Years ended June 30 of that stated

## Imports of Manganese Ore

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	521 425	428 887	360 590	588 916	388 151
Belgium-Luxembourg	349 780	463 347	356 520	423 992	400 246
Denmark	11 562	5 763	4 810	3 385	2 676
France (b)	1 095 129	1 117 022	1 122 730	1 432 318	1 428 444
Germany, Federal Republic of (b)	712 901	820 753	475 926	716 337	828 337
Italy (b)	184 385	290 503	272 356	282 057	308 072
Netherlands	111 398	119 021	73 779	79 379	69 681
Austria	937	739	707	742	898
Czechoslovakia	202 000	313 000	388 000	441 000	475 000
German Democratic Republic (c)	68 255	74 800	76 000	61 600	67 400
Greece	5 585	3 941	16 532	2 394	22 570
Norway	544 708	735 699	721 194	714 776	1 033 047
Poland	389 388	401 200	505 463	525 488	555 624
Spain	200 350	173 993	259 677	331 098	384 103
Sweden	114 791	150 058	101 820	60 391	37 870
Yugoslavia	48 240	43 055	58 670	56 654	74 136
South Africa	1 797	275	738	636	1 030
Canada (c)	115 052	100 593	89 064	132 047	140 109
USA (d)	1 574 013	1 736 582	1 673 985	1 369 661	1 077 867
Argentina	34 175	35 958	41 706	55 919	98 673
Brazil	541	4 353	4 437	9 289	11 552
Hong Kong	100	340	460	662	680
India (e)	5 868	6 785	5 298	4 123	2 776
Japan (b)	2 657 633	3 314 580	2 981 118	3 411 606	4 038 317
Korea, Republic of	10 402	14 153	11 644	30 345	56 168
Malaysia	1 629	1 187	282	834	1 179
Philippines	4 096	4 481	5	2 433	1 192
Singapore	5 596	11 351	200	16 222	4 932
Australia (a)	8 444	4 531	4 864	4 870	1 722

(a) Years ended June 30 of that stated

(b) Includes manganese iron ore

(c) Manganese content

(d) Over 35% Mn

(e) Years ended March 31 following that stated

**Production of Mercury**

kilogramm

Country	1970	1971	1972	1973	1974
Irish Republic	44 950	80 830	43 100	46 300	26 800
Italy	1 533 000	1 469 000	1 441 000	1 127 000	894 000
Czechoslovakia	166 000	194 000	228 000	224 000	245 000
Finland	3 400	4 650	7 309	6 760	6 300
Soviet Union	* 1 655 000	* 1 724 000	* 1 724 000	* 1 750 000	* 1 862 000
Spain	1 542 200	1 700 115	1 877 000	2 070 000	2 075 000
Turkey	296 000	357 000	260 400	322 126	279 100
Yugoslavia	533 000	572 000	566 000	538 000	546 000
Algeria	—	245 000	462 000	455 000	525 000
Tunisia	3 450	11 710	8 200	3 850	2 900
Canada	841 142	637 751	503 306	430 913	482 600
Mexico	1 043 000	1 220 000	776 000	965 000	894 000
USA	940 976	616 481	253 342	76 771	75 400
Chile	13 359	17 307	22 046	27 496	* 27 500
Colombia	7 736	6 659	5 274	5 170	* 3 000
Peru	110 163	119 340	156 852	123 464	* 130 000
China	* 680 000	* 680 000	* 896 000	* 896 000	* 900 000
Japan	202 066	191 808	173 036	128 881	48 500
Philippines	160 231	173 055	115 207	74 461	28 000
Australia	1 291	302	593	544	.
World total	9 800 000	10 000 000	9 500 000	9 300 000	9 000 000

## Exports of Mercury

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom	109 763	54 166	71 384	46 904	153 891
Belgium-Luxembourg	20 300	19 800	19 900	50 300	184 100
France	18 000	5 000	10 000	5 000	5 000
Germany, Federal Republic of	35 700	45 700	48 700	35 700	85 900
Italy	533 978	524 100	377 200	715 900	592 500
Netherlands	8 000	(a) 13 000	(a) 39 000	(a) 17 000	(a) 12 000
Austria	9 400	9 300	12 500	11 700	15 900
Norway	8 000	7 000	66 000	16 000	2 000
Spain	1 492 000	1 134 000	1 068 000	1 643 000	1 346 000
Sweden	8 000	16 000	14 000	10 000	7 000
Switzerland	2 562	3 380	4 117	10 287	4 865
Turkey	270 481	386 435	292 255	276 151	* 250 000
Yugoslavia	480 213	492 501	471 506	467 135	327 870
Mexico	1 207 982	1 275 607	824 346	746 189	1 011 514
USA	160 412	249 307	13 782	111 783	16 077
Peru	73 303	80 307	153 820	96 980	* 90 000
Japan	12 625	33 386	12 759	67 402	33 012
Philippines	155 125	154 986	100 444	45 311	8 619

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

## Imports of Mercury

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom	345 217	429 430	785 447	741 719	833 366
Belgium-Luxembourg	121 900	162 400	208 200	79 300	1 985 500
Denmark	20 400	11 200	12 300	13 400	22 443
France	316 000	376 000	257 000	395 000	336 000
Germany, Federal Republic of	870 000	601 000	483 500	668 100	418 900
Italy	171 642	133 500	175 400	175 500	148 700
Netherlands	62 000	(d) 38 000	(d) 60 000	(d) 41 000	(d) 72 000
Austria	13 300	22 100	17 700	18 100	32 800
Finland	53 100	18 300	17 700	13 200	23 100
Greece	3 199	1 250	2 338	2 000	2 000
Norway	30 000	8 000	3 000	6 000	6 000
Poland	236 000	322 000	203 000	182 000	205 000
Portugal	31 000	32 900	24 400	10 500	20 000
Sweden	56 000	54 000	47 000	76 000	73 000
Switzerland	70 001	31 442	54 027	11 177	20 324
Yugoslavia	13 114	...	24 150	689	11 385
Angola	759	1 299	1 788	1 668	...
Morocco	2 025	3 002	3 386	2 555	2 340
Mozambique	101	63	19	118	78
South Africa	35 297	50 800	63 100	59 200	62 900
Tunisia	3 371	2	1 388	570	72
Canada	69 536	55 338	79 243	48 172	108 816
USA	757 441	980 743	994 008	1 586 646	1 796 138
Argentina	21 617	31 957	34 572	19 293	59 148
Brazil	106 612	118 702	114 928	128 951	169 263
Chile	16 283	1 000	88	563	7 169
Colombia	2 698	56 302	25 964	30 816	...
Uruguay	3 600	1 300	1 265	24 180	...
Venezuela	6 515	7 123	5 391	2 309	5 940
Burma	78 947	30 989	...	36 019	1 372
Hong Kong	15 657	19 945	23 021	24 062	33 775
India (a)	159 007	248 721	243 918	307 745	340 950
Iran (b)	327	15 313	17 790	22 794	16 277
Israel	13 000	16 000	11 000	1 000	3 000
Japan	1 244 820	518 648	448 324	544 467	264 985
Korea, Republic of	14 892	1 470 086	10 757	28 917	31 349
Malaysia	2 225	821	652	2 402	4 889
Philippines	389	259	213	276	190
Taiwan	54 501	128 976	44 001	58 111	...
Thailand	4 428	5 119	16 858	10 459	8 718
Australia (c)	34 888	44 233	42 838	55 004	102 534
New Zealand (c)	9 375	6 149	6 397	...	...

(a) Years ended March 31 following that stated

(b) Years ended March 20 following that stated

(c) Years ended June 30 of that stated

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

## Production of Mica

tonnes

Country	1970	1971	1972	1973	1974
France	3 098	3 122	3 926	4 296	* 4 300
Norway (a)(b)	4 328	3 478	4 126	4 445	4 158
Portugal	1 935	810	1 656	* 1 700	* 1 700
Soviet Union	* 38 000	* 38 000	* 39 000	* 40 000	* 41 000
Yugoslavia	227	554	126	28	87
Madagascar					
Phlogopite (c)	956	556	586	888	856
Mozambique	950	2	230	310	854
South Africa					
Sheet	10	3	2	—	1
Waste	7 551	7 160	4 247	6 009	2 696
Tanzania					
Sheet	57	37	18	32	76
Mexico	497	708	826	782	844
USA (d)					
Sheet (e)	...	8	6	14	...
Waste (f)	107 812	115 288	134 157	139 096	124 253
Argentina					
Sheet	90	160	116	435	* 400
Waste	1 314	3 096	2 640	2 505	* 2 500
Brazil	155	161	88	156	* 100
India					
Crude	16 485	14 855	14 114	13 830	13 804
Waste	5 311	4 540	4 842	5 107	4 876
Sri Lanka	1 032	694	428	272	* 300
World total (g)	189 000	193 000	211 000	220 000	203 000

(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	1970	1971	1972	1973	1974
United Kingdom					
Unmanufactured (a)	5 725	5 419	5 844	5 559	2 099
Belgium-Luxembourg					
Unmanufactured (b)	101	88	87	132	69
France					
Unmanufactured (b)	108	59	106	43	88
Ground	1 383	1 364	1 289	1 818	2 879
Germany, Federal Republic of					
Unmanufactured (b)	838	912	711	832	912
Italy					
Ground	70	26	13	81	531
Waste	369	224	338	64	55
Netherlands					
Unmanufactured (a)	75	49	203	536	600
Austria					
Unmanufactured (b)	5	12	1	17	3
Norway					
Unmanufactured	4 328	3 478	4 126	4 445	4 158
Portugal					
Unmanufactured (b)	352	290	377	—	—
Sweden					
Unmanufactured	6	31	3	1	4
Switzerland					
Unmanufactured (b)	74	82	63	90	87
Angola					
Unmanufactured (b)	63	...	4	...	...
Madagascar					
Unmanufactured	1 201	942	1 143	1 796	1 871
Mozambique					
Unmanufactured	759	518	300	300	952
South Africa					
Unmanufactured (b)	6 784	7 538	8 555	9 181	4 572
Tanzania					
Unmanufactured (b)	59	40	21	18	10
USA					
Unmanufactured (b)	7 920	6 524	6 331	6 617	7 640
Argentina					
Unmanufactured	903	1 919	2 848	2 552	1 332
Brazil					
Unmanufactured	1 854	2 541	2 578	1 738	...
India					
Blocks	1 721	1 359	1 305	1 018	940
Splittings	5 359	6 198	6 067	5 379	6 105
Condenser films	112	96	162	111	138
Powder	4 203	3 625	3 337	7 010	9 080
Waste & scrap	16 400	13 965	12 828	14 410	18 952
Japan					
Unmanufactured (b)	47	44	300	97	148
Korea, Republic of					
Unmanufactured (b)	...	300	772	3 228	3 576
Singapore					
Unmanufactured (b)	22	89	18	78	104
Sri Lanka					
Scrap	489	315	194	272	180

(a) Including splittings and waste

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



## Imports of Mica

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Block	372	195	123	222	212
Splittings	578	1 142	441	868	796
Ground & waste	12 330	13 535	6 880	8 450	7 001
Belgium-Luxembourg					
Unmanufactured (a)	2 176	1 515	2 064	3 397	3 171
Denmark					
Unmanufactured (b)	387	370	237	334	144
France					
Unmanufactured (a)	3 314	2 978	3 545	2 864	6 342
Ground	1 653	1 609	2 186	2 256	1 256
Germany, Federal Republic of					
Unmanufactured (a)	9 108	7 896	8 520	8 722	9 505
Italy					
Unmanufactured (a)	597	1 039	670	209	497
Ground	906	939	1 015	737	563
Netherlands					
Unmanufactured (a)	1 321	1 129	1 610	1 994	1 737
Austria					
Unmanufactured (a)	299	317	398	444	285
Finland					
Unmanufactured (a)	752	987	315	230	257
German Democratic Republic	1 165	1 073	1 259	1 490	2 907
Greece					
Unmanufactured	69	39	58	72	55
Norway					
Unmanufactured	1 916	1 076	890	280	331
Waste	2 515	2 702	4 940	2 975	3 724
Poland					
Unmanufactured	1 508	1 658	1 666	1 848	1 390
Portugal					
Unmanufactured	196	230	274	391	294
Romania					
Unmanufactured	560	129	181	231	...
Soviet Union					
Unmanufactured	483	478	539	160	725
Spain					
Unmanufactured	1 051	1 060	1 230	1 422	1 104
Sweden					
Unmanufactured (a)	1 224	1 114	957	1 108	883
Switzerland					
Unmanufactured (a)	771	678	747	697	695
Turkey					
Unmanufactured	21	47	6	41	...
Yugoslavia					
Unmanufactured	165	158	191	187	266
Algeria					
Unmanufactured	91	130	...	439	...
Kenya					
Unmanufactured (a)	25	74	12	13	18
Madagascar					
Unmanufactured	15	15	0	0	...
Morocco					
Ground	27	21	20	26	17
South Africa					
Unmanufactured	676	1 205	420	469	357
Mica & micanite sheets	47	36	44	21	55
Sudan					
Unmanufactured	13	5	5	2	—
Tanzania					
Unmanufactured (a)	18	2	8	17	25
Tunisia					
Unmanufactured (b)	19	18	1	7	43
Canada					
Unmanufactured	3 422	4 758	4 700	5 786	4 876

## Imports of Mica

tonnes

Country	1970	1971	1972	1973	1974
Costa Rica					
Unmanufactured	1	1	2	8	12
Guatemala					
Unmanufactured	12	6	12	9	28
Jamaica					
Unmanufactured	85	137	192	308	...
Mexico					
Unmanufactured	234	258	156	238	296
Waste	31	84	51	18	51
Trinidad & Tobago					
Unmanufactured (a)	27	44	47	59	61
USA					
Unmanufactured	88	166	271	79	} 3 240
Ground	2	48	10	102	
Waste	2 743	3 304	1 198	2 301	} 2 519
Film & splittings	2 234	2 293	2 476	2 097	
Argentina					
Unmanufactured	44	41	42	28	20
Brazil					
Unmanufactured	21	46	—	10	8
Chile					
Unmanufactured	50	97	39	17	49
Colombia					
Unmanufactured	61	43	43	67	...
Venezuela					
Unmanufactured	340	385	479	379	460
Hong Kong					
Unmanufactured	43	9	24	8	9
Iran (c)					
Unmanufactured	60	173	347	(a) 1 819	(a) 1 612
Israel					
Unmanufactured (a)	95	91	37	34	29
Japan					
Unmanufactured (b)	7 012	3 008	2 663	5 261	5 092
Waste	3 525	3 513	4 671	4 671	4 364
Korea, Republic of					
Unmanufactured (a)	...	—	80	124	195
Lebanon					
Unmanufactured	28	22	35	36	...
Malaysia					
Unmanufactured (a)	3	6	6	22	30
Philippines					
Unmanufactured	44	80	68	93	50
Singapore					
Unmanufactured (a)	508	1 314	994	650	2 227
Thailand					
Unmanufactured	39	88	48	150	93
Australia (d)					
Block & sheet	10	8	6	30	5
Splittings	70	88	110	89	31
Ground	246	381	254	536	405
Waste	551	659	510	426	746
New Zealand (d)					
Unmanufactured (a)	£12 041	£12 567	£14 128	...	...

(a) Including waste

(b) Including ground

(c) Years ended March 20 following that stated

(d) Years ended June 30 following that stated

## Production of Molybdenum

tonnes (MoS<sub>2</sub> content or equivalent)

Country	1970	1971	1972	1973	1974
Bulgaria	* 200	* 200	* 200	* 200	* 200
Norway	505	549	522	188	...
Soviet Union	* 12 900	* 13 300	* 13 700	* 14 200	* 14 700
Canada	25 532	17 133	21 540	22 975	23 237
Mexico	235	131	130	68	72
USA	84 248	82 916	84 843	87 658	84 747
Chile	9 500	10 535	9 808	8 072	16 274
Peru	1 012	1 337	1 277	1 078	1 284
China	* 2 500	* 2 500	* 2 500	* 2 500	* 2 500
Japan	441	464	374	262	177
Korea, Republic of	192	177	84	85	126
Philippines	54	6	—	—	—
Australia	98	23	9	8	6
World total (a)	137 400	129 300	135 000	137 300	143 000

## Notes:

1 This table includes by-products of other metal mining and processing

2 1.668 tonnes MoS<sub>2</sub> = 1 tonne Mo

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

## Exports of Molybdenum

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Molybdenum metal	52	51	58	118	149
Belgium-Luxembourg					
Ores and concentrates	542	1 767	1 601	2 376	3 317
France					
Oxides and molybdates	176	201	271	844	450
Germany, Federal Republic of					
Ores and concentrates	265	448	929	240	327
Molybdenum metal	262	152	226	292	172
Netherlands					
Molybdenum metal	137	194	117	119	71
Austria					
Molybdenum metal	491	441	491	591	706
Norway					
Ores and concentrates	506	550	584	218	—
Canada					
Ores and concentrates (a)	13 759	10 408	14 211	11 313	12 420
USA					
Ores and concentrates (a)	25 282	20 994	20 576	33 547	35 689
Metal, alloys and scrap	304	101	40	67	48
Chile					
Ores and concentrates	5 623	5 127	7 352	3 606	6 391
Oxides	2 078	3 977	3 258	...	...
Peru					
Ores and concentrates (a)	713	411	1 176	633	...
Korea, Republic of					
Ores and concentrates	238	141	112	45	75
Philippines					
Ores and concentrates	29	11	...	...	17

(a) Molybdenum content

## Imports of Molybdenum

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores and concentrates	11 716	7 824	9 051	11 234	10 569
Molybdenum metal	166	124	162	164	196
Belgium-Luxembourg					
Ores and concentrates	5 112	4 561	9 542	10 987	12 545
Oxide	37	84	56	89	16
France					
Ores and concentrates	9 431	5 391	5 331	7 544	8 836
Oxides and molybdates	90	68	143	442	763
Molybdenum metal	93	100	152	178	158
Germany, Federal Republic of					
Ores and concentrates	15 976	12 453	14 192	18 795	17 556
Molybdenum metal	411	372	271	403	354
Italy					
Ores and concentrates	4 648	3 769	5 705	6 631	8 439
Molybdenum metal	47	43	54	92	79
Netherlands					
Ores and concentrates	18 785	18 000	18 000	28 000	29 000
Molybdenum metal	73	55	128	153	137
Austria					
Oxide	702	637	891	675	1 351
Poland					
Ores and concentrates	282	489	354	...	...
Sweden					
Ores and concentrates	7 489	5 266	5 903	8 237	8 456
Molybdenum metal	39	36	51	65	74
Canada					
Oxide	34	29	12	90	86
Mexico					
Ores and concentrates	34	286	433	522	981
USA					
Metal	2	61	63	60	70
Argentina					
Oxides and molybdates	65	63	97	99	105
Japan					
Ores and concentrates	15 121	12 814	10 235	16 613	17 778
Molybdenum metal	144	44	142	288	146
Australia (a)					
Oxide	25	3	3	3	22

(a) Year ending 30th June of that stated

## Nickel

## Mine Production of Nickel

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Albania	* 4 000	* 4 000	* 4 600	* 6 000	* 6 000
Finland	5 261	3 723	5 350	5 800	* 6 300
Greece (d)	8 600	10 600	11 300	13 900	15 100
Norway	298	360	377	465	576
Poland	* 1 500	* 1 500	* 1 500	* 2 000	* 2 000
Soviet Union	* 110 000	* 110 000	* 115 000	* 115 000	* 125 000
Botswana	—	—	—	600	5 990
Morocco	213	* 200	* 230	* 300	* 400
Rhodesia	* 11 000	* 11 600	* 12 000	* 11 800	* 11 500
South Africa (a)	11 557	12 757	11 656	19 426	* 22 100
Canada (b)	277 491	267 023	234 949	249 047	269 071
Cuba (c)	36 775	36 455	36 789	* 36 500	* 34 000
Dominican Republic (d)	—	200	17 400	28 298	30 492
USA (e)	14 454	15 455	15 299	16 576	15 076
Brazil	2 990	3 271	3 398	4 122	3 536
Burma (f)	34	30	15	21	22
Indonesia	10 800	12 000	* 14 100	* 15 800	* 16 000
Philippines	103	222	384	399	326
Australia	29 800	35 500	35 500	40 100	43 930
New Caledonia (g)	138 500	150 900	108 061	115 372	136 800
World total (h)	660 000	670 000	630 000	680 000	740 000

(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) Shipments

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

(g) Includes Ni content of ores, nickel matte and ferro-nickel

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

## Exports of Nickel

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Matte & other intermediate products of nickel metallurgy	6 683	3 309	2 680	952	1 558
Unwrought	33 406	31 728	33 343	36 546	40 070
Scrap (a)	2 529	2 262	2 644	2 379	4 237
Nickel oxide	767	1 005	1 065	1 127	1 498
Belgium-Luxembourg					
Unwrought	192	159	61	148	253
Unwrought alloys	191	418	127	91	107
Scrap (a)	801	813	1 708	1971	2002
Denmark					
Scrap (a)	201	151	212	154	120
France					
Matte & speiss	211	67	325	33	137
Unwrought	5 147	4 126	5 662	3 697	6 733
Unwrought alloys	214	213	105	89	514
Scrap (a)	1 688	1 046	2 508	1 732	3 406
Germany, Federal Republic of					
Unwrought & scrap (a)	2 920	5 148	4 203	3 696	5 850
Netherlands					
Scrap (a)	1 882	2 201	3 075	1 667	1 835
Austria					
Scrap	335	243	261	228	379
Finland					
Unwrought	3 694	3 402	4 749	5 617	5 394
Norway					
Unwrought	37 044	40 092	40 218	43 254	43 778
Scrap	177	158	297	240	309
Ores	6 666	8 212	7 946	11 535	13 515
Sweden					
Unwrought	842	525	918	690	292
Scrap (a)	495	491	679	1 223	622
Switzerland					
Unwrought & scrap (a)	1 170	644	707	789	1 086
South Africa (b)					
Matte & speiss	...	349	201	337	...
Unwrought	3 454	4 800	10 193	9 173	...
Canada					
Ores, concentrates					
matte and speiss (c)	88 805	105 683	104 144	91 068	85 240
Unwrought	138 984	113 854	108 974	120 667	119 381
Scrap (a)	3 916	1 867	1 934	2 187	2 654
Nickel oxide (c)	39 822	38 787	33 245	59 710	51 118
Cuba					
Nickel oxide (e)	16 364	16 068	12 522	18 839	16 033
Nickel sulphide (e)	19 263	17 113	19 201	19 482	18 012
Dominican Republic	—	* 400	* 17 000	* 30 000	* 31 000
USA					
Unwrought (a)	5 537	3 890	1 976	3 414	2 880
Scrap (a)	11 838	5 485	7 656	5 673	5 681
Burma					
Unwrought	166	2 207	166	...	345
Indonesia					
Ores & matte	313 489	812 869	837 674	566 562	928 368
Japan					
Unwrought (a)	406	182	—	200	523
Philippines					
Ores & concentrates	500	769	2 513	2 841	2 437

**Exports of Nickel**

tonnes

Country	1970	1971	1972	1973	1974
Australia (d)					
Unwrought & semi-manufactures	398	1 574	1 212	...	...
New Caledonia					
Ores	3 988 582	3 913 979	2 164 439	2 449 790	3 146 607
Matte	19 899	20 250	21 362	24 326	26 183
Ferro-nickel	111 944	116 324	155 576	136 587	181 321

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

(c) Ni content

(d) Year ending June 30 of year stated

(e) Ni-Co content (mainly nickel)



## Imports of Nickel

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Matte & other intermediate products of nickel metallurgy	73 366	75 194	60 390	48 174	49 854
Unwrought	34 537	45 582	16 954	21 497	22 371
Unwrought alloys	520	429	870	2 437	2 408
Scrap (a)	4 964	2 875	2 696	4 832	4 198
Nickel oxide	1 392	1 484	1 081	1 720	1 589
Belgium-Luxembourg					
Unwrought	1 441	2 112	2 334	1 933	2 703
Unwrought alloys	1 242	421	276	936	1 285
Scrap (a)	2 459	1 361	1 504	1 380	1 323
Denmark					
Unwrought	89	101	11	22	135
Unwrought alloys	9	2	27	38	56
France					
Matte & speiss	18 191	13 661	18 905	15 481	13 377
Unwrought	11 412	11 131	14 019	10 236	14 418
Unwrought alloys	219	153	162	263	889
Scrap (a)	535	564	751	1 986	1 544
Germany, Federal Republic of					
Ore	230	120	4	20	—
Matte & speiss	4 246	1 990	2 309	3 587	6 145
Unwrought (a)	38 780	32 604	35 126	34 470	44 306
Scrap (a)	7 720	5 031	7 009	6 968	8 160
Irish Republic					
Unwrought (a)	25	15	29	256	82
Italy					
Matte & speiss	5 185	2 612	4 349	5 152	4 622
Unwrought (a)	12 798	14 133	14 229	14 276	15 441
Scrap	430	779	1 220	1 383	1 609
Nickel oxide	2 186	918	467	481	2 536
Netherlands					
Unwrought	2 881	4 176	4 055	4 367	4 705
Unwrought alloys	622	575	127	213	115
Scrap (a)	2 600	3 019	3 817	2 847	3 317
Nickel oxide	1 300	1 643	1 194	1 137	1 019
Austria					
Matte & speiss	799	533	949	1 603	1 444
Unwrought (a)	2 453	1 433	2 385	1 755	2 369
Scrap (a)	58	176	239	322	381
Finland					
Unwrought (a)	200	145	120	133	831
Norway					
Matte (copper-nickel)	94 575	100 036	85 492	89 646	93 243
Scrap (a)	244	163	—	15	—
Spain					
Matte & speiss	355	363	312	468	150
Unwrought (a)	2 567	2 717	3 789	4 853	6 010
Sweden					
Matte & speiss	2 139	1 254	1 488	3 789	1 852
Unwrought	18 347	14 913	14 732	11 240	12 774
Unwrought alloys	371	196	645	829	972
Scrap (a)	1 266	409	453	472	1 056
Switzerland					
Unwrought & scrap (a)	2 328	1 796	1 531	1 104	1 392
Yugoslavia					
Unwrought	522	784	418	1 140	791
Canada					
Ore, concentrates & scrap (b)	26 923	17 560	23 273	13 208	10 677
Unwrought (a)	888	1 945	...	...	1 899
Mexico					
Unwrought	490	1 151	1 147	400	818
Nickel oxide	165	192	214	238	234

## Nickel

## Imports of Nickel

tonnes

Country	1970	1971	1972	1973	1974
USA					
Ore (b)	16	354	9	206	1
Ferro-nickel	12 928	23 798	46 938	81 447	92 923
Unwrought (a)	106 478	91 200	113 728	108 938	124 848
Scrap	1 950	1 212	2 092	2 397	3 356
Argentina					
Unwrought	325	422	655	642	766
Brazil					
Unwrought (a)	655	782	1 904	1 591	3 150
Chile					
Unwrought	52	235	262	65	61
Hong Kong					
Unwrought	160	276	200	247	318
India (c)					
Unwrought	1 560	867	514	841	1 412
Unwrought alloys	701	323	1 716	396	427
Scrap (a)	135	42	160	490	108
Japan					
Ore	4 670 316	4 903 261	3 152 016	3 539 381	4 218 308
Matte	18 301	15 756	13 196	30 391	39 780
Unwrought	10 136	8 316	11 980	14 299	16 298
Unwrought alloys	1 294	1 040	331	939	401
Scrap	285	109	313	88	19
Scrap alloys	1 140	803	1 515	1 137	1 417
Taiwan					
Unwrought (a)	291	655	1 190	1 748	1 601
Australia (d)					
Matte & speiss	682	1 308	623	929	177
Unwrought	1 337	1 949	1 224	1 003	1 439
Unwrought alloys	151	154	123	99	562
New Zealand (d)					
Unwrought (a)	28	132	89	389	540

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 March 31 following that stated

(d) Years ended June 30 of that stated

## Production of Crude Petroleum

thousand tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	84	83	89	88	88
Denmark	—	—	76	68	86
France	2 309	1 861	1 484	1 254	1 081
Germany, Federal Republic of	7 535	7 420	7 098	6 638	6 191
Italy	1 405	1 288	1 152	1 039	1 090
Netherlands	1 991	1 714	1 597	1 492	1 574
Albania	1 480	1 657	1 920	2 120	2 200
Austria	2 798	2 516	2 478	2 578	2 238
Bulgaria	334	305	248	190	144
Czechoslovakia	203	194	191	171	148
German Democratic Republic	* 90	* 95	101	64	* 75
Hungary	1 937	1 955	1 977	1 989	1 997
Poland	424	395	347	392	550
Romania	13 377	13 793	14 128	14 287	14 486
Soviet Union	355 000	372 000	421 000	421 000	451 000
Turkey	3 456	3 452	3 410	3 604	3 304
Yugoslavia	2 854	2 961	3 200	3 332	3 458
Algeria	47 253	36 346	50 048	52 500	49 000
Angola	5 065	5 721	7 055	8 175	8 750
Congo	19	14	336	2 054	2 300
Egypt	17 282	15 517	10 720	8 479	7 530
Gabon	5 423	5 785	6 304	7 598	10 202
Libya	159 890	133 012	108 800	105 300	74 766
Morocco	44	23	28	42	25
Nigeria	52 800	74 100	89 782	100 900	110 000
Tunisia	4 449	4 092	3 965	3 870	5 100
Canada	66 937	71 518	81 567	95 192	89 231
Cuba	* 159	* 120	* 112	* 138	* 120
Mexico	22 701	22 608	26 430	26 954	29 700
Trinidad & Tobago	7 409	6 843	7 433	8 806	9 889
USA	510 533	501 311	501 522	487 811	464 360
Argentina	20 797	22 409	22 968	22 457	21 928
Bolivia	1 279	1 950	2 316	2 504	2 143
Brazil	8 835	9 028	8 859	9 009	8 600
Chile	1 803	1 868	1 817	1 658	1 458
Colombia	11 619	11 413	10 403	9 737	8 910
Ecuador	210	197	4 148	11 060	9 378
Peru	3 813	3 278	3 432	3 740	3 750
Venezuela	194 306	185 620	168 437	175 776	156 167
Abu Dhabi	33 278	44 786	50 486	62 671	68 061
Bahrain	3 840	3 736	3 478	3 401	3 400
Brunei	6 807	6 433	8 950	7 156	9 545
Burma	818	843	822	826	763
China (a)	* 25 400	* 38 000	* 45 000	* 54 000	* 64 000
Dubai	4 282	6 243	7 671	11 414	12 108
India	6 808	7 185	7 373	7 198	7 491
Indonesia	42 400	44 320	53 730	65 690	66 407
Iran (b)	175 160	207 700	228 209	293 908	302 163
Iraq	76 448	83 771	70 224	94 617	97 108
Israel	80	70	47	38	46
Japan	820	802	760	746	716
Kuwait	137 397	146 785	151 180	138 255	114 390
Neutral Zone (c)	25 176	27 300	28 600	26 500	26 600
Oman	16 415	14 164	13 955	14 469	14 350
Pakistan	482	520	381	351	371

**Production of Crude Petroleum**

thousand tonnes

Country	1970	1971	1972	1973	1974
Qatar	17 520	20 220	23 400	27 500	25 000
Sarawak	859	3 275	4 362	4 291	3 845
Saudi Arabia	176 849	223 714	304 571	402 422	408 360
Syria	4 356	5 292	5 868	5 521	6 426
Taiwan	86	108	132	153	192
Australia	8 541	14 803	15 685	20 635	20 216
New Zealand	68	117	162	156	163
World total	2 302 000	2 425 000	2 602 000	2 846 000	2 815 000

**Note:**

The figures shown in this table exclude natural gasoline

(a) Including oil from shale and coal

(b) 1954 Oil agreement area only

(c) Neutral zone of Kuwait and Saudi Arabia

**Production of Natural Gas**

 Million m<sup>3</sup>

Country	1970	1971	1972	1973	1974
United Kingdom	11 099	18 460	26 567	28 799	35 761
Belgium	53	50	52	55	61
France	6 800	7 149	7 372	7 410	7 627
Germany, Federal Republic of	12 463	15 071	13 132	18 949	19 743
Italy	13 134	13 380	14 142	15 327	15 273
Netherlands	31 668	43 797	58 420	74 726	88 373
Austria	1 897	1 891	1 963	2 270	2 207
Bulgaria	474	327	220	226	180
Czechoslovakia	885	875	813	726	669
German Democratic Republic	1 233	2 853	5 055	7 012	7 732
Hungary	3 469	3 705	4 110	4 821	5 101
Poland	5 182	5 383	5 823	6 027	5 739
Romania	25 031	26 719	27 713	29 239	30 115
Soviet Union	197 945	223 703	221 000	236 000	261 000
Yugoslavia	977	1 151	1 242	1 329	1 447
Algeria	2 998	2 976	3 384	4 740	5 978
Gabon	28	32	35	40	46
Libya	* 260	* 710	* 2 540	* 3 240	* 2 800
Morocco	44	48	61	65	59
Nigeria	111	184	272	300	588
Tunisia	9	1	38	128	207
Barbados	3	4	2	4	2
Canada	64 481	70 764	82 488	88 333	86 239
Mexico	13 623	13 551	14 046	* 15 000	(a) * 17 000
Trinidad & Tobago	1 600	1 582	1 618	1 549	1 436
USA (b)	620 723	636 940	638 026	641 307	614 812
Argentina (a)	6 183	6 382	7 948	8 566	9 061
Bolivia (a)	866	2 296	3 424	4 281	4 081
Brazil	1 264	1 177	1 242	1 180	1 488
Chile	7 628	7 986	8 073	7 376	5 330
Colombia	1 323	1 449	1 727	1 698	* 17 000
Peru	476	480	486	* 510	* 530
Uruguay	26	26	26	26	...
Venezuela	28 316	26 593	25 506	27 643	23 340
Bahrain	—	506	1 132	1 602	2 036
Brunei	...	220	453	* 2 500	4 296
China	* 1 700	* 2 265	* 2 550	* 2 950	* 3 000
India	676	754	925	913	1 009
Indonesia	3 071	3 432	4 128	5 031	5 736
Iran	11 223	15 612	17 830	19 869	22 296
Iraq	785	870	934	1 210	* 1 300
Israel	134	124	124	54	66
Japan	2 359	2 433	2 475	2 595	2 572
Kuwait	5 800	4 400	5 144	5 268	4 980
Pakistan	3 790	3 049	3 577	4 248	4 992
Qatar	1 002	1 005	1 103	* 1 250	* 1 050
Saudi Arabia	2 261	2 652	2 806	3 150	* 3 200
Taiwan	918	1 090	1 264	1 454	1 600
Australia	1 502	2 238	3 188	4 099	4 676
New Zealand	107	301	354	303	484
World total	1 098 000	1 179 000	1 227 000	1 295 000	1 319 000

**Note:**

So far as possible the figures in this table represent gas utilized as fuel

(a) Including wasted gas

(b) Excludes production of helium

## Exports of Crude Petroleum

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	1 355 260	1 773 794	3 322 249	2 878 492	1 011 825
Belgium-Luxembourg	24 302	26 022	15 485	302 779	58 660
Germany, Federal Republic of	134 086	605	—	—	39
Italy	6	37	22	—	2
Norway	561 482	237 964	1 690 620	1 531 133	1 982 464
Soviet Union	66 800 000	74 800 000	76 200 000	85 300 000	80 600 000
Yugoslavia	113 966	186 993	104 842	90 756	46
Algeria	45 069 100	36 126 800	52 706 200	46 012 402	42 000 000
Angola	4 269 374	4 746 964	5 989 597	7 323 304	7 604 000
Congo	17 178	19 659	...	...	...
Egypt	3 579 073	528 895	5 224 871	9 681 436	940 072
Gabon	4 511 000	4 936 000	3 152 817	3 969 000	6 733 000
Libya	159 240 222	130 642 139	106 629 543	104 730 266	72 015 356
Nigeria	51 700 079	71 702 810	85 864 151	94 302 190	96 437 049
Tunisia	3 170 567	2 942 828	3 699 144	3 674 342	3 726 783
Canada	34 964 000	39 326 826	49 530 433	60 968 724	48 218 833
Netherlands Antilles	660 000	305 000	1 115 000	3 375 000	5 894 000
Trinidad & Tobago	2 306 574	2 296 355	2 736 396	4 334 572	5 186 141
USA	751 580	219 770	110 668	101 248	155 715
Bolivia	676 141	1 225 118	1 587 271	1 510 000	1 370 000
Colombia	4 202 817	3 054 138	2 049 639	1 339 946	70 000
Ecuador	38 790	43 272	3 405 985	9 383 377	8 340 000
Peru	235 100	147 800	142 900	17 200	...
Venezuela	128 881 000	122 491 000	113 193 000	112 413 000	92 800 000
Abu Dhabi	20 479 167	27 300 000	29 415 720	37 598 999	43 863 989
Brunei (a)	6 638 513	5 791 716	9 330 615	11 334 752	22 516 058
Indonesia	29 849 000	32 809 000	41 004 000	50 185 000	50 830 000
Iran (b)	149 033 683	160 419 784	216 831 191	272 587 683	212 013 043
Iraq	73 257 000	9 353 000	68 380 000	94 696 000	* 88 970 000
Japan	104 369	99 139	1 103 704	37 491	2 281
Kuwait	122 154 000	130 106 952	136 864 000	134 220 097	111 488 700
Malaysia	342 638	379 857	159 264	3 826 866	3 167 970
Neutral Zone (c)	20 500 000	22 675 000	23 266 000	24 137 000	26 154 000
Qatar	17 396 000	20 545 000	23 197 000	27 490 000	24 640 000
Sarawak (d)	3 744 000	6 639 000	3 424 000	3 174 000	2 991 000
Saudi Arabia	169 817 000	220 472 000	259 364 000	337 764 000	392 760 000
Singapore	6 866	105 820	61 044	20 851	9 521
Syria	3 520 921	3 465 179	4 197 488	4 325 428	6 159 929

(a) Exported to Sarawak for refining

(b) Years ended March 20 following that stated

(c) Neutral zone of Kuwait and Saudi Arabia

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

## Imports of Crude Petroleum

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	102 975 597	109 366 635	107 042 496	115 298 691	113 269 410
Belgium-Luxembourg	30 353 510	30 580 920	43 977 591	35 950 322	29 301 947
Denmark	10 121 818	10 664 444	9 875 164	9 755 876	9 355 520
France	100 162 702	104 748 661	121 065 264	136 510 651	130 351 074
Germany, Federal Republic of	98 786 443	100 229 654	102 600 061	110 493 097	102 542 676
Irish Republic	2 947 090	3 337 587	2 608 116	2 465 073	2 625 058
Italy	112 082 257	115 705 328	119 456 958	125 798 236	117 449 894
Netherlands	67 003 580	71 571 524	90 483 906	100 105 989	60 647 000
Austria	2 245 862	4 480 379	5 205 368	6 041 567	6 358 131
Bulgaria	5 696 000	7 547 000	8 279 000	9 652 000	10 550 000
Czechoslovakia	9 798 000	11 505 000	12 571 000	14 176 000	14 655 000
Finland	9 753 216	8 945 371	9 234 480	9 522 034	9 365 798
German Democratic Republic	10 315 000	10 919 000	14 858 000	16 045 000	16 434 000
Greece	4 778 501	4 856 682	6 995 803	12 320 524	12 196 574
Hungary	4 348 701	4 892 000	6 065 000	6 555 000	6 817 000
Norway	6 527 928	5 634 378	6 404 090	7 050 380	6 729 164
Poland	7 011 000	7 894 000	9 703 000	11 140 000	10 582 000
Portugal	3 643 877	3 987 381	4 253 264	4 305 893	5 686 739
Romania	2 291 400	2 858 100	2 872 500	4 143 300	4 538 000
Soviet Union	—	5 100 000	7 780 000	13 200 000	4 400 000
Spain	23 802 089	27 321 569	31 240 374	34 899 054	36 332 007
Sweden	11 762 000	11 910 364	11 202 979	10 605 743	10 051 427
Switzerland	5 382 843	5 186 463	4 817 568	6 092 931	6 008 689
Turkey	3 478 581	5 623 946	6 769 298	7 827 391	9 960 000
Yugoslavia	4 539 215	4 933 782	4 234 307	8 317 439	7 422 063
Canary Islands	7 048 377	7 810 120	...	...	...
Egypt	1 046 962	1 524 744	1 375 418	429 000	36 300
Ethiopia	559 074	513 500	398 254	473 761	470 562
Ghana	901 835	738 967	1 301 068	933 108	1 195 976
Ivory Coast	783 931	641 040	1 115 068	930 431	1 655 680
Kenya	2 205 594	2 540 564	2 499 151	2 715 981	2 807 206
Liberia	200 442	421 785	483 181	* 550 000	* 600 000
Madagascar	568 474	521 324	634 950	646 373	604 094
Morocco	1 530 665	1 622 635	1 753 072	2 261 687	2 584 895
Senegal	500 815	563 230	578 843	667 660	* 670 000
Sierra Leone	140 300	318 213	318 465	287 233	265 151
South Africa (a)	9 239 467	13 194 886	12 449 749	* 13 700 000	* 14 000 000
Tanzania	731 697	944 326	818 894	879 420	802 964
Tunisia	432 016	320 576	758 799	1 030 192	843 157
Zaire	622 561	679 000	719 000	732 000	...
Bahamas	2 734 847	3 109 209	1 724 931	11 572 339	8 560 755
Barbados	80 921	59 579	92 932	124 106	115 891
Canada	30 136 465	35 555 914	40 798 166	47 086 067	42 186 589
Costa Rica (a)	298 681	386 949	391 762	447 146	390 717
Cuba	4 261 000	4 757 000	4 749 000	5 000 000	* 5 350 000
Dominican Republic	463 568	...	...	832 000	1 020 000
El Salvador (a)	134 796	461 207	435 050	616 499	603 217
Guatemala	677 079	74 702	353 312	1 018 438	977 800
Honduras	701 546	688 793	628 855	681 121	311 897
Jamaica	1 669 186	1 528 321	1 433 115	1 522 000	* 2 220 000
Mexico	—	59 386	1 355 257	3 198 000	13 751 572
Netherlands Antilles	47 413 000	39 967 000	39 054 000	45 293 000	40 500 000
Nicaragua	414 684	540 157	...	457 307	622 409
Panama	3 658 323	3 904 402	3 948 664	3 647 784	3 505 841
Trinidad & Tobago	15 619 255	14 590 807	14 569 230	14 489 135	14 591 616
USA	87 292 539	107 454 008	142 925 920	202 136 830	212 765 025
Argentina	1 402 712	2 248 345	1 375 178	2 358 239	3 079 238
Brazil	15 796 648	18 730 780	22 940 613	32 110 673	32 730 692
Chile	1 976 201	2 930 574	21 867 032	2 289 908	4 746 732
Ecuador	969 657	1 238 654	1 162 000	894 000	860 000
Uruguay	1 764 000	1 829 000	1 641 000	1 791 000	1 370 000

## Imports of Crude Petroleum

tonnes

Country	1970	1971	1972	1973	1974
Bahrain	8 660 000	8 917 000	8 186 000	8 740 000	9 240 000
Burma	213 569	291 369	188 501	200 000	460 455
India (b)	11 657 160	12 978 999	12 016 398	13 946 986	14 489 846
Indonesia (a)	33 099	322 865	260 822	91 295	...
Israel (a)	5 422 539	3 973 287	5 883 367	6 749 145	...
Japan	179 806 703	202 961 864	227 318 837	264 269 888	253 956 666
Jordan	479 716	591 757	643 401	706 145	773 263
Korea, Republic of	10 500 000	11 548 907	12 638 580	22 089 049	16 456 788
Malaysia	3 037 778	2 644 559	2 759 163	3 493 752	3 144 576
Philippines	9 097 000	9 027 886	9 180 831	9 256 268	8 484 799
Sarawak (c)	6 620 420	6 308 211	1 541 000	1 142 000	692 595
Singapore	10 956 849	15 416 157	19 775 183	21 741 295	23 059 420
Sri Lanka	1 832 632	1 819 458	1 818 290	1 753 233	1 526 469
Syria	1 250 819	714 554	611 098	1 037 341	1 725 810
Taiwan	3 509 605	3 490 101	11 183 817	5 447 257	13 740 155
Thailand (d)	3 492 412	4 647 429	5 631 107	4 562 969	1 988 754
Australia (e)	21 116 670	12 488 305	9 998 326	2 299 306	9 311 236
New Zealand (e)	2 754 739	2 953 343	2 771 073	3 173 299	3 276 958

(a) Partly refined

(b) Years ended March 31 following that stated

(c) Total imports before deduction of re-exports

(d) Topped

(e) Years ended June 30 of that stated



## Production of Phosphate Rock

tonnes

Country	1970	1971	1972	1973	1974
France	26 000	19 000	18 000	35 000	20 000
Germany, Federal Republic of	69 000	60 000	75 000	93 000	85 000
Soviet Union					
Apatite	* 11 300 000	* 11 650 000	* 12 000 000	* 13 000 000	* 15 300 000
Phosphate rock	* 9 500 000	* 10 000 000	* 10 500 000	* 10 750 000	* 11 000 000
Algeria	492 253	490 553	490 000	611 000	790 000
Egypt	716 287	713 318	562 840	553 395	507 615
Kenya					
Guano	638	350	747	682	352
Morocco	11 399 494	12 008 060	15 105 000	17 077 000	19 600 000
Rhodesia					
Apatite	95 000	105 000	110 000	120 000	130 000
Senegal					
Phosphate rock	998 000	1 398 000	1 250 000	1 533 000	1 482 000
Aluminium phosphates	130 000	147 000	166 000	218 000	405 000
South Africa (a)	1 685 000	1 729 000	1 966 000	2 063 000	7 824 000
Spanish Sahara	...	...	150 000	696 000	(b) 2 173 000
Togo	1 508 000	1 715 000	1 928 000	2 272 000	2 480 000
Tunisia	3 016 000	3 162 000	3 387 000	3 474 000	3 823 000
Uganda					
Apatite	15 564	16 000	14 600	15 000	* 15 000
Mexico	47 000	58 000	62 674	71 542	* 72 000
Netherlands Antilles	143 000	156 000	111 584	92 533	107 048
USA (c)	35 143 000	35 277 000	37 041 000	38 226 000	41 446 000
Argentina					
Guano	317	594	410	541	* 500
Brazil					
Apatite (d)	* 100 500	* 123 800	* 173 200	257 042	* 221 000
Chile					
Guano	* 14 900	* 13 075	15 272	12 976	* 13 000
Colombia	12 000	10 000	6 821	10 421	* 10 000
Peru					
Guano	50 200	22 500	23 000	* 23 000	* 23 000
Venezuela	31 000	25 500	30 000	30 000	141 500
China					
Apatite	* 1 700 000	* 2 200 000	* 2 600 000	* 3 000 000	* 3 000 000
Christmas Island (b)(e)	1 063 564	990 721	1 074 476	1 493 408	1 808 844
India					
Apatite	15 768	11 307	11 614	9 980	11 971
Phosphate rock	149 544	232 170	216 693	136 512	433 545
Israel	880 000	764 000	873 000	633 000	951 000
Jordan	891 000	954 000	694 000	1 106 000	1 595 000
Korea, Dem. P.R. of	* 245 000	* 270 000	* 300 000	* 360 000	* 400 000
Philippines					
Phosphate rock	1 400	4 729	2 618	12 228	26 506
Guano	1 480	1 135	2 012	10	13 552
Syria	—	10 000	112 000	150 000	603 000
Vietnam, Democratic					
Apatite	* 455 000	* 550 000	* 280 000	* 500 000	* 1 200 000
Australia	14 489	6 786	1 051	1 144	1 484
Nauru (b)	2 124 910	1 870 650	1 340 272	1 581 579	2 323 182
Ocean Island (b)	508 836	619 638	511 632	742 350	548 450
World total	83 500 000	87 400 000	92 700 000	101 000 000	120 600 000

(a) Including apatite and aluminium phosphate

(b) Exports

(c) Marketable production

(d) Gross tonnage estimated on a basis of 60% P<sub>2</sub>O<sub>5</sub>

(e) Including phosphate dust

## Exports of Phosphate Rock

	tonnes				
Country	1970	1971	1972	1973	1974
Belgium-Luxembourg	7 883	11 525	45 421	38 134	39 805
France	2 628	2 552	3 494	1 494	2 759
Germany, Federal Republic of	4 658	6 724	7 070	7 728	11 902
Netherlands	6 379	370	6 258	39 681	81 990
Soviet Union					
Apatite ore	49 400	50 200	27 000	24 800	...
Apatite concentrates	5 600 000	6 000 000	6 300 000	6 600 000	6 000 000
Sweden	—	3 914	199	4 822	22 200
Algeria	418 025	467 425	341 500	218 455	399 000
Egypt	319 299	281 970	212 372	153 200	120 260
Morocco	11 535 625	11 867 653	13 576 988	16 089 408	18 690 766
Senegal	859 069	1 120 514	1 334 168	1 302 881	1 583 000
Seychelles					
Guano	6 534	6 337	9 217	7 111	...
South Africa					
Phosphate rock	229	2 208	3 684	15 232	37 097
Guano	1 589	3 575	2 256	5 191	...
Spanish Sahara	...	...	...	655 000	2 173 000
Togo	1 504 296	1 813 863	1 655 981	2 196 826	2 580 088
Tunisia	2 336 022	2 647 970	2 461 183	2 365 548	2 615 935
Mexico	13 182	10 087	6 482	1 973	5 239
Netherlands Antilles	91 521	...	90 053	70 087	* 105 000
USA	10 648 983	11 508 929	12 693 079	12 638 723	12 888 862
Christmas Island					
Phosphate rock	972 400	862 169	923 640	1 328 500	1 637 300
Phosphate dust	91 164	128 552	150 836	164 908	171 544
Israel	529 583	357 710	503 162	302 000	422 000
Jordan	656 227	647 278	952 371	1 088 575	1 468 958
Singapore	9 051	17 461	24 733	24 530	17 959
Syria					
Calcium Phosphates, natural	...	10	62 364	188 530	489 096
Nauru	2 124 910	1 870 650	1 340 272	1 581 579	2 323 182
Ocean Island	508 836	619 638	511 632	742 350	548 450

## Imports of Phosphate Rock

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	1 596 966	1 726 623	1 661 800	1 962 767	2 041 555
Belgium-Luxembourg	1 900 461	2 001 261	2 194 219	2 286 694	2 406 599
Denmark	318 665	313 026	324 355	344 958	350 877
France	3 549 291	3 816 617	4 048 571	4 692 903	5 573 575
Germany, Federal Republic of	2 802 018	2 757 336	2 872 153	2 849 090	3 089 146
Irish Republic	385 382	400 856	297 307	434 139	449 240
Italy	2 103 890	1 885 649	2 198 564	1 802 242	2 121 407
Netherlands	1 582 695	1 623 724	2 026 638	2 092 672	2 365 380
Austria	264 598	330 799	471 077	421 228	611 983
Finland	394 419	571 041	443 054	591 225	175 262
German Democratic Republic (a)	488 400	452 800	516 600	499 700	527 900
Greece	178 741	295 779	261 966	413 066	330 376
Hungary	603 540	637 769	504 000	522 000	603 000
Norway	369 184	347 813	370 517	403 925	418 001
Poland					
Apatite concentrates	662 000	953 000	1 232 000	971 000	741 000
Phosphate rock	1 356 000	1 513 000	1 633 000	1 554 000	2 120 000
Portugal	248 864	285 959	297 829	298 349	308 075
Romania (a)	317 000	340 600	404 400	510 600	561 300
Spain	1 386 244	1 539 574	1 988 307	1 926 620	1 186 096
Sweden	508 574	476 114	545 969	626 985	695 850
Switzerland	11 191	17 055	15 849	18 833	13 799
Turkey	83 796	291 879	360 658	329 231	* 716 000
Yugoslavia	789 673	769 537	1 062 337	1 035 040	1 199 220
Madagascar	496	700	1 771	148	150
Mauritius					
Guano	8 703	6 061	9 630	9 095	7 546
South Africa	32	3	3	386	34
Guano, etc.	5	233	1 050	4 553	6
Tanzania	...	...	26 800	38 770	80 145
Tunisia	50	1	118	404	400
Zambia					
Calcium Phosphate, natural	175	192	180	335	...
Canada	2 240 792	2 580 445	2 708 039	3 337 186	3 346 755
Mexico	825 001	1 075 213	1 147 095	1 289 972	1 492 270
USA	123 317	81 468	51 995	60 111	166 194
Brazil	428 158	661 467	858 473	933 043	1 304 037
Colombia	—	9667	9572	—	...
Uruguay	37 237	95 211	...	...	* 169 000
India (b)	752 219	797 795	782 099	907 426	1 096 455
Japan	3 125 006	2 985 267	3 040 339	3 189 935	3 844 959
Korea, Republic of					
Natural Phosphates	530 000	497 482	528 934	530 581	562 270
Lebanon					
Calcium Phosphate, natural	143 037	102 427	102 169	342 601	383 400
Malaysia	87 748	103 935	123 273	150 780	136 660
Sabah	59	33	161	246	5
Sarawak	4 752	7 729	...	5 530	2 674
Philippines					
Phosphate rock	155 208	123 321	164 023	171 401	116 756
Singapore	14 034	19 695	29 828	28 423	20 802
Sri Lanka	...	...	...	42 674	32 813
Taiwan	6 906	1	163 575	139 547	251 340
Australia (c)	2 691 833	2 107 385	1 654 276	2 281 291	3 109 470
New Zealand (c)	1 070 885	989 855	1 163 741	...	1 093 733

(a) P<sub>2</sub>O<sub>5</sub> content

(b) Years ended March 31 following that stated

(c) Years ended June 30 of that stated

## Production of Platinum Metals

kilogrammes (metal content)

Country	1970	1971	1972	1973	1974
Finland (a)	* 20	* 19	* 20	* 23	* 20
Soviet Union					
Crude platinum	* 68 400	* 71 500	* 73 100	* 76 200	* 77 800
Ethiopia					
Crude platinum	8	6	7	9	7
South Africa					
Platinum	* 46 700	* 38 900	* 43 500	* 73 400	88 085
Osmiridium (c) (d)	* 87	* 99	* 93	* 87	78
Canada					
Platinum metals (e)	15 005	14 779	12 629	11 018	11 963
USA					
Platinum metals (b)					
Platinum	250	317	115	173	128
Palladium	321	318	337	408	269
Iridium	39	15	18	30	12
Osmium	4	5	5	5	2
Rhodium	2	3	2	3	1
Colombia					
Crude platinum	820	797	740	820	656
Japan					
Platinum	103	107	132	212	169
Palladium	143	167	176	311	345
Philippines					
Platinum	11	22	84	77	42
Palladium	27	55	150	130	72
Australia					
Platinum	—	—	—	—	60
Palladium	—	—	—	30	164
Ruthenium	—	—	—	—	5
World total	132 000	127 000	131 000	163 000	180 000

(a) Recovered from copper refining

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

(c) From gold ores

(d) Sales

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

## Exports of Platinum

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom					
Platinum-					
Ingots, sponge and powder	17 471	13 291	17 659	20 813	17 756
Other (a)	6 735	6 538	9 288	9 790	23 100
Other platinum metals (a)	13 912	14 405	16 632	17 642	15 455
France					
Unwrought platinum (a)	21 607	1 331	2 580	1 732	2 337
Palladium (a)	456	542	661	1 423	697
Germany, Federal Republic of					
Platinum metals (a)	9 917	13 330	18 001	14 449	15 155
Italy					
Unwrought platinum (a)	1 874	622	1 287	1 167	1 364
Netherlands					
Unwrought platinum & platinum metal	124	126	66	9	334
Norway					
Platinum	609	865	1 397	1 205	959
Soviet Union					
Export data not available.					
Imports of platinum metals from Soviet Union into the following countries					
United Kingdom	1 019	1 053	4 390	2 489	—
France	1 136	1 565	2 506	4 416	2 608
Germany, Federal Republic of	5 317	7 018	9 757	7 361	8 445
Netherlands	119	478	67	463	56
United States	15 378	12 659	22 793	26 813	31 433
Japan	22 123	28 336	37 918	43 616	34 550
Yugoslavia					
Palladium	720	16	38	89	—
South Africa					
Platinum & platinum metals, unwrought or semi-manufactured (b) (f)	R 14 709	R 97 010	R 29 084 857	R 15 189 614	R 36 410 717
Canada					
Platinum metals	360	352	608	419	820
Ores & concentrates (c)	14 968	14 439	12 755	13 908	16 321
USA					
Platinum & Platinum metals ores and concentrates (d)	260	465	985	150	1 415
Platinum-					
Unwrought or partly worked	5 602	4 814	8 307	9 381	10 047
Platinum metals-					
Unwrought or partly worked	4 312	2 291	3 492	4 860	10 239
Colombia					
Platinum	909	827	757	806	...
Japan					
Platinum	833	529	3 764	3 972	2 185
Platinum metals	319	21	1 136	414	4 801
Platinum alloys	77	45	534	2 262	134
Lebanon					
Platinum	7	10	18	37	...
Taiwan					
Platinum & platinum metals (including alloys)	...	13	7 465	6 403	2
Australia (e)					
Platinum & platinum metals (a)	191	260	387	1 585	829

(a) Including alloys

(b) Including sponge platinum

(c) Platinum metals content of ores and concentrates exported for treatment

(d) Pt content

(e) Years ended June 30 of that stated

(f) Value only (Rand)

## Imports of Platinum

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	£ 47 693 000	£ 42 156 000	£ 26 340 000	£ 46 870 000	£ 3 300 000
Platinum & platinum metals	5 692	4 441	9 738	8 076	9 781
France					
Platinum, unwrought, & alloys	3 157	2 656	4 642	3 897	3 600
Palladium, unwrought, & alloys	2 056	2 412	2 388	4 975	3 222
Germany, Federal Republic of					
Platinum metals & alloys	20 069	19 589	23 928	22 440	26 578
Italy					
Platinum unwrought (a)	1 986	1 605	2 003	11 721	2 004
Platinum groupmetals including semis	1 599	1 681	3 760	2 305	2 855
Netherlands					
Platinum (a)	689	1 799	1 035	1 026	383
Austria					
Unwrought platinum & platinum metals (a)	473	309	1 210	382	276
Finland					
Unwrought platinum	56	150	25	111	105
Norway					
Unwrought platinum	21	108	18	54	66
Switzerland					
Unwrought platinum	2 226	1 752	5 538	10 150	14 146
Turkey					
Platinum & platinum metals	931	205	878	260	...
Yugoslavia					
Platinum & palladium	851	58	80	40	136
Libya					
Platinum & platinum metals (b)	1 035	158	151	...	117
Nigeria					
Platinum & platinum metals	1 451	2 211	333	14	19
South Africa					
Platinum					
Sponge	—	5	86	10	206
Ingots, bars, sheets or strip	42	237	15	...	...
Platinum & platinum metals	57	24	23	39	237
Tunisia					
Platinum	12	32	8	24	...
Zambia					
Platinum	24	40	23	23	...
Canada					
Platinum & platinum metals (c)	1 889	1 678	1 484	1 989	1 528
Costa Rica					
Unwrought platinum & platinum metals	250	190	233	243	341
Mexico					
Platinum	51	29	34	24	...
Palladium	131	147	215	210	...
USA					
Ores & concentrates	20	4	330	4 655	1 181
Platinum sponge grains & nuggets (d)	11 664	11 518	12 704	16 125	28 127
Unwrought or partly worked iridium, osmium & Osmiridium	275	867	1 442	742	1 097
Palladium	8 402	6 704	8 991	15 430	18 290
Rhodium	1 201	1 050	1 474	2 266	3 019
Ruthenium & other platinum metals	923	919	4 450	9 538	9 094

## Imports of Platinum

kilogrammes

Country	1970	1971	1972	1973	1974
Argentina					
Platinum	27	61	644	20	246
Palladium	48	120	58	49	7 060
Brazil					
Unwrought platinum	28	19	22	47	38
Venezuela					
Platinum & platinum metals (b)	51	94	81	350	690
Hong Kong					
Platinum unwrought	2 294	3 718	4 067	6 556	2 702
India (e)					
Platinum	171	338	314	668	442
Iran (f)					
Unwrought platinum & scrap	40	26	15	...	...
Japan					
Platinum	14 474	20 098	34 877	41 600	37 129
Palladium	19 679	21 741	28 900	27 055	21 099
Rhodium	456	273	313	548	764
Iridium, etc.	154	243	131	669	240
Alloys of platinum metals, unwrought or partly worked	403	238	234	344	245
Korea, Republic of					
Platinum	...	58	2 011	19	515
Platinum alloys	...	...	31	48	20
Lebanon					
Unwrought platinum	113	123	159	751	...
Malaysia					
Platinum & other platinum metals	29	31	33	87	38
Singapore					
Unwrought platinum	114	13	169	36	11
Taiwan					
Platinum & platinum metals	3	27	68	300	873
Thailand					
Platinum & platinum metals	76	68	68	436	1
Australia (g)					
Bars, rods, sheets, etc. of platinum & platinum metals (a)	360	7 755	7 413	14 656	41 984
Platinum metal powder (a)	5	2 436	4 407	207	1 238
New Zealand (g)					
Platinum & platinum metals	57	103	94	...	...

(a) Including alloys

(b) Unwrought or partly worked

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

(d) Pt content

(e) Years ended March 31 following that stated

(f) Years ended March 20 following that stated

(g) Years ended June 30 of that stated

## Production of Potash

tonnes (K<sub>2</sub>O content)

Country	1970	1971	1972	1973	1974
France					
Chloride	1 683 670	1 802 380	1 577 530	2 038 636	2 078 400
Other fertilizer salts	55 759	49 131	46 500	28 018	...
Germany, Federal Republic of					
Kainite, sylvinite	2 644 850	2 814 830	2 844 750	2 975 210	3 089 544
Italy					
Potassic salts, crude	241 000	286 000	216 000	215 000	245 000
German Democratic Republic					
Potassic salts	2 419 000	2 445 000	2 458 000	2 556 000	2 864 000
Soviet Union	* 4 450 000	* 5 350 000	* 5 400 000	* 5 900 000	* 6 100 000
Spain					
Chloride	519 938	508 640	533 187	474 041	398 130
Congo	206 267	430 150	474 000	442 000	475 300
Canada					
Chloride	3 173 243	3 572 938	3 927 618	4 261 996	5 495 769
USA					
Potassic salts	2 476 000	2 347 000	2 412 200	2 361 000	2 315 000
Chile					
Nitrate	22 200	26 200	19 900	21 300	* 20 000
China	...	* 210 000	* 280 000	* 300 000	* 340 000
Israel					
Chloride	513 000	550 000	579 000	582 245	* 600 000
World total	18 600 000	20 400 000	20 800 000	22 200 000	24 100 000



## Exports of Potash

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Fertiliser salts	10 973	1 488	2 822	1 832	3 032
Belgium-Luxembourg					
Fertiliser salts (a)	353	462	61	126	207
Carbonate	2 136	3 460	2 757	2 019	3 348
Chloride (a)	199 444	5 646	3 344	1 520	2 510
Nitrate	3	86	279	109	143
Sulphate (a)	167 541	190 893	194 330	245 974	284 410
France					
Crude natural	61 325	47 704	36 778	32 566	24 148
Caustic potash	10 102	11 699	10 084	11 080	19 110
Chloride	782 454	1 182 715	619 890	616 608	698 936
Sulphate	622	1 865	1 175	2 063	4 425
Nitrate	3 900	3 818	6 205	5 122	5 740
Germany, Federal Republic of					
Potassic salts, natural -					
crude	48 176	47 034	38 939	41 258	43 117
Carbonate	16 842	16 866	18 649	21 328	14 249
Chloride	1 339 032	1 361 287	1 434 513	981 783	1 014 132
Sulphate (a)	444 258	493 309	452 595	192 194	222 324
Caustic potash (b)	10 791	12 347	12 904	11 720	16 214
Italy					
Caustic potash	2 179	537	842	1 333	708
Sulphate	45 774	6 161	4 764	26 034	29 080
Netherlands					
Carbonate	2 876	1 672	1 704	630	648
Nitrate	275	(d) 157	(d) 213	(d) 252	(d) 227
Chloride (a)	147	103	15	171	1 199
Sulphate (a)	152	179	119	111	414
Caustic potash	87	40	41	103	74
German Democratic Republic					
Fertiliser salts (a)	1 739 000	1 757 000	1 820 000	1 819 000	2 089 000
Carbonate	8 364	7 604	8 526	8 274	9 315
Caustic potash	12 401	9 606	11 424	9 643	9 782
Portugal					
Chloride	979	1 044	1 020	616	75
Sulphate (a)	835	810	1 006	1 089	368
Caustic potash	13	9	25	11	4
Soviet Union					
Fertiliser salts	3 147 200	3 874 000	4 099 000	4 774 000	5 600 000
Spain					
Chloride	443 438	416 057	300 829	199 333	151 073
Nitrate	1 827	936	774	330	208
Sulphate	29 518	53 685	86 725	111 050	79 740
Sweden					
Caustic potash	2 616	2 142	2 523	3 553	3 816
Carbonate	—	38	—	8	—
Congo					
Potassic fertilisers	137 534	289 435	...	258 000	294 000
Ivory Coast					
Potassic fertilisers	43	1 205	154	...	815
South Africa					
Fertiliser salts & potassic fertilisers	5	918	719	2 313	...
Canada					
Potassium chloride muriate	4 965 820	5 451 316	5 749 779	7 129 826	9 044 151
USA					
Fertiliser salts -					
crude, natural	5 847	2 134	16 992	6 676	5 765
Chloride	720 086	684 526	1 028 727	1 173 541	1 008 067
Other potassic fertilisers	150 775	250 415	182 130	251 971	269 470
Caustic potash	6 217	25 297	6 380	6 877	5 901

## Potash

## Exports of Potash

	tonnes				
Country	1970	1971	1972	1973	1974
India (c)					
Nitrate	11	33	25	23	13
Caustic potash	279	161	438	1 222	595
Israel					
Carbonate	1 830	2 060	2 167	1 519	1 961
Japan					
Chlorate	950	1 368	1 025	376	185
Chloride	5 540	7 158	4 412	871	80
Sulphate	19 127	999	1 451	1 500	100
Caustic potash	2 121	4 079	5 006	3 362	4 373
Other potassic fertilisers	877	357	...	...	...
Singapore					
Potassic fertilisers	63 961	...	121 064	125 566	182 968
Taiwan					
Chlorate	503	732	685	527	557

(a) K<sub>2</sub>O content

(b) Including sodium hydroxide and potassium peroxide

(c) Years ended March 31 following that stated

(d) Excludes exports to Belgium-Luxembourg if any

## Imports of Potash

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Fertiliser salts, crude	24 321	35 388	37 803	35 217	23 685
Carbonate	11 185	10 884	10 886	14 381	13 305
Caustic potash	2 658	2 602	2 588	3 222	3 824
Chloride	759 510	811 025	663 001	731 062	799 267
Nitrate	9 919	9 163	8 481	10 896	11 665
Sulphate	34 529	38 115	25 589	43 236	31 778
Other potassic compounds	21 483	22 110	35 870	27 823	11 196
Belgium-Luxembourg					
Fertiliser salts (a)	14 346	11 625	14 132	14 926	13 493
Carbonate	5 552	6 188	6 382	5 009	7 573
Chlorates	626	691	541	391	421
Nitrate	2 002	2 001	1 984	781	1 237
Chloride (a)	667 221	471 720	504 750	585 189	632 900
Sulphate (a)	16 157	10 066	16 631	5 770	7 180
Denmark					
Carbonate	346	534	4 267	266	285
Caustic potash	1 425	1 312	1 565	1 991	1 130
Chlorate	106	91	43	12	(f) 16
Chloride	217 855	252 345	225 078	246 461	129 167
Nitrate	1 397	1 368	1 212	1 435	1 259
Sulphate	9 289	850	750	952	550
France					
Chloride	110 803	138 731	233 077	319 671	233 228
Sulphate	75 532	65 373	77 094	91 015	121 283
Nitrate	7 467	7 478	12 787	12 540	12 374
Caustic potash	216	128	170	179	129
Sulphate of magnesium and potassium	11 203	8 955	11 284	14 717	14 261
Germany, Federal Republic of					
Carbonate	3 470	4 847	6 249	5 479	9 905
Caustic potash	5 774	10 974	6 964	498	2 210
Chlorate (f)	721	608	460	403	314
Nitrate	3 564	4 464	4 497	3 022	3 512
Chloride	22 528	34 124	63 501	42 452	45 538
Irish Republic					
Chloride	244 773	239 567	228 368	...	...
Other potassic fertilisers	...	...	...	426 954	268 727
Caustic potash	333	520	606	2 970	602
Italy					
Fertiliser salts	44 963	37 976	24 552	40 542	29 164
Carbonate	7 489	9 019	8 196	9 742	11 357
Caustic potash	449	485	336	2 982	1 462
Chloride	217 319	242 031	175 482	1 237	607
Nitrate	4 898	3 957	4 049	6 995	14 280
Sulphate	21 657	48 058	30 599	25 491	1 110
Netherlands					
Fertiliser salts (a)	6 880	(e) 4 028	(e) 2 504	(e) 918	(e) 696
Carbonate	10 026	7 743	6 305	7 370	7 331
Chloride (a)	163 747	320 035	176 431	161 523	175 386
Nitrate	4 945	(e) 5 138	(e) 5 491	(e) 6 168	(e) 6 992
Sulphate (a)	44 650	73 291	36 290	36 027	38 032
Austria					
Fertiliser salts	77 738	60 174	55 289	31 010	39 746
Caustic potash	659	531	665	1 017	1 553
Carbonate	1 125	1 236	1 403	1 564	1 897
Chloride	220 446	237 705	288 282	220 741	299 128
Nitrate	854	669	647	840	917
Sulphate	18 274	35 037	37 553	32 937	40 556
Czechoslovakia					
Fertiliser salts (a)	526 000	569 000	611 000	577 000	591 000

## Imports of Potash

tonnes

Country	1970	1971	1972	1973	1974
Finland					
Potassic salts, natural	15	17	13	5	—
Chloride	201 124	230 694	221 192	265 862	268 801
Chlorate	269	337	303	216	167
Carbonate	979	1 023	1 079	1 880	2 352
Caustic potash	317	269	255	289	431
Nitrate	947	824	966	1 075	1 216
Sulphate	18 320	16 614	12 913	17 560	17 595
Greece					
Carbonate	1 755	1 554	1 233	1 416	...
Caustic potash	107	243	221	280	512
Nitrate	549	424	145	150	136
Sulphate	20 507	22 317	21 812	27 028	11 036
Hungary					
Fertiliser salts	604 761	739 000	792 000	856 000	991 000
Iceland					
Fertiliser salts	5 355	4 806	8 678	7 603	7 395
Carbonate	208	96	111	97	95
Caustic potash	28	42	7	10	...
Norway					
Fertiliser salts	129	127	319	172	219
Carbonate	288	401	448	384	407
Caustic potash	564	583	565	622	799
Chlorate	109	218	153	131	132
Chloride	159 015	158 148	165 567	151 421	170 685
Nitrate	208	238	255	1 788	3 903
Sulphate	64 482	78 950	69 337	96 344	97 865
Poland					
Fertiliser salts	2 215 000	2 191 000	2 108 000	2 422 000	2 658 000
Carbonate	5 528	4 510	4 987	4 782	7 208
Portugal					
Carbonate	330	307	393	526	454
Caustic potash	235	261	252	443	203
Chlorate	315	290	297	305	341
Chloride	30 912	35 073	47 201	41 916	52 696
Nitrate	604	550	638	815	635
Sulphate (a)	4 196	4 460	—	—	550
Romania					
Fertiliser salts (a)	29 900	34 200	58 600	59 800	64 700
Soviet Union					
Caustic potash	8 900	9 100	10 300	4 100	5 300
Sweden					
Fertiliser salts	449	456	385	323	650
Carbonate	1 121	1 194	1 037	1 309	2 044
Caustic potash	346	81	93	2 397	2 557
Chloride	198 431	176 316	9 462	1 064	272
Nitrate	1 716	1 411	1 580	1 696	1 889
Sulphate	39 886	31 219	—	—	—
Switzerland					
Fertiliser salts	107 972	97 215	98 146	95 009	101 665
Carbonate	1 989	1 695	2 088	2 220	2 760
Caustic potash	1 396	1 310	1 466	1 500	1 391
Nitrate	856	706	549	694	1 187
Sulphate	981	381	268	347	94
Turkey					
Carbonate	1 251	3 244	2 889	1 516	...
Caustic potash	374	647	803	421	...
Chlorates	418	838	894	460	...
Nitrate	197	148	295	773	...
Sulphate	...	200	16 269	—	...
Yugoslavia					
Fertiliser salts	14 829	772	68	—	—
Caustic potash	2 412	1 668	2 222	1 137	1 809
Chloride	280 851	332 667	367 095	325 141	375 860
Sulphate	7 406	10 216	8 108	6 082	7 561

## Imports of Potash

tonnes

Country	1970	1971	1972	1973	1974
Algeria					
Chloride	11 975	...	...	10 059	...
Sulphate	29 816	...	...	37 625	...
Angola					
Chloride	435	565	426	987	...
Sulphate	626	998	965	969	...
Cameroon					
Potassic salts, crude, natural	1 401	4 391	941	1 425	1 757
Potassic fertilisers	3 442	4 362	4 446	6 534	9 176
Central African Republic					
Potassic fertilisers	1 342	1 896	...	...	...
Ghana					
Potassic salts, crude	140	178	12	334	...
Fertiliser salts	342	411	...	1 141	2 709
Ivory Coast					
Caustic potash	40	118	223	...	8
Potassic fertilisers	24 214	28 550	24 469	14 649	35 996
Kenya					
Fertiliser salts	4 113	2 780	7 305	2 162	3 531
Libya					
Potassic fertilisers	472	200	200	...	—
Madagascar					
Fertiliser salts	4 343	3 502	3 931	3 177	4 462
Malawi					
Potassic fertilisers	83	443	182	...	...
Mauritius					
Fertiliser salts	5 360	10 580	9 366	7 888	21 089
Morocco					
Chloride	13 682	16 770	18 635	23 231	17 377
Sulphate	17 880	21 136	24 867	15 934	40 617
Nitrate	393	1 195	2 738	1 799	2 122
Chlorate	147	163	139	191	146
Caustic potash	107	97	102	119	147
Mozambique					
Potassic fertilisers	2 662	3 473	2 028	5 342	3 391
Nigeria					
Fertiliser salts	1 335	483	3 968	10 767	1 443
Senegal					
Fertiliser salts	8 027	4 440	10 667	10 492	...
Sierra Leone					
Fertiliser compounds	112	51	114	440	...
South Africa					
Fertiliser salts	93 655	209 408	181 456	180 665	237 433
Caustic potash	633	773	840	1 462	1 949
Potassic fertilisers	67 346	45 194	26 870	45 055	18 181
Sudan					
Caustic potash	153	1 205	2	2	5
Tanzania					
Fertiliser salts	2 162	3 166	5 427	6 278	6 179
Togo					
Potassic fertilisers	614	14	399	162	242
Tunisia					
Fertiliser salts	4 419	6 386	546	7 299	18 739
Nitrate	71	89	25	135	169
Uganda					
Fertiliser salts	5 378	1 596	2 992	1 420	—
Upper Volta					
Potassic fertilisers	2 276	1 174	...	...	...
Zambia					
Nitrate	573	229	...	...	...
Chloride	2	323	181	763	...
Sulphate	—	179	145	216	...
Other potassic fertilisers	1	314	...	...	...
Barbados					
Fertiliser salts	812	1	3	81	711

## Imports of Potash

tonnes

Country	1970	1971	1972	1973	1974
Belize					
Potassic fertilisers	326	202	83	636	—
Canada					
Caustic potash	1 647	905	1 644	1 740	1 953
Carbonate	992	1 134	1 099	1 057	1 481
Chloride	21 249	57 065	62 718	98	312
Nitrate	2 680	2 896	5 539	2 791	3 316
Sulphate	18 550	13 211	18 612	22 852	22 131
Other potassic fertilisers	24 678	13 815	26 157	44 829	51 637
Costa Rica					
Fertiliser salts	21 401	37 127	43 337	40 768	45 752
El Salvador					
Fertiliser salts	3 564	8 822	8 022	9 929	11 741
Guatemala					
Fertiliser salts	205	385	2 165	3 983	3 094
Honduras					
Fertiliser salts	5 916	5 189	435	619	3 746
Jamaica					
Fertiliser salts	12 547	9 351	12 526	...	...
Martinique					
Fertiliser salts	2 783	6 223	928	1 206	...
Mexico					
Carbonate	900	2 010	1 637	2 769	2 874
Chloride	49 739	55 332	60 819	77 352	67 504
Sulphate	23 478	17 108	20 526	19 285	20 081
Caustic potash	823	922	1 370	1 935	1 702
Potassium & sodium nitrate	6 580	7 486	5 094	2 093	...
Nicaragua					
Fertiliser salts	878	3 584	...	9 472	5 556
Panama					
Fertiliser salts	131	360	7	2 570	5 742
Trinidad & Tobago					
Chloride & sulphate	4 328	3 641	3 760	4 046	2 258
USA					
Carbonate	70	621	1 377	1 585	1 962
Caustic potash	2 551	3 102	1 417	954	1 697
Chlorate & perchlorate	596	565	392	469	396
Chloride	3 861 349	4 126 873	4 403 960	5 351 473	6 482 367
Sulphate	68 746	35 548	53 771	49 463	52 510
Cyanide	840	618	748	664	1 044
Nitrate, crude	13 182	19 941	18 947	43 722	12 799
Nitrate, refined	565	162	2 014	639	288
Potassium-sodium nitrate mixtures	50 947	55 491	25 241	48 335	24 437
Other potassic fertilisers	313	689	5 068	7 944	1 287
Argentina					
Carbonate	780	1 056	1 061	1 120	1 388
Caustic potash	1 181	1 022	741	544	1 111
Chlorate	696	828	860	677	496
Nitrate	142	46	86	55	215
Sulphate	3 220	2 624	2 811	3 954	1 151
Chloride	8 557	10 795	8 963	11 658	10 795
Brazil					
Caustic potash	2 251	1 464	1 815	3 336	3 695
Nitrate	202	101	3 079	7 240	10 713
Nitrate of potash & soda	9 432	8 810	5 210	18 350	11 392
Chloride	491 699	574 398	746 228	843 123	989 097
Sulphate	16 280	9 000	14 497	24 397	27 529
Carbonate	2 524	3 170	3 259	4 556	5 384
Chlorate	4	40	—	—	375
Chile					
Caustic potash	158	74	126	176	144
Chlorate	64	188	96	...	...
Chloride	23 053	35 685	18 729	29 095	28 440
Sulphate	10 408	5 911	9 252	8 114	16 479
Other potassic fertilisers	13 139	1	3 672	1 795	16 195

## Imports of Potash

tonnes

Country	1970	1971	1972	1973	1974
Colombia					
Chlorate	388	356	229	290	...
Chloride	38 217	46 969	60 117	52 033	...
Nitrate	480	264	271	471	...
Sulphate	19 118	10 503	14 194	33 061	...
Caustic potash	159	158	231	45	...
Carbonate	74	248	111	259	...
Guyana					
Sulphate	2 559	3 254	2 106	2 591	...
Uruguay					
Nitrate	19	120	21	22	...
Caustic potash	118	72	...	...	...
Venezuela					
Carbonate	...	60	110	61	10
Chlorate	...	269	145	122	—
Chloride	...	18 780	4 399	—	4 500
Nitrate	...	157	308	554	263
Caustic potash	...	337	165	498	25
Cyprus					
Fertiliser salts	853	1 598	1 839	625	1 199
Hong Kong					
Nitrate	605	662	534	807	332
Chlorate	5	8	38	...	51
Other fertiliser salts	9	14	12	15	8
Carbonate	90	121	123	112	144
India (b)					
Carbonate	245	236	263	231	34
Caustic potash	13	11	9	5	...
Sulphate	20 582	20	9	5 000	10 016
Chloride	56 036	184 807	359 159	402 128	471 025
Other potassic fertilisers	30 909	79 672	45 167	54 399	69 770
Indonesia					
Potassic fertilisers	13 825	27 783	...	...	...
Iran (c)					
Fertiliser salts	...	...	1 000	50	8 945
Caustic potash	46	46	273	160	21
Carbonate	68	89	537	...	...
Chlorate	266	262	155	...	...
Nitrate	...	131	113	...	...
Japan					
Fertiliser salts	25 158	22 830	35 461	26 868	48 182
Chloride	1 230 225	1 083 832	995 771	1 131 548	1 282 360
Sulphates	77 465	164 699	157 500	174 653	204 596
Jordan					
Fertiliser salts	4 357	5 011	448	742	310
Korea, Republic of					
Caustic potash	...	50	90	446	622
Chlorate	...	80	183	2	30
Nitrate	...	842	5 585	7 965	2 504
Carbonate	...	114	176	461	1 366
Sulphate	...	...	8 983	16 796	14 339
Chlorides	...	95 147	140 735	163 187	191 853
Other fertiliser salts	83 470	...	14 223	—	...
Lebanon					
Fertiliser salts	8 237	6 473	2 696	1 706	...
Malaysia					
Potassic salts, natural	176	447	436	998	610
Potassic fertilisers	98 886	96 681	138 862	150 784	175 994
Philippines					
Carbonate	68	83	299	192	183
Sulphate	2 492	1 600	2 002	1 500	1 981
Other potassic fertilisers	63 441	50 918	81 895	83 043	87 485
Sabah					
Fertiliser salts	4 891	6 588	5 773	4 865	8 401
Sarawak					
Potassic salts, crude, natural	306	505	...	173	473
Potassic fertilisers	1 482	633	...	932	3 007

## Imports of Potash

tonnes

Country	1970	1971	1972	1973	1974
Singapore					
Potassic fertilisers	79 843	...	129 531	145 386	226 279
Sri Lanka					
Potassic fertilisers	75 723	33 319	...	...	...
Taiwan					
Fertiliser salts	117 989	99 133	111 546	127 685	204 868
Carbonate	177	502	931	2 565	3 206
Nitrate	224	315	512	529	415
Caustic potash	247	259	397	357	235
Thailand					
Chlorate	405	258	455	384	251
Caustic potash	...	807	124	264	82
Chloride	...	200	250	692	300
Nitrate	1 624	1 311	1 363	708	1 796
Potassium-sodium nitrate	203	658	...	6 400	...
Potassium-nitrophosphate	...	217	1 543	1 115	2 662
Sulphate	900	1 850	1 500	2 300	...
Other potassic fertilisers	2 860	1 856	3 110	2 717	6 259
Australia (d)					
Carbonate	1 700	2 038	1 187	1 834	2 374
Caustic potash	1 989	1 856	1 818	1 911	2 152
Chloride	111 946	136 132	130 425	156 183	166 711
Nitrate	5 270	3 537	2 863	3 820	5 401
Sulphate	17 357	17 130	15 481	9 100	7 860
Other potassic fertilisers	5 970	2 467	890	128	8 310
Other compounds	457	698	587	574	970
New Zealand (d)					
Chloride	156 388	192 804	175 352	...	...
Nitrate	306	772	318	...	...
Sulphate	3 387	5 126	4 062	...	...
Other potassic fertilisers	4 850	196	782	...	...
Potassic compounds other than fertilisers	206	356	352	...	...

(a) K<sub>2</sub>O content

(b) Years ended March 31 following that stated

(c) Years ended March 20 following that stated

(d) Years ended June 30 of that stated

(e) Excludes imports from Belgium-Luxembourg if any

(f) Includes potassium and ammonium chlorate



## Production of Salt

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Rock salt	1 598 000	1 854 000	1 298 000	1 121 000	990 000
Brine salt	1 733 000	* 7 400 000	* 7 600 000	{ 1 643 000	1 862 000
Salt in brine (a)	5 698 000				
Denmark	436 045	3 440	306 079	368 427	422 815
France					
Rock salt (b)	1 222 000	1 214 000	1 291 000	1 570 000	1 677 000
Salt in brine	2 984 000	3 104 000	3 107 000	3 466 000	3 515 000
Sea salt	1 296 000	1 250 000	1 006 000	1 268 000	1 080 000
Germany, Federal Republic of					
Rock salt	8 324 840	6 719 354	6 027 759	6 564 113	6 982 667
Brine salt	701 166	761 135	714 016	750 402	820 190
Salt in brine	1 420 962	1 440 278	1 722 029	2 886 484	3 517 519
Italy					
Rock salt & brine salt	2 905 000	3 426 600	3 360 144	3 706 635	4 006 281
Netherlands (j)	2 871 000	3 167 000	2 803 000	3 059 000	3 381 000
Austria					
Rock salt	940	1 036	694	1 077	337
Evaporated salt	265 258	251 574	256 105	291 724	294 392
Bulgaria	135 000	93 000	104 000	110 000	* 130 000
Czechoslovakia	304 405	309 551	319 425	318 254	* 318 000
German Democratic Republic	2 130 000	2 171 200	2 136 700	2 235 600	2 328 000
Greece (c)	68 000	63 817	62 800	64 800	75 184
Malta (c)	3 167	3 000	2 000	...	...
Poland					
Rock salt	1 224 000	1 222 000	1 209 000	1 260 000	1 405 000
Brine salt & other salt	1 679 000	1 740 000	1 801 000	1 818 000	1 890 000
Portugal					
Rock salt	194 490	235 368	285 702	605 439	620 137
Sea salt	207 181	161 479	212 113	220 962	223 107
Romania	2 862 000	2 948 000	3 147 000	3 296 000	3 923 000
Soviet Union	* 12 400 000	* 12 000 000	* 12 000 000	* 12 200 000	* 12 500 000
Spain					
Rock salt	1 125 777	1 189 355	1 215 522	1 461 614	1 624 912
Sea salt	928 353	770 749	629 344	711 393	605 819
Other salt	26 126	18 878	20 935	23 727	26 318
Switzerland	333 845	290 829	256 097	299 248	306 757
Turkey					
Rock salt, lake & spring salt & sea salt	580 000	536 000	430 000	* 730 000	* 660 000
Yugoslavia					
Sea salt	23 510	53 715	8 654	50 940	25 857
Rock salt	84 625	85 531	79 346	97 623	93 082
Brine salt	101 668	63 239	27 122	17 114	15 273
Vacuum salt	45 015	148 774	153 084	165 528	186 617
Algeria					
Brine salt & sea salt	* 99 000	* 116 500	* 108 000	* 130 000	* 140 000
Angola	87 743	90 284	125 302	96 717	* 100 000
Cape Verde Is.	16 816	32 937	36 443	38 870	* 35 000
Egypt	443 600	424 508	382 781	454 312	1 579 977
Ethiopia (d)	260 000	254 000	162 765	107 077	121 932
Ghana	16 123	47 200	49 895	49 900	* 50 000
Kenya	39 271	43 406	27 761	30 946	30 256
Libya	* 16 000	* 16 000	* 16 000	* 16 000	* 16 000
Mauritius (c)	4 500	5 400	4 500	* 6 000	* 5 000
Morocco	57 075	53 005	45 508	27 600	36 054
Mozambique	28 742	27 743	28 123	42 000	* 31 000
Nambia	* 110 000	* 110 000	* 110 100	* 110 000	* 209 000
Senegal	117 749	116 000	135 170	139 706	* 150 000
South Africa	420 060	352 466	370 423	391 249	220 839
Sudan	53 000	58 000	42 277	66 730	66 987
Tanzania	41 944	37 278	32 467	38 392	37 800
Tunisia (c)	301 000	351 000	330 000	355 000	244 000
Uganda	2 277	2 722	* 2 700	* 2 700	* 3 000

## Salt

## Production of Salt

tonnes

Country	1970	1971	1972	1973	1974
Bahamas	621 000	1 213 000	807 000	1 121 000	1 027 000
Canada					
Rock salt	3 272 521	3 670 373	3 539 018	3 436 453	3 418 847
Other salt (e)	1 588 989	1 357 157	1 375 134	1 611 693	1 755 736
Costa Rica	7 000	11 000	20 000	13 000	* 14 000
Cuba	52 179	62 102	57 411	* 55 000	...
Dominican Republic					
Rock salt	—	1 848	2 217	2 022	} * 39 000
Sea salt	37 956	36 707	29 237	37 105	
El Salvador (c)	31 000	31 000	29 030	35 000	26 000
Guatemala (c)	12 229	15 997	10 379	22 175	...
Honduras	* 27 000	* 27 000	* 27 000	29 622	28 137
Mexico	4 153 000	4 360 000	4 558 415	4 318 980	* 4 800 000
Nicaragua (c)	111 700	45 000	1 648	1 916	8 058
Panama (c)	7 000	8 000	10 978	21 000	* 25 000
Turks & Caicos Is.	2 439	2 337	2 032	1 524	...
USA (f)					
Rock salt	12 855 000	12 428 000	13 094 000	11 201 000	13 458 000
Salt in brine	23 794 000	22 180 000	22 441 000	23 297 000	23 386 000
Evaporated salt	4 988 000	5 378 000	5 307 000	5 338 000	5 372 000
Argentina					
Rock salt	1 160	2 813	1 465	1 658	} * 708 000
Other salt	457 566	820 967	819 305	697 608	
Brazil (c)	1 826 172	1 476 864	2 168 082	1 854 595	1 552 418
Chile	516 000	425 000	437 263	344 730	354 000
Colombia					
Rock salt	532 335	337 526	335 842	470 000	* 499 000
Sea salt	230 280	300 000	673 965	843 000	* 898 000
Peru					
Rock salt, sea salt & brine salt	191 000	185 167	216 000	* 218 000	* 218 000
Venezuela (c)	265 396	* 260 000	* 260 000	* 260 000	* 223 000
Afghanistan (g)	39 626	40 000	38 100	38 100	50 848
Bangladesh	...	* 130 000	* 320 000	* 760 000	* 170 000
Burma					
Sea salt & brine salt	160 000	186 000	161 000	210 000	223 531
China	* 16 000 000	* 16 500 000	* 18 000 000	* 18 000 000	* 18 800 000
Cyprus	6 999	6 952	5 766	—	3 552
India					
Rock salt	4 017	3 845	4 252	3 598	5 272
Other salt	5 588 000	5 780 000	6 515 748	7 402 000	7 257 478
Indonesia	63 000	42 000	180 000	37 000	* 200 000
Iran (g)	350 000	390 000	400 000	350 000	* 400 000
Iraq (h)	* 51 000	* 54 000	* 54 000	* 64 000	* 64 000
Israel	66 300	79 464	61 689	62 000	112 756
Japan (i)	961 000	946 000	687 000	1 015 000	1 115 111
Jordan (j)	15 428	17 334	19 895	16 729	15 895
Korea, Dem. P.R. of	* 550 000	* 550 000	* 544 000	* 544 000	* 544 000
Korea, Republic of	405 000	372 000	452 000	742 000	574 000
Lebanon (c)	25 000	30 000	35 000	34 000	35 000
Pakistan					
Rock salt	319 597	349 082	368 062	378 389	355 488
Sea salt	447 381	269 818	212 407	103 637	124 974
Philippines (c)	210 000	235 000	219 500	220 000	195 671
Sri Lanka	64 370	86 144	157 677	123 041	120 287
Syria	46 000	24 000	50 000	35 100	40 000
Taiwan (c)	535 209	669 692	440 079	314 749	362 809
Thailand	* 200 000	* 160 000	* 163 000	* 163 000	* 163 000

## Production of Salt

Country	tonnes				
	1970	1971	1972	1973	1974
Vietnam, Democratic	* 150 000	* 150 000	* 100 000	* 150 000	* 150 000
Vietnam, Republic of	167 610	134 182	149 000	150 000	* 150 000
Yemen Democratic Republic	60 000	60 000	63 000	* 70 000	* 75 000
Yemen Arab Republic	88 000	39 000	0	—	—
Australia	3 070 959	3 787 781	3 339 665	4 115 815	4 934 774
New Zealand	52 793	43 263	59 400	63 500	54 864
World total (k)	143 000 000	143 000 000	145 000 000	151 000 000	164 000 000

(a) Used for purposes other than salt-making

(b) Including refined

(c) Sea-salt

(d) Years ended September 10 of that stated

(e) Including salt in brine

(f) Sold or used by producers

(g) Years ended March 20 following that stated

(h) Years ended March 31 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, Kuwait, Laos, Madagascar, Mali, Martinique, Mauritania, Mongolia, Netherlands Antilles, Nigeria and Somalia. Allowance has been made for this in the World total.

## Exports of Salt

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	582 618	472 233	419 508	479 130	605 600
Belgium-Luxembourg	7 083	9 406	30 565	150 199	123 690
Denmark	5 799	8 428	123 553	166 164	123 853
France	283 828	113 822	103 788	195 179	236 913
Germany, Federal Republic of	1 595 395	1 441 886	1 240 042	1 630 583	2 207 356
Italy	222 099	160 100	262 263	97 709	70 840
Netherlands	2 065 182	1 937 628	1 819 884	2 076 830	2 239 662
German Democratic Republic					
Rock salt	838 000	845 000	910 000	879 000	945 000
Norway					
Common salt	1 717	1 976	3 346	3 538	3 414
Poland	209 260	209 364	243 802	220 650	239 378
Portugal	4 981	254	459	359	467
Romania	603 700	633 600	652 100	647 000	734 300
Soviet Union	293 600	264 500	275 900	279 700	346 300
Spain	176 718	167 487	17 004	2 681	2 264
Sweden	341	546	349	1 930	730
Switzerland	1 456	7	55	37	2 250
Algeria	23 500	34 000	32 150	69 685	...
Angola	33 309	25 259	31 939	41 409	...
Canary Islands (a)	2 272	323	...	...	...
Cape Verde Is.	...	37 925	...	...	...
Egypt	48 269	38 604	16 233	30 771	14 857
Ethiopia	141 256	148 361	82 495	171 254	...
Ivory Coast	227	754	914	317	265
Kenya	679	681	383	407	343
Liberia	1 500	11 400	...	...	...
Madagascar	5 597	2 200	2 294	2 189	3 078
Mali	1 072	1 347	...	...	...
Morocco	2 107	160	—	...	...
Mozambique	4 951	7 771	7 185	4 371	5 125
Senegal	106 723	75 926	129 469	98 684	110 314
South Africa	29 390	35 706	40 079	40 238	10 124
Sudan	643	619	1 259	346	81
Tanzania	8 545	16 280	13 772	9 839	8 242
Tunisia	234 260	223 130	255 001	307 209	259 253
Uganda	2 129	1 783	1 105	224	560
Bahamas	767 981	1 058 986	907 832	750 476	974 757
El Salvador	1 155	9 677	14 638	13 982	15 371
Honduras	3 983	9	...	1 234	...
Mexico	3 406 836	3 365 430	4 968 748	3 878 224	4 469 837
Nicaragua	4 723	9 587	9 144	19 017	8 058
Turks & Caicos Is.	2 693	2 855	2 271	—	...
USA	383 636	608 346	788 833	552 819	472 618
Argentina	84 143	67 500	84 122	79 415	82 583
Brazil	7	18	1 403	26	...
Chile	293 549	286 033	234 271	109 360	13 686
Venezuela	126 317	56 253	35 481	11 992	25 257
Burma	...	16 153	24 826	4 013	2 011
India (b)	104 344	186 818	228 971	283 960	263 707
Iran (c)	4 164	3 076	2 160	2 513	2 059
Israel	191	111	436	111	20
Japan	344	1 018	311	533	1 120
Korea Republic of	...	1	1 103	241	475
Kuwait	3	1 101	113	362	733
Malaysia	451	199	209	784	663
Pakistan (d)	102 887	81 301	61 977	17 171	5 808
Singapore	6 595	10 119	14 108	14 402	12 153
Taiwan	...	...	13 693	2 500	400

## Exports of Salt

	tonnes				
Country	1970	1971	1972	1973	1974
Thailand					
Sea salt	92 859	37 685	49	104 467	122 101
Other salts	...	2 185	1 476	4 407	3 855
Yemen	41 734	24 739	15 163	—	...
Australia (d)					
Refined salt	937	478	777	528	628
Other salt	1 387 770	3 047 858	2 385 397	2 862 752	4 062 430

(a) Excluding exports to Spain and other Spanish dependencies

(b) Years ending March 31 following that stated

(c) Years ending March 20 following that stated

(d) Years ending June 30 of that stated

## Salt

## Imports of Salt

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Salt, fishery	92 786	53 270	16 140	16 355	9 012
Other salt	47 786	72 570	5 442	5 372	14 715
Belgium-Luxembourg					
Common salt	1 275 137	998 027	474 754	140 685	153 653
Refined salt	139 086	596 280	994 777	725 221	990 367
Denmark	454 045	133 748	231 068	174 378	264 681
France	50 532	78 350	122 669	158 755	162 087
Germany, Federal Republic of					
Refined salt	5 526	5 262	4 897	59 610	63 928
Other salt	50 759	51 549	50 801		
Irish Republic	337 678	428 550	493 428	748 847	777 476
Italy	7 526	6 038	4 349	200 041	49 589
Netherlands	416 619	86 496	25 133	17 115	24 448
Austria	1 959	458	1 179	2 296	8 629
Faeroe Islands	16 234	17 829	12 268	7 155	...
Finland	490 416	470 766	476 236	492 188	648 276
Greece	57 959	80 368	45 434	61 321	51 087
Greenland	2 752	4 531	3 889	444	...
Hungary	...	413 000	387 000	376 000	450 000
Iceland					
Common salt	42 588	51 716	47 807	34 517	66 080
Refined salt	340	301	291	254	269
Malta					
Refined salt	* £14 791	* £13 508	* £10 903	* £6 909	* £8 733
Other salt	245	25	1 185	1 133	1 513
Norway					
Common salt	193 858	188 253	174 678	145 436	160 858
Refined salt	145 734	182 322	156 856	166 557	175 441
Portugal	3 087	27 014	88 095	53 469	...
Spain	1 182	1 295	101 739	50 751	96 478
Sweden	1 102 412	949 583	966 964	1 074 317	1 203 559
Switzerland	3 034	1 898	2 282	2 051	2 261
Yugoslavia	145 445	119 179	71 610	114 280	128 605
Angola	1 570	300	104	92	...
Benin	8 903	8 394	...	...	...
Cameroon	21 434	20 982	23 150	22 288	20 272
Central African Republic	4 251	4 054	...	...	...
Chad	3 946	5 195	4 090	4 920	5 240
Congo	2 513	2 691	...	...	...
Gabon	3 284	1 734	...	...	...
Ghana	2 571	131	42	384	590
Ivory coast	24 772	24 264	28 705	16 192	33 884
Kenya	2 404	6 785	6 763	9 950	28 858
Liberia	3 049	3 329	3 304	...	4 319
Libya	50	33	30	20	342
Madagascar	969	654	863	628	156
Malawi	10 168	10 968	12 446	34	30
Mali	16 000	16 826	...	...	...
Mauritius	200	151	294	230	335
Morocco	—	49	7 740	9 492	5
Mozambique	683	471	84	92	154
Niger	13 281	7 753	12 774	6 684	9 393
Nigeria	143 638	273 871	156 187	200 586	181 650
Reunion	2 476	2 069	32	1 744	2 453
Seychelles	790	62	590	187	264
Sierra Leone	10 445	7 634	8 617	8 701	13 640
South Africa	2 677	2 620	2 002	1 793	16 594
Tanzania	10 421	4 410	5 287	1 998	4 400
Togo	9 981	8 506	6 583	5 231	4 244
Uganda	21 728	11 674	32 678	26 978	24 441
Upper Volta	13 364	14 078	19 756	15 280	...
Zaire	41 385	...	...	...	...
Zambia	13 345	24 036	23 126	33 988	...

## Imports of Salt

	tonnes				
Country	1970	1971	1972	1973	1974
Bahamas					
Crude salt	40 277	71 614	23 738	12 864	30 718
Refined salt	424	548	545	508	386
Barbados	2 319	2 080	2 212	1 916	...
Belize	659	831	575	88	490
Canada	560 659	836 436	929 189	841 936	736 573
Costa Rica	9 637	9 960	9 961	20 784	9 400
Dominica	425	344	314	415	...
Guadeloupe	2 139	2 360	709	2 944	...
Guatemala	6 697	8 659	12 392	9 766	15 568
Honduras	—	...	432	459	349
Jamaica					
Rock salt	9 224	156	10 346	40 802	...
Other salt	6 052	20 608	250		
Martinique	2 502	2 252	918	2 759	...
Mexico	623	497	551	654	1 263
Nicaragua	15 004	22 202	11 879	29 639	32 194
Panama	5 186	8 522	1 806	4 052	672
St. Kitts-Nevis-Anguilla	136	223	185	...	...
St. Lucia					
Common salt	836	400	598	486	424
Refined salt	140	42	101	114	302
St. Pierre & Miquelon	2 659	3 542	...	...	...
St. Vincent					
Unrefined salt	287	—	15	...	...
Refined salt	2 424	9 192	2 082	...	...
Trinidad & Tobago					
Rock & coarse salt	2 799	3 003	5 318	22 135	15 671
Refined salt	7 891	8 532	6 841	2 630	...
USA	3 207 806	3 497 200	3 141 600	2 891 200	* 3 400 000
Brazil	6	6	27	45	123
Colombia	13 263	69 741	21	26	...
French Guiana	288	336	175	340	...
Guyana					
Rock & coarse salt	3	1	10	133	...
Refined salt	3 266	3 427	3 236	2 350	...
Paraguay	22 739	23 166	28 085	28 165	27 317
Surinam	1 498	1 565	339	1 397	...
Uruguay	61 503	45 488	50 896	10 683	...
Afghanistan (a)	1 893	1 131	2 555	...	...
Brunei	1 010	1 431	1 941	1 687	900
Cyprus	378	439	490	476	349
Hong Kong	36 550	38 326	38 220	33 307	46 266
India (b)	231	614	559	1 429	408
Indonesia	9 620	—	...	...	...
Iran (a)	112	111	39	40	51
Iraq	407	71	51	500	...
Japan	6 489 666	7 254 103	6 872 892	7 274 939	7 749 426
Korea, Republic of	247 489	413 543	275 708	267 912	261 315
Kuwait	3 924	4 792	4 276	5 322	6 230
Laos	1 574	1 199	2 316	...	...
Malaysia	83 363	125 904	84 324	96 346	86 093
Philippines					
Crude	1 914	27 152	104 692	20 878	44 943
Refined	111	—	...	305	504
Sabah	4 513	4 157	4 152	4 362	3 801
Sarawak	6 358	6 801	...	7 882	8 684
Saudi Arabia	2 123	1 456	...	...	...
Singapore	42 203	46 844	...	43 072	55 192
Syria	9 741	34	86	62	46
Taiwan	...	...	17 592	65 915	...
Thailand	...	18 207	163	163	196

## Salt

## Imports of Salt

	tonnes				
Country	1970	1971	1972	1973	1974
Australia (c)					
Refined salt	16	13	25	15	18
Other salt	8 235	7 034	42 553	13 529	5 423
Fiji	2 041	2 199	2 133	2 764	2 319
New Hebrides	273	291	169	177	248
New Zealand (c)	37 423	31 877	27 413	...	...
Papua New Guinea (c)	3 046	2 701	...	...	...
Western Samoa	440	480	320	411	151

(a) Years ended March 20 following that stated

(b) Years ended March 31 following that stated

(c) Years ended June 30 of that stated



## Production of Sillimanite Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
France					
Andalusite	...	8 318	5 280	8 739	9 852
Portugal					
Andalusite	190	181	103	100	50
Soviet Union					
Kyanite (a)	...	...	* 50 000	* 75 000	* 75 000
Spain					
Andalusite & kyanite	3 050	5 850	5 550	6 728	7 311
South Africa					
Andalusite	42 522	44 471	45 857	60 702	64 008
Sillimanite	31 916	17 460	9 476	19 317	13 087
USA					
Kyanite (b)	* 68 000	* 69 000	* 70 000	* 75 000	* 85 000
Synthetic mullite	50 363	49 965	42 083	52 776	24 955
Brazil					
Kyanite	917	1 000	630	988	* 1 000
India					
Kyanite	119 126	63 482	67 897	58 215	45 337
Sillimanite	4 489	4 327	4 046	3 138	2 950
Korea, Republic of					
Andalusite	38	74	32	83	115
Australia (c)	1 183	857	575	684	751
World total (d)	321 800	257 000	301 500	361 400	329 300

(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

## Sillimanite

## Exports of Sillimanite Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Sillimanite minerals	518	366	170	732	195
Mullite, chamotte, etc.	14 091	13 911	9 928	6 875	8 154
Belgium-Luxembourg					
Sillimanite minerals					
Crude	...	...	...	121	143
Other	...	...	...	823	1 536
France					
Sillimanite minerals					
Crude	710	596	1 396	7	2 059
Other	958	240	155	396	3 385
Germany, Federal Republic of					
Sillimanite minerals					
Crude	60	122	99	196	1 293
Calcined	1 071	163	650	551	483
Italy					
Sillimanite minerals					
Crude & calcined	} 533	948	—	{ 22	27
Other					
Netherlands					
Sillimanite minerals					
Crude	...	...	...	—	50
Other	...	...	...	1 321	2 332
South Africa					
Andalusite	21 491	18 413	10 649	16 637	18 759
Sillimanite	28 220	18 660	8 824	15 363	18 737
USA					
Kyanite & related minerals (a)	21 794	28 625	67 051	85 016	123 361
India					
Kyanite					
Crude		14 340	10 890		18 790
Calcined	69 330	28 481	15 348	25 091	6 564
Sillimanite	1 739	1 628	676	1 003	829
Japan					
Sillimanite minerals, mullite, chamotte & dinas earths	4 122	3 995	5 204	10 676	20 768

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

## Imports of Sillimanite Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Sillimanite minerals	27 187	34 126	17 985	32 455	24 749
Mullite, chamotte, etc.	21 559	19 115	11 040	13 633	11 850
Belgium-Luxembourg					
Sillimanite minerals					
Crude	...	...	...	16 524	10 431
Other	...	...	...	4 226	2 331
France					
Kyanite & sillimanite					
Crude	1 979	3 193	1 103	1 850	11
Other	3 824	3 243	1 820	5 342	3 149
Germany, Federal Republic of					
Sillimanite minerals					
Crude	21 067	22 362	9 605	12 814	18 820
Calcined	5 793	6 844	5 840	6 269	5 557
Italy					
Sillimanite minerals					
Crude				12 325	13 431
Other	16 634	20 472	8 745	4 058	8 312
Netherlands					
Sillimanite minerals					
Crude	...	...	...	945	1 118
Other	...	...	...	1 093	4 065
Greece					
Sillimanite minerals	4 614	3 495	9 350	8 593	8 251
USA					
Kyanite & related minerals (a)	1 070	1 218	112	200	176
Argentina					
Sillimanite minerals	1 066	443	374	555	507
Japan					
Sillimanite minerals	39 143	26 108	18 861	24 931	28 836
mullite, chamotte & dinas earths	7 618	15 680	9 147	40 089	96 567
Australia					
Kyanite	3 569	970	99	475	737
Sillimanite	8	5	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

## Mine Production of Silver

kilogrammes (metal content)

Country	1970	1971	1972	1973	1974
France	71 012	70 998	64 805	56 680	52 557
Germany, Federal Republic of	56 424	58 209	54 628	44 971	38 120
Irish Republic	67 000	44 540	48 300	57 200	61 600
Italy (a)	33 073	38 434	67 508	41 946	40 537
Austria	5 470	6 840	5 970	5 980	—
Czechoslovakia	* 35 000	* 35 000	* 35 000	* 35 000	* 35 000
Finland	23 009	19 367	19 444	24 676	25 215
German Democratic Republic	* 75 000	* 75 000	* 70 000	* 60 000	* 60 000
Greece	13 061	14 194	11 534	18 270	17 890
Hungary	* 200	* 200	* 200	* 300	* 300
Poland	* 70 000	* 80 000	* 130 000	* 150 000	* 170 000
Portugal	8 703	8 165	7 162	3 914	743
Romania	* 25 000	* 31 000	* 31 000	* 34 000	* 35 000
Soviet Union	* 1 182 000	* 1 213 000	* 1 244 000	* 1 275 000	* 1 300 000
Spain	51 000	113 850	72 600	72 700	90 000
Sweden	122 836	121 137	132 388	147 397	141 371
Yugoslavia (a)	106 271	104 307	101 000	106 000	121 000
Algeria	* 3 000	6 221	6 843	4 883	* 6 200
Morocco	21 176	29 610	28 390	28 593	27 637
Namibia (c)	38 000	53 743	42 207	48 615	80 870
Rhodesia (b)	2 686	3 333	4 416	5 800	5 266
South Africa	109 701	105 071	102 443	113 591	83 940
South West Africa (c)	38 000	53 743	42 207	48 615	80 870
Tanzania	34	1	1	—	—
Tunisia	1 800	3 287	7 258	5 924	4 233
Zaire	61 404	45 730	64 637	62 052	52 693
Zambia	(d) 47 845	(d) 39 390	3 403	62	2 916
Canada	1 376 386	1 431 526	1 393 226	1 477 063	1 331 562
El Salvador	4 775	6 694	5 510	3 816	5 422
Haiti	* 530	* 530	* 530	* 530	* 600
Honduras	118 682	113 268	111 820	98 030	98 694
Mexico	1 332 362	1 140 166	1 165 852	1 206 436	1 167 814
Nicaragua (a)	3 932	5 015	4 813	8 192	6 159
USA	1 399 831	1 292 790	1 158 039	1 176 583	1 051 300
Argentina	63 800	98 873	66 002	77 759	59 727
Bolivia	180 000	172 000	157 000	164 277	192 800
Brazil	11 108	19 408	9 942	10 200	6 690
Chile	74 420	84 897	145 849	156 608	172 530
Colombia	2 351	2 074	2 167	2 357	* 2 300
Ecuador	2 170	2 253	2 146	2 364	1 098
Peru (e)	1 239 023	1 242 642	1 255 677	1 295 614	1 275 000
Burma	* 30 000	* 29 600	* 35 900	* 23 300	* 24 700
China	* 25 000	* 30 000	* 30 000	* 40 000	* 40 000
India	1 540	3 774	4 427	4 255	4 580
Indonesia	8 800	8 900	8 700	9 372	6 465
Japan	243 077	351 258	312 484	265 796	266 329
Korea, Dem. P.R. of	* 25 000	* 35 000	* 45 000	* 45 000	* 52 000
Korea, Republic of	46 483	48 005	55 043	46 340	40 161
Philippines	52 935	60 336	57 466	58 830	53 067
Taiwan	2 973	2 260	2 302	2 898	1 021
Australia	808 443	678 418	680 685	707 414	669 954
Fiji	828	619	590	881	947
Papua New Guinea	534	543	27 900	49 161	50 646
New Zealand	465	1 877	886	1 530	56
World total	9 336 000	9 183 000	9 095 000	9 338 000	9 064 000

(a) Refined

(b) Production from Coronation Syndicate Mines only for years ending September 30 of that stated. There are other mines in Rhodesia known to produce silver but information is insufficient to include these in a national estimate

(c) Accounted for by smelters, years ended June 30 of that stated

(d) Recovered as a by-product of base metal refining.

(e) Recoverable

## Exports of Silver

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom					
Refined bullion	701 455	1 201 804	2 657 011	2 746 333	1 542 553
Belgium-Luxembourg					
Bullion	1 172 900	846 670	5 143 583	682 418	863 648
Denmark					
Bullion	4 690	14 200	600	800	1 500
France					
Bullion (b)	95 735	122 887	203 627	471 473	572 001
Germany, Federal Republic of					
Bullion (b)	442 650	442 401	501 860	408 221	441 052
Netherlands					
Bullion (b)	165 189	124 517	97 300	104 606	96 733
Finland					
Bullion	...	...	39 453	20 382	2 445
Sweden					
Bullion (b)	171 000	177 000	146 000	163 000	128 000
Switzerland					
Bullion	76 216	121 863	530 306	821 295	921 125
Yugoslavia					
Bullion	85 483	90 327	84 517	91 019	110 517
Morocco					
Bullion	17 641	15 333	2 099	27 842	8 385
South Africa					
Bullion	77 765	111 013	85 506	77 676	* 100 000
Tanzania					
Refined bullion	28	1	1	—	1
Zambia					
Bullion	3 032	2 918	...	...	...
Canada					
Bullion	752 707	566 139	616 656	712 438	663 725
El Salvador					
Bars, ingots, etc.	2 482	5 598	4 305	3 917	4 758
Honduras					
Base bullion	21 629	84 843	1 165	8 850	7 418
Mexico					
Bullion etc.	536 900	669 793	373 656	2 137 418	...
Nicaragua					
Bullion	3 932	5 015	4 821	10 192	6 151
USA					
Refined bullion	536 200	264 268	892 400	255 313	177 008
Argentina					
Bullion	4 101	23 300	29 228	15 112	200
Peru					
Bullion	511 509	424 510	597 201	344 199	...
Burma					
Bullion	32 877	14 039	28 154	22 453	13 069
Hong Kong					
Bullion	11 387	5 893	3 119	20 668	62 547
Japan					
Bullion	7 990	21 290	15 908	19 431	308 773
Lebanon					
Bullion	9 594	1 711	...	143	...
Singapore					
Bullion	14 068	20 078	15 401	23 847	9 565
Australia (a)					
Silver-lead bullion	378 915	299 620	296 230	277 280	308 459
Bullion, refined	252 370	247 541	211 574	216 872	179 966
Fiji					
Bullion	839	613	690	954	702

## Note:

This table excludes silver coin but includes silver shipped for minting.

(a) Years ended June 30 of that stated

(b) Including alloys

## Imports of Silver

kilogrammes

Country	1970	1971	1972	1973	1974
United Kingdom					
Unrefined bullion	371 177	482 436	110 859	377 078	165 791
Refined bullion	1 182 596	510 396	393 572	363 015	1 167 270
Belgium-Luxembourg					
Bullion	395 700	553 917	373 622	238 047	618 747
Denmark					
Bullion	5 600	20 300	17 800	9 600	13 000
France					
Bullion (c)	440 520	525 932	992 351	1 041 080	879 485
Germany, Federal Republic of					
Bullion (c)	1 901 650	1 744 000	2 130 490	1 773 477	1 242 457
Netherlands					
Bullion (c)	93 793	139 174	123 703	105 950	83 694
Austria					
Bullion	85 200	127 900	135 100	223 000	207 400
Finland					
Bullion	22 288	22 918	1 772	21 525	22 446
Malta					
Bullion (a)	586	912	556	1 299	3 246
Norway					
Bullion	59 950	38 773	39 670	65 817	61 580
Portugal					
Bullion & scrap	24 677	34 447	38 139	46 556	29 006
Spain					
Bullion	43 000	109 000	220 000	297 000	171 000
Sweden					
Bullion (c)	14 000	15 000	15 000	15 000	24 000
Switzerland					
Bullion	220 825	598 079	1 123 536	161 689	383 489
Turkey					
Bullion (b)	1 161	907	815	1 282	...
Ivory Coast					
Bullion	262	478	153	...	1 028
Libya					
Bullion (a)	6 744	8 573	8 260	9 000	2 335
Morocco					
Bullion	381	290	664	173 618	60 782
Mozambique					
Bullion	...	20 310	217	509	9 719
Nigeria					
Bullion (a)	43 237	59 873	27 275	71	9
Senegal					
Bullion	1 090	3 485	12 179	5 644	...
Tunisia					
Bullion (c)	289	1 427	2 107	3 480	2 118
Zambia					
Bullion	18	19	159	52	...
Canada					
Bullion	127 812	18 987	36 945	267 850	840 100
Costa Rica					
Bullion (c)	855	772	1 282	389	1 022
Guatemala					
Bullion	60	119	73	7	275
Jamaica					
Bullion	3 282	...	14 239	3 605	...
Mexico					
Bullion	112	188	432	1 330	1 027
Nicaragua					
Bullion (c)	140	84	...	188	300
Trinidad & Tobago					
Bullion	586	1 021	2 158	2 628	192
USA					
Refined bullion	919 712	696 300	798 700	2 526 204	2 783 312

## Imports of Silver

kilogrammes

Country	1970	1971	1972	1973	1974
Brazil					
Bullion	46 100	53 223	72 272	110 689	103 138
Chile					
Bullion	4 204	3 000	—	—	—
Colombia					
Bullion	100 671	8 867	5 595	107 407	...
Guyana					
Bullion (a)	* 350	337	1 035	336	...
Cyprus					
Bullion (a)	2 268	4 544	7 828	8 245	5 768
Hong Kong					
Bullion	5 309	3 805	5 240	12 434	25 587
India					
Bullion	1 061	1 230	1 548	2 328	453
Iran (d)					
Bullion (e)	6 697	16 994	8 697	...	...
Japan					
Bullion	412 700	309 132	577 429	1 068 519	963 096
Korea, Republic of					
Bullion, unalloyed	} 2 000	{ 1 285 659	4 238	5 379	56 478
Bullion alloyed			1 575	1 033	2 546
Lebanon					
Bullion & scrap	1 021	12 992	32 618	17 989	...
Singapore					
Bullion	22 135	1 917	3 369	14 549	17 063
Taiwan					
Bullion	...	...	480	2 129	1 017
Thailand					
Bars	10	1 770	994	991	427
Australia (f)					
Bullion	4 456	4 123	2 228	4 123	6 346

## Note:

This table excludes silver coin but includes silver shipped for minting

(a) Including partly worked

(b) Including gilt

(c) Including alloys

(d) Years ending March 20 following that stated

(e) Including scrap and ash

(f) Years ended June 30 of that stated

## Production of Sulphur &amp; Pyrites

thousand tonnes (sulphur content)

Country		1970	1971	1972	1973	1974
United Kingdom						
Recovered (a) (c)		122	103	37	41	60
Recovered (d)		32	44	41	40	65
Anhydrite		311	225	146	75	62
Belgium						
Recovered		10	24	28	34	23
Denmark						
Recovered (c)		8	5	8	7	5
France						
Pyrites (42%)		36	34	14	—	—
Recovered (e)		1 742	1 812	1 741	1 815	1 919
Germany, Federal Republic of						
Pyrites (45%)		234	219	190	192	214
Recovered (e)		173	181	216	327	416
Italy						
Pyrites (43%)		652	646	594	503	502
Recovered (c)		80	74	74	80	* 70
Sulphur ore		63	72	83	76	68
Anhydrite		...	...	204	204	* 200
Netherlands						
Recovered (c)		33	33	47	49	33
Bulgaria						
Pyrites (42%)		66	* 64	* 64	* 64	* 65
Czechoslovakia						
Pyrites (42%)		143	149	138	122	124
Finland						
Pyrites (44%)		444	391	387	349	340
Recovered (c)		115	101	119	123	101
German Democratic Republic						
Pyrites (42%)		* 47	* 49	* 50	* 50	* 50
Recovered (d) (j)		109	100	105	110	112
Greece						
Pyrites (45%)		118	93	104	200	* 220
Norway						
Pyrites (45%)		340	382	369	364	283
Poland						
Frasch		* 1 800	* 2 200	* 2 600	* 3 100	* 4 000
Sulphur ore		* 880	* 520	* 330	* 440	
Portugal						
Pyrites (44%)		213	249	243	280	222
Recovered (d)		3	3	3	3	5
Romania						
Pyrites (42%)		* 350	* 360	* 360	* 380	* 380
Soviet Union						
Pyrites (46%)		* 3 000	* 3 300	* 3 400	* 3 500	* 4 000
Recovered		* 1 600	* 1 600	* 1 700	* 1 900	* 1 900
Sulphur ore		* 2 000	* 2 100	* 2 200	* 2 300	* 2 400
Spain						
Pyrites (47%)		1 000	1 142	1 000	1 005	* 1 200
Recovered (d) (j)		6	3	4	5	* 6
Sweden						
Pyrites (48%)		289	298	250	350	* 270
Recovered (c)		5	5	5	5	6
Turkey						
Pyrites (45%)		43	27	36	20	34
Sulphur ore		27	24	21	18	21
Yugoslavia						
Pyrites (42%)		160	124	104	98	115
Algeria						
Pyrites (48%)		16	13	13	6	—
Egypt						
Recovered (d)		1	* 1	* 1	* 1	...
Morocco						
Pyrites (48%)		90	115	133	134	* 150



## Production of Sulphur &amp; Pyrites

thousand tonnes (sulphur content)

Country		1970	1971	1972	1973	1974
Rhodesia						
Pyrites	(42%)	* 30	* 30	* 30	* 30	* 30
South Africa						
Pyrites	(48%)	(b) 417	(b) 360	211	265	274
Recovered (d)		16	25	29	25	* 25
Canada						
Pyrites	(50%) (i)	160	140	62	11	25
Recovered (c) (i)		640	561	616	686	663
Recovered (d) (e)		4 309	4 628	6 723	7 116	6 948
Mexico						
Frasch		1 297	1 091	861	1 544	2 242
Recovered (c)		24	23	21	17	* 15
Recovered (d) (e)		60	65	62	64	* 65
Sulphur ore		24	23	21	* 11	* 10
Netherlands Antilles						
Recovered (d)		20	26	73	* 70	* 100
Trinidad & Tobago						
Recovered (d)		4	* 4	* 4	* 4	* 5
USA						
Frasch		7 196	7 138	7 407	7 727	8 027
Pyrites	(40%)	344	321	288	215	} 1 066
Recovered (c)		690	654	706	700	
Recovered (d) (e)		1 480	1 621	1 981	2 455	
Argentina						
Recovered (d)		14	21	20	24	22
Sulphur ore		40	38	42	36	25
Bolivia (h)						
Sulphur ore		16	10	18	56	42
Chile						
Recovered (e)		9	3	18	16	} * 73
Sulphur ore (b)		109	106	79	31	
Colombia						
Recovered (d)		* 4	* 3	* 3	* 3	* 1
Sulphur ore		25	25	24	* 10	* 15
Ecuador						
Sulphur ore		6	6	* 6	* 0	...
Venezuela						
Recovered (d)		24	75	70	80	91
China						
Pyrites	(45%)	* 900	* 900	* 900	* 900	6 900
Recovered (c) (d)		* 120	* 120	* 120	* 120	* 120
Sulphur ore		* 130	* 130	* 130	* 130	* 130
Cyprus						
Iron pyrites	(44%)	334	294	244	200	76
Cupreous pyrites	(48%)	49	38	20	20	11
India						
Pyrites	(37%)	10	15	11	15	13
Indonesia						
Sulphur ore		* 1	* 1	* 2	* 2	* 2
Iran						
Recovered (d)		412	495	666	595	} * 600
Sulphur ore		1	2	3	3	
Iraq						
Frasch		...	...	137	395	711
Israel						
Recovered (d)		* 10	* 10	* 10	* 10	* 10
Japan						
Pyrites	(49%)	1 248	1 092	760	616	624
Recovered (c) (g)		1 085	1 164	1 324	1 469	1 459
Recovered (d)		239	344	479	680	726
Sulphur ore (k)		103	65	17	—	—
Korea, Dem. P.R. of						
Pyrites	(40%)	* 200	* 200	* 200	* 200	* 200
Kuwait						
Recovered (d)		48	37	39	* 45	* 55

**Production of Sulphur & Pyrites**

thousand tonnes (sulphur content)

Country		1970	1971	1972	1973	1974
Philippines						
Pyrites	(46%)	127	110	92	94	76
Saudi Arabia						
Recovered (d)		* 5	* 5	* 5	* 5	* 5
Singapore						
Recovered (d)		1	1	7	* 6	* 5
Taiwan						
Recovered (d)		* 5	* 5	* 5	* 9	* 5
Australia						
Pyrites	(48%)	101	105	114	117	108
Recovered (c)		325	308	341	321	303
Total Frasch		10 300	10 400	11 000	12 800	14 500
Total Pyrites		11 200	11 300	10 400	10 300	10 800
Total Recovered		13 600	14 300	17 500	19 000	19 722
Total Sulphur ore		3 700	3 300	3 300	3 400	3 500
World total (all forms)		38 800	39 300	42 200	45 500	48 500

(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) Refined

Note: Pyrites: nominal sulphur content is shown in parentheses

## Exports of Sulphur &amp; Pyrites

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Sulphur	2 491	2 379	2 215	2 427	3 078
Belgium-Luxembourg					
Pyrites	1 456	169	5 233	1 235	545
Sulphur -					
Crude	6 440	6 776	8 914	18 549	18 651
Refined	52	208	77	2 842	108
France					
Sulphur -					
Crude	1 137 125	948 267	1 000 204	864 872	867 545
Unrefined ground	3 504	3 616	2 980	4 526	2 754
Refined lump	1 027	1 040	933	842	993
Flowers	2 214	9 149	5 959	2 802	3 073
Precipitated	35	85	48	72	1
Germany, Federal Republic of					
Pyrites	271	412	488	448	594
Sulphur	37 027	46 715	48 526	71 099	144 281
Italy					
Pyrites	19 386	26 877	11 438	6 901	54 696
Sulphur -					
Crude	551	24	107	111	1 167
Refined	5 055	4 012	4 294	4 309	5 854
Flowers & precipitated	364	313	157	148	31
Netherlands					
Sulphur -					
Crude	843	286	8	795	4 089
Refined	84	9	8	37	257
Finland					
Sulphur	68 177	37 643	33 670	31 022	20 204
Greece					
Sulphur	9 542	3 174	2 272	22 000	10 125
Norway					
Pyrites	520 799	545 236	572 035	486 198	410 573
Sulphur	5	...	...	85	67
Poland					
Sulphur	...	2 064 000	2 487 000	2 865 000	3 024 000
Portugal					
Pyrites	228 499	186 738	114 109	76 340	94 426
Sulphur	421	843	44	585	815
Soviet Union					
Pyrites	1 800 000	1 800 000	1 600 000	1 600 000	1 800 000
Sulphur	463 800	463 700	405 300	440 300	439 600
Spain					
Pyrites -					
Iron	601 881	756 343	377 257	301 406	202 766
Cupreous	283 166	180 408	75 673	5 629	8
Sulphur refined	64	7	100	66	165
Sweden					
Pyrites	51 750	40 798	10 976	—	—
Sulphur	30	—	68	1	—
Switzerland					
Sulphur	229	235	153	158	165
Turkey					
Pyrites	39 965	36 634	36 265	6 160	...
Yugoslavia					
Pyrites	51 533	76 280	22 534	22 391	24 328
Algeria					
Pyrites	2 000	25 510	35 440	24 852	...
Morocco					
Sulphur crude	134	83	1 359	64	209
South Africa					
Sulphur	519	111	135	209	...

## Exports of Sulphur &amp; Pyrites

tonnes

Country	1970	1971	1972	1973	1974
Canada					
Pyrites (a) Can. <S>000	1 226	1 074	502	659	648
Sulphur	2 711 069	2 402 128	2 583 702	3 492 461	4 251 451
Mexico					
Sulphur	661 978	682 825	479 407	842 962	1 906 031
USA					
Pyrites	1 759	3 064	2 289	3 870	4 501
Sulphur -					
Crude	1 451 987	1 556 407	1 876 585	1 799 013	2 621 536
Refined & flowers	3 897	3 806	4 729	5 364	21 042
Bolivia					
Sulphur	16 313	10 487	18 214	56 393	41 770
Venezuela					
Sulphur refined	...	84 903	68 512	67 963	30 980
Cyprus					
Pyrites -					
Iron	818 107	611 842	460 170	363 771	287 160
Cupreous	96 049	74 513	46 718	33 403	23 334
Iran (b)					
Sulphur -					
Crude	139 332	...	...	121 244	60 807
Refined & flowers	59 927	464 029	488 898	284 631	211 144
Japan					
Sulphur	1 989	13 179	47 889	47 472	63 100
Lebanon					
Sulphur -					
Crude	957	237	602	94	...
Sublimed, precipitated	1 710	3 709	1 620	825	...
Singapore					
Sulphur -					
Crude	5 767	9 858	12 274	12 912	18 223
Refined	105	2 077	1 608	3 546	8 036
Syria					
Sulphur	...	7 355	407	75 935	—
Sublimed, precipitated	...	785	2 873	538	15
Australia					
Zinc concentrates (c)	* 123 700	* 96 108	* 70 299	107 300	105 800

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

(b) Years ended March 20 following that stated

(c) S Content

## Imports of Sulphur &amp; Pyrites

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Pyrites	169 905	213 799	132 995	44 598	35 047
Sulphur	817 869	963 916	1 041 351	1 274 276	1 386 137
Belgium-Luxembourg					
Pyrites	407 724	297 811	218 513	247 829	257 916
Sulphur					
Crude	333 590	429 433	609 770	673 436	936 170
Refined	218	344	311	343	2 363
Denmark					
Pyrites	165 395	144 530	153 538	109 056	21 352
Sulphur	11 102	15 301	12 698	15 853	76 235
France					
Pyrites	319 204	249 314	204 281	156 789	88 959
Sulphur -					
Crude	323 925	427 961	457 604	561 401	796 760
Unrefined ground	363	381	1 453	831	850
Refined lump	362	594	602	2 799	454
Precipitated	314	468	180	172	256
Germany, Federal Republic of					
Pyrites	1 629 968	1 381 434	1 105 686	891 510	780 281
Sulphur	292 498	332 421	414 598	490 587	472 064
Irish Republic					
Sulphur	120 686	121 356	42 967	77 764	99 577
Italy					
Pyrites	846 468	552 890	448 975	300 836	292 779
Sulphur	298 737	284 574	342 025	419 607	767 059
Netherlands					
Pyrites	110 525	86 113	42 955	180	207
Sulphur -					
Crude	413 957	442 264	451 984	453 690	498 025
Refined	2 272	2 402	677	795	600
Austria					
Pyrites	19 119	15 128	14 614	12 470	13 383
Sulphur	116 850	122 199	118 619	115 314	154 063
Czechoslovakia					
Pyrites (a)	76 000	58 000	63 000	95 000	57 000
Sulphur	303 000	279 000	325 000	322 000	329 000
Finland					
Sulphur	37 236	56 594	40 921	28 981	36 536
German Democratic Republic					
Pyrites (a)	106 582	74 433	51 980	72 156	61 144
Greece					
Pyrites	12 971	80 368	130 830	147 680	118 868
Sulphur	43 986	104 467	88 360	66 000	23 000
Hungary					
Pyrites	176 266	135 165	87 000	79 000	79 000
Sulphur	127 638	110 327	149 000	183 000	161 000
Malta					
Sulphur flowers	227	250	221	364	472
Norway					
Sulphur	34 006	21 225	17 535	20 735	22 081
Portugal					
Sulphur	24 066	26 133	30 565	23 528	30 247
Romania					
Sulphur	36 600	29 900	39 800	55 100	...
Soviet Union					
Sulphur	216 700	218 500	151 000	468 300	471 800
Spain					
Sulphur	61 894	71 976	87 457	93 410	101 986
Sweden					
Pyrites	117 733	115 511	115 024	70 496	101 472
Sulphur	134 640	126 585	92 288	100 712	129 816

## Imports of Sulphur &amp; Pyrites

tonnes

Country	1970	1971	1972	1973	1974
Switzerland					
Pyrites	17 520	25 342	10 240	5 020	45 009
Sulphur -					
Crude	64 739	50 895	38 194	50 648	44 072
Flowers	288	287	339	324	358
Turkey					
Sulphur	129	3 183	54	98	...
Yugoslavia					
Pyrites	94 705	186 980	101 890	210 942	231 452
Sulphur	21 752	20 880	33 187	42 421	47 760
Algeria					
Sulphur -					
Crude	19 794	38 892	56 989	93 692	...
Angola					
Sulphur	834	722	615	844	...
Egypt					
Pyrites	47 514	37 677	18 652	30 915	80 719
Sulphur	47 400	54 523	47 770	19 611	68 808
Ethiopia					
Sulphur	1 159	408	899	258	—
Ivory Coast					
Sulphur refined	2 428	2 517	2 608	2 015	5 586
Kenya					
Sulphur crude	970	1 154	506	653	1 748
Madagascar					
Sulphur	21	30	6	5	3
Mauritius					
Sulphur	40	60	49	8	9
Morocco					
Sulphur -					
Crude	19 842	21 332	36 486	34 794	77 322
Unrefined, ground	401	193	170	75	96
Refined	100	164	35	149	55
Flowers	421	56	124	39	61
Mozambique					
Sulphur -					
Crude	4 637	2 003	6 485	20 417	19 380
Nigeria					
Sulphur	342	465	311	457	468
Senegal					
Sulphur -					
Crude	7	10	20	12	...
Flowers	12 925	24 242	16 323	23 789	...
South Africa					
Pyrites unroasted	13	14	9	38	35
Sulphur -					
Crude	167 584	210 864	222 178	207 502	356 217
Sublimed precipitated	338	421	359	948	4 197
Tanzania					
Sulphur crude	456	1 231	9 701	19 355	22 725
Tunisia					
Pyrites	7 470	10 020	5 185	5 000	...
Sulphur crude & unrefined	168 965	172 341	167 745	66 499	372 976
Uganda					
Sulphur crude	4 620	5 850	5 472	2 124	2 591
Zambia					
Sulphur -					
Crude	22	20	42	536	...
Refined	14	11 677	15 162	14 891	...
Flowers	17	74	18	19	...
Canada					
Sulphur	48 494	27 925	25 494	35 759	30 670
Costa Rica					
Sulphur	98	106	11	—	49

## Imports of Sulphur &amp; Pyrites

	tonnes				
Country	1970	1971	1972	1973	1974
Cuba					
Sulphur	130 342	179 459	122 525	...	...
El Salvador					
Sulphur	2 585	4 302	6 949	7 239	5 763
Guatemala					
Sulphur	30	9	6	15	6 262
Jamaica					
Sulphur	2 818	...	3 874	381	...
Mexico					
Sulphur	140	330	395	623	525
Nicaragua					
Sulphur	263	185	...	222	328
Trinidad & Tobago					
Sulphur	15 744	15 276	18 897	3 073	22
USA					
Pyrites	201 063	289 516	127 051	20 028	48 490
Sulphur	1 562 153	1 340 096	1 155 969	1 241 213	2 184 809
Argentina					
Sulphur crude	56 805	29 993	50 024	71 545	78 497
Brazil					
Sulphur -					
Crude	260 944	360 533	372 303	454 613	605 386
Refined	515	334	383	724	5 741
Sublimed, precipitated	73	100	172	237	218
Chile					
Sulphur	62 129	68 292	74 954	74 459	103 831
Colombia					
Sulphur -					
Crude	35	2 477	5	8 421	...
Sublimed, precipitated	51	3 022	4 066	6 623	...
Uruguay					
Sulphur	5 956	9 268	...	...	...
Venezuela					
Sulphur	26 052	22 853	831	668	367
Burma					
Sulphur crude	1 331	246	1 263	1 194	831
Cyprus					
Sulphur crude	1 799	1 735	2 256	2 773	853
Hong Kong					
Sulphur -					
Crude	...	457	842	574	1 155
Sublimed	2 125	1 066	1 165	904	1 200
India (b)					
Sulphur -					
Crude	521 343	420 607	558 990	551 105	587 454
Sublimed	365	442	373	337	513
Indonesia					
Sulphur	21 324	6 539	...	...	...
Iran (c)					
Sulphur	429	355	347	961	571
Iraq					
Sulphur	661	11	1 859	25	130
Israel					
Sulphur	40 951	70 660	64 427	16 000	42 000
Japan					
Pyrites	183 882	110	3 471	25 867	65 535
Sulphur	10 570	276	12 266	46 732	36 207
Jordan					
Sulphur	883	1 712	1 588	2 596	3 992
Korea Republic of					
Sulphur crude	149 739	156 847	134 253	167 457	213 446
Lebanon					
Sulphur -					
Crude	61 124	58 782	72 975	72 666	...
Sublimed, precipitated	764	868	904	630	...

## Imports of Sulphur &amp; Pyrites

	tonnes				
Country	1970	1971	1972	1973	1974
Malaysia					
Sulphur	10 814	10 207	12 853	13 970	17 728
Philippines					
Sulphur crude	5 767	19 225	21 314	9 507	25 800
Singapore					
Sulphur -					
Crude	7 657	10 233	10 370	5 832	2 861
Refined	9 649	10 258	224	7 801	3 414
Syria					
Sulphur -					
Crude	—	47	381	420	809
Sublimed, precipitated	1 288	2 944	1 689	753	1 495
Taiwan					
Sulphur	245 240	147 709	242 578	208 775	228 247
Thailand					
Sulphur -					
Unrefined	18 708	13 487	8 387	3 814	17 228
Sublimed, precipitated	792	6 190	389	11 873	351
Refined	4 762	8 302	361	3 406	16 015
Australia					
Sulphur	325 289	268 528	380 042	587 000	685 282
New Zealand (d)					
Sulphur	246 897	190 027	181 094	...	243 837

(a) S Content

(b) Years ending March 31 following that stated

(c) Years ending March 20 following that stated

(d) Years ending June 30 of that stated



## Production of Talc

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	10 953	12 127	16 107	20 333	20 600
France	233 000	246 000	236 000	255 000	298 000
Germany, Federal Republic of	33 806	29 658	30 348	28 191	29 731
Italy	154 825	143 571	147 046	146 546	154 965
Austria	100 159	91 621	83 212	92 205	98 440
Finland	62 700	100 700	90 327	109 704	128 269
Greece	2 774	1 855	5 441	5 251	4 320
Hungary	16 149	* 16 000	* 16 000	* 16 000	* 16 000
Norway	75 886	64 463	66 564	65 390	52 883
Portugal	1 807	1 275	1 204	1 110	1 170
Romania	56 728	* 57 000	* 57 000	* 60 000	* 60 000
Soviet Union	* 380 000	* 380 000	* 390 000	* 400 000	* 410 000
Spain	39 612	40 743	40 358	40 134	54 988
Sweden	32 200	24 045	26 405	28 029	28 404
Egypt	6 487	6 321	7 727	7 036	3 942
South Africa					
Talc	7 568	8 438	8 760	7 100	9 589
Wonderstone (pyrophyllite)	4 821	3 333	2 059	4 743	8 510
Swaziland					
Pyrophyllite	254	204	108	126	36
Canada (a)	65 367	59 477	73 433	73 931	85 952
Mexico	1 918	1 714	3 130	2 108	2 649
USA					
Talc	823 584	849 363	1 004 254	1 130 837	1 054 085
Pyrophyllite	108 932	91 652			
Argentina					
Talc	18 668	36 863	28 612	38 227	52 000
Pyrophyllite	6 860	7 263	8 325	6 313	
Steatite	5 376	5 661	7 755	5 961	
Brazil	88 404	48 007	121 869	137 000	155 349
Chile	639	1 758	2 615	2 462	* 2 000
Colombia	1 723	1 975	708	* 900	* 900
Paraguay	120	160	220	250	250
Peru	7 908	5 487	9 944	* 79 952	...
Uruguay	1 634	852	1 323	1 997	2 075
China	* 150 000	* 150 000	* 150 000	* 180 000	* 180 000
India					
Steatite	159 314	176 845	210 619	209 732	293 000
Pyrophyllite	13 922	11 780	15 562	14 912	15 562
Japan					
Talc	137 579	136 803	132 780	136 066	1 573 857
Pyrophyllite	1 538 769	1 434 286	1 365 131	1 372 834	
Korea, Dem. P.R. of	* 80 000	* 90 000	* 100 000	* 110 000	* 120 000
Korea, Republic of					
Talc	83 949	70 114	72 352	113 092	113 674
Pyrophyllite	120 124	142 335	163 396	304 842	328 418
Pakistan	1 737	3 527	3 042	4 015	8 108
Philippines	1 590	1 317	1 007	1 634	2 333
Taiwan	38 717	39 042	24 792	23 124	13 517
Thailand	...	50	1 550	9 550	1 798
Australia					
Talc	47 518	41 280	43 849	50 850	69 791
Pyrophyllite	7 707	6 596	12 299	12 820	10 046
World total	4 750 000	4 620 000	4 710 000	5 010 000	5 260 000

(a) Shipments

## Exports of Talc

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	2 812	2 472	1 729	2 044	1 783
Belgium-Luxembourg	15 913	15 320	14 445	17 538	21 813
France	60 880	53 954	57 455	64 137	76 432
Germany, Federal Republic of	6 268	4 349	4 709	5 557	7 114
Italy	55 516	48 362	59 336	49 082	53 772
Netherlands	398	498	508	665	740
Austria	83 929	74 225	70 920	76 083	84 495
Finland	1 761	4 102	3 934	5 668	1 855
Greece	655	590	—	—	—
Norway	66 375	71 849	71 764	69 129	66 883
Portugal	72	97	124	176	71
Sweden	6 383	2 055	1 627	2 554	3 590
Switzerland	2 432	1 633	1 266	1 256	1 056
South Africa					
Talc	506	147	192	135	214
Wonderstone (pyrophyllite)	4 540	164	241	6 670	5 335
Zambia	358	471	1 705	767	...
Mexico	16	1	4	542	...
USA	95 205	123 269	155 135	163 386	165 748
Argentina	80	510	330	388	670
Brazil	597	251	101	428	...
China (a)	91 000	116 000	155 600	198 200	...
India	18 414	9 958	5 937	10 106	11 565
Japan	825	1 854	765	829	746
Korea, Dem. P.R. of (b)	85 800	76 000	86 200	...	...
Korea, Republic of					
Steatite, Talc		10 370	9 302	4 290	2 124
Talcum powder	41 426	24 413	27 777	60 725	47 567
Malaysia	72	349	162	405	385
Singapore	1 024	1 472	1 579	1 563	1 150
Syria	60	72	15	53	47
Taiwan	...	...	512	429	538
Australia (c)	31 342	32 662	32 052	31 383	47 601

(a) Imports into various countries from China

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

(c) Year ended 30th June of that stated

## Imports of Talc

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	58 378	57 297	55 551	63 281	61 838
Belgium-Luxembourg	39 730	26 009	28 089	58 491	39 958
France	10 191	7 623	7 513	7 007	8 521
Germany, Federal Republic of	97 878	93 486	90 399	101 726	110 359
Italy	17 982	18 484	19 606	20 138	25 357
Netherlands	18 839	13 375	13 078	14 600	15 651
Austria	1 049	1 288	1 355	1 659	2 109
Finland	6 159	6 236	5 157	2 829	1 685
Greece	3 915	2 967	2 588	3 260	2 092
Norway	2 766	2 922	3 029	5 063	3 352
Poland	21 116	19 868	19 119	23 630	29 714
Portugal	3 378	2 905	3 263	3 981	3 399
Soviet Union	92 200	53 800	38 600	44 900	...
Spain	4 942	4 744	5 898	8 300	10 079
Sweden	22 121	20 462	22 088	22 923	24 729
Switzerland	13 935	12 893	13 794	14 142	14 018
Yugoslavia	1 396	1 517	1 610	2 040	3 027
Algeria	4 435	3 191	2 630	2 983	...
Cameroon	340	228	191	229	330
Ghana	1 010	676	123	737	1 390
Ivory Coast	687	650	657	395	1 213
Morocco	1 096	1 324	1 164	1 335	1 007
Mozambique	...	169	204	228	300
Senegal	155	216	228	225	...
South Africa	2 050	2 778	2 131	2 991	3 305
Togo	29	56	64	56	69
Tunisia	1 320	1 825	1 174	2 091	1 784
Canada	29 999	30 619	36 746	29 967	36 248
Costa Rica	333	351	392	617	681
El Salvador	129	172	126	192	143
Guatemala	295	255	278	364	342
Honduras	47	50	46	58	100
Mexico					
Talc	67 287	76 361	81 061	89 621	102 615
Pyrophyllite	222	283	269	315	233
Nicaragua	331	228	...	244	499
Panama	238	360	292	455	376
USA	27 205	15 769	26 385	20 859	27 444
Argentina	584	458	259	257	521
Brazil	91	29	90	177	132
Chile	268	682	639	829	897
Colombia	1 270	1 067	897	1 070	...
Venezuela	10 120	7 904	7 309	7 051	6 909
Cyprus	518	482	301	313	4 220
Hong Kong	2 523	4 008	1 415	1 715	1 257
Iran (a)	194	58	214	338	583
Iraq	592	924	481	476	1 006
Israel	2 603	1 965	2 086	650	1 200
Japan	158 262	173 439	219 568	276 558	299 013
Lebanon	387	816	958	937	...
Malaysia	3 098	2 949	3 381	4 513	4 716
Philippines	4 034	3 669	3 797	5 779	5 918
Singapore	6 387	6 766	8 827	12 794	9 192
Syria	537	1 467	375	348	1 946
Taiwan	...	...	1 575	2 300	2 454
Thailand					
Steatite	265	59	14	412	304
Talc	2 931	3 120	4 181	7 434	8 117
Australia (b)	2 968	8 407	668	1 354	1 700
New Zealand (b)	1 777	1 936	1 943	...	...

(a) Years ended March 20 following that stated

(b) Years ended June 30 of that stated

## Mine Production of Tantalum &amp; Niobium

	tonnes				
Country	1970	1971	1972	1973	1974
Portugal					
Tantalite-columbite	4	11	12	15	12
Mozambique					
Columbo-tantalite	97	74	54	46	43
Microlite	64	54	68	54	62
Nigeria					
Columbite	1 616	1 380	1 360	1 240	1 329
Tantalite	4	4	1	1	...
Rwanda					
Columbo-tantalite	30	33	38	34	37
South Africa					
Tantalite-columbite	3	1	—	...	—
Uganda (a)					
Columbo-tantalite	8	5	8	3	10
Zaire					
Columbo-tantalite (b)	148	110	97	56	64
Rhodesia					
Columbo-tantalite	...	...	* 40	* 40	* 40
Canada					
Columbite (c)	2 129	1 058	1 757	1 441	1 920
Tantalite (d)	144	204	19	77	199
Argentina					
Columbite	2	2	—	1	1
Tantalite (e)	3	3	2	1	1
Brazil					
Pyrochlore	13 284	6 094	9 635	19 426	17 883
Tantalite	209	290	299		92
Columbite	41	63	65	169	
Malaysia					
Columbite	61	24	88	92	93
Thailand					
Columbite		21	7	8	10
Tantalite	57	21	8	16	82
Australia (f)					
Tantalite-columbite	101	75	270	273	* 138
World total (g)	10 000	11 000	16 000	24 000	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, Rhodesia, Somalia, Namibia, USA and Zambia.

(a) Exports

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

(c) Nb<sub>2</sub>O<sub>5</sub> content

(d) Ta<sub>2</sub>O<sub>5</sub> 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 &amp; Niobium

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Niobium & tantalum ores & concentrates	204	292	410	603	469
Tantalum	24	10	8	11	33
France					
Niobium & tantalum ores (b)	—	—	10	—	—
Tantalum	4	5	16	11	12
Germany, Federal Republic of					
Tantalum	62	35	38	37	59
Niobium	2	2	5	8	6
Italy					
Niobium & tantalum ores	—	6	40	63	70
Tantalum	—	—	22	7	3
Netherlands					
Tantalum	10	5	9	10	12
Austria					
Tantalum	6	31	12	10	12
Portugal					
Columbite	12	12	10	22	4
Mozambique					
Tantalum ore	91	86	...	78	103
Columbite	97	67	1	46	95
Nigeria					
Columbite	1 792	1 218	1 486	1 143	2 277
Tantalite	4	2	...	2	4
Rwanda					
Columbite-tantalite	* 28	* 23	* 30	* 26	...
South Africa					
Tantalite-columbite	32	—	—	—	—
Uganda					
Columbite-tantalite	8	5	8	—	10
Zaire					
Columbite-tantalite	* 170	* 150	* 40	* 220	...
Canada (c)	* 3 500	* 1 500	* 2 000	* 2 000	* 3 000
USA					
Tantalum ores & concentrates	55	22	9	7	91
Tantalum	353	127	144	248	334
Niobium	21	10	13	44	15
Brazil					
Pyrochlore	8 500	1 640	4 884	6 445	4 342
Tantalite	209	290	164	130	147
Columbite	41	63	4	26	—
Japan					
Tantalum	2	1	2	1	25
Malaysia					
Columbite	24	30	69	69	160
Tin slags	984	1 180	8 240	11 382	5 855
Thailand					
Columbite & tantalite	18	2	15	44	65
Tin slags	...	...	...	2 879	5 052
Australia (a)					
Tantalite-columbite	108	123	170	290	141

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) Years ending June 30 of that stated

(b) Includes vanadium ores

(c) IGS estimate based on imports into other countries: official exports not available

## Imports of Tantalum &amp; Niobium

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Niobium & tantalum ores & concentrates	2 950	962	1 823	2 588	1 677
Tantalum	44	22	27	67	59
France					
Niobium & tantalum ores (a)	723	515	619	814	1 081
Tantalum	18	15	19	26	37
Niobium	84	3	2	3	1
Germany, Federal Republic of					
Niobium & tantalum ores (a)	2 930	1 181	2 296	3 357	2 985
Tantalum	69	69	55	97	88
Niobium	2	14	5	4	11
Italy					
Niobium & tantalum ores	9	179	110	171	544
Tantalum	6	9	9	14	15
Niobium	5	—	—	8	21
Netherlands					
Tantalum	7	3	2	4	2
Austria					
Tantalum	0	10	18	13	14
USA					
Tantalum concentrates	474	535	557	498	860
Niobium concentrates	2 594	1 385	1 464	1 282	1 419
Tantalum	23	18	34	46	84
Niobium	1	0	0	2	...
Tin slags (b)	4 661	4 111	4 437	3 904	3 803
Ta <sub>2</sub> O <sub>5</sub> content	260	270	346	398	421
Nb <sub>2</sub> O <sub>5</sub> content	323	342	355	391	298
Japan					
Niobium minerals	1 119	1 230	1 479	2 207	1 900
Tantalum ores & concentrates	115	105	59	84	109
Tantalum	43	23	23	49	66
Thailand					
Tantalum ores	6	5	20	10	15

(a) Includes vanadium ores

(b) Receipts reported by consumers

## Mine Production of Tin

tonnes (metal content)

Country	1970	1971	1972	1973	1974
United Kingdom	1 772	1 816	3 327	3 600	2 500
France	337	350	313	311	142
German Democratic Republic	* 1 000	* 1 000	* 1 000	* 1 000	* 1 000
Portugal	435	555	528	516	618
Spain	443	402	379	523	643
Cameroon	36	36	36	36	36
Congo	48	48	—	—	—
Morocco	26	13	12	12	12
Namibia	1 044	964	910	731	700
Niger	74	87	95	93	84
Nigeria	7 959	7 326	6 731	5 828	5 455
Rhodesia	* 600	* 600	* 600	* 600	* 600
Rwanda	1 440	1 308	1 440	1 416	2 208
South Africa	1 980	2 051	2 209	3 033	3 089
Tanzania	50	54	40	12	86
Uganda	122	117	72	44	199
Zaire	6 458	6 440	5 960	5 442	4 750
Canada (a)	120	145	159	132	141
Mexico	533	479	355	293	400
USA	* 72	* 72	* 72	* 72	* 72
Argentina	1 172	711	559	432	* 400
Bolivia (b)	28 900	30 276	36 100	21 544	21 849
Brazil	3 578	2 279	2 503	3 593	3 500
Peru (c)	103	170	126	222	* 200
Burma	254	493	* 500	* 580	* 600
China (d)	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Indonesia	19 092	19 767	21 766	22 492	25 630
Japan	793	788	873	811	550
Korea, Republic of	76	76	76	63	24
Laos	1 380	671	787	747	612
Malaysia	73 794	75 445	76 830	72 260	68 122
Thailand	21 778	21 690	22 072	20 921	20 339
Australia	8 828	10 034	11 997	10 801	10 481
World total (e)	204 000	206 000	218 000	198 000	195 000

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

(b) Sn content of ore plus metal exported

(c) Recoverable

(d) Smelter

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

## Smelter Production of Tin

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	22 035	23 153	21 333	20 404	11 800
Belgium	4 257	3 940	3 923	3 669	3 418
Germany, Federal Republic of	1 195	1 169	859	1 038	1 384
Netherlands	5 937	837	—	—	—
Czechoslovakia	65	80	90	118	120
German Democratic Republic	* 1 100	* 1 100	* 1 100	* 1 100	* 1 100
Portugal	392	498	606	524	450
Spain	3 908	4 135	4 761	4 258	5 862
Morocco	* 12	* 12	* 12	* 12	* 12
Nigeria	8 069	7 348	6 744	5 983	5 574
Rhodesia	* 600	* 600	* 600	* 600	* 600
South Africa	613	714	779	874	854
Zaire	1 396	1 350	1 400	969	627
Mexico	960	960	960	960	1 000
USA	4 540	4 450	4 000	4 600	6 100
Argentina	* 120	* 120	* 120	* 120	* 120
Bolivia (a)	299	6 816	6 391	6 754	7 045
Brazil	3 100	3 424	3 583	4 433	4 848
China	* 20 000	* 20 000	* 20 000	* 20 000	* 20 000
Indonesia	5 190	9 218	12 010	14 632	15 065
Japan	1 375	1 297	1 349	1 438	1 327
Malaysia	92 107	87 095	91 001	82 468	84 394
Thailand	22 040	21 742	22 281	22 927	19 827
Australia	5 211	6 333	7 027	6 904	6 714
World total (b)	205 000	206 000	211 000	205 000	198 000

(a) Exports

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



## Exports of Tin

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	26	675	32	456	1 913
Unwrought	12 951	9 553	13 634	16 296	8 930
Unwrought alloys	2 804	2 334	1 960	2 440	3 537
Belgium-Luxembourg					
Unwrought	3 043	2 696	2 083	1 866	1 670
Unwrought alloys	58	28	24	76	179
Denmark					
Unwrought	112	154	54	34	73
Unwrought alloys	1 190	1 459	970	970	1 108
France					
Ore	406	486	450	420	208
Unwrought	122	94	60	54	399
Unwrought alloys	174	291	227	192	121
Germany, Federal Republic of					
Unwrought (a)	877	1 180	1 225	1 549	1 582
Italy					
Unwrought (a)	233	258	97	66	474
Netherlands					
Unwrought	5 437	3 096	1 214	1 592	1 707
Unwrought alloys	296				
Austria					
Unwrought (a)	64	4	12	21	42
Norway					
Unwrought (a)	229	204	184	222	280
Portugal					
Unwrought	77	14	17	38	9
Spain					
Unwrought	1 344	1 384	904	503	1 565
Sweden					
Unwrought	383	48	38	30	27
Unwrought alloys	57	46	23	52	63
Switzerland					
Unwrought	137	42	54	106	123
Niger					
Ore	20	14	45	140	120
Nigeria					
Unwrought (a)	10 903	8 433	6 849	5 251	5 761
South Africa					
Concentrates (b)	1 443	1 470	1 382	1 613	1 768
Tanzania					
Ores & concentrates	241	141	77	52	68
Uganda					
Ores & concentrates	185	175	104	66	243
Zaire					
Ore	4 333	4 997	4 715	4 435	4 028
Unwrought	1 495	1 800	1 127	900	523
Canada					
Concentrates (b)	268	217	142	318	1 316
USA					
Unwrought (a)	4 073	1 850	871	2 581	6 003
Argentina					
Ore	677	572	534	404	2
Tin-silver ore	4 462	3 909	4 272	2 353	3 786
Bolivia					
Ores & concentrates	27 836	23 463	23 180	21 464	21 849
Unwrought	299	6 816	6 391	6 754	7 045
Brazil					
Unwrought	—	1 053	1 387	1 215	2 653
Peru					
Ores & concentrates (b)	114	147	143	96	...

## Exports of Tin

	tonnes				
Country	1970	1971	1972	1973	1974
Burma					
Ores & concentrates (b)	84	441	247	317	820
China					
Unwrought	* 4 900	* 6 500	* 6 600	* 8 500	* 8 900
Indonesia					
Ores & concentrates (b)	13 517	8 750	8 769	7 268	8 105
Unwrought (a)	4 252	9 892	11 189	13 954	14 943
Japan					
Unwrought	393	509	349	376	813
Laos					
Ore (b)	784	1 005	1 150	1 197	964
Malaysia					
Ore	696	502	—	...	...
Unwrought	91 933	86 639	89 207	81 537	85 224
Singapore					
Ore	2 508	2 586	2 313	2 841	1 629
Unwrought	62	121	55	160	137
Unwrought alloys	196	338	280	508	504
Thailand					
Unwrought	21 847	21 873	21 840	22 671	20 768
Australia (c)					
Ores & concentrates (b)	3 720	3 325	4 801	11 281	8 641
Unwrought (b)	1 107	1 943	3 328	3 938	2 358

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) Year ended June 30 of that stated

## Imports of Tin

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	70 027	59 685	58 855	50 429	39 752
Unwrought (a)	6 498	7 949	6 463	8 134	7 880
Belgium-Luxembourg					
Ore	6 000	6 591	6 211	5 688	5 281
Unwrought	2 584	1 465	1 601	1 437	2 790
Unwrought alloys	199	163	118	131	171
Denmark					
Unwrought	763	911	411	399	568
Unwrought alloys	472	114	416	171	189
France					
Unwrought	9 831	10 449	11 229	11 839	11 670
Unwrought alloys	198	147	290	401	346
Germany, Federal Republic of					
Ore	5 985	6 283	6 608	8 817	10 816
Unwrought (a)	15 085	15 483	15 737	16 162	17 504
Irish Republic					
Unwrought (a)	346	58	68	23	34
Italy					
Unwrought	7 275	6 733	7 875	9 310	10 367
Unwrought alloys	239	531	273	452	695
Netherlands					
Ore	10 157	1 208	621	484	2 375
Unwrought	5 199	5 751	5 595	6 632	6 713
Unwrought alloys	159				
Austria					
Unwrought (a)	613	634	517	585	582
Finland					
Unwrought (a)	345	438	226	316	386
Greece					
Unwrought	242	254	280	397	497
Hungary					
Unwrought	1 856	1 578	1 146	1 205	1 603
Norway					
Unwrought	440	505	473	437	593
Unwrought alloys	195	171	114	162	202
Poland					
Unwrought	3 537	4 956	4 780	4 836	4 450
Portugal					
Unwrought (a)	166	78	398	317	418
Soviet Union					
Unwrought	8 300	4 400	4 200	4 000	5 235
Spain					
Ore	5 450	5 515	5 088	5 349	6 156
Sweden					
Unwrought	806	467	459	404	533
Unwrought alloys	144	97	92	91	108
Switzerland					
Unwrought	945	962	894	907	808
Turkey					
Unwrought (a)	1 208	1 152	698	1 369	...
Yugoslavia					
Unwrought	1 575	762	483	1 273	1 550
Egypt					
Unwrought & scrap	630	586	142	2 850	...
Kenya					
Unwrought (a)	94	181	90	33	51
Morocco					
Unwrought	199	246	330	306	...
Nigeria					
Unwrought (a)	132	615	469	7	21
South Africa (f)					
Ores & concentrates	141	220	176	89	...
Unwrought	446	485	469	939	1 037

## Imports of Tin

	tonnes				
Country	1970	1971	1972	1973	1974
Sudan					
Unwrought	76	2	3	73	1
Tanzania					
Unwrought (a)	43	62	19	20	23
Tunisia					
Unwrought & scrap	20	40	53	42	40
Uganda					
Unwrought (a)	17	36	10	7	8
Zambia					
Unwrought & semi-manufactures (a)	66	64	53	89	...
Bahamas					
Unwrought & semi-manufactures	129	801	953	1 556	2 028
Barbados					
Unwrought (a)	2	19	—	2	—
Canada					
Unwrought	5 111	5 104	5 906	5 465	5 556
Jamaica					
Unwrought (a)	26	78	124	3	...
Mexico					
Ores & concentrates	2 552	2 713	1 478	3 011	2 190
Unwrought	418	...	407	...	456
Trinidad & Tobago					
Unwrought (a)	6	8	10	19	—
USA					
Ore (b)	4 742	3 109	4 284	4 552	5 971
Unwrought	51 365	47 693	53 292	46 581	40 237
Unwrought alloys	867	1 058	1 097	972	985
Argentina					
Unwrought	1 127	1 308	1 624	1 536	2 017
Brazil					
Ore	—	1 423	3 070	3 214	6 015
Chile					
Unwrought	959	559	605	444	2 222
Colombia					
Unwrought (a)	178	232	389	339	...
Guyana					
Unwrought (a)	17	17	57	48	...
Uruguay					
Unwrought	35	34	38	45	...
Venezuela					
Unwrought	170	174	207	277	299
Hong Kong					
Unwrought	216	328	793	601	593
India (c)					
Unwrought	6 309	2 813	1 663	2 734	1 768
Iran (d)					
Unwrought	304	274	326	554	453
Iraq					
Unwrought	82	79	60	30	...
Israel					
Unwrought	181	114	10	30	20
Japan					
Ores & concentrates	249	18	26	10	3
Unwrought	26 880	27 682	31 061	35 816	31 163
Korea, Republic of					
Unwrought	394	633	538	949	636
Lebanon					
Unwrought & scrap	42	36	14	16	...
Malaysia					
Ore	21 167	15 106	18 110	15 159	...
Unwrought (a)	103	154	269	117	...
Philippines					
Unwrought (a)	808	733	1 175	634	995

## Imports of Tin

	tonnes				
Country	1970	1971	1972	1973	1974
Singapore					
Ore	1 138	870	257	134	23
Unwrought	170	308	404	762	636
Unwrought alloys	689	151	193	188	302
Syria					
Unwrought & scrap	120	137	151	84	30
Taiwan					
Unwrought (a)	469	704	639	903	705
Australia (e)					
Unwrought	110	131	70	64	18
New Zealand (e)					
Unwrought (a)	339	319	332	404	435

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) Years ended March 31 following that stated

(d) Years ended March 20 following that stated

(e) Years ended June 30 of that stated

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

## Production of Titanium Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
Finland					
Ilmenite	151 000	139 500	149 500	159 000	152 000
Norway					
Ilmenite	578 961	641 604	608 477	752 632	848 138
Portugal					
Ilmenite	238	890	752	610	* 500
Spain					
Ilmenite	27 126	24 349	22 483	5 416	5 400
Sierra Leone					
Rutile	44 056	11 932	...	...	...
Canada (a)					
Ilmenite	1 892 286	1 893 302	2 048 859	2 082 185	2 017 463
USA					
Ilmenite (b)	787 396	619 675	631 153	712 383	681 148
Brazil (c)					
Ilmenite	20 644	11 198	3 791	6 400	6 743
Rutile	1	—	6	42	* 200
India					
Ilmenite	78 900	90 700	91 069	77 191	* 77 000
Rutile	2 500	2 900	3 065	3 400	* 3 400
Japan					
Ilmenite	3 145	2 376	2 115	2 117	* 2 200
Malaysia (e)					
Ilmenite	222 611	155 952	154 320	185 413	153 530
Sri Lanka					
Ilmenite	84 562	92 892	82 503	93 482	81 098
Rutile	2 395	2 586	2 151	2 252	3 051
Australia					
Ilmenite	886 452	813 800	707 413	719 601	816 746
Rutile	370 867	374 705	313 139	335 231	318 702
Leucoxene	10 593	14 560	10 730	11 097	14 782
World total					
Ilmenite (Wt. of concs)	4 730 000	4 490 000	4 500 000	4 800 000	* 4 840 000
Rutile (Wt. of concs)	420 000	392 000	330 000	353 000	* 337 000
All forms (d)	5 164 000	4 893 000	4 843 000	5 160 000	5 191 000

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

(a) Shipments

(b) Contains a mixed product including ilmenite, leucoxene and rutile

(c) Comissao Nacional de Energie Nuclear only

(d) Includes leucoxene

(e) Exports

## Exports of Titanium Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
France					
Titanium minerals	139	124	336	277	372
Germany, Federal Republic of					
Titanium minerals	147	313	299	565	1 044
Finland					
Ilmenite	24 667	10 500	9 079	—	1
Norway					
Ilmenite & Rutile	532 126	513 835	598 729	684 660	776 814
Spain					
Ilmenite	—	—	20	—	—
Sweden					
Titanium minerals	308	205	100	—	72
Sierra Leone					
Rutile concentrates	29 230	16 379	—	...	...
South Africa					
Ilmenite	512	409	301	40	—
Canada					
Titanium dioxide slag (c)	...	...	...	...	...
USA					
Ores & concentrates	960	1 597	1 635	1 355	2 961
Titanium metal unwrought (a)	2 633	1 552	3 184	3 758	4 291
India					
Ilmenite	54 053	50 358	68 945	75 055	118 634
Japan					
Titanium sponge metal	4 358	2 803	3 256	2 264	2 892
Titanium & alloys	664	388	344	507	738
Malaysia					
Ilmenite	222 611	155 952	154 320	185 413	153 530
Other titanium ores	...	9	...	241	152
Sri Lanka					
Ilmenite	78 082	86 669	85 501	87 012	87 182
Rutile	...	...	3 277	2 846	2 393
Australia					
Rutile	374 200	335 955	354 846	338 509	354 126
Ilmenite (b)	657 445	676 329	424 771	523 740	710 670

(a) Including alloys and scrap

(b) Including leucoxene

(c) Sorel slag 70–72% TiO<sub>2</sub>: estimated at 700 000 tonnes per year

## Imports of Titanium Minerals

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ilmenite	345 525	361 312	275 586	358 511	317 421
Other ores & concentrates	49 867	36 221	48 749	49 291	72 507
Titanium metal	839	318	744	1 373	1 258
Belgium-Luxembourg					
Titanium minerals	61 954	68 348	69 247	71 120	121 125
Titanium metal	540	312	454	967	1 739
France					
Titanium minerals	126 834	112 961	139 703	142 385	176 359
Titanium metal	1 095	1 556	1 071	1 121	1 137
Germany, Federal Republic of					
Ilmenite	363 117	278 202	335 929	373 185	419 623
Other titanium minerals	213 785	209 003	121 570	116 739	108 815
Titanium metal	3 078	2 018	1 485	3 090	3 806
Italy					
Titanium minerals	107 519	96 981	133 389	124 514	167 229
Finland					
Titanium	243	7 295	304	2 082	17 561
Portugal					
Rutile	432	257	149	268	259
Spain					
Ilmenite	12 648	30 268	39 468	43 766	76 596
Sweden					
Titanium minerals	3 505	2 728	2 927	3 754	4 797
Titanium metal	511	319	274	650	961
Turkey					
Titanium minerals	238	446	2 612	655	...
Yugoslavia					
Rutile	1 427	1 874	2 637	24 031	36 757
Canada					
Titanium metal	262	160	202	252	416
USA					
Ilmenite (a)	114 928	205 070	88 451	196 270	258 496
Titanium minerals	220 688	196 512	293 437	282 273	246 773
Titanium metal	6 437	4 009	3 978	6 191	10 337
Argentina					
Titanium minerals	1 348	1 736	1 755	1 815	2 433
Brazil					
Ilmenite	10 109	10 161	20 829	37 765	35 880
Rutile	1 061	1 364	2 654	2 310	3 213
Hong Kong					
Titanium minerals	120	146	87	203	150
Japan					
Titanium minerals	588 270	553 723	446 161	493 719	680 511
Korea, Republic of					
Titanium minerals	...	6 222	4 722	13 956	18 469
Rutile sand	...	597	680	1 029	1 456
Singapore					
Titanium minerals	129	58	595	443	144
Thailand					
Titanium minerals	148	181	461	1 031	591

(a) Including 70% TiO<sub>2</sub> slag imported from Canada



## Production of Tungsten Ore

tonnes (WO<sub>3</sub> est.)

Country	1970	1971	1972	1973	1974
United Kingdom	14	6	3	16	13
France	74	758	714	885	748
Netherlands	78	224	245	364	612
Austria	108	59	—	—	—
Czechoslovakia	* 96	* 96	* 96	* 101	* 100
Portugal (c)	1 860	1 695	1 769	1 894	1 864
Soviet Union	* 8 400	* 8 800	* 9 100	* 9 300	* 9 600
Spain	514	513	456	393	437
Sweden	...	...	52	295	209
Namibia	79	120	112	28	—
Nigeria	* 1	* 1	* 1	* 1	* 1
Rhodesia	129	295	190	194	115
Rwanda	375	419	316	381	316
South Africa	4	8	1	1	—
Tanzania	4	6	4	1	—
Uganda	153	139	137	* 137	* 140
Zaire	207	405	357	295	246
Canada (a)	1 690	2 098	2 017	2 105	1 608
Guatemala	* 50	* 50	* 10	* 200	* 200
Mexico	363	300	362	348	390
USA (b)	5 326	3 905	4 028	4 037	4 481
Argentina	181	173	199	105	119
Bolivia	2 370	2 638	1 402	2 768	2 525
Brazil (a)	1 353	1 710	1 439	1 255	1 150
Peru	1 014	958	1 203	1 084	860
Burma (d)	349	572	652	630	* 430
China	* 7 600	* 8 800	* 9 400	* 10 100	* 10 700
Hong Kong	* 6	* 6	* 6	* 6	* 6
India	23	19	21	21	19
Japan	838	890	1 077	1 048	970
Korea, Dem. P.R. of	* 2 710	* 2 710	* 2 710	* 2 720	* 2 720
Korea, Republic of	2 404	2 321	2 183	2 417	2 749
Malaysia	88	11	158	158	* 170
Thailand	896	3 194	4 215	3 281	2 779
Australia (c)	1 596	1 816	1 985	1 667	1 419
New Zealand	5	7	13	1	7
World total	41 000	46 000	47 000	48 000	48 000

(a) Mainly scheelite

(b) Shipments from mine

(c) Wolfram &amp; scheelite

(d) Tin-wolfram concentrates

## Tungsten

## Exports of Tungsten

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Tungsten ore	569	1 057	398	729	1 038
Tungsten metal	153	115	111	273	415
Tungsten carbide	234	217	163	148	200
Belgium-Luxembourg					
Tungsten ore	63	149	163	88	160
France					
Tungsten ore	125	1 046	1 402	1 206	1 067
Tungsten metal	245	189	221	307	580
Germany, Federal Republic of					
Tungsten metal	502	320	530	587	2 002
Netherlands					
Tungsten ore	120	(f) 345	(f) 374	(f) 560	(f) 939
Austria					
Tungsten ore	172	100	9	80	20
Tungsten metal	927	1 259	96	157	177
Portugal					
Tungsten ore	1 728	1 447	736	1 807	3 195
Spain					
Tungsten ore	669	324	145	226	208
Sweden					
Tungsten ore	279	21	107	134	33
Tungsten metal	75	163	26	118	99
South Africa (e)					
Tungsten ore	185	190	20	55	* 220
Tanzania					
Wolfram ore	19	5	27	—	—
Uganda					
Wolfram ore	224	206	246	178	176
Zaire					
Tungsten ore (a)	* 376	* 321	280	133	172
Canada (a)	* 1 380	* 1 180	* 1 330	* 2 050	* 1 240
Guatemala (a)	* 40	* 40	* 8	* 158	* 160
Mexico					
Tungsten ore & concentrates	459	522	475	522	349
USA					
Tungsten ore & concentrates	17 116	1 763	83	79	1 044
Metal, alloys & scrap	762	687	286	477	576
Tungsten powder	184	148	119	208	630
Argentina					
Tungsten ore	48	96	138	59	11
Tungsten concentrates	150	89	70	7	11
Bolivia					
Tungsten ore (b)	2 410	2 638	2 750	2 752	2 525
Brazil					
Tungsten ore	1 644	2 265	1 724	1 348	* 1 500
Peru					
Tungsten ore & concentrates (b)	971	746	1 262	1 073	796
Burma					
Tungsten ore & concentrates	275	260	492	955	808
Tin-tungsten ores	51	340	258	...	432
Japan					
Tungsten metal (c)	51	92	81	64	114
Korea, Dem. P.R. of (a)	* 500	* 640	* 640	* 1 000	* 1 100
Korea, Republic of					
Tungsten ore	8 290	3 004	4 035	4 368	2 898
Malaysia					
Wolfram	172	273	327	314	* 350

## Exports of Tungsten

	tonnes				
Country	1970	1971	1972	1973	1974
Singapore					
Tungsten ore	128	172	47	565	80
Thailand					
Tungsten ore	1 151	4 842	6 433	4 972	4 929
Australia (d)					
Wolfram ores & concentrates (b)	665	712	547	601	268
Scheelite ores & concentrates (b)	1 010	825	1 288	1 082	1 151

(a) W content

(b) WO<sub>3</sub> content

(c) Including alloys

(d) Years ended June 30 of that stated

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

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

## Imports of Tungsten

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Tungsten ore	10 550	7 129	6 486	8 770	4 009
Tungsten metal	76	103	80	60	127
Tungsten carbide	136	130	81	...	185
Belgium-Luxembourg					
Tungsten ore	125	142	265	418	458
France					
Tungsten ore	2 675	2 311	1 891	2 497	2 777
Tungsten metal	145	102	102	144	116
Germany, Federal Republic of					
Tungsten ore	6 946	5 432	6 226	6 886	4 246
Tungsten metal	785	376	315	392	3 513
Italy					
Tungsten ore	138	115	100	175	277
Tungsten metal	67	79	53	68	90
Netherlands					
Tungsten ore	378	(e) 467	(e) 1 205	(e) 1 501	(e) 3 428
Austria					
Tungsten ore	3 703	3 076	2 643	2 254	1 996
Tungsten metal	229	113	36	44	62
Poland					
Tungsten concentrates	3 351	3 308	...	4 394	3 186
Soviet Union					
Tungsten concentrates	799	4 792	6 568	4 823	7 044
Sweden					
Tungsten ore	3 535	2 792	2 397	2 442	1 909
Tungsten metal	115	35	21	200	34
Yugoslavia					
Tungsten metal	20	20	59	56	12
South Africa (a)					
Tungsten ore & concentrates	594	480	543	470	542
Tungsten metal	125	69	45	49	72
Canada					
Tungsten ore & concentrates (b)	83	70	109	5	—
USA					
Tungsten ore (c)	734	240	3 282	6 035	6 784
Tungsten metal & carbide (b)	67	210	495	650	...
Tungsten ingots & scrap (b)	52	55	140	112	120
India					
Tungsten ore	263	333	339	276	203
Japan					
Tungsten ore	6 160	2 756	2 436	4 563	3 818
Tungsten metal	125	59	60	246	336
Singapore					
Tungsten ore	...	76	...	478	71
Australia (d)					
Tungsten metal	18	17	13	11	14

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

(b) W content

(c) WO<sub>3</sub> content

(d) Years ended June 30 of that stated

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

## Mine production of Vanadium

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Finland	1 315	1 109	1 190	1 260	1 480
Norway	* 1 080	* 1 050	* 960	* 720	* 780
Soviet Union (b)	* 3 400	* 2 600	* 3 400	* 3 800	* 3 900
Namibia (a)	420	800	550	650	830
South Africa (c)	7 230	6 200	7 320	8 210	8 155
USA (d)	4 825	4 764	4 433	3 971	4 418
Chile (b)	* 550	* 600	* 650	* 960	* 290
World total	18 800	17 100	18 500	19 600	19 900

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

(a) Year ended June 30 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	1970	1971	1972	1973	1974
United Kingdom					
Pentoxide	...	...	22	266	152
Metal	...	...	...	...	11
Belgium-Luxembourg					
Vanadiferous residues	...	...	...	3	1 052
France					
Vanadiferous residues	...	...	...	2 583	1 143
Pentoxide	55	21	51	73	30
Germany, Federal Republic of					
Vanadiferous residues	622	159	37	168	1 115
Metal	—	1	6	10	15
Netherlands					
Vanadiferous residues	...	...	...	60	883
Vanadium-titanium pig-iron	—	—	—	—	1 132
Finland					
Pentoxide	2 798	1 874	2 440	2 354	2 681
Soviet Union					
Vanadiferous residues	38 300	29 400	37 500	42 800	36 600
South Africa (a)					
Pentoxide	5 392	3 619	4 692	4 988	* 5 000
Vanadiferous residues (d)	* 8 000	* 7 500	* 8 000	* 8 000	* 8 500
Lead vanadium concentrates (b)	2 453	5 764	5 504	7 759	* 8 000
USA					
Pentoxide (c)	883	236	160	211	406

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

(b) Mostly from Namibia

(c) V content

(d) V<sub>2</sub>O<sub>5</sub> content

## Imports of Vanadium

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom					
Pentoxide	* 942	* 528	542	1 133	914
Vanadium-titanium pig-iron	1 093	1 471	1 907	240	—
Belgium-Luxembourg					
Vanadiferous residues	...	...	...	1 821	3 687
Pentoxide	1 296	1 661	1 280	1 815	1 278
France					
Vanadiferous residues	...	...	...	6	74
Pentoxide	1 348	776	1 022	1 355	1 599
Vanadium-titanium pig-iron	6 413	6 364	4 344	7 547	4 117
Metal	29	41	12	29	21
Germany, Federal Republic of					
Vanadiferous residues	28 138	21 992	30 663	30 540	29 800
Pentoxide	1 275	458	716	1 134	629
Vanadium-titanium pig-iron	1 144	1 076	775	848	644
Metal	25	28	44	27	14
Italy					
Pentoxide	172	316	881	923	588
Vanadium-titanium pig-iron	1 083	1 095	7 317	1 819	2 224
Vanadiferous residues	...	...	...	2 842	3 957
Netherlands					
Vanadiferous residues	...	...	...	17 747	13 644
Pentoxide	58	4	14	91	22
Vanadium-titanium pig-iron	212	401	150	52	32
Sweden					
Pentoxide	945	641	104	749	711
USA					
Ores, slags, residues (a)	* 1 800	* 2 100	* 1 300	* 2 400	* 2 400
Japan					
Pentoxide	2 807	2 317	2 039	2 632	3 099

(a) V content

## Mine Production of Zinc

tonnes (metal content)

Country	1970	1971	1972	1973	1974
United Kingdom (a)	...	...	1 200	2 900	3 000
France	18 575	15 123	13 286	13 335	14 465
Germany, Federal Republic of	113 782	122 292	114 942	118 055	112 618
Irish Republic	96 494	87 500	94 919	68 827	66 300
Italy	110 700	105 900	102 600	78 600	79 339
Austria	15 707	21 073	29 480	22 151	20 977
Bulgaria	76 400	* 80 000	* 80 000	* 80 000	* 80 000
Finland (b)	62 609	50 020	49 893	58 650	59 300
German Democratic Republic	* 10 000	* 10 000	* 8 000	* 6 000	* 5 000
Greece	8 200	13 900	18 224	20 900	* 20 000
Greenland	—	—	—	—	(f) 168 000
Hungary	* 4 800	* 4 800	* 4 800	* 4 800	* 4 800
Norway	10 321	10 927	14 613	19 249	22 036
Poland	* 242 000	* 236 000	* 222 400	* 210 000	* 200 000
Portugal	1 606	2 046	1 788	689	1 600
Soviet Union	* 610 000	* 650 000	* 650 000	* 670 000	* 680 000
Spain	98 065	87 540	89 433	94 223	93 420
Sweden	93 376	99 043	113 728	118 542	113 699
Turkey	24 000	17 500	17 200	24 500	30 300
Yugoslavia	101 145	98 694	96 731	97 428	94 700
Algeria	16 970	15 797	14 900	14 405	11 000
Congo	200	500	2 200	2 700	3 300
Morocco	17 848	12 328	19 500	17 500	14 600
Namibia	46 100	48 900	46 300	33 900	44 900
Tunisia	12 251	11 802	11 266	8 742	6 254
South Africa	—	—	2 400	18 700	37 400
Zaire	104 300	108 600	98 450	84 852	88 078
Zambia (c)	53 456	57 066	55 983	53 500	58 358
Canada	1 253 094	1 270 256	1 271 595	1 357 602	1 237 324
Guatemala (b)	* 1 000	506	929	280	...
Honduras	15 504	22 894	23 305	19 669	19 113
Mexico	262 600	264 972	271 844	271 373	262 700
Nicaragua	...	4 056	17 495	18 700	14 200
USA (b)	484 557	455 899	433 923	434 405	448 554
Argentina	38 985	43 818	44 527	40 596	37 200
Bolivia	45 800	45 412	40 275	49 568	(d) 47 939
Brazil	24 002	24 330	44 599	93 876	109 523
Chile	1 537	1 982	1 162	1 589	3 200
Colombia	389	279	86	8	* 35
Ecuador	125	154	132	60	* 200
Peru (b)	299 136	318 073	376 129	412 000	387 000
Burma	3 700	3 400	3 600	* 3 600	* 4 000
China	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
India	8 420	8 879	9 523	13 391	16 400
Japan	279 679	294 419	281 147	263 958	240 778
Korea, Dem. P.R. of	* 130 000	* 135 000	* 140 000	* 145 000	* 145 000
Korea, Republic of	23 980	28 160	35 925	48 150	40 734
Philippines	3 191	3 875	4 603	5 371	7 772
Thailand	500	900	100	1 000	33 500
Australia	487 207	452 647	507 055	480 482	457 059
Total (e)	5 400 000	5 400 000	5 600 000	5 700 000	5 700 000

(a) From a mixed copper-zinc concentrate. A small quantity of zinc may be produced in addition to that shown

(b) Recoverable

(c) Smelter

(d) Exports

(e) Zinc ore is also produced in Czechoslovakia, Romania and Socialist Rep. of Vietnam

(f) Includes production for last 5 months of 1973



## Smelter Production of Zinc

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom	146 597	116 464	73 800	83 800	84 400
Belgium	241 237	212 712	254 100	276 600	293 000
France	223 674	210 688	267 515	267 200	276 700
Germany, Federal Republic of	301 200	262 600	358 671	395 019	400 049
Italy	142 082	138 919	155 861	182 011	194 000
Netherlands	46 700	41 400	47 900	31 000	77 600
Austria	16 018	15 969	16 877	17 000	16 500
Bulgaria	76 100	79 000	72 000	* 72 000	* 80 000
Finland	57 000	63 700	81 096	80 662	91 786
German Democratic Republic	* 15 000	* 15 000	* 15 000	* 15 000	* 15 000
Norway	61 400	62 560	73 348	80 954	72 434
Poland	209 000	220 000	220 300	235 000	233 000
Romania	* 60 000	* 60 000	* 60 000	* 65 000	* 70 000
Soviet Union	* 570 000	* 635 000	* 650 000	* 680 000	* 720 000
Spain	89 100	89 309	99 179	106 951	130 006
Yugoslavia	65 022	53 109	48 641	55 176	86 400
South Africa	27 100	42 400	47 200	53 100	65 400
Zaire	63 744	62 673	66 351	67 747	65 670
Zambia	53 456	57 066	55 983	53 500	58 358
Canada	413 196	372 529	476 168	532 552	426 271
Mexico	84 600	83 400	83 800	73 500	133 400
USA	866 332	768 709	641 287	570 424	495 450
Argentina	32 000	33 500	40 800	35 700	37 000
Brazil	11 000	16 300	15 600	22 300	30 500
Peru	71 011	59 143	69 810	69 645	70 000
China	* 100 000	* 100 000	* 100 000	* 100 000	* 100 000
India	23 415	21 219	25 227	12 506	21 103
Japan	676 250	717 728	804 777	842 983	849 879
Korea, Dem. P.R. of	* 90 000	* 100 000	* 120 000	* 130 000	* 130 000
Korea, Republic of	2 300	9 200	15 000	12 600	11 500
Australia	260 594	258 699	295 030	299 453	276 831
World total	5 095 000	4 979 000	5 351 000	5 519 000	5 612 000

## Exports of Zinc

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	461	—	5 837	6 809	14 009
Unwrought (a)	15 901	11 099	15 820	26 665	12 686
Scrap	771	1 311	1 017	2 356	4 634
Belgium-Luxembourg					
Ore	194 549	22 645	57 704	50 579	68 950
Unwrought	137 291	126 752	192 679	221 678	193 632
Scrap	8 786	9 748	7 350	9 045	8 972
Denmark					
Unwrought	106	191	63	9	237
Unwrought alloys	266	255	236	129	67
Scrap	2 905	2 793	2 350	2 615	3 797
France					
Ore	4 820	3	2 687	9 045	18 938
Unwrought	16 427	29 287	47 460	37 143	25 075
Unwrought alloys	1 293	1 342	700	2 887	4 348
Germany, Federal Republic of					
Ore	49 852	55 187	43 974	82 187	76 116
Unwrought (a)	54 125	49 574	104 675	110 274	81 458
Scrap (a)	5 904	5 846	6 787	9 827	12 194
Irish Republic					
Ores & concentrates	194 330	129 297	164 428	150 006	133 916
Italy					
Ore	11 861	7 132	82	28	15
Unwrought	1 895	175	124	4 989	20 655
Netherlands					
Ore	16 169	13 374	11 260	23 747	57 985
Unwrought	26 077	30 838	46 920	39 181	67 560
Scrap (a)	6 243	9 495	7 325	11 238	12 233
Austria					
Ore	1 196	280	—	3 170	5 085
Unwrought (a)	255	563	846	1 073	521
Scrap	621	149	128	247	128
Finland					
Concentrates	2 111	300	100	—	7 097
Unwrought	44 235	56 147	67 821	64 241	66 584
Greece					
Ore & concentrates	21 612	25 820	30 846	43 266	51 289
Norway					
Ore	11 430	11 249	13 392	14 888	20 488
Unwrought	40 197	42 379	49 491	54 428	45 338
Unwrought alloys	6 057	6 168	8 964	12 960	9 900
Scrap	175	92	18	133	371
Poland					
Unwrought (b)	82 994	79 847	86 400	86 281	85 256
Unwrought alloys	5 586	1 105	1 459	1 675	1 755
Portugal					
Ore	3 622	3 876	2 762	2 150	...
Soviet Union					
Unwrought	95 100	136 600	133 100	146 400	114 800
Spain					
Ore	11 594	5 022	4 518	6 928	10 492
Unwrought (a)	3 645	21 842	5 830	2 095	2 812
Sweden					
Ore	179 499	211 257	216 178	224 595	231 066
Unwrought (a)	412	144	370	3 164	1 772
Scrap	1 842	2 330	2 508	2 118	1 103
Switzerland					
Unwrought & scrap	1 318	1 650	1 377	1 627	1 837
Turkey					
Ore	25 884	20 292	16 691	26 009	...
Yugoslavia					
Ore	24 825	51 936	42 356	45 624	...
Concentrates	2 198	5 846	7 379	5 228	1 411
Unwrought	21 933	19 694	21 585	34 560	40 699

## Exports of Zinc

tonnes

Country	1970	1971	1972	1973	1974
Algeria					
Ore	28 174	35 074	27 664	13 716	3 556
Congo					
Ore	...	2 058	...	...	...
Morocco					
Ore	37 501	19 456	21 649	26 195	33 700
Nigeria					
Ores & concentrates	61	...	299	110	1 230
South Africa					
Ores & concentrates (f)	26 958	22 718	16 679	19 632	39 422
Unwrought	5	...	155	1 842	...
Scrap	504	609	1 199	779	...
Tunisia					
Ore	12 353	16 143	16 400	15 200	10 600
Zaire					
Ores & concentrates	* 35 000	* 50 000	* 38 500	...	234 506
Unwrought	* 73 000	* 31 200	* 43 500	48 700	50 994
Zambia					
Unwrought	50 344	49 453	60 572	51 115	50 227
Canada					
Ore (c)	809 247	808 385	694 583	856 497	868 312
Unwrought	318 834	283 832	371 994	422 877	296 131
Scrap (a)	6 714	5 556	9 248	9 166	19 837
Guatemala					
Ore	2 192	...	1 134	...	—
Honduras					
Ores & concentrates	38 731	...	...	...	...
Mexico					
Ores & concentrates	326 548	270 981	300 978	229 872	291 956
Unwrought	38 142	42 293	40 322	18 840	73 711
USA					
Unwrought	262	12 108	3 923	10 492	17 292
Scrap (c)	2 012	1 113	1 002	5 775	9 921
Argentina					
Unwrought	2 832	469	64	128	467
Bolivia					
Ores (c)	46 537	45 412	39 702	49 080	47 939
Peru					
Ores & concentrates (c)	267 019	294 756	344 984	367 703	* 400 000
Unwrought (c)	64 977	49 775	45 002	35 871	...
Burma					
Concentrates	5 530	4 757	3 218	6 487	6 946
Iran (d)					
Ore	96 629	66 223	95 378	72 355	70 483
Japan					
Unwrought	52 585	62 986	106 637	64 005	115 959
Korea, Republic of					
Ore	39 466	37 499	46 180	59 260	54 474
Philippines					
Concentrates	7 694	9 630	8 708	10 652	14 216
Scrap	614	1 018	1 102	1 098	436
Singapore					
Unwrought	1 240	1 977	1 096	5 456	3 412
Australia (e)					
Ores & concentrates (c)	234 912	210 869	364 123	300 773	426 178
Unwrought (a)	154 716	136 825	199 261	203 898	164 778

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 March 20 following that stated

(e) Years ended June 30 of that stated

(f) Source: Dept. of Mines

## Imports of Zinc

tonnes

Country	1970	1971	1972	1973	1974
United Kingdom					
Ores & concentrates	300 036	291 411	110 375	141 190	205 645
Unwrought	160 838	171 623	224 631	219 012	195 462
Unwrought alloys	2 662	1 972	6 116	6 898	10 358
Scrap	434	786	3 309	2 838	3 018
Belgium-Luxembourg					
Ore	617 863	529 123	554 571	636 923	644 850
Unwrought	29 226	35 046	39 295	67 021	69 592
Scrap	2 165	7 167	1 812	4 293	12 066
Denmark					
Unwrought	13 523	8 784	13 060	13 178	13 469
Unwrought alloys	1 709	2 215	1 854	1 750	1 630
Scrap	116	3	3	10	40
France					
Ore	411 149	384 844	436 517	465 181	540 498
Unwrought	24 768	29 014	50 754	58 088	75 822
Scrap	17 430	20 331	17 937	22 817	23 884
Germany, Federal Republic of					
Ore	363 758	355 231	501 415	622 593	640 056
Unwrought (a)	154 958	170 918	144 360	116 251	94 870
Scrap (a)	2 487	3 233	2 327	3 767	5 177
Irish Republic					
Unwrought (a)	2 767	3 104	4 004	4 531	2 325
Italy					
Ore	130 563	107 324	147 948	227 054	300 794
Unwrought	43 877	32 622	37 629	48 452	42 973
Unwrought alloys	16 026	7 304	9 834	13 025	9 380
Scrap	3 758	3 589	4 228	4 641	4 369
Netherlands					
Ore	90 366	95 640	78 924	98 471	205 898
Unwrought	14 229	21 697	20 030	31 478	43 290
Unwrought alloys	1 734	1 380	1 312	625	912
Scrap	1 814	1 167	3 407	6 947	8 066
Austria					
Ore	5 750	292	674	330	373
Unwrought (a)	6 642	4 413	4 761	7 275	9 371
Finland					
Ore	...	81 512	85 303	52 870	112 326
Unwrought (a)	3 162	1 980	2 496	1 786	1 095
Scrap	—	46	372	342	526
Greece					
Unwrought	8 315	7 435	11 731	14 705	11 363
Hungary					
Crude & refined	17 823	22 957	21 402	20 710	24 516
Iceland					
Unwrought (a)	19	23	112	36	42
Norway					
Ore	147 971	82 471	120 381	121 120	86 805
Unwrought	1 730	1 130	751	758	3 549
Scrap	2 913	3 115	2 753	2 818	2 279
Poland					
Concentrates	124 034	109 820	160 889	125 555	95 187
Portugal					
Unwrought & scrap	10 355	9 428	10 982	11 619	11 645
Soviet Union					
Unwrought	53 300	49 400	50 600	44 800	48 700
Unwrought alloys	4 000	4 000	3 900	3 900	3 600
Spain					
Ore	9 158	9 158	48 121	55 830	126 404
Unwrought & scrap	—	280	3 740	2 610	1 041
Sweden					
Unwrought	34 122	34 188	38 858	40 849	40 714
Unwrought alloys	5 627	3 617	4 035	4 647	3 911
Scrap	14	—	18	43	444
Switzerland					
Unwrought	27 367	25 864	32 788	28 436	24 895

## Imports of Zinc

	tonnes				
Country	1970	1971	1972	1973	1974
Turkey					
Unwrought	8 560	8 693	17 170	13 473	...
Yugoslavia					
Concentrates	13 666	...	6 250	44 702	68 318
Unwrought	13 230	19 345	23 675	26 926	25 890
Algeria					
Unwrought (a)	1 212	...	...	3 311	3 146
Egypt					
Unwrought & scrap	3 490	2 210	1 255	153	505
Ghana					
Unwrought (a)	959	592	203	340	202
Ivory Coast					
Unwrought & scrap	325	1 763	1 057	2 101	1 269
Oxides	87	84	101	...	69
Kenya					
Unwrought (a)	1 930	2 107	2 621	3 432	4 980
Libya					
Unwrought	252	127	67	...	5
Morocco					
Unwrought	780	1 083	1 871	1 887	1 653
Mozambique					
Unwrought	290	239	353	1 151	1 145
Nigeria					
Unwrought (a)	4 325	3 719	5 682	4 763	2 841
South Africa					
Ores & concentrates	11 538	34 848	21 599	16 036	38 077
Unwrought	24 894	17 598	6 683	918	4 672
Scrap	785	440	226	1 154	604
Sudan					
Unwrought	54	120	80	2	—
Tanzania					
Unwrought (a)	1 771	2 204	1 990	3 228	3 683
Tunisia					
Unwrought & scrap (a)	320	276	485	1 038	740
Uganda					
Unwrought	1 284	1 750	1 115	324	225
Canada					
Ores & concentrates (b)(c)	366	74	308	3 709	2 125
Unwrought	334	3 632	11 337	18 521	7 021
Costa Rica					
Unwrought (a)	1 927	1 187	2 415	1 864	2 371
Honduras					
Unwrought	19	114	280	508	323
Jamaica					
Unwrought	203	544	933	201	...
Nicaragua					
Unwrought	371	426	...	792	1 193
Trinidad & Tobago					
Unwrought	23	58	64	—	564
USA					
Ore (c)	426 748	436 360	162 672	160 973	217 763
Unwrought	235 987	294 609	468 714	532 907	489 461
Unwrought alloys	2 033	1 132	170	1 221	10 424
Scrap	1 358	1 011	714	1 394	2 194
Argentina					
Unwrought	4 954	2 031	2 008	3 301	960
Brazil					
Unwrought (a)	43 977	43 828	45 973	60 893	49 854
Unwrought alloys		6 729	8 160	16 665	13 615
Chile					
Unwrought	3 788	5 027	5 382	4 086	4 145
Colombia					
Unwrought (a)	5 875	8 593	7 037	10 620	...
Uruguay					
Unwrought & sheets	1 380	1 024	1 756	928	...

## Imports of Zinc

	tonnes				
Country	1970	1971	1972	1973	1974
Venezuela					
Unwrought		8 578	10 242	15 003	10 947
Unwrought alloys	7 713	1 149	819	537	1 450
Burma					
Unwrought (a)	356	126	332	452	114
Cyprus					
Unwrought (a)	463	245	59	33	2
Hong Kong					
Unwrought	8 962	8 585	9 977	9 781	10 787
Scrap	89	231	121	45	...
India (d)					
Ore & concentrates	61 114	43 000	28 790	34 341	5 527
Unwrought	63 345	53 847	58 131	28 317	51 885
Unwrought alloys	27 642	14 841	18 671	34 355	14 759
Iran (e)					
Unwrought	3 316	5 191	4 749	6 822	2 295
Israel					
Unwrought (a)	3 599	3 607	4 636	3 396	1 724
Japan					
Ore	972 913	1 075 659	1 115 675	1 205 405	1 215 879
Unwrought	21 941	13 929	7 953	27 794	23 814
Scrap	47	36	64	95	144
Korea, Republic of					
Unwrought	...	4 779	7 290	21 232	18 362
Lebanon					
Unwrought & scrap	902	986	909	1 149	...
Malaysia					
Ore	2 673	3 558	4 980	6 185	2 409
Unwrought (a)	1 662	2 347	3 152	2 604	6 241
Philippines					
Unwrought (a)	17 523	15 122	13 700	11 814	12 964
Singapore					
Unwrought	8 552	8 585	7 428	10 036	10 432
Syria					
Unwrought & scrap	45	151	182	243	141
Taiwan					
Unwrought (a)	14 729	176	25 402	23 589	22 277
Thailand					
Unwrought	16 645	18 925	25 056	22 833	23 085
Australia (f)					
Ores & concentrates	—	—	—	17	21 935
New Zealand (f)					
Unwrought (a)	15 188	15 705	14 102	23 439	23 489

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 March 31 following that stated

(e) Years ended March 20 following that stated

(f) Years ended June 30 of that stated

## Production of Zirconium Minerals

	tonnes				
Country	1970	1971	1972	1973	1974
Madagascar	3	3	13	13	15
South Africa (a)	...	...	...	4 956	11 978
USA	* 75 000	* 80 000	* 90 000	* 100 000	* 110 000
Brazil (b)	4 024	4 240	4 214	3 094	* 3 000
Malaysia (c)	839	2 746	2 722	3 132	20 036
Sri Lanka	112	139	30	28	21
Thailand	865	1 526	366	402	2 002
Australia (d)	384 130	408 334	353 127	352 167	362 143
World total	476 200	501 600	464 000	486 700	514 800

## 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

**Exports of Zirconium Minerals**

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	1 133	216	103	1 417	289
Germany Federal Republic	1 319	1 223	1 596	2 405	2 270
South Africa	—	25	—	4 883	6 256
USA	3 974	8 554	15 749	26 237	19 492
Malaysia	839	2 746	2 722	3 132	20 036
Thailand	2 510	...	...	...	840
Australia	386 595	367 214	380 844	419 457	400 427



## Imports of Zirconium

	tonnes				
Country	1970	1971	1972	1973	1974
United Kingdom	27 427	39 889	36 519	40 604	36 106
France	27 813	32 732	32 163	39 708	42 114
Germany, Federal Republic of	41 380	38 098	34 818	40 081	23 552
Italy	35 290	17 380	33 280	36 127	32 858
Sweden	610	474	454	899	720
Turkey	18	104	—	94	...
South Africa	620	529	340	74	41
USA	85 964	87 441	61 269	88 925	56 702
Argentina	937	962	232	192	20
Brazil	2 507	5 083	5 635	6 247	7 891
Chile	428	112	248	79	58
Japan	94 275	76 588	117 175	138 013	119 469
Korea, Republic of	150	150	50	652	477
Singapore	25	99	65	96	126

**Production of Beryl**

tonnes

Country	1970	1971	1972	1973	1974
Portugal	14	15	17	10	15
Soviet Union	* 1 300	* 1 300	* 1 400	* 1 500	* 1 700
Angola	...	90	175	115	100
Rhodesia	* 100	* 100	* 60	* 60	* 60
Rwanda	286	240	103	95	90
South Africa	322	491	250	52	2
Uganda	367	222	62	62	54
Zambia	...	...	189	* 200	* 200
Argentina	302	253	187	185	200
Brazil (a)	3 333	2 501	1 551	1 210	1 000

**Production of Borates (b)**

tonnes

Country	1970	1971	1972	1973	1974
Soviet Union	* 350 000	* 350 000	* 350 000	* 350 000	* 350 000
Turkey	523 644	609 200	622 440	534 218	* 600 000
USA (c)	944 000	950 000	1 017 000	1 111 000	1 075 000
Argentina	43 346	59 984	52 438	63 380	72 575

**Production of Germanium**

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Namibia	...	* 5	* 5	* 9	* 9
Zaire	21	53	23	25	62
Canada	...	5	5	7	7
USA (d)	* 13	* 12	* 12	* 12	* 13
Japan	28	19	22	28	17

**Production of Nepheline Syenite**

tonnes

Country	1970	1971	1972	1973	1974
Norway	145 000	160 100	165 000	200 313	211 982
Soviet Union	* 110 000	* 110 000	* 110 000	* 110 000	* 110 000
Canada	441 497	469 187	507 555	516 554	550 661

**Production of Perlite**

tonnes

Country	1970	1971	1972	1973	1974
Greece	168 588	171 300	123 816	247 948	114 195
Hungary	...	60 900	63 930	95 730	93 000
Turkey	...	9 180	30 400	17 300	* 17 000
Mexico	12 365	9 056	12 868	13 479	* 14 000
USA	551 000	449 000	589 000	689 000	613 000
Philippines	...	...	...	825	1 131
Australia	838	2 122	1 807	2 342	2 061
New Zealand	2 000	2 000	2 540	1 599	465

**Production of Selenium (e)**

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Belgium (a)	31	55	67	49	75
Finland	7	6	5	9	10
Sweden	65	50	42	68	48
Yugoslavia	16	24	41	43	41
Canada	301	326	264	236	268
Mexico	126	52	44	39	50
USA (f)	456	298	349	284	209
Peru	7	7	8	8	9
Japan	212	238	335	358	334
Australia	5	17	44	25	36

**Production of Tellurium**

tonnes (metal content)

Country	1970	1971	1972	1973	1974
Canada	26	11	21	42	24
USA (g)	72	74	117	109	87
Peru	28	24	2	26	* 27
Japan	35	36	35	24	26

**Production of Uranium (h)**

tonnes (metal content)

Country	1970	1971	1972	1973	1974
France	1 295	1 280	1 427	1 578	1 612
Portugal	* 80	* 80	* 80	* 80	* 80
Spain	71	125	116	101	38
Gabon	377	446	208	494	620
Niger	46	431	867	1 050	1 117
South Africa	3 168	3 200	3 080	2 627	2 607
Canada (i)	3 157	3 160	3 755	3 661	3 616
USA	9 825	9 932	10 516	10 456	9 696
Argentina	42	42	38	39	32

**Production of Vermiculite**

tonnes

Country	1970	1971	1972	1973	1974
Kenya	1 668	1 359	932	871	816
South Africa	121 896	132 070	147 903	156 461	155 262
Tanzania	150	29	—	—	20
USA (c)	258 548	273 063	305 721	331 122	309 350
Argentina	3 238	4 288	4 148	2 548	3 825
Brazil	8	94	473	46	6
India	1 530	537	1 541	2 709	2 820

**Production of Wollastonite**

tonnes

Country	1970	1971	1972	1973	1974
Finland	6 051	5 549	6 491	6 547	9 100
Kenya	100	—	—	55	100
Mexico	6 562	3 224	559	1 593	...
USA	* 30 000	* 30 000	* 40 000	* 50 000	* 60 000
India	576	2 042	3 326	476	947

(a) Exports

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

(c) Sold or used by producers

(d) Production from primary material of both domestic and foreign origin

(e) Selenium is also produced in Australia

(f) Including Se content of compounds

(g) Including Te content of compounds

(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



## Institute of Geological Sciences

### **World Mineral Statistics 1970-74**

#### Corrections

Page 31 Imports of Chrome Ore to Argentina 1972  
*should read* 3151

Page 51 Imports of Diamond to Belgium-Luxembourg 1972  
*should read* 12 037 875

Page 136 Imports of Platinum to the United Kingdom 1974  
*should read* £61 808 000

Page 166 Exports of Pyrites from Canada:  
*delete* Can. <S>000

**London Her Majesty's Stationery Office 1978**



